

REPORT ON FINE GRID SAMPLING PLAN
(FOR TCDD AND 2,3,7,8-TCDD)
JACKSONVILLE, ARKANSAS

VOLUME III
(Part 3 of 4)

ANALYTICAL DATA REPORTS FOR
SEMI-ISOMER SPECIFIC TCDD
TMS ANALYTICAL SERVICES, INC.
INDIANAPOLIS, INDIANA

SUBMITTED TO
HERCULES INCORPORATED
WILMINGTON, DELAWARE

1988

03220625

REPORT ON FINE GRID SAMPLING PLAN
JACKSONVILLE, ARKANSAS

VOLUME III (Part 3 of 4)

ANALYTICAL DATA REPORTS FOR SEMI-ISOMER SPECIFIC TCDD*

TAB #	FILE NAME	SAMPLES REPORTED	Pages
19	HERO726C	WH2280, WH2281, WH2282	3 1263 - 3 1324
20	HERO728	WH2060, WH2061, WH2108, WH2109, WH2110, WH2126, WH2127, WH2128, WH2287, WH2289, WH2305, WH2306, WH2307	3 1325 - 3 1577
21	HERO803A	WH2311, WH2312, WH2313, WH2314, WH2316, WH2317, WH2318, WH2319, WH2320, WH2063	3 1578 - 3 1798
22	HERO802	WH2260, WH2261, WH2262	3 1799 - 3 1968

*See Volume I, Appendix A, Tables A-1 and A-2, for description of samples.

020626
03220626



TMS ANALYTICAL SERVICES, INC.

6376 Morenci Trail
 Indianapolis, Indiana 46268
 317-291-5697

August 2, 1988

Dr. Florence K. Kinoshita
 Medical Department
 Hercules Incorporated
 1313 N. Market Street
 Wilmington, DE 19894

Dear Dr. Kinoshita:

Enclosed are analytical results for the analysis of 7 samples for 2,3,7,8-TCDD. These samples were analyzed according to the procedures outlined in "Rapid Determination of TCDD In Soil and Sediment Samples, Using Gas Chromatography and Tandem Mass Spectrometry" issued by the U.S. Environmental Protection Agency, Region VII. These samples were received as Shipment HERCULES for analysis on 07/26/88 at 09:30. The analytical results of Filename HER0726C were sent by FAX at 10:20 on August 2, 1988.

If you should have any questions regarding these data or this report, please feel free to contact me at (317)291-5697.

Very truly yours,

Dennis L. Heuring, Ph.D.
 President

ENCLOSURES:

020412

RECEIVED
 AUG 6 1988
 TMS ANALYTICAL SERVICES

03220627

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020413

TMS ANALYTICAL SERVICES, INC.

GAMMA MASS SPECTROMETRY

6376 Market Trail
Indianapolis, Indiana 46268
317-291-5697

TMS FINAL DATA REPORT SHEET

FILE RECEIVED DATE:
FILE RECEIVED TIME:SITE: NEP
CASE: 0726
DATE: 08/01/85

AREA #	CLIENT SAMPLE #	ANALYST'S DATE TIME	NATIVE RATIO	SURROGATE ACC	TDD CONC.	RERUN CODE	VALID CODE	UNITS	COMMENTS
METHBLANK	METHBLNK	07/29/88 1250	0.00*	85.30	0.300 U			NG/GM	
SOILBLANK	DCL34506	07/29/88 1304	0.41*	73.83	0.300 U			NG/GM	
SOILSPIKE	DCL35569	07/29/88 1315	1.21	79.40	0.775			NG/GM	
EDL PE	PE-B	07/29/88 1328	1.19	70.01	3.550			NG/GM	
WH2280	WH2280	07/29/88 1342	0.28*	69.45	0.300 U			NG/GM	UNITS OF NG PER SAMPLE
WH2281	WH2281	07/29/88 1356	0.27*	69.55	0.300 U			NG/GM	UNITS OF NG PER SAMPLE
WH2282	WH2282	07/29/88 1408	1.11	66.78	0.575			NG/GM	

IDENTIFICATION FLAGS:

- * 257/259 RATIO OUTSIDE OF ACCEPTABLE RANGE
- ** SURROGATE OUTSIDE OF ACCEPTABLE RANGE
- *** HIGH DETECTION LIMIT

RERUN CODES:

- A AUTOMATIC RERUN
- R REQUESTED RERUN

020414

SITE: HER
CASE: 0726
DATE: 08/01/88

DATE DPO 0.04 RF NATIVE 2.195 ION RATIO: 1.009 TO 1.233
 W/ STD COND 1.05 RF SUPPDATE 2.063 DEFECTION FACTOR: 6.010

LPS	CLIENT	ANALYSIS	SAMPLE	ION 257	ION 259	ION 263	ION 268	RATIO	SURR	RAW	UNITS	
SAMPLE #	AREA #	SAMPLE #	DATE	TIME	AMOUNT			257/259	ACC	VALUE		
JUL2902	METHBLANK	METHBLANK	07/29/88	1250	5.00	1	5413	317701	915132	0.00	63.32	-0.009 NS/GM
JUL2903	SOILBLANK	BDL34506	07/29/88	1304	5.00	2482	6479	242522	788753	0.41	73.88	0.005 NS/GM
JUL2904	SOILSPIKE	BDL35549	07/29/88	1315	5.00	94455	77816	165545	509406	1.21	75.40	0.779 NS/GM
JUL2905	SOIL PE	PE-E	07/29/88	1328	5.00	438172	366836	160547	534177	1.19	70.01	3.550 NS/GM
JUL2906	WH2286	WH2286	07/29/88	1342	1.00	2222	7992	335688	1159930	0.28	69.45	-0.010 NS/GM
JUL2907	WH2281	WH2281	07/29/88	1356	1.00	1342	4857	181852	627452	0.27	69.55	0.003 NS/GM
JUL2908	WH2282	WH2282	07/29/88	1408	5.24	28346	25628	57278	204757	1.11	66.78	0.575 NS/GM

020111

TABLE 3

ED/MSE/MS DAILY CALIBRATION CHECK

MEAN NATIVE RF	2.145	NATIVE CONC.	0.2	SITE:	REF
MEAN SUPPGATE RF	2.030	SUPPGATE CONC.	0.1	DATE:	05/01/89
ION RATIO RANGE	1.009 TO 1.233	INTERVAL STD. DEVS.	1.1	CASE:	0726

ANALYSIS DATE	ANALYSIS TIME	ION 257	ION 259	ION 263	ION 268	FATIO 257/259	RF NATIVE	NATIVE RF %DIFF.	RF SUPPGATE	SUPPGATE RF % DIFFERENCE	COMMENTS
07/29/88	1238	61951	75427	59341	385217	1.087	2.145	1.71	2.656	27.51	

- * ION RATIO MUST BE WITHIN ACCEPTABLE RANGE OF INITIAL CALIBRATION
 ** NATIVE % DIFFERENCE MUST BE LESS THAN 10% FROM INITIAL CALIBRATION

020416

TABLE 1. ROME NS INCTA. CALIBRATION

SITE CODE: 45P
CASE: 0724
DATE: 10/13/57

SOLUTION ID	ION 257	ION 259	ION 243	ION 228	NATIVE CONC	SURROGATE CONC	INT. STD CONC	RF NATIVE	RF SURROGATE	RATIO 257/259	COMMENTS
CC1-1	73551	47752	43545	345176	0.2	0.06	1.1	2.154	2.166	1.099	
CC1-2	76344	69748	45279	342015	0.2	0.06	1.1	2.126	2.149	1.101	
CC1-3	82880	73708	47294	382375	0.2	0.06	1.1	2.146	2.124	1.120	
							MEAN	2.142			
							STD DEV	0.014			
							% RSD	0.65			
CC2-1	324838	283704	77330	301890	1.0	0.11	1.1	2.117	2.334	1.145	
CC2-2	358491	321128	85661	323744	1.0	0.11	1.1	2.204	2.420	1.116	
CC2-3	334056	291974	79920	312687	1.0	0.11	1.1	2.101	2.328	1.144	
							MEAN	2.141			
							STD DEV	0.055			
							% RSD	2.57			
CC3-1	1081920	966175	92914	208328	5.0	0.20	1.1	2.065	2.044	1.120	
CC3-2	198496	1775427	177632	387550	5.0	0.20	1.1	2.040	2.116	1.120	
CC3-3	2046320	1823272	181766	401036	5.0	0.20	1.1	2.026	2.090	1.122	
							MEAN	2.044	2.083		
							STD DEV	0.020	0.036		
							% RSD	0.97	1.73		
							RF NATIVE OVERALL MEAN	2.109			
							STD DEV	0.056			
							% RSD	2.674			
							RF SURROGATE OVERALL MEAN	2.083			
							STD DEV	0.036			
							% RSD	1.728			
							OVERALL RATIO 257/259 MEAN:	1.121			
							RANGE:	1.009 TO 1.233			

020417

- * RF NATIVE % RELATIVE STANDARD DEVIATION MUST BE LESS THAN 10%
 ** RATIO OF 257/259 OUTSIDE OF ACCEPTABLE RANGE

TABLE I

SOLUBLE POLYMER

SITE: MER - 0734

DATE: 05/14/67

SOLUTION #	10A 25'	10A 25F	10A 24B	ELAN RESPONSE	10A 25E 25D
1	358	510	719479	0.002	0.019
2	1500	6454	741445	0.010	0.025
3	981	3057	526670	0.008	0.018
4	1307	5410	504231	0.006	0.015
5	1625	4905	727429	0.009	0.022
6	2055	5231	457734	0.011	0.026
7	707	4541	541920	0.010	0.023
8	1263	6293	647476	0.011	0.027
9	558	3619	527441	0.008	0.019
10	744	3791	619140	0.007	0.017
11	1403	4917	741787	0.011	0.026
12	1	3932	330613	0.012	0.028
13	1360	4560	609686	0.010	0.024
14	643	4014	509056	0.009	0.022
15	1307	4514	855393	0.009	0.022
16	1316	4457	591202	0.010	0.023
17	1772	7181	796307	0.011	0.027
18	2182	4927	645435	0.011	0.026
19	2257	5650	596849	0.013	0.031
20	562	3543	554208	0.007	0.018

CORRECTION FACTOR = 0.010

LIMIT OF DETECTION = 0.014

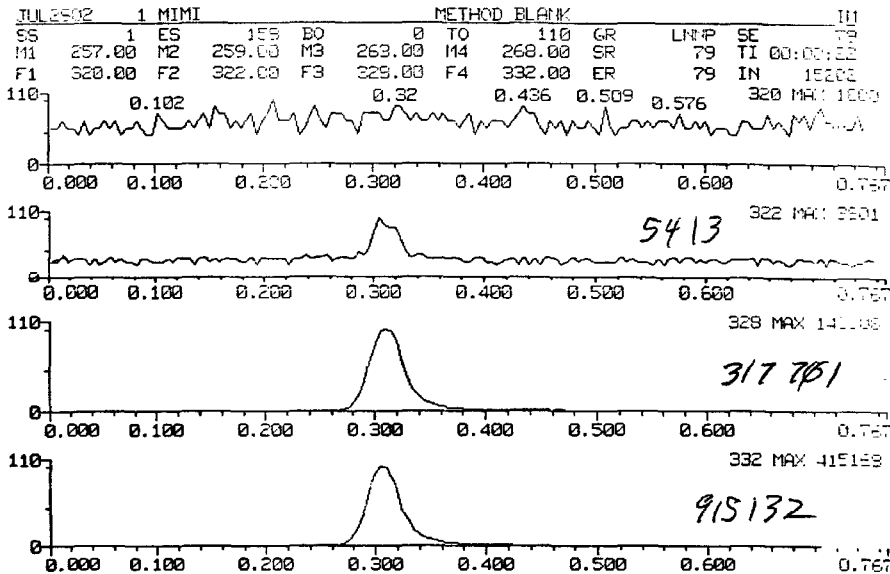
* LIMIT OF DETECTION MUST BE LESS THAN 0.3

020418

03220633

ATTACHMENT 1
SAMPLE MASS CHROMATOGRAMS

020419



29-JUL-88	12:50:26	OP	KEM	MTL	0.0500	STEP	0.1000	PE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000			MO	-0.500
G2	0.000	LT	0.00	DIV	7.130				
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.00	OR	0.00	RE1	105.00	CG	OFF
DTV	0.000	ST	0.00	RO	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

12:50:26

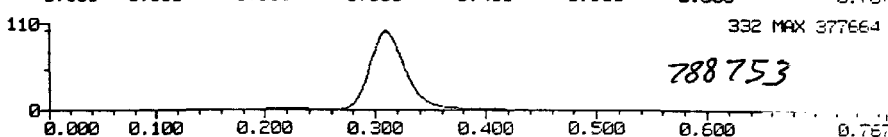
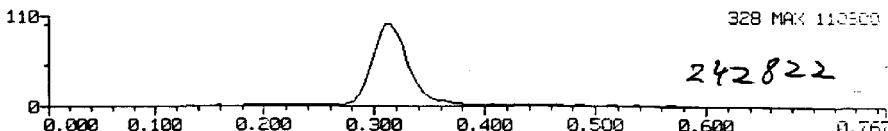
CG-SM	
1	320
	322
	328
	332
	312
	257
	259
	263
	268
	249

KEM

020420

JUL2503 1 MIMI SOIL BLANK

SS	1	ES	158	EO	0	TO	110	GR	LNHP	SE	79
M1	257.00	M2	259.00	M3	263.00	M4	268.00	SR	79	TI	00:00:22
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	79	IN	13:00



29-JUL-88	13:04:22	OP	KEM	MTL	0.0500	STEP	0.1000	PE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000			MO	-0.500
G2	0.000	LT	0.00	DIV	7.170				
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.00	OR	0.00	RE1	105.00	CG	OFF
DTV	0.000	ST	0.00	RO	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

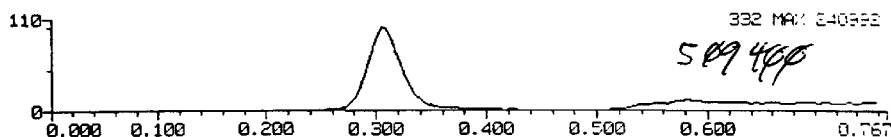
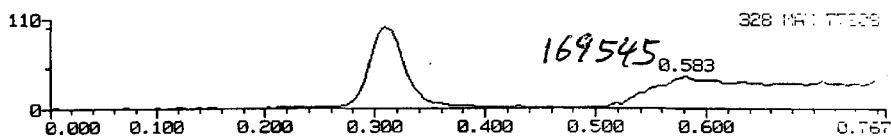
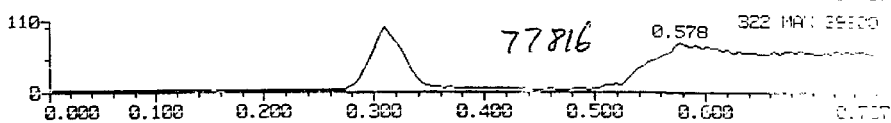
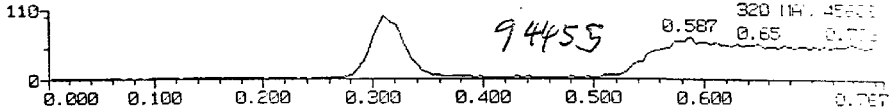
CG-SW
 1 320 257
 322 259
 328 263
 332 268
 312 249

Handwritten signature

13:04:22

020421

JUL 29 1988 1 MIMI SOIL SPIKE
 SS 1 ES 158 B0 0 TO 110 GR LIMP SE
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 79 TI 00:00:21
 F1 320.00 F2 322.00 F3 323.00 F4 332.00 ER 79 IN 00:00:00
 320 MAX 45000
 0.65 0.70



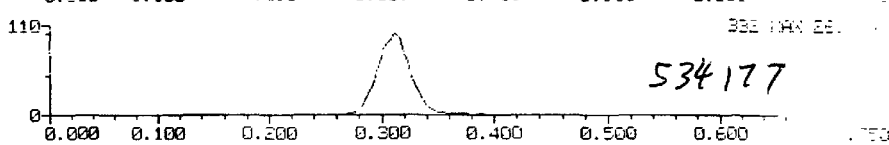
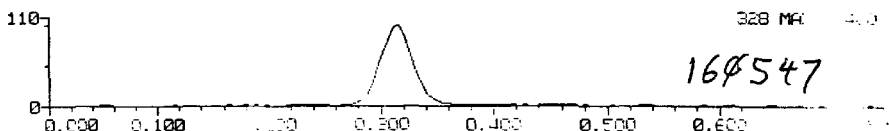
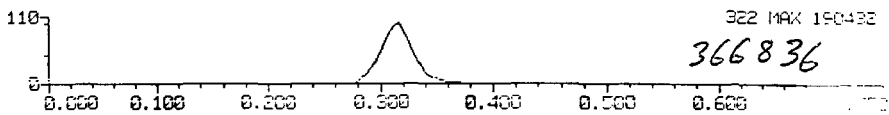
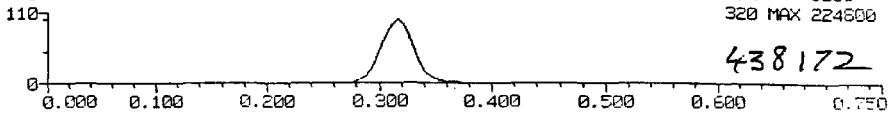
29-JUL-88 13:15:14 OP KEM MTL 0.0500 STEP 0.1000 FE 0.00
 SY 200 SE 0 C 10 MCL 1260 TH 200 TT 0.75
 G1 0.000 IT 0.00 DI -1.000 MO -0.500 FP 60.00
 G2 0.000 LT 0.00 DIV 7.200 MU -4600.0
 G3 0.0000 DT 0.000 IN 0.00 DM1 0.0000 CGT 0.0 DM3 0.4000
 SAF 0.0 GR 0.00 OR 0.00 RE1 105.00 CG OFF RE3 105.00
 DTV 0.000 ST 0.00 R0 -30.00 R1 -20.00 R2 -55.00 R3 -65.00

13:15:14

CG-SW
 1 320 257
 322 259
 328 263
 332 268
 312 249

020422

JUL2905 1 MIMI SOIL FE III
 SS 1 ES 156 B0 0 TO 110 GP LNPP SE
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 78 TI 00:00:22
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 78 IN 5201
 320 MAX 224800

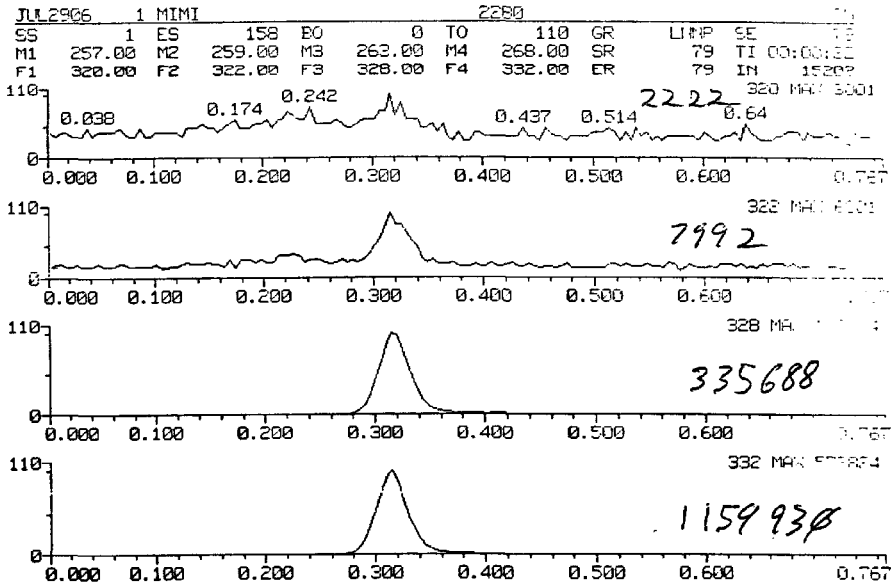


29-JUL-88	13:28:21	OP	KEM	MTL	0.0500	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000	MO	-0.500	FP	60.00
G2	0.000	LT	0.00	DIV	7.130			MJ	-4600.0
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.00	OR	0.00	RE1	105.00	CG	OFF
DTV	0.000	ST	0.00	RO	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

13:28:21

1	CG-SW	
	320	257
	322	259
	328	263
	332	268
	312	249

020423



29-JUL-88	13:42:40	OP	KEM	MTL	0.0500	STEP	0.1000	PE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000			MD	-0.500
G2	0.000	LT	0.00	DIV	7.180				
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.00	OR	0.00	RE1	105.00	CG	OFF
DTV	0.000	ST	0.00	R0	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

CG-SW

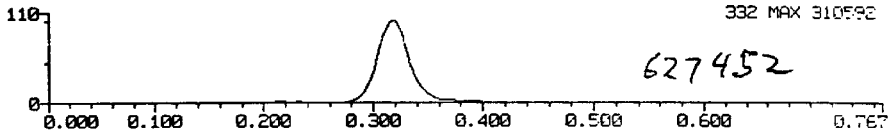
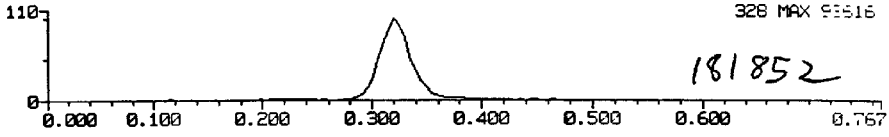
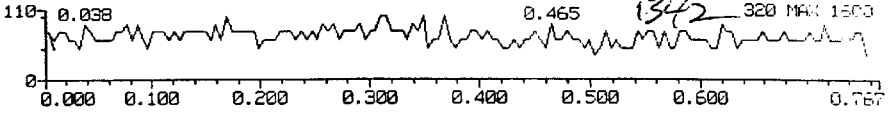
1	320	257
	322	259
	328	263
	332	268
	312	249

13:42:40

020424

JUL 29 07 1 MIMI 2281

SS	1	ES	158	BO	0	TO	110	GR	LNHP	SE	79
M1	257.00	M2	259.00	M3	263.00	M4	268.00	SR	79	TI	00:00:22
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	79	IN	11:22



29-JUL-88	13:56:50	OP	KEM	MTL	0.0500	STEP	0.1000	PE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000	MO	-0.500	FP	60.00
G2	0.000	LT	0.00	DIV	7.150			MU	-4600.0
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.00	OR	0.00	RE1	105.00	CG	OFF
DTV	0.000	ST	0.00	RO	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

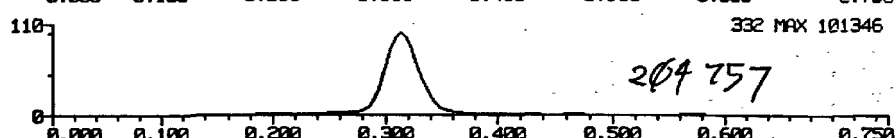
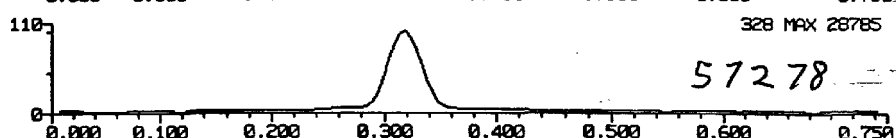
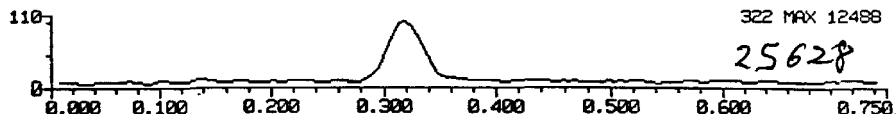
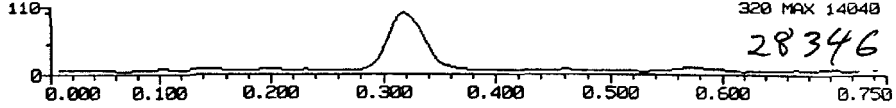
1	CG-SW	
	320	257
	322	259
	328	263
	332	268
	312	249

KEM

13:56:50

020425

JUL 29 08 1 MIMI 2282 J14
 SS 1 ES 158 B0 0 T0 110 GR LNIP SE 79
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 79 TI 00:00:22
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 79 IN 3401
 320 MAX 14040



29-JUL-88 14:08:36 OP KEM MTL 0.0500 STEP 0.1000 PE 0.00
 SY 200 SE 0 C 10 MCL 1260 TH 200 TT 0.75
 G1 0.000 IT 0.00 DI -1.000 MO -0.500 FP 60.00
 G2 0.000 LT 0.00 DIV 7.160 MU -4600.0
 G3 0.0000 DT 0.000 IN 0.00 DM1 0.0000 CGT 0.0 DM3 0.4000
 SAF 0.0 GR 0.00 OR 0.00 RE1 105.00 CG OFF RE3 105.00
 DTV 0.0000 ST 0.00 R0 -30.00 R1 -20.00 R2 -55.00 R3 -65.00

CG-SW
 1 320 257
 322 259
 328 263
 332 268
 312 249

KEM

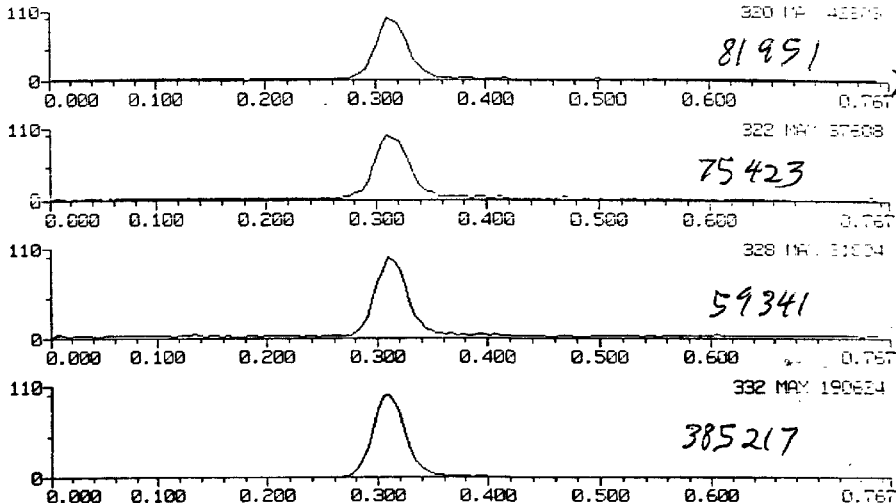
14:08:36

020426

ATTACHMENT 2
DAILY CALIBRATION MASS CHROMATOGRAMS

020427

JUL2881 1 MIMI CAL 1
 SS 1 ES 158 BO 0 TO 110 GP LHP SE
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SP 79 TI 00:00:00
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 79 IN 400
 320 HP 40000



29-JUL-88	12:38:06	OP	KEM	MTL	0.0500	STEP	0.1000	PE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000			MO	-0.500
G2	0.000	LT	0.00	DIV	7.130				FP
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.00	OR	0.00	RE1	105.00	CG	OFF
DTV	0.000	ST	0.00	RO	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

12:38:06

CG=SW	
1	257
	322
	328
	332
	312
	249

Native RRF : 2.145
 (101.7%)

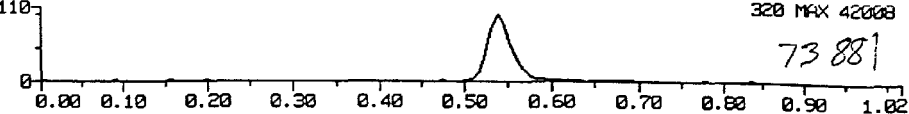
KEM

020428

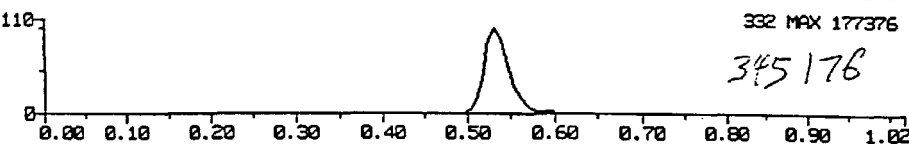
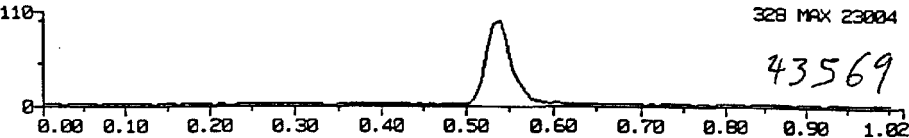
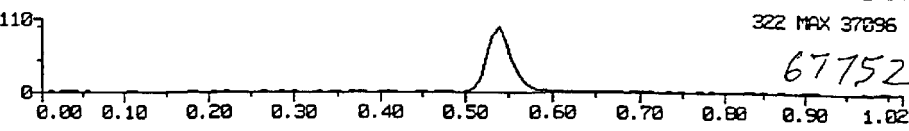
ATTACHMENT 3
INITIAL CALIBRATION MASS CHROMATOGRAMS

020429

OCT1309 1 MIMI CAL I (C-077-02) IM



Peter
1.070



020430

13-OCT-87	17:11:31	OP	KEM	MTL	0.1000	STEP	0.1000	PE	0.00
SY	200	SE	0	C	10	MCL	1250	TH	200
TT	1.00	IT	0.00	DI	-1.000	MO	0.000	FP	60.00
G1	0.000	LT	0.00	DIV	-0.998			MU	-4500.0
G2	0.000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
G3	0.0000	OR	0.00	RE1	120.00	CG	OFF	RES3	120.00
SAF	0.0	GR	0.01	R0	-30.00	R1	-20.00	R2	-55.00
DTV	0.000	ST	0.00	R3	-65.00				

17:11:31

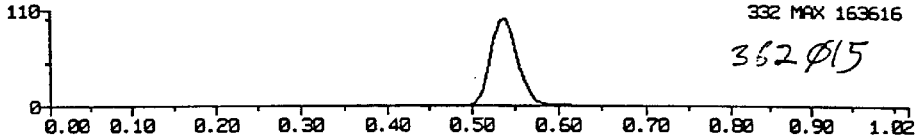
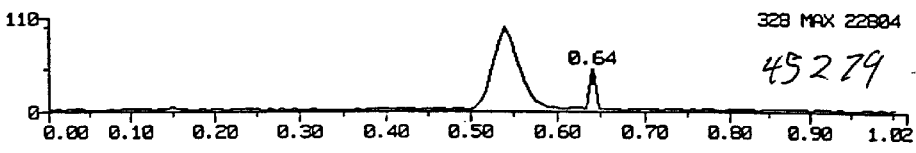
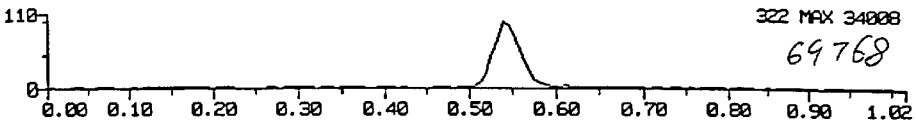
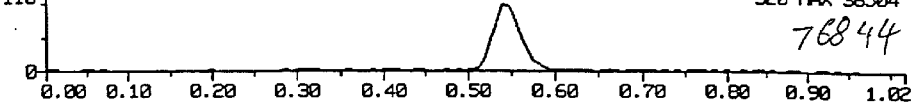
CG-SW	
1	320
	322
	328
	332
	257
	259
	263
	268

K.E.M.

$RRF_{matrix} = 2.154$

$RRF_{sum} = 2.168$

OCT1303 1 MIMI 1 UL CAL I IM
 SS 1 ES 140 B0 0 TO 110 GR LIMP SE 70
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 70 TI 00:00:30
 F1 320.00 F2 322.00 F3 320.00 F4 332.00 ER 70 IN 1600
 320 MAX 36504



020431

13-OCT-87	15:36:52	OP	KEM	MTL	0.1000	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000	MO	0.000	FP	60.00
G2	0.000	LT	0.00	DIV	-0.998			MU	-4500.0
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.01	OR	0.00	RE1	120.00	CG	OFF
DTV	0.000	ST	0.00	R0	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

15:36:52

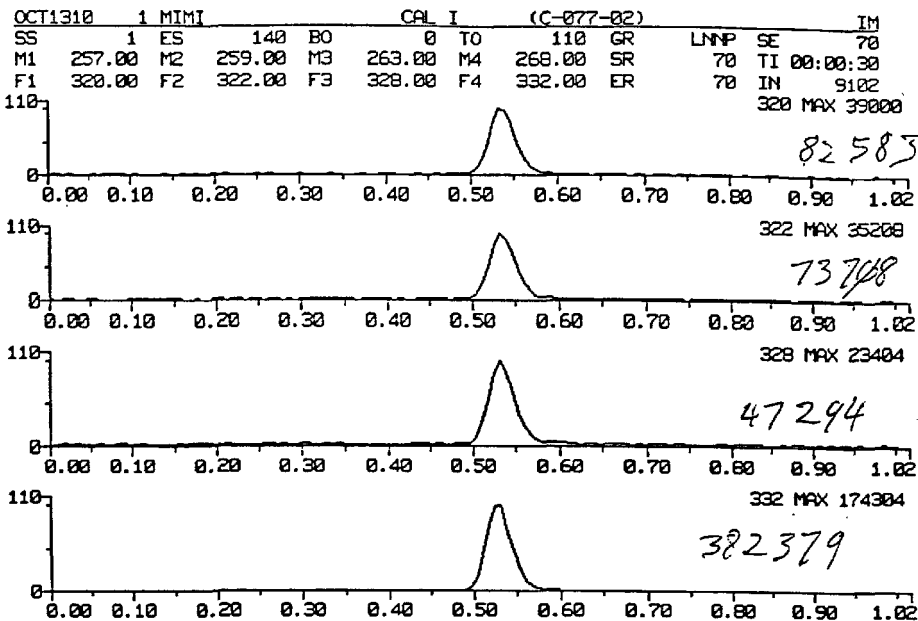
1	CG-SW	
	320	257
	322	259
	320	263
	332	268

K.E.M.

Native RF 2.126

Surv RRF 2.148

40 0.2
 J.S. 1.05
 Surv 0.00



Ratio
1.120
020432

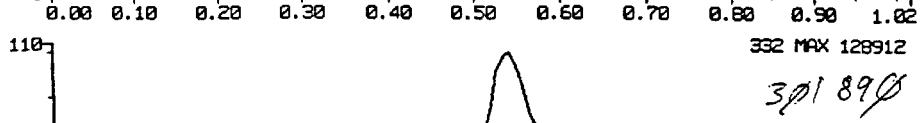
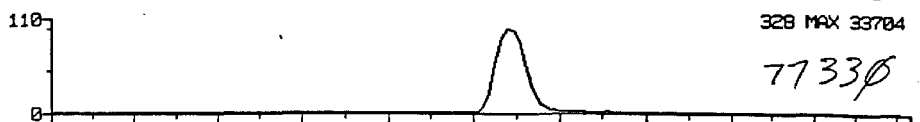
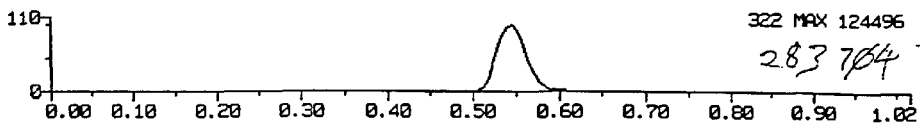
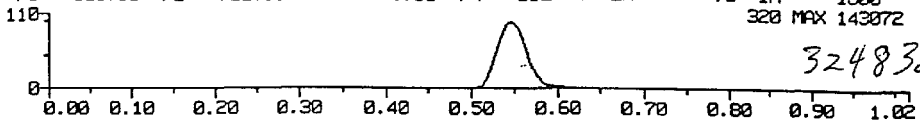
13-OCT-87	17:24:01	OP	KEM	MTL	0.1000	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000			MO	0.000
G2	0.000	LT	0.00	DIV	-1.018			FP	60.00
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.01	OR	0.00	RE1	120.00	CG	OFF
DTV	0.000	ST	0.00	RO	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

17:24:01

1	CG-SW	
	320	257
	322	259
	328	263
	332	268

$RRF_{ratio} = 2.146$
 $RRF_{sum} = 2.123$

OCT1308 1 MIMI CAL II (C-878-02) IM
 SS 1 ES 140 BO 0 TO 110 GR LNPP SE 70
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 70 TI 00:00:30
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 70 IN 1600
 320 MAX 143072



0.00 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.02

13-OCT-87 16:58:26 OP KEM MTL 0.1000 STEP 0.1000 FE 0.00
 SY 200 SE 0 C 10 MCL 1260 TH 200 TT 1.00
 G1 0.000 IT 0.00 DI -1.000 MO 0.000 FP 60.00
 G2 0.000 LT 0.00 DIV -0.983 MU -4500.0
 G3 0.0000 DT 0.000 IN 0.00 DM1 0.0000 CGT 0.0 DM3 0.0000
 SAF 0.0 GR 0.01 OR 0.00 RE1 120.00 CG OFF RE3 120.00
 DTV 0.000 ST 0.00 R0 -30.00 R1 -20.00 R2 -55.00 R3 -65.00

16:58:26

CG-SW
 1 320 257
 322 259
 328 263
 332 268

Z. E. Lu.

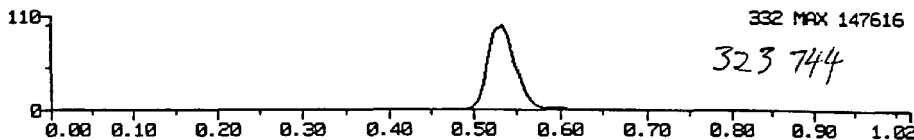
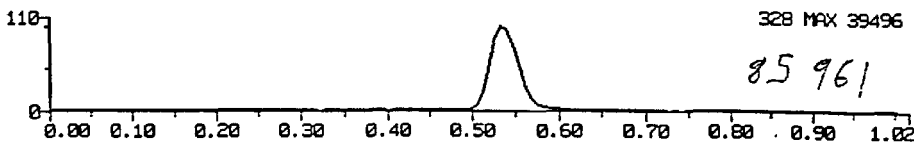
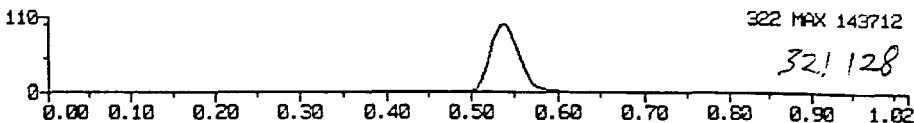
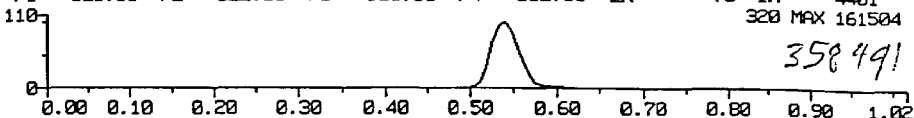
$RRF_{out} = 2.117$

$RRF_{sum} = 2.333$

Factor 1.145

020433

OCT1307 1 MIMI CAL II (C-078-02) IM
 SS 1 ES 140 B0 0 T0 110 GR LIMP SE 70
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 70 TI 00:00:30
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 70 IN 4401
 320 MAX 161504



020434

13-OCT-87	16:41:35	OP	KEM	MTL	0.1000	STEP	0.1000	PE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000			MO	0.000
G2	0.000	LT	0.00	DIV	-0.991			FP	60.00
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.01	OR	0.00	RE1	120.00	CG	OFF
DTV	0.000	ST	0.00	R0	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

16:41:35

1	CG-SW	
	320	257
	322	259
	328	263
	332	268

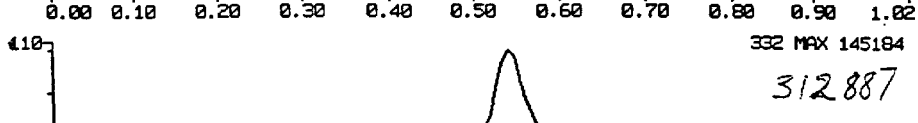
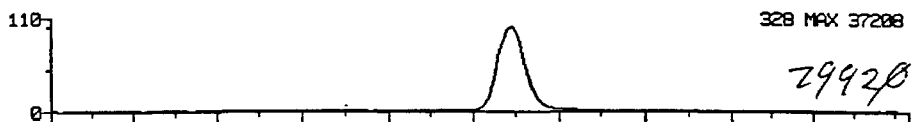
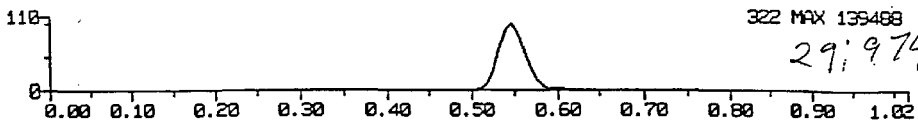
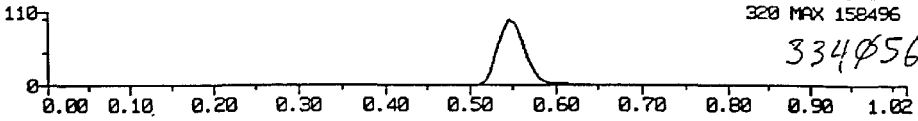
X.E.M.

RRF_{matrix} = 2.204

RRF_{sum} = 2.417

OCT1302 1 MIMI 1 U. CAL II IM

SS	1	ES	140	BO	0	TO	110	GR	LNNP	SE	70
M1	257.00	M2	259.00	M3	263.00	M4	268.00	SR	70	TI	00:00:30
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	70	IN	1200



020435

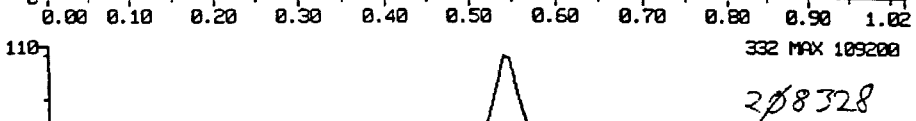
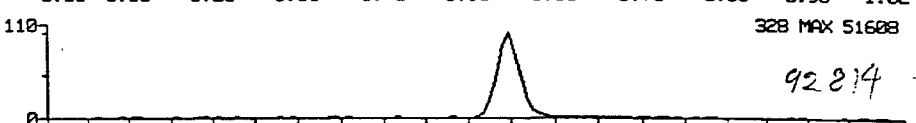
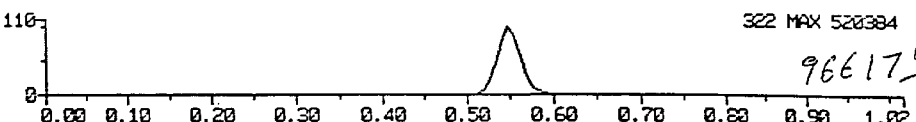
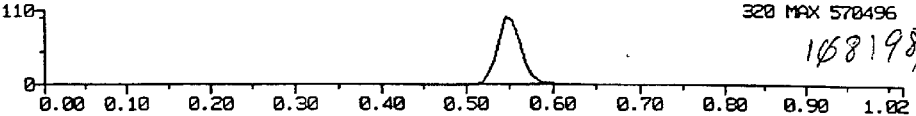
13-OCT-87	15:24:15	OP	KEM	MTL	0.1000	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000			MO	0.000
G2	0.000	LT	0.00	DIV	-1.006			FP	60.00
G3	0.0000	DT	0.0000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.01	OR	0.00	RE1	120.00	CG	OFF
DTV	0.000	ST	0.00	RO	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

15:24:15

CG-SW	
1 320	257
322	259
328	263
332	268

K.E.M.
Native RRF: 2.14!
Sum RRF 2.327

OCT1305 1 MIMI CAL III (C-079-02) IM
 SS 1 ES 140 B0 0 T0 110 GR LNP SE 70
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 70 TI 00:00:30
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 70 IN 000
 320 MAX 570496



Ratio
1.120

020436

13-OCT-87 16:15:36 OP KEM MTL 0.1000 STEP 0.1000 PE 0.00
 SY 200 SE 0 C 10 MCL 1260 TH 200 TT 1.00
 G1 0.000 IT 0.00 DI -1.000 MO 0.000 FP 60.00
 G2 0.000 LT 0.00 DIV -0.977 MU -4600.0
 G3 0.0000 DT 0.000 IN 0.00 DM1 0.0000 CGT 0.0 DM3 0.0000
 SAF 0.0 GR 0.01 OR 0.00 RE1 120.00 CG OFF RE3 120.00
 DTV 0.000 ST 0.00 R0 -30.00 R1 -20.00 R2 -55.00 R3 -65.00

16:15:36

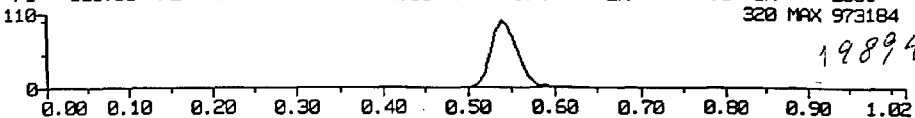
CG-SW
 1 320 257
 322 259
 328 263
 332 268

Z.A.M.

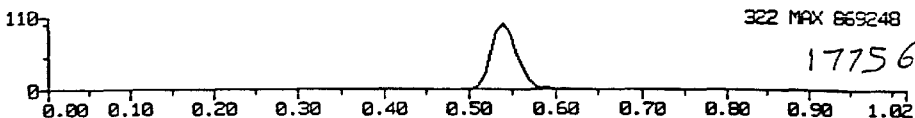
$RRF_{net} = 2.065$
 $RRF_{sum} = 2.042$

OCT1306 1 MIMI CAL III (C-079-02) IM
 SS 1 ES 140 BO 0 TO 110 GR LAMP SE 70
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 70 TI 00:00:30
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 70 IN 2301
 320 MAX 973184

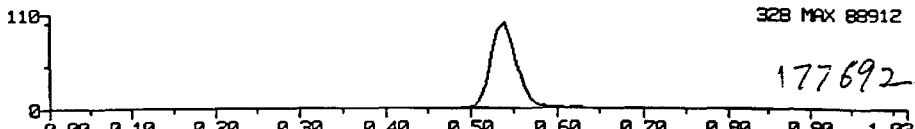
Intro
 1.120



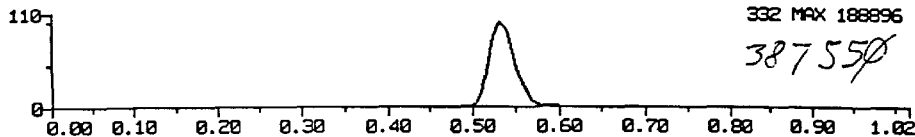
1989496



1775627



177692



387550

020437

13-OCT-87	16:27:40	OP	KEM	MTL	0.1000	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000	MO	0.000	FP	60.00
G2	0.000	LT	0.00	DIV	-0.981	DM1	0.0000	CGT	0.0
G3	0.0000	DT	0.000	IN	0.00	RE1	120.00	CG	OFF
SAF	0.0	GR	0.01	OR	0.00	R1	-20.00	R2	-55.00
DTV	0.000	ST	0.00	RO	-30.00	R3	-65.00		

16:27:40

1	CG-SW	
	320	257
	322	259
	328	263
	332	268

KEM

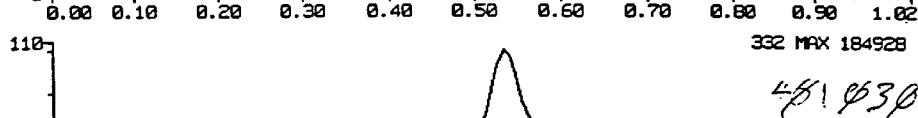
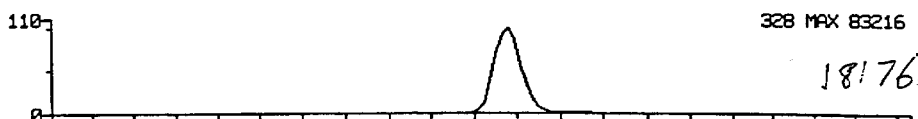
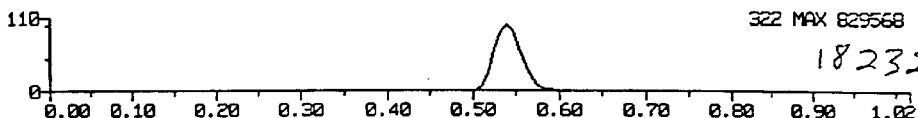
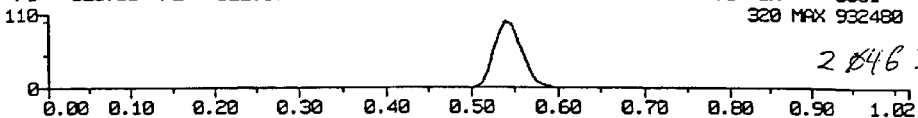
$RRF_{int} = 2.040$

$RRF_{sum} = 2.113$

03220652

OCT1304 1 MIMI 1 U. CAL III IM
 SS 1 ES 140 B0 0 T0 110 GR LNNP SE 70
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 70 TI 00:00:30
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 70 IN 3301
 320 MAX 932480

Ratio
1:122



020438

13-OCT-87	15:51:02	OP	KEM	MTL	0.1000	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	200
G1	0.000	IT	0.00	DI	-1.000	MO	0.000	FP	60.00
G2	0.000	LT	0.00	DIV	-1.000			MJ	-4600.0
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
SAF	0.0	GR	0.01	OR	0.00	RE1	120.00	CG	OFF
DTV	0.000	ST	0.00	R0	-30.00	R1	-20.00	R2	-55.00
								R3	-65.00

15:51:02

1	CG-SW	
	320	257
	322	259
	328	263
	332	268

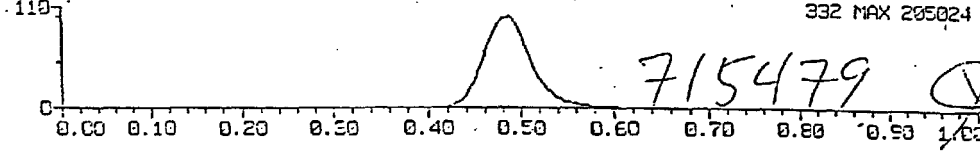
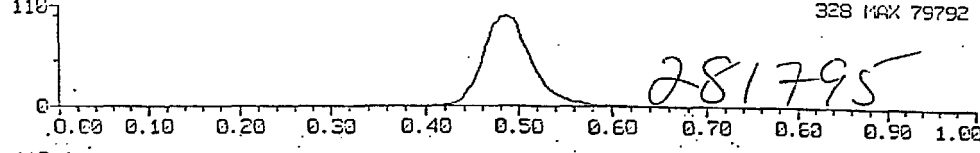
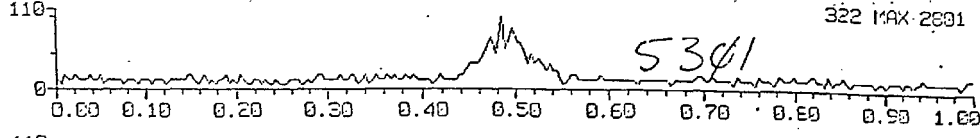
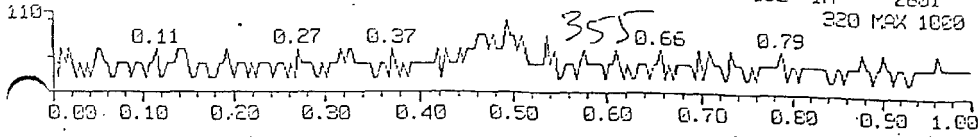
Native R.F: 2.026

$R.F_{surv} = 2.083$

ATTACHMENT 4
BLANK CALIBRATION MASS CHROMATOGRAMS

020439

S3 1 ES 259 BO 0 TO 110 GR LMP EE 110
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 110 TI 00:03:25
 F1 323.00 F2 322.00 F3 328.00 F4 332.00 ER 152 IN 2601



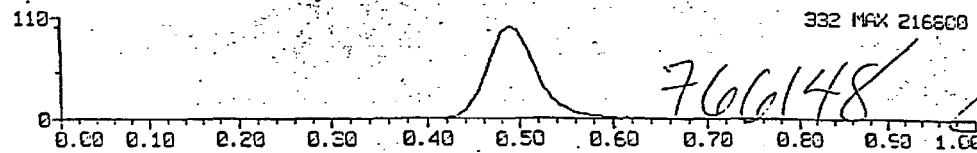
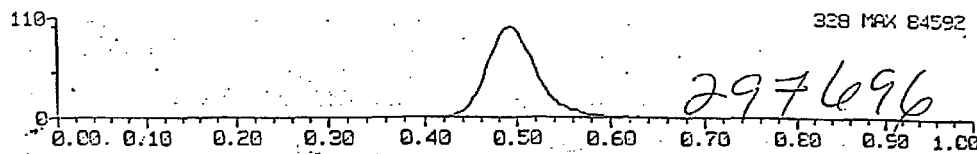
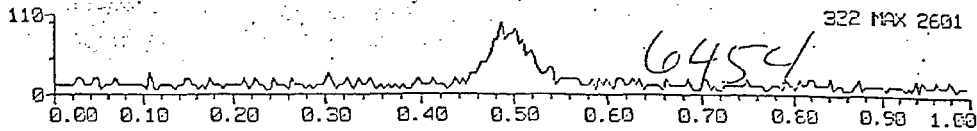
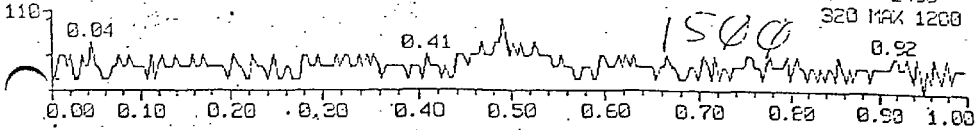
020440

4-MAY-87 09:33:53 OP JRF MTL 0.0500 STEP 0.1000 PE 0.00
 S7 200 SE 0 C 10 NCL 1200 TH 100 TT 1.00
 G1 0.000 IT 0.00 DI -1.000 MO -1.000 FP 60.00
 G2 0.000 LT 0.00 DIV -1.010 MU -4000.0
 0.0000 DT 0.000 IN 0.00 DM1 0.0000 CGT 0.0 DM3 0.0000
 0.0 GR 0.10 CR 0.00 FE1 65.00 CG OFF FE3 65.00
 DTV 0.000 ST 0.00 RO -60.00 R1 -20.00 R2 -55.00 R3 -65.00

09:33:58

CG=SM
 1 320 257
 322 259
 328 263
 332 268

SS	1	ES	259	BO	0	TO	110	GR	LNNP	SE	110
M1	257.00	M2	259.00	M3	263.00	M4	268.00	SR	110	TI	00:00:25
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	151	IN	2400



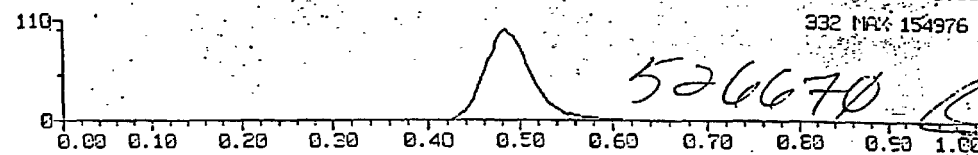
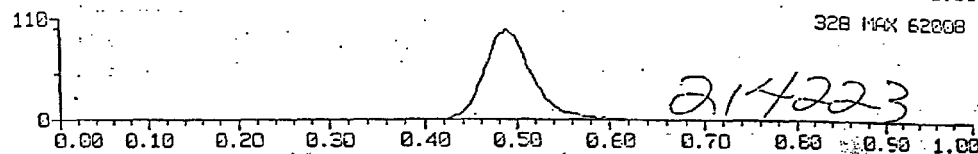
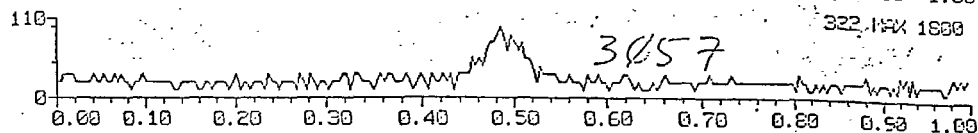
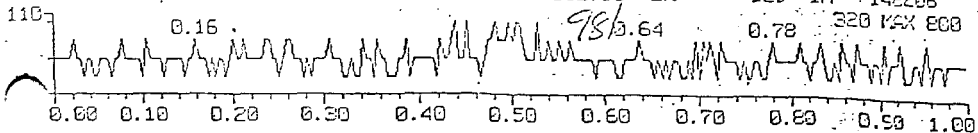
020441

4-MAY-87	09:29:22	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00		
SY	200	SE	0	C	10	MCL	1200	TH	100	TT	1.00
G1	0.000	IT	0.00	DI	-1.000	MO	-1.000	FP	60.00		
	0.000	LT	0.00	DIV	-1.000			MJ	-4000.0		
	0.0000	DT	0.000	IN	0.00	IM1	0.0000	CGT	0.0	IM3	0.0000
EFF	0.0	GR	0.10	OR	0.00	FE1	65.00	CG	OFF	FE3	65.00
DTV	0.000	ST	0.00	RO	-60.00	R1	-20.00	R2	-55.00	R3	-65.00

09:29:22

CG-SW		
1	320	257
	322	259
	328	263
	332	268

SS 1 ES 258 EO 0 TO 110 GR LNMP SE 129
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 129 TI 00:00:30
 F1 322.00 F2 322.00 F3 328.00 F4 332.00 ER 129 IN 148208



4-MAY-87 09:23:10 OP JRF MTL 0.0500 STEP 0.1000 FE 0.00
 S7 200 SE 0 C 10 MCL 1250 TH 100 TT 1.00
 G1 0.000 IT 0.00 DI -1.000 MO -1.000 FP -60.00
 G2 0.000 LT 0.00 DIV -0.998 MU -4500.0
 0.0000 DT 0.000 IN 0.00 DM1 0.0000 CGT 0.0 DM3 0.0000
 JRF 0.0 GR 0.10 CR 0.00 FE1 65.00 CG OFF RE3 -65.00
 DTV 0.000 ST 0.00 RD -60.00 R1 -20.00 R2 -55.00 R3 -65.00

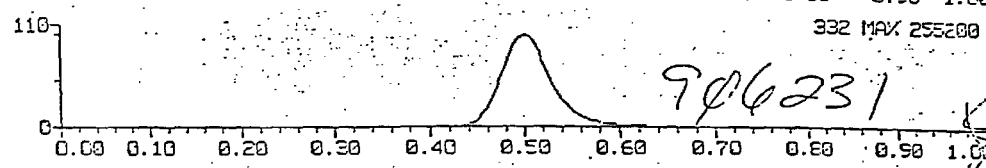
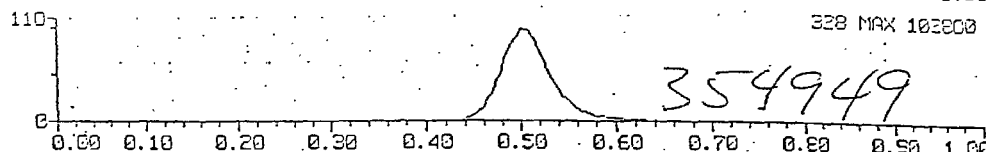
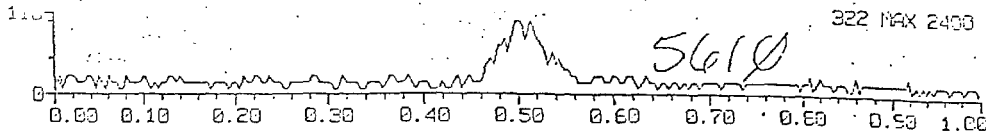
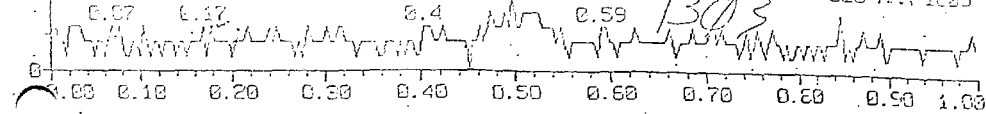
09:23:10

CG-SW

1 330 257
 322 259
 328 263
 332 268

1020442

F1 231.00 F2 232.00 F3 233.00 F4 234.00 ER 129 II: 242228
320 MAX 10200



020443

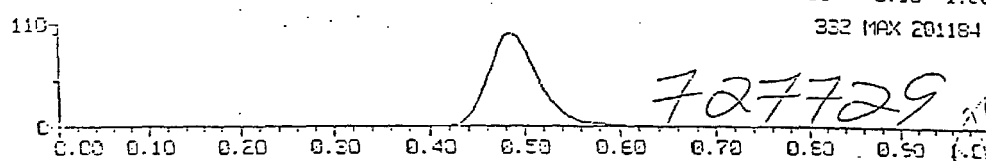
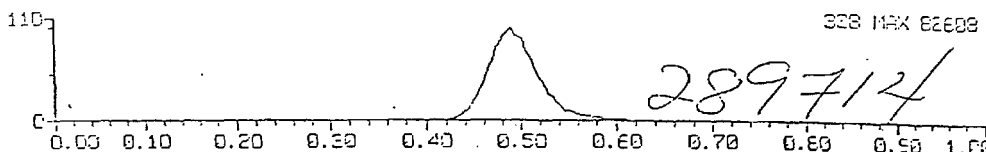
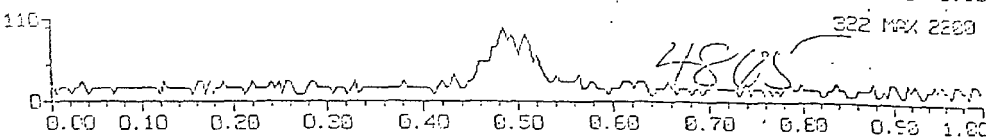
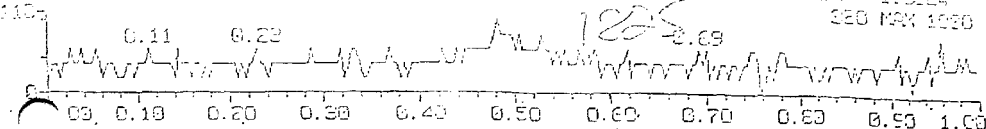
4-147-87	09:17:38	OP	JFF	MTL	0.0500	STEP	0.1000	FE	0.00
S7	200	SE	0	C	10	MCL	1250	TH	100
G1	0.000	IT	0.00	DI	-1.000	MO	-1.000	FP	60.00
G2	0.000	LT	0.00	DIV	-1.007			MU	-4000.0
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
	0.0	GR	0.10	OR	0.00	FE1	65.00	CG	OFF
DIV	0.000	ST	0.00	RO	-60.00	R1	-20.00	R2	-55.00
						R3		R3	-55.00

09:17:38

CG-SW

1	320	257
	322	259
	328	253
	322	268

10 257.00 M2 251.00 T0 252.00 M1 253.00 S1 125 T1 00:00:00
71 322.00 F2 322.00 F3 321.00 F4 322.00 E1 122 IN 195224
320 MAX 1920



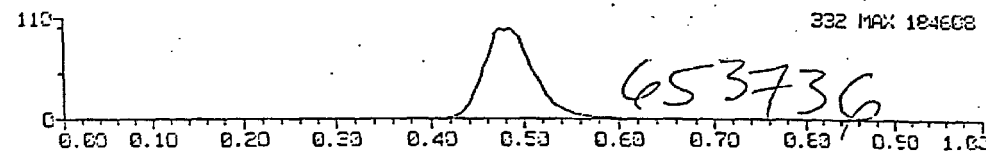
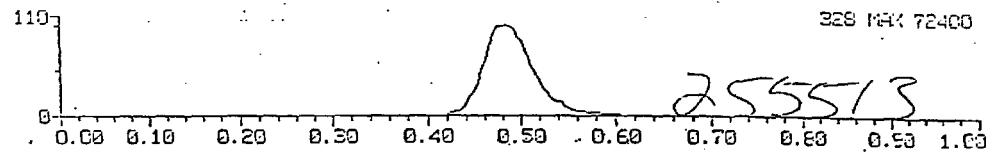
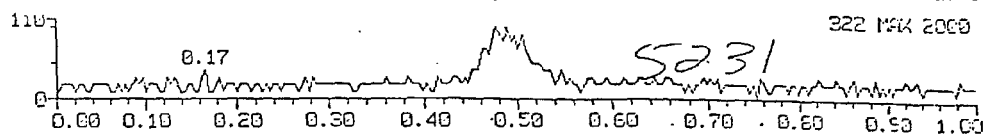
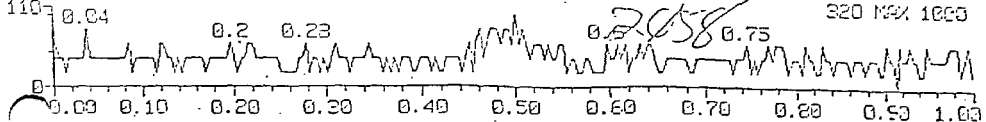
4-MAY-87	09:09:56	CP	JRF	HTL	0.0500	STEP	0.1000	FE	0.00
SV	200	SE	0	C	10	NCL	1250	TH	100
G1	0.000	IT	0.00	DI	-1.000			TT	1.00
G2	0.000	LT	0.00	DIV	-0.992			FP	60.00
	0.0000	DT	0.000	IN	0.00	IM1	0.0000	CGT	0.0
	0.0	GR	0.10	CR	0.00	FE1	65.00	CG	OFF
ITV	0.000	ST	0.00	RD	-60.00	R1	-20.00	R2	-55.00
						R3		R3	-55.00

09:09:56

	CG=EM	
1	320	257
	322	259
	328	263
	332	268

020444

M1 257.00 M2 259.00 M3 253.00 M4 269.00 SR 169 TI 00:00:25
F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 149 IH 2000
110 GR LIMP SE 109
320 MAX 1000



020445

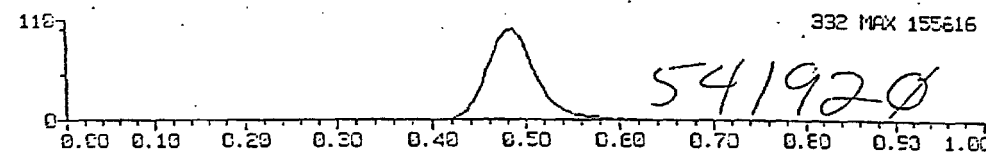
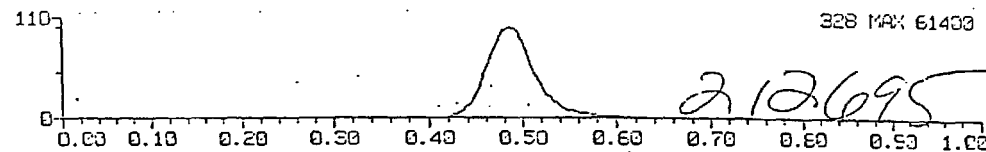
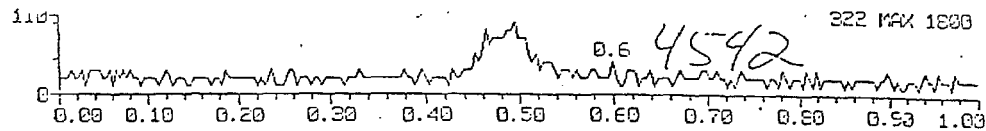
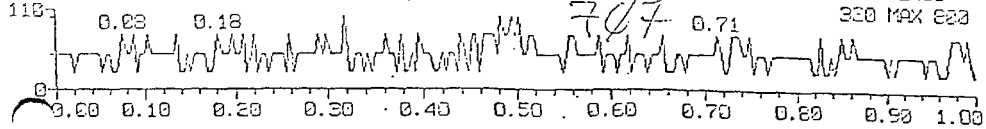


4-MAY-87	09:05:05	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
SE	200	SE	0	C	10	MCL	1250	TH	100
TT	1.00	TT	1.00	TT	1.00	TT	1.00	TT	1.00
DI	-1.000	DI	-1.000	DI	-1.000	DI	-1.000	DI	-1.000
FP	60.00	FP	60.00	FP	60.00	FP	60.00	FP	60.00
IN	0.00	IN	0.00	IN	0.00	IN	0.00	IN	0.00
IM1	0.0000	CGT	0.0	IM3	0.0000	CGT	0.0	IM3	0.0000
FE1	65.00	CG	OFF	FE3	65.00	CG	OFF	FE3	65.00
R1	-20.00	R2	-55.00	R3	-65.00	R1	-20.00	R2	-55.00
R3	-65.00	R3	-65.00	R3	-65.00	R3	-65.00	R3	-65.00

09:05:06

CG=EW	
1 320	257
322	259
328	263
332	268

F1 257.00 N2 259.00 M3 263.00 M4 268.00 SR 110 TI 09:03:25
F2 320.00 F3 328.00 F4 332.00 ER 152 IN 2403



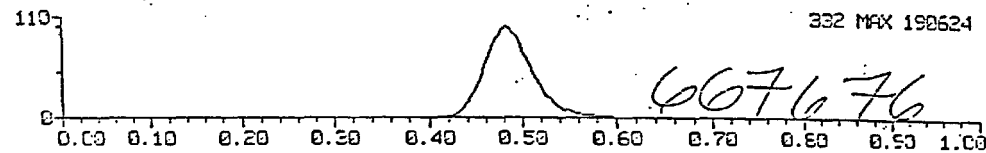
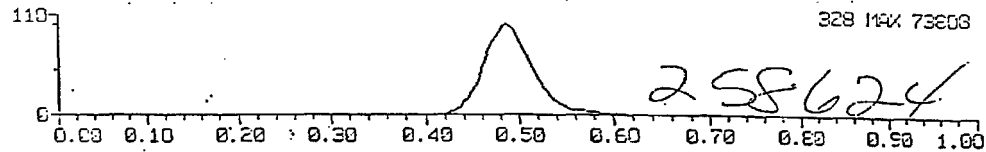
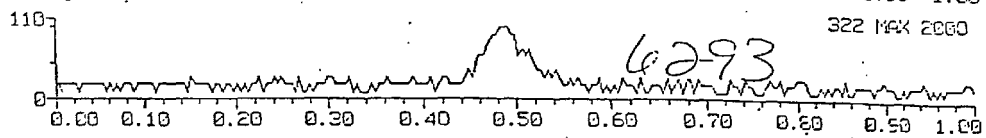
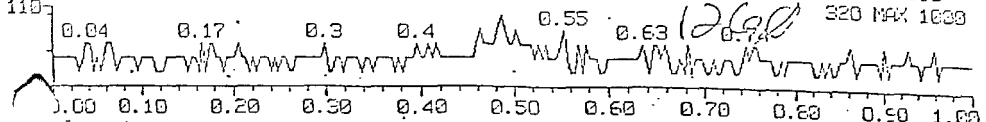
4-MAY-87	09:00:24	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1200	TH	100
TT	1.00	DI	-1.000			MO	-1.000	FP	00.00
G1	0.000	IT	0.00	DIV	-0.551			MU	-4629.0
G2	0.000	LT	0.00	IN	0.00	DM1	0.0000	CGT	0.0
G3	0.0000	DT	0.000	CR	0.00	FE1	65.00	CG	OFF
	0.0	GR	0.10	RD	-50.00	R1	-20.00	F2	-55.00
	0.000	ST	0.00					R3	-65.00

09:00:24

CG=SW	
1	257
	259
	263
	268

020446

ES	1	ES	258	EO	0	TO	110	GR	LIMP	SE	108
M1	257.00	M2	259.00	M3	263.00	M4	268.00	SR	109	TI	00:00:25
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	152	IN	1600



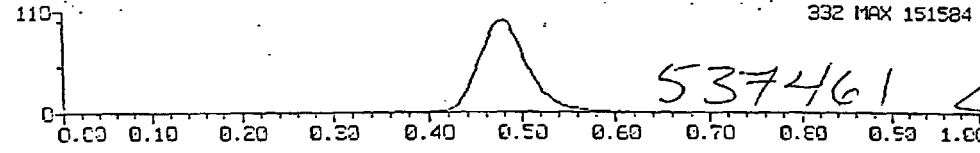
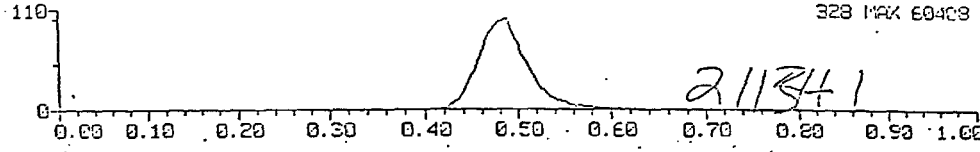
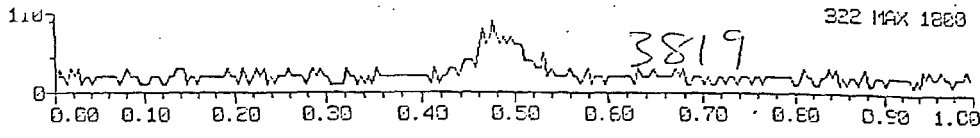
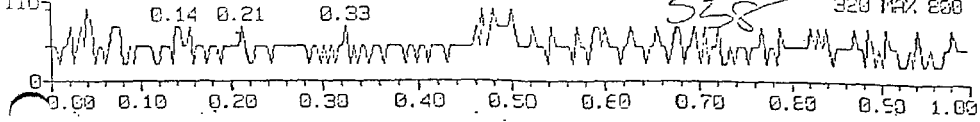
4-MAY-87	09:55:50	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
S7	200	SE	0	C	10	MCL	1200	TH	100
G1	0.000	IT	0.00	DI	-1.000	NO	-1.000	FP	60.00
G2	0.000	LT	0.00	DIV	-0.591			MU	-4500.0
	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
	0.0	CR	0.10	CR	0.00	FE1	65.00	CG	OFF
LTV	0.000	ST	0.00	RO	-60.00	R1	-20.00	R2	-55.00
								R3	-65.00

09:55:50

CG=SW	
1	320 257
	322 259
	323 263
	328 268

020447

M1 237.00 M2 259.00 M3 263.00 M4 269.00 SR 107 TI 00:00:24
F1 320.00 F2 322.00 F3 323.00 F4 332.00 ER 150 IN 1200



020448

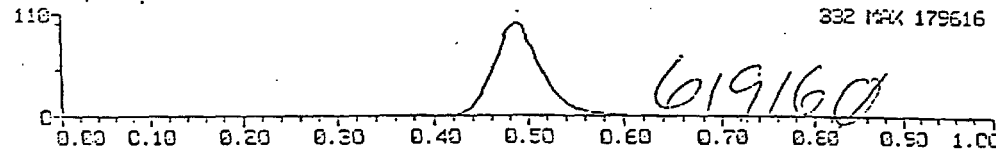
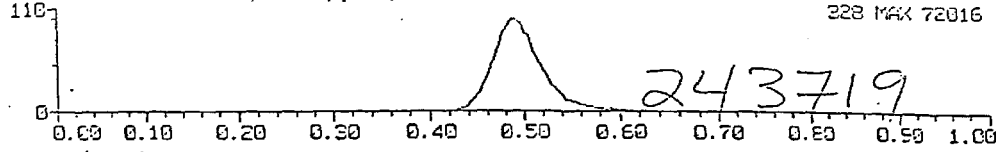
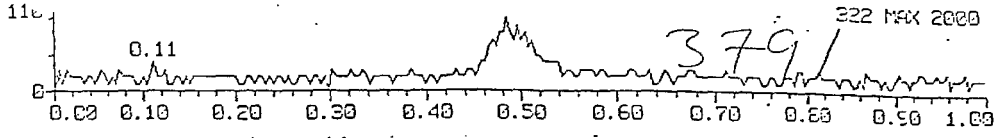
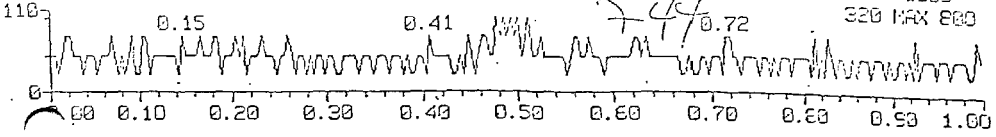
4-MAY-87	08:51:06	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00		
SY	230	SE	0	C	10	MCL	1250	TH	100	TT	1.00
G1	0.000	IT	0.00	DI	-1.000	MO	-1.000	FP	60.00		
G2	0.000	LT	0.00	DIV	-0.994			MJ	-4600.0		
G3	0.0000	DT	0.020	IN	0.00	IM1	0.0000	CGT	0.0	IM3	0.0000
	0.0	GR	0.10	OR	0.00	FE1	65.00	CG	OFF	RES	65.00
	0.000	ST	0.00	RO	-60.00	F1	-20.00	R2	-55.00	R3	-65.00

08:51:06

CG-SW		
1	320	257
	322	259
	328	263
	332	268

M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 110 TI 00:00:25
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 153 IN 1000
 0.15 0.41 0.72 320 MAX 800

3 1300



020449

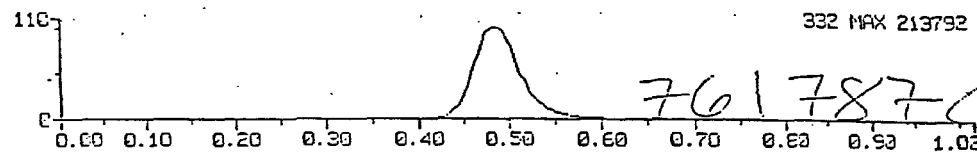
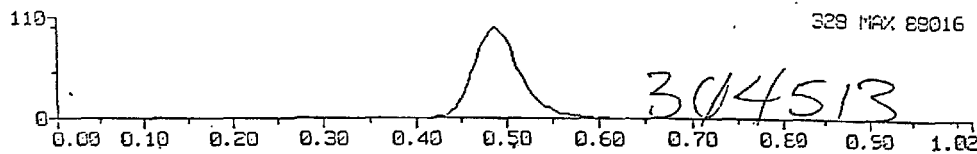
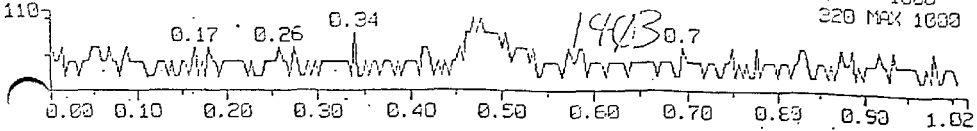


4-MAY-87	09:46:23	CP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
SV	200	SE	0	C	10	MCL	1200	TH	100
G1	0.000	IT	0.00	DI	-1.000			MO	-1.000
G2	0.000	LT	0.00	DIV	-0.994				
G3	0.000	BT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
	0.0	GR	0.10	CR	0.00	FE1	65.00	CG	OFF
	0.000	ST	0.00	FO	-60.00	F1	-20.00	F2	-55.00
									R3

09:46:23

CG=EM
 1 320 257
 322 259
 328 263
 332 268

SS	1	ES	280	EO	0	TO	110	GR	LIMP	SE	IM
M1	257.00	M2	259.00	M3	263.00	M4	265.00	SR	109	TI	00:00:25
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	154	III	1800



020450

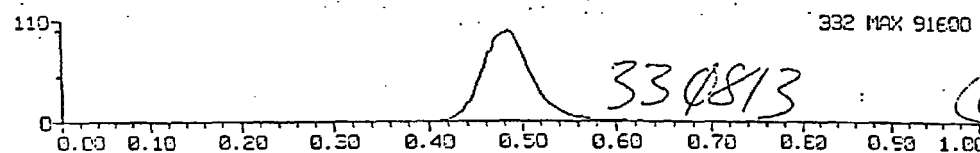
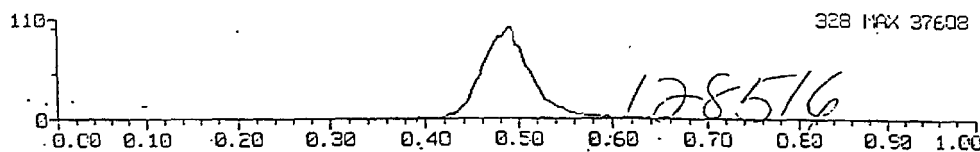
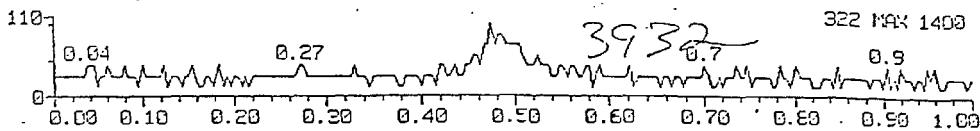
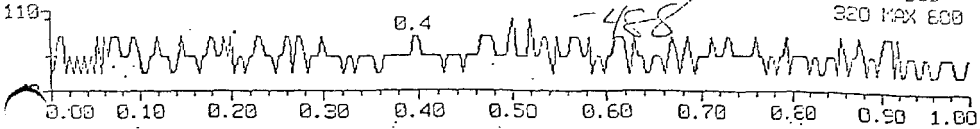
4-MAY-87	09:41:40	CP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1200	TH	100
G1	0.000	IT	0.00	DI	-1.000			MO	-1.000
G2	0.000	LT	0.00	DIV	-1.010			NU	-4000.0
F	0.000	DT	0.000	IN	0.00	IM1	0.0000	CGT	0.0
DTV	0.000	GR	0.10	CR	0.00	FE1	65.00	CG	OFF
		ST	0.00	RO	-60.00	R1	-20.00	R2	-55.00
								R3	-65.00

09:41:40

1	CG-SIN	
	220	257
	222	259
	229	263
	322	268

SS 1 ES 258 EO 0 TO 110 GR LNNP SE 105
 M1 257.00 M2 259.00 M3 253.00 M4 268.00 SR 105 TI 00:00:24
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 152 IN 600

3 1302



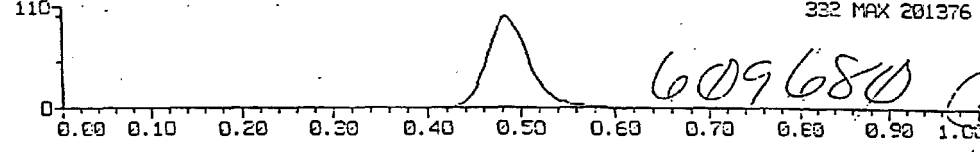
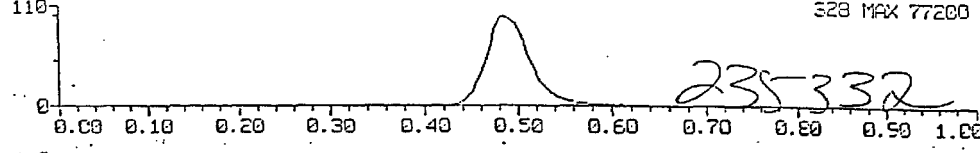
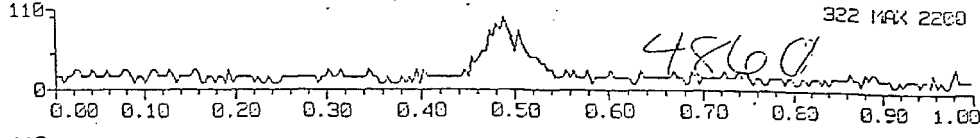
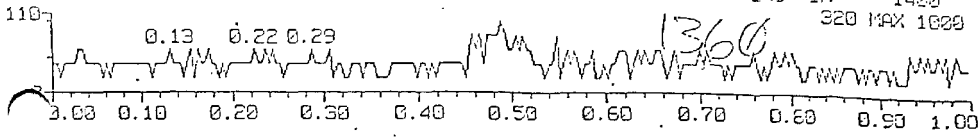
020451

4-MAY-27	08:37:03	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1250	TH	100
G1	0.000	IT	0.00	DI	-1.000			NO	-1.000
G2	0.000	LT	0.00	DIV	-1.000				
F	0.000	DT	0.000	IN	0.00	IM1	0.0000	CGT	0.0
F	0.0	GR	0.10	OR	0.00	FZ1	65.00	CG	OFF
DTV	0.000	ST	0.00	RO	-60.00	F1	-20.00	R2	-55.00
									RE3
									RE3
									RE3

08:37:03

1	CG-SW	
	320	257
	322	259
	328	263
	332	268

SS	1	ES	258	EO	0	TO	110	GR	LIMP	SE	111
M1	257.00	M2	259.00	M3	263.00	M4	269.00	SR	111	TI	00:03:25
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	149	IN	1400



020452

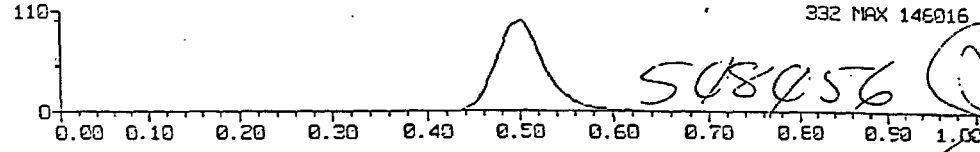
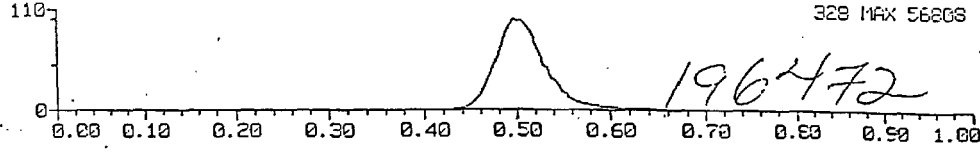
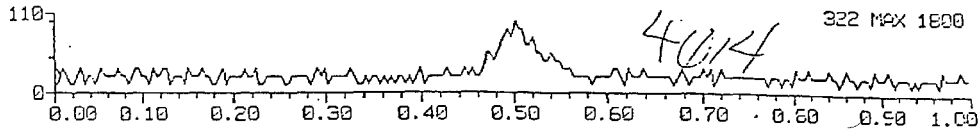
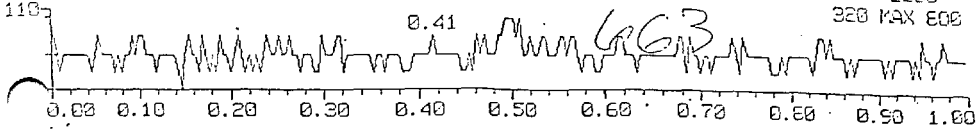
4-MAY-67	08:32:16	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1250	TH	100
G1	0.000	IT	0.00	DI	-1.000			MO	-1.000
G2	0.000	LT	0.00	DIV	-0.925			FP	00.00
G3	0.0000	DT	0.000	IN	0.00	DI11	0.0000	CGT	0.0
JTV	0.000	ST	0.00	R0	-00.00	FE1	65.00	CG	OFF
						R1	-20.00	R2	-55.00
								R3	-65.00

08:32:16

CG=SW		
1	320	257
	322	259
	328	263
	332	268

SS 1 ES 258 E0 0 TO 110 GR LAMP SE 114
 M1 257.00 M2 259.00 M3 263.00 M4 268.00 SR 114 TI 00:00:25
 F1 322.00 F2 322.00 F3 328.00 F4 332.00 ER 156 IN 2200

3 1304



020453

4-MAY-67	08:26:35	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
SY 200	SE 0	C	10	MCL	1260	TH	100	TT	1.00
G1 0.000	IT 0.00	DI	-1.000			MO	-1.000	FP	60.00
G2 0.000	LT 0.00	DIV	-0.999					MJ	-4600.0
0.0000	DT 0.000	IN	0.00	DM1	0.0000	CGT	0.0	DM3	0.0000
F 0.0	GR 0.10	CR	0.00	FE1	65.00	CG	OFF	FE3	65.00
DTV 0.000	ST 0.00	RO	-60.00	R1	-20.00	R2	-55.00	R3	-65.00

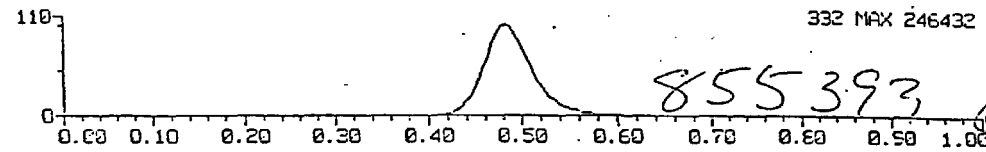
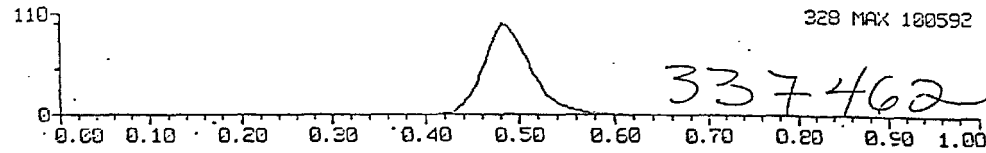
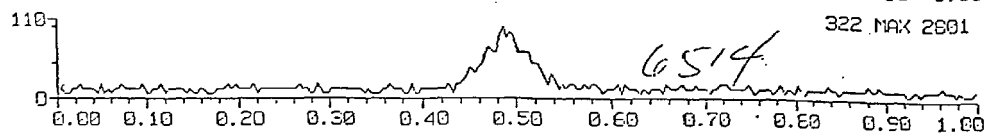
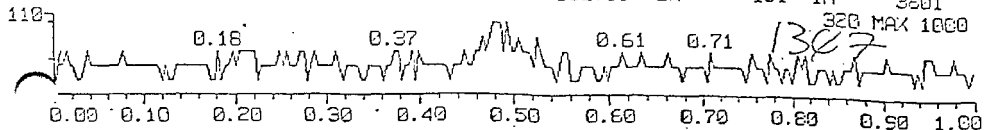
08:26:35

CG-SH	
1 330	257
	322
	259
	328
	263
	322
	268

SPRINGS 1 (Pump) SPIKE II C-095 3/65 IM

SS	1	ES	257	B0	0	TO	110	GR	LNHP	SE	109
M1	257.00	M2	259.00	M3	263.00	M4	268.00	SR	109	TI	00:00:25
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	151	IN	3801

3 1305



020454

4-MAY-87	08:21:17	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00		
SY	200	SE	0	C	10	MCL	1260	TH	100	TT	1.00
G1	0.000	IT	0.00	DI	-1.000			MO	-1.000	FP	60.00
G2	0.000	LT	0.00	DIV	-0.997					MJ	-4600.0
	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0	DM3	0.0000
	0.0	GR	0.10	CR	0.00	FE1	65.00	CG	OFF	RE3	85.00
DTV	0.000	ST	0.00	RO	-60.00	R1	-20.00	R2	-55.00	R3	-65.00

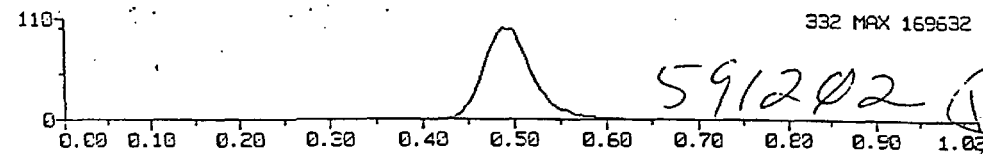
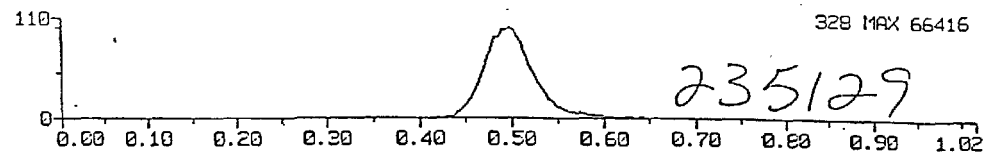
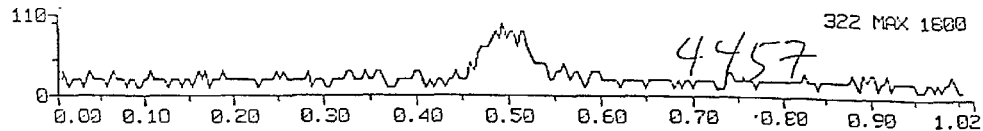
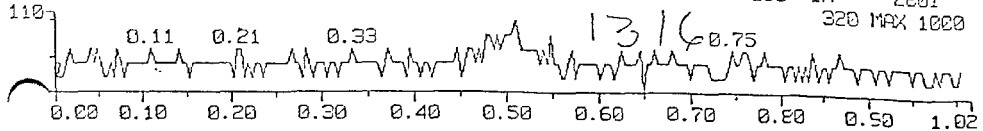
08:21:17

CG-SW	
1	320 257
	322 259
	328 263
	332 268

03220669

ES 1 ES 268 E0 0 T0 118 GR LNRP SE 112
 M1 257.00 N2 259.00 M3 263.00 M4 268.00 SR 112 TI 00:00:26
 F1 320.00 F2 322.00 F3 323.00 F4 332.00 ER 153 IN 2601
 320 MAX 1000

3 1306



020455



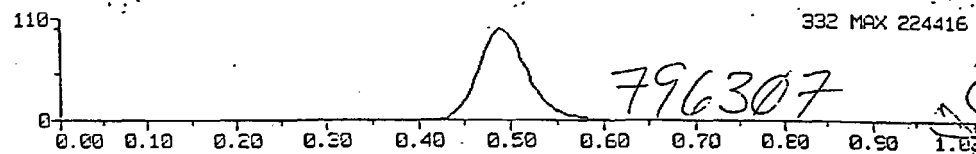
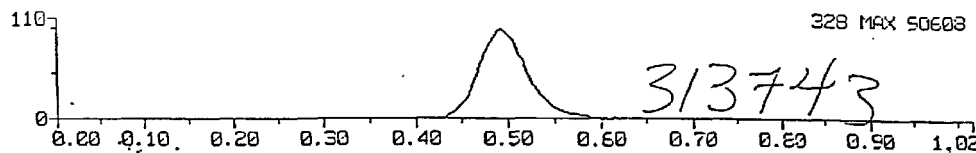
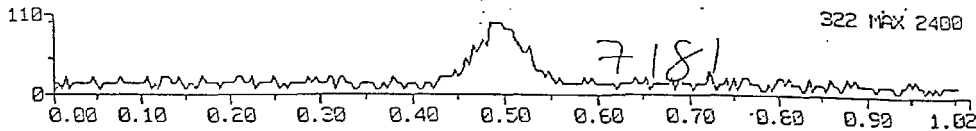
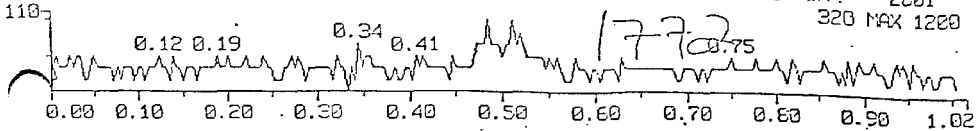
4-MAY-97	08:16:16	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00		
SY	200	SE	0	C	10	MCL	1260	TH	100	TT	1.00
G1	0.020	IT	0.00	DI	-1.000			MO	-1.000	FP	60.00
G2	0.000	LT	0.00	DIV	-0.994					MJ	-4600.0
	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0	DM3	0.0000
F	0.0	GR	0.10	OR	0.00	FE1	65.00	CG	OFF	RES	85.00
DTV	0.000	ST	0.00	R0	-60.00	R1	-20.00	R2	-55.00	R3	-65.00

08:16:16

	CG=SW	
1	323	257
	322	259
	328	263
	332	268

03220670

SS	1	ES	260	EO	0	TO	110	GR	LMP	SE	111
M1	257.00	M2	259.00	M3	263.00	M4	268.00	SR	111	TI	00:00:25
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	153	IN	2601



020456

4-MAY-87	08:10:46	CP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00		
SY	200	SE	0	C	10	NCL	1250	TH	100	TT	1.00
G1	0.000	IT	0.00	DI	-1.000			MO	-1.000	FP	60.00
G2	0.000	LT	0.00	DIV	-1.004					MU	-4000.0
	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0	DM3	0.0000
OFF	0.0	GR	0.10	CR	0.00	REL	65.00	CG	OFF	RE3	65.00
DTV	0.000	ST	0.00	RO	-60.00	R1	-20.00	R2	-55.00	R3	-65.00

08:10:46

CG-SW	
1	320 257
	322 259
	328 253
	332 258

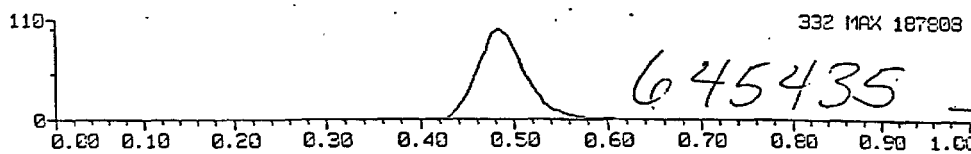
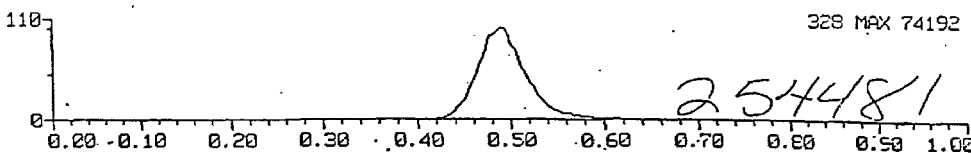
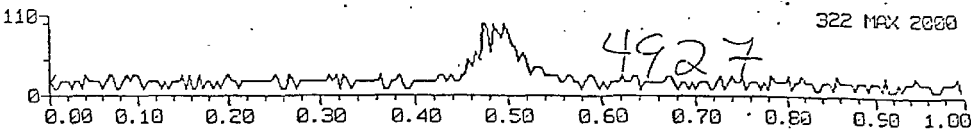
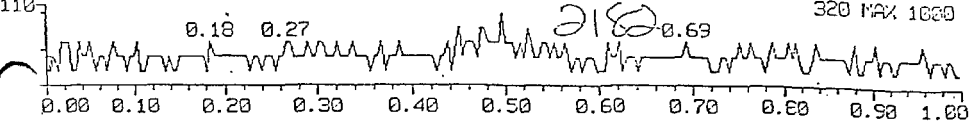
MAY0405. 1 MIMJ

SPIKE II C-096 3/85

11

3 1308

SS	1	ES	258	BO	0	TO	110	GR	LNHP	SE	110
M1	257.00	M2	259.00	M3	263.00	M4	269.00	SR	110	TI	00:00:25
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	152	IN	2400



020457

②

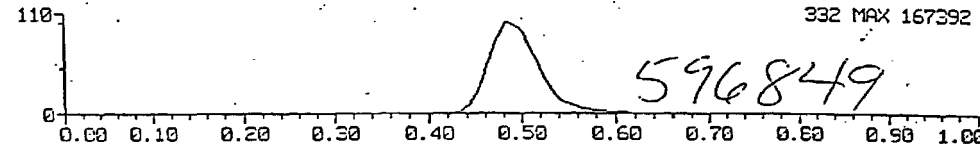
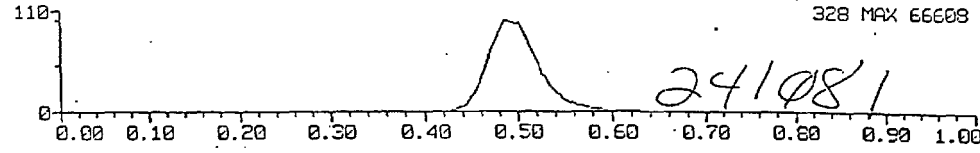
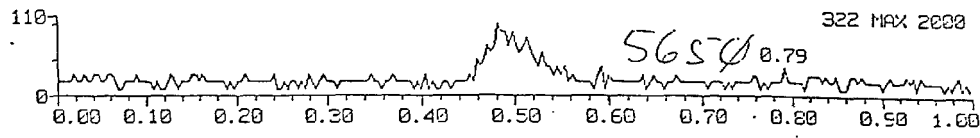
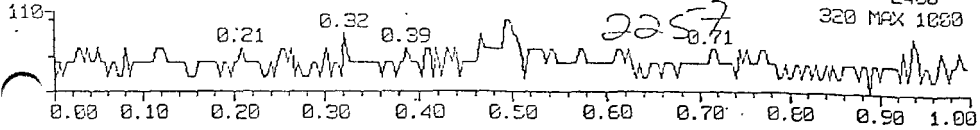
4-MAY-87	08:06:01	OP	JRF	MTL	0.0500	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	100
G1	0.000	IT	0.00	DI	-1.000			MO	-1.000
G2	0.000	LT	0.00	DIV	-1.012			FP	60.00
	0.0200	DT	0.000	IN	0.00	EM1	0.0000	CGT	0.0
	0.0	GR	0.10	OR	0.00	RE1	65.00	CG	OFF
DTV	0.000	ST	0.00	RO	-60.00	R1	-20.00	R2	-55.00
						R3		R3	-65.00

08:05:01

1	CG=SIJ	
	320	257
	322	259
	328	263
	332	268

03220672

SS	1	ES	258	EO	0	TO	110	GR	LNRP	SE	111
M1	257.00	M2	259.00	M3	263.00	M4	268.00	SR	111	TI	00:00:25
F1	320.00	F2	322.00	F3	328.00	F4	332.00	ER	152	IN	2400



020458

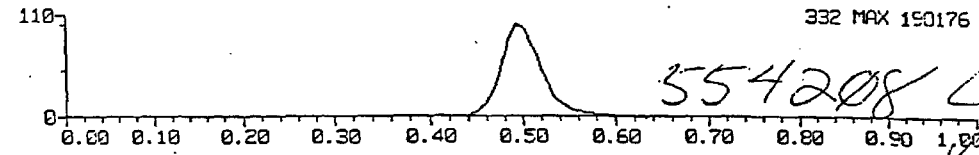
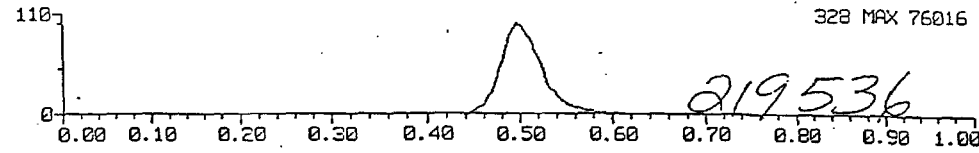
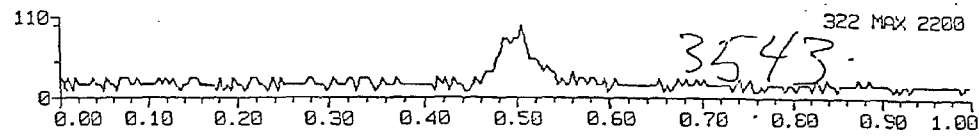
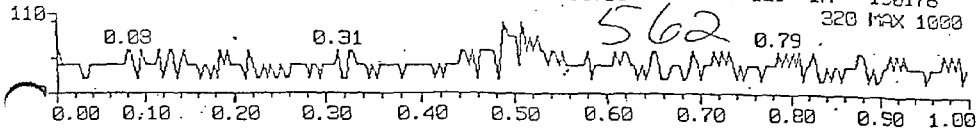
4-MAY-87	08:00:47	OP	JFF	MTL	0.0500	STEP	0.1000	FE	0.00
SY	200	SE	0	C	10	MCL	1260	TH	100
G1	0.000	IT	0.00	DI	-1.000	MO	-1.000	FP	60.00
G2	0.000	LT	0.00	DIV	-0.995			MU	-4600.0
G3	0.0000	DT	0.000	IN	0.00	DM1	0.0000	CGT	0.0
CAF	0.0	GR	0.10	OR	0.00	FE1	65.00	CG	OFF
DTV	0.000	ST	0.00	RO	-60.00	R1	-20.00	R2	-55.00
								R3	-65.00

08:00:47

CG=SW	
1	320
	322
	328
	332
	257
	259
	263
	268

SS 1 ES 258 E0 0 T0 110 GR LNPP SE J11 129
 M1 257.00 M2 259.00 M3 263.00 M4 269.00 SR 129 TI 00:00:30
 F1 320.00 F2 322.00 F3 328.00 F4 332.00 ER 129 IN 190176
 320 MAX 1000

3 1310



020459

4-MAY-87 07:53:06 OP JRF MTL 0.0500 STEP 0.1000 PE 0.00
 SY 200 SE 0 C 10 MCL 1260 TH 100 TT 1.00
 G1 0.000 IT 0.00 DI -1.000 MO -1.000 FP 60.00
 G2 0.000 LT 0.00 DIV -1.003 MU -4600.0
 0 0.0000 DT 0.000 IN 0.00 DM1 0.0000 CGT 0.0 DM3 0.0000
 F 0.0 GR 0.10 OR 0.00 RE1 65.00 CG OFF RE3 65.00
 DTV 0.000 ST 0.00 R0 -60.00 R1 -20.00 R2 -55.00 R3 -65.00

07:53:06

CG-SW
 1 320 257
 322 259
 328 263
 332 268

03220674

ATTACHMENT 5

CHAIN OF CUSTODY, GC/MS/MS LOG, EXTRACTION RECORD

020460

03220675

12012

020461

INTERNATIONAL TECHNOLOGY CORPORATION

CHAIN-OF-CUSTODY RECORD

R/A Control No. 883499

C/C Control No. 47144

OBJECT NAME/NUMBER Jacksonville Offsite/480078.01.08.02

LAB DESTINATION TMS-Indianapolis, Indiana

SAMPLE TEAM MEMBERS D. Smalley / D. Peery

CARRIER/WAYBILL NO. Fed X 88-9088172822

AND 07/25

03220676

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
72220	Jacksonville, Arkansas	07/22/88 1126	SLUDGE	GLASS		
72221	[Large handwritten bracket spanning rows 221-226]	07/22/88 1147	[Large handwritten bracket]	[Large handwritten bracket]		
72222		07/22/88 1159				
72224		07/22/88 1126				
72226		07/22/88 1159				
72227		07/22/88 1500				
72228		07/22/88 1610				
72229		07/22/88 1610				
72230		07/22/88 1610				
72232		07/22/88 1610				

Special Instructions: _____

Visible Sample Hazards: Dioxin

RELINQUISHING NATURES: (Name, Company, Date and Time)

Relinquished By: D. Peery 07/25/88 1400hrs

3. Relinquished By: _____

Received By: _____

Received by: _____

Relinquished By: Federal Express 7-26-88

4. Relinquished By: _____

Received By: Julie K. White 7-26-88 0930

Received By: _____

020462

31313

INTERNATIONAL
TECHNOLOGY
CORPORATION

CHAIN-OF-CUSTODY RECORD

R/A Control No. 88350D

C/C Control No. 47145

PROJECT NAME/NUMBER Jacksonville Offsite/480078.01.08.02

LAB DESTINATION TMS-Indianapolis, Indiana

LABORATORY TEAM MEMBERS D Simerly & D Peery

CARRIER/WAYBILL NO. FED X 9088172822

Sample number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
227	Jacksonville, Arkansas	07/27/88 0902	SREL	GLASS		
228		07/27/88 0902				
229		07/27/88 0902				
230		07/27/88 0902				
231		07/27/88 0902				
232		07/27/88 0902				
233		07/27/88 0902				
234		07/27/88 0902				
235		07/27/88 0902				
236		07/27/88 0902				
237		07/27/88 0902				
238		07/27/88 0902				
239		07/27/88 0902				
240		07/27/88 0902				
241		07/27/88 0902				
242		07/27/88 0902				
243		07/27/88 0902				

Special Instructions: _____

Sample Hazards: Dioxin

INITIALS: (Name, Company, Date and Time)

Relinquished By: Doug Peery 07/25/88 0900h

3. Relinquished By: _____

Received By: _____

Received by: _____

Relinquished By: Federal Express 7-26-88

4. Relinquished By: _____

Received By: Julie Ninko 7-26-88 0930

Received By: _____

03220677

CHAIN-OF-CUSTODY RECORD

R/A Control No. 883501
C/C Control No. 47143

03220678

SUBJECT NAME/NUMBER Jacksonville Offsite/480078.01.08.02

LAB DESTINATION TMS-Indianapolis, Indiana

SAMPLE TEAM MEMBERS D. Simerly & A. Peay

CARRIER/WAYBILL NO. Fed X 908872822

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
42244	Jacksonville, Arkansas	07/25/88 1655	Soil	GLASS		
42245	[Large handwritten scribble]	07/25/88 1650	Soil			
42246		07/25/88 1635				
42247		07/25/88 1640				
42248		07/24/88 1102				
42250		07/24/88 1102				
42252		07/24/88 1206				
42257		07/24/88 1576				
42258		07/24/88 1576				
42259			07/25/88 0922	Soil	GLASS	

Special Instructions: _____

Possible Sample Hazards: Dioxin

SIGNATURES: (Name, Company, Date and Time)

Relinquished By: Doug Peay 07/25/88 1900 hrs

3. Relinquished By: _____

Received By: _____

Received by: _____

Relinquished By: Federal Express 7-26-88

4. Relinquished By: _____

Received By: Julie Noble 7-26-88 09:30

Received By: _____

31315

1020464

INTERNATIONAL
TECHNOLOGY
CORPORATION

CHAIN-OF-CUSTODY RECORD

R/A Control No. 52243

C/C Control No. 47146

03220679

OBJECT NAME/NUMBER Jacksonville Offsite/480078.01.08.02

LAB DESTINATION TMS-Indianapolis, Indiana

SAMPLE TEAM MEMBERS D Senary & D Peery

CARRIER/WAYBILL NO. FED X 9088172822

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
42263	Jacksonville, Arkansas	07/25/88 • 0956	Soil	GLASS		
42264		07/25/88 • 0956	Soil			
42266		07/25/88 • 1444				
42267		07/25/88 • 1124				
42271		07/25/88 • 1905				
42272		07/25/88 • 1905				
42273		07/25/88 • 1432				
42277		07/25/88 • 1535				
42278		07/25/88 • 1535	SOIL			
42280		07/25/88 • 1538	LIQUID			

Special Instructions: _____

Discernible Sample Hazards: Dioxin

SIGNATURES: (Name, Company, Date and Time)

Relinquished By: Doug Peery 07/25/88 @ 1900 hrs

3. Relinquished By: _____

Received By: _____

Received by: _____

Relinquished By: Federal Express 7:20-88

4. Relinquished By: _____

Received By: Debi. K. White 7:20-88 0930

Received By: _____

31316

597025

INTERNATIONAL TECHNOLOGY CORPORATION

CHAIN-OF-CUSTODY RECORD

R/A Control No. 52244

C/C Control No. 47150

03220680

OBJECT NAME/NUMBER Jacksonville Offsite/480078.01.08.02

LAB DESTINATION TMS-Indianapolis, Indiana

SAMPLE TEAM MEMBERS ^{07/25/88} D.A. Smith & D. Peay

CARRIER/WAYBILL NO. FedEx 9088172822

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
12281	Jacksonville, Arkansas	07/25/88 • 1800	LEQUEO	40 ml VOA		
12282	✓ ✓ ✓	07/25/88 • 1610	SOFL	12 PC GLASS		
12288	✓ ✓ ✓	07/24/88 • 1437	LEQUEO	GLASS		
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

Special Instructions:

Visible Sample Hazards: Dioxin

SIGNATURES: (Name, Company, Date and Time)

Relinquished By: Doug Peay 07/25/88 • 1800 hrs

3. Relinquished By: _____

Received By: _____

Received by: _____

Relinquished By: Federal Express 7-26-88

4. Relinquished By: _____

Received By: Julie K. Noble 7-26-88 0930

Received By: _____

1317

INTERNATIONAL TECHNOLOGY CORPORATION

9970266 REQUEST FOR ANALYSIS

R/A Control No. B 83499
C/C Control No. 47144
07/25/88

18902260

PROJECT NAME Jacksonville Offsite
PROJECT NUMBER 480078.01.08.02
PROJECT MANAGER Dana S. Simerly
CALL TO Hercules, Incorporated
1313 N. Market Street
Wilmington, DE 19894

DATE SAMPLES SHIPPED
LAB DESTINATION
LABORATORY CONTACT
SEND LAB REPORT TO

TMS Analytical Services, Inc.
Cindy Krauss
Florence K. Kinoshita, Ph.D.
Medical Dept.
Hercules, Inc.

PURCHASE ORDER NO.

DATE REPORT REQUIRED
PROJECT CONTACT
PROJECT CONTACT PHONE NO.

48 Hrs.
Dana S. Simerly
(501) 982-1513

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
142220	SL4066	≈ 500 ml	None	2,3,7,8-TCDD GC/MS/MS	
142221	↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓
142222					
142224					
142226					
142227					
142228					
142229					
142230					
142232	SL4066	≈ 100 g	None	2378-TCDF GC/MS/MS	

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)

Normal _____ Rush (Subject to rush surcharge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)

Non-hazardous _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other PCDD/PCDF (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)

Return to Client Disposal by Lab _____

FOR LAB USE ONLY

Received By Quirine Noble

Date/Time 7-26-88 0930

IT - Original, to accompany samples
LCW - Field copy

03220682

PROJECT NAME Jacksonville Offsite
PROJECT NUMBER 480078.01.08.02
PROJECT MANAGER Dana S. Simerly
CALL TO Hercules, Incorporated
1313 N. Market Street
Wilmington, DE 19894

DATE SAMPLES SHIPPED _____
LAB DESTINATION _____
LABORATORY CONTACT _____
SEND LAB REPORT TO _____

TMS Analytical Services, Inc.
Cindy Krauss
Florence K. Kinoshita, Ph.D.
Medical Dept.
Hercules, Inc.

PURCHASE ORDER NO. _____

DATE REPORT REQUIRED _____
PROJECT CONTACT _____
PROJECT CONTACT PHONE NO. (501) 982-1513

48 Hrs.
Dana S. Simerly
(501) 982-1513

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
142233	Soil	≈ 35g	None	2,3,7,8-TCDD GC/MS/MS	
142234					
142235					
142236					
142237					
142238	Soil	≈ 35g			
142240	Liquid	≈ 50ml			approx total Liquid Volume
142241	Soil	≈ 35g			
142242	S S S	≈ 35g			
142243	Soil	≈ 35g	None	2,3,7,8-TCDD GC/MS/MS	

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)
Normal _____ Rush (Subject to rush surcharge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)
Nonhazardous _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other PCDD/PCDF (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)
Return to Client Disposal by Lab _____

LAB USE ONLY
Received By Julie Noble

Date/Time 7-26-88 0930

319
3
3

**INTERNATIONAL
TECHNOLOGY
CORPORATION**

894020

REQUEST FOR ANALYSIS

R/A Control No. **B 83501**

C/C Control No. 47143

07/25/88

PROJECT NAME Jacksonville Offsite
 PROJECT NUMBER 480078.01.08.02
 PROJECT MANAGER Dana S. Simerly
 ALL TO Hercules, Incorporated
1313 N. Market Street
Wilmington, DE 19894

DATE SAMPLES SHIPPED _____
 LAB DESTINATION TMS Analytical Services, Inc.
 LABORATORY CONTACT Cindy Krauss
 SEND LAB REPORT TO Florence K. Kinoshita, Ph.D.

PURCHASE ORDER NO. _____

DATE REPORT REQUIRED 48 Hrs.
 PROJECT CONTACT Dana S. Simerly
 PROJECT CONTACT PHONE NO. (501) 982-1513

03220683

Sample No	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
42244	SOIL	≈ 35g	None	2,3,7,8-TCDD GC/MS/MS	
42245	↓	↓	↓	↓	↓
42246					
42247					
42249					
42250					
42252					
42257	↓	↓	↓	↓	↓
42258					
42259	SOIL	≈ 35g	None	2,3,7,8-TCDD GC/MS/MS	

ANALYSIS TIME REQUIRED: (Rush must be approved by the Project Manager.)

Normal _____ Rush (Subject to rush surcharge)

POTENTIAL HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)

Non-hazardous _____ Flammable _____ Skin Irritant _____ Highly Toxic _____
 Other PCDD/PCDF
 (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)

Return to Client Disposal by Lab _____

FOR LAB USE ONLY

Received By Jane Noble

Date/Time 7-26-88 0930

Original, to accompany samples
 Copy - Field copy

0320

INTERNATIONAL
TECHNOLOGY
CORPORATION

694020469 REQUEST FOR ANALYSIS

R/A Control No. 52243
C/C Control No. 47146
07/25/88

PROJECT NAME Jacksonville Offsite
PROJECT NUMBER 488078-01-08-02
PROJECT MANAGER Dana Simally
CELL TO Hercules, Inc.
1312 N. Market St
Wilmington, De.
PURCHASE ORDER NO. _____

DATE SAMPLES SHIPPED _____
LAB DESTINATION TMS Analytical Service Co.
LABORATORY CONTACT Cindy Krauss
SEND LAB REPORT TO Fluoreny, Kenneth
Medical Dept.
Hercules Inc.
DATE REPORT REQUIRED 48 hrs
PROJECT CONTACT Dana Simally
PROJECT CONTACT PHONE NO. 501-501-982-1513

03202280

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
442263	SOTL	≈ 35g	None	2328-TCDD GC/MS/MS	
442264	↓	↓	↓	↓	
442266					
442267					
442271					
442272					
442273	↓	↓	↓	↓	
442277					
442289	SOTL	≈ 35g	None	2328-TCDD GC/MS/MS	MANUAL TOTAL VOLUME OF LIQUEUR
442280	LIQUID	≈ 50ml			

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)
Normal _____ Rush (Subject to rush surcharge)
POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)
Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____ (Please Specify)

DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)
Return to Client Disposal by Lab _____

LAB USE ONLY
Received By Johi Noble Date/Time 7-26-88 0930

100 - Original, to accompany samples
100 - Field copy

31391

INTERNATIONAL
TECHNOLOGY
CORPORATION

017070 REQUEST FOR ANALYSIS

R/A Control No. 52244
C/C Control No. 47150

PROJECT NAME Jacksmile Offsite
PROJECT NUMBER 480078-01-08-02
PROJECT MANAGER Dana Simally
CLIENT Percelec Inc.
13130 Market St.
Wilmington, DE 19894
PURCHASE ORDER NO. _____

DATE SAMPLES SHIPPED 07/25/88
LAB DESTINATION TMS Analytical Service
LABORATORY CONTACT Cindy Krauss
SEND LAB REPORT TO Florence Kinoshita
Medical Dept.
Percelec Inc
DATE REPORT REQUIRED 48 hrs
PROJECT CONTACT Dana Simally
PROJECT CONTACT PHONE NO. 501-882-1513

03220685

Sample No	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
142281	LIQUID	~40ml	None	2378-TCDD GC/MS/MS	
142282	SOLID	~35g	None	2378-TCDD GC/MS/MS	
142283	LIQUID	~50ml	None	2378-TCDD GC/MS/MS	Report total liquid volume

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)
Normal _____ Rush X (Subject to rush surcharge)
POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)
Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____
(Please Specify)

SAMPLE DISPOSAL (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)
Return to Client X Disposal by Lab _____

LAB USE ONLY
Received By Judie Noble Date/Time 7-26-88 0930
Original, to accompany any samples
Copy - photo copy

Company: Department of Defense
 Street Address: [Blank]
 City: State: ZIP Street Address Zip Required: [Blank]

YOUR BILLING REFERENCE INFORMATION (FIRST 24 CHARACTERS WILL APPEAR ON INVOICE)
 PAYMENT: Bill Sender Bill Recipients FedEx Acct No Bill 219 Party FedEx Acct No Credit Card
 Cash

SERVICES CHECK ONLY ONE BOX

PRIORITY 1
 Overnight Delivery Using Your Packaging
 Cargo Aircraft only
 Dangerous goods as per attached Dangerous Goods Transport Document

STANDARD AIR
 Delivery not later than second business day

SERVICES CHECK ONLY ONE BOX

DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED

HOLD FOR PICK-UP
 DELIVER WEEKDAY
 DELIVER SATURDAY (Extra charge)
 DANGEROUS GOODS (P/N and Sec 171.101 Fee/charge only. Extra charge)
 CONSTANT SURVEILLANCE SERVICE (CSS) (Extra charge. Do not Complete Section 3)
 DRY ICE (See 171.101)
 OTHER SPECIAL SERVICE
 SATURDAY PICK-UP (Extra charge)

PACKAGES: 1
 WEIGHT: 1.40
 YOUR DECLARED VALUE: 5777.2
 DATE/TIME FOR FEDERAL EXPRESS USE: 7/25/2008 09:30

ZIP * Zip Code of Street Address Required: [Blank]

Emp. No: [Blank] Date: [Blank]
 Cash Received
 Return Shipment
 Third Party Crg To Del Crg To Hold
 Street Address: [Blank]
 City: State: Zip: [Blank]

Received By: *Julie White*
 Date/Time Received: 09:30 FedEx Employee Number: 72688

008

9088172822 AIRBILL NUMBER **SHIPPER'S CERTIFICATION FOR RESTRICTED ARTICLES/DANGEROUS GOODS**
 CHECK ONE CFR ICAO (TYPE OR PRINT)

NO. OF PKGS.	PROPER SHIPPING NAME	CLASS OR DIVISION	UN OR ID NO.	SUBSIDIARY RISK	TOTAL NET QUANTITY	PACKING INSTRUCTIONS	AUTHORIZATION
1	HEAVY METAL LIMITED QUANTITY	FLAMMABLE LIQUID	UN 1204		20		

ADDITIONAL DESCRIPTION REQUIREMENTS FOR RADIOACTIVE MATERIALS (SEE BACK)

RADIOACTIVE MATERIALS (SEE BACK)

TRANSPORT DETAILS

AIRPORT OF DEPARTURE: [Blank] AIRPORT OF DESTINATION: [Blank] SHIPMENT TYPE: **NON-RADIOACTIVE**

ASSESSMENT
 PASSENGER AIRCRAFT
 CARGO AIRCRAFT ONLY (DELETE-NONAPPLICABLE)
 RADIOACTIVE (DELETE-NONAPPLICABLE)

IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS OR TREATMENT.

I HEREBY DECLARE THAT THE CONTENTS OF THIS CONSIGNMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE BY PROPER SHIPPING NAME AND ARE CLASSIFIED, PACKED, MARKED, AND LABELED, AND ARE IN ALL RESPECTS IN PROPER CONDITION FOR TRANSPORT BY AIR ACCORDING TO THE APPLICABLE INTERNATIONAL AND NATIONAL GOVERNMENT REGULATIONS.

WE AND TITLE OF SHIPPER: [Blank] PLACE AND DATE: [Blank]
 EMERGENCY TELEPHONE NUMBER: [Blank] SIGNATURE OF SHIPPER: [Blank]

SEE WARNING ON BACK

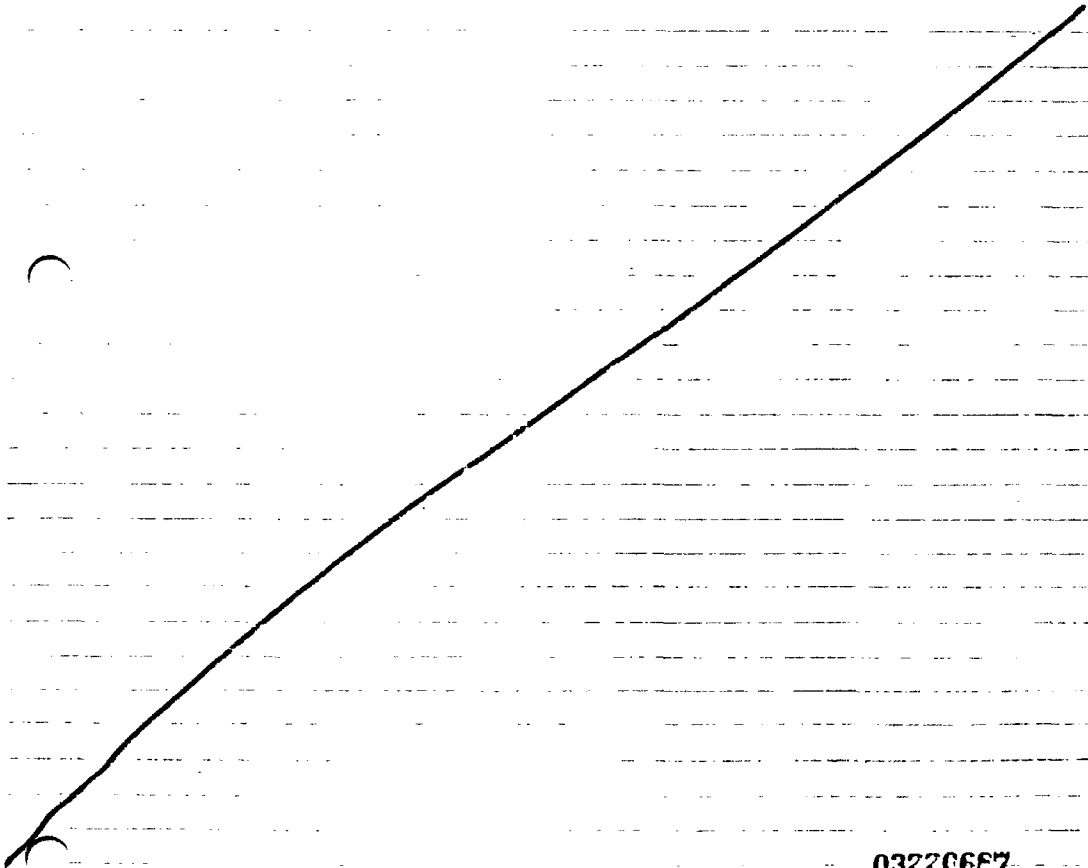
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1258
1304
1315
1328
1342

1403
1420

CAL 1
Mth Blk (R)
Soil Blank
Soil Spike
Soil PE
2280 (R)
2281
2282
Mth Blk (R)
Soil Blank
Soil Spike

020472



03220687

To Page No.

essed & Understood by me,

Date 7/29/88

Invented by K.E. Mills

Date

Recorded by



TANDEM MASS SPECTROMETRY

TMS ANALYTICAL SERVICES, INC.

6376 Morenci Trail
Indianapolis, Indiana 46268
317-291-5697

August 3, 1988

Dr. Florence K. Kinoshita
Medical Department
Hercules Incorporated
1313 N. Market Street
Wilmington, DE 19894

Dear Dr. Kinoshita:

Enclosed are analytical results for the analysis of 17 samples for 2,3,7,8-TCDD. These samples were analyzed according to the procedures outlined in the USEPA Contract Laboratory Program "Statement of Work for Rapid Turnaround Dioxin Analysis in Multi-Media", November 1986. Sample preparation procedures from the "Rapid Determination of TCDD In Soil and Sediment Samples, Using Gas Chromatography and Tandem Mass Spectrometry" were used, and analysis of the extracts was by the HRGC/LRMS procedures. These samples were received as Shipment HERCULES for analysis on 07/28/88 at 09:30. The analytical results of Filename HER07266 were sent by FAX at 10:00 on August 3, 1988.

If you should have any questions regarding these data or this report, please feel free to contact me at (317)291-5697.

Very truly yours,

Dennis L. Heuring, Ph.D.
President

ENCLOSURES:

020474

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TQDD FINAL DATA REPORT SHEET

FILE RECEIVED DATE:
FILE RECEIVED TIME:

SITE: HEF
CASE: 0728
DATE: 08/02/88

AREA #	CLIENT SAMPLE #	ANALYSIS DATE TIME	FATID ID/TEST	FATID DSC/334	SURROGATE ACC	TQDD DENS.	RERUN CODE	VALID CODE	UNITS	COMMENTS
METHLAB	METHLAB	08/01/88 0112	1.00*	0.75	72.00	0.300 U			MG/GM	
SOILELAK	SOILELAK	08/01/88 0146	1.00*	0.75	72.40	0.300 U			MG/GM	
SOILEFINE	SOILEFINE	08/01/88 0219	0.75	0.75	69.56	0.618			MG/GM	
PE-A	PE-A	08/01/88 2253	0.75	0.75	71.34	0.785			MG/GM	
WH2060	WH2060	08/01/88 2329	0.77	0.79	72.11	0.976			MG/GM	
WH2061	WH2061	08/02/88 0000	0.6E	0.75	81.20	1.627			MG/GM	
WH2105	WH2105	08/02/88 0034	0.77	0.80	70.12	0.385			MG/GM	
WH2108	WH2108	08/02/88 0107	0.76	0.78	73.29	0.424			MG/GM	
WH2110	WH2110	08/02/88 0141	0.75	0.80	73.34	0.430			MG/GM	
WH2126	WH2126	08/02/88 0214	0.75	0.80	71.75	3.871			MG/GM	
WH2127	WH2127	08/02/88 0248	0.77	0.81	70.78	2.094			MG/GM	
WH2128	WH2128	08/02/88 0321	0.76	0.75	70.23	3.139			MG/GM	
WH2227	WH2227	08/02/88 0407	0.76	0.79	71.82	0.300 U			MG/GM	
WH2229	WH2229	08/02/88 0502	0.6E	0.80	71.13	0.300 U			MG/GM	
WH2230	WH2230	08/02/88 0534	0.76	0.79	75.10	3.777			MG/GM	
WH2232	WH2232	08/02/88 0609	0.76	0.79	71.65	0.448			MG/GM	
707	WH2237	08/02/88 0647	0.77	0.80	71.74	0.503			MG/GM	

020475

QUALIFICATION CLASS:

- * TQD DSC OF DSC/334 FATID OUTSIDE OF ACCEPTABLE RANGE
- ** SURROGATE OUTSIDE OF ACCEPTABLE RANGE
- *** HIGH DETECTION LIMIT

RERUN CODES:

- A AUTOMATIC RERUN
- R REQUESTED RERUN

SPECIAL INSTRUCTIONS (IF ANY):

LABORATORY WORKSHEET REPORT FORM

DATE: FEB
 CASE: 0726
 DATE: 08/02/88

PERCENTE CONC 0.1
 INTERNAL STD CONC 1.45

REF NATIONE 1.140
 TAF SURROGATE 1.736

LAB SAMPLE #	AREA #	CLIENT SAMPLE #	SAMPLE AMOUNT	10A 320	10N 320	10M 320	10A 332	10N 334	RATIO 320/332	RATIO 332/334	SURF ACC	CONC VALUE
4HERC03A	METHBLANK	METHBLNK	5.00	1	1	189170	434547	548437	1.00*	0.79	72.02	0.000 NG/GM
4HERC04A	SOILBLANK	SOILBLNK	5.00	1	1	122332	280007	332568	1.00*	0.79	72.40	0.000 NG/GM
4HERC05A	SOILSPIKE	SOILSPKE	5.00	44433	57233	120905	247544	311963	0.78	0.79	80.56	0.815 NG/GM
4HERC06A	PE-A	PE-A	5.00	50350	66734	128558	295546	375909	0.75	0.79	71.34	0.765 NG/GM
4HERC07A	WH2060	WH2060	5.06	91316	118079	184964	421735	532996	0.77	0.79	72.11	0.976 NG/GM
4HERC08A	WH2061	WH2061	5.07	6628	9765	9806	19213	25591	0.68	0.75	81.20	1.627 NG/GM
4HERC09A	WH2108	WH2108	5.04	15583	20228	81430	184631	231349	0.77	0.80	73.12	0.385 NG/GM
4HERC10A	WH2109	WH2109	5.21	17384	22741	80330	179743	229553	0.76	0.78	73.29	0.424 NG/GM
4HERC11A	WH2110	WH2110	5.04	29763	39818	142102	320491	403066	0.75	0.80	73.34	0.430 NG/GM
4HERC12A	WH2126	WH2126	5.20	85198	112977	43453	98460	123163	0.75	0.80	71.75	3.871 NG/GM
4HERC13A	WH2127	WH2127	5.07	110175	143793	103102	239274	299250	0.77	0.80	70.78	2.094 NG/GM
4HERC14A	WH2128	WH2128	5.00	169164	217412	108960	243872	310731	0.78	0.79	72.23	3.139 NG/GM
4HERC16A	WH2287	WH2287	5.06	8758	11503	141580	324317	412133	0.76	0.79	71.92	0.122 NG/GM
4HERC17A	WH2289	WH2289	5.03	9838	11029	62418	145378	182600	0.89	0.80	71.13	0.285 NG/GM
4HERC18A	WH2305	WH2305	5.04	70570	90729	47786	103635	130519	0.78	0.79	75.10	3.077 NG/GM
4HERC19A	WH2306	WH2306	5.19	64145	81540	128131	294204	371468	0.79	0.79	71.65	0.949 NG/GM
4HERC20A	WH2307	WH2307	5.03	114683	148568	91033	208452	262280	0.77	0.80	71.34	2.503 NG/GM

9171020

THE END (INITIAL DAILY CALIBRATION CHECK)

1. DATE: 06/02/68
 2. ANALYST: J. W. H.

3. ION RATIO: 0.761
 4. SUPPLEMENTARY ION RATIO: 0.795
 5. INTERNAL STD. CONCENTRATION: 1.036

SITE: HER
 DATE: 06/02/68
 CASE: 0702

ANALYSIS DATE	ANALYSIS TIME	ION 300	ION 303	ION 306	ION 332	ION 334	PATIO 320/322	PATIO 332/334	REF NATIVE	NATIVE PAF % DIFF.	REF SUPPLEMENTARY	SUPPLEMENTARY % DIFFERENCE
06/02/68	0623	66252	113351	72905	409375	554334	0.761	0.793	1.035	4.55	1.250	6.44
06/02/68	0716	54970	73329	46615	286223	362221	0.750	0.795	1.036	6.67	1.236	7.49

* ION RATIO MUST BE WITHIN ACCEPTABLE RANGE OF INITIAL CALIBRATION
 ** NATIVE % DIFFERENCE MUST BE LESS THAN 10% FROM INITIAL CALIBRATION

020477

TABLE 1. LIST OF MONITORING IDENTIFICATION

SITE CODE: RFP
CASE NO.: 4722
DATE: 12/19/87

ED. TYP.	CD-320	CD-322	CD-328	CD-332	CD-334	NATIVE CONC	SURROGATE CONC	INT. ETC CONC	RFP NATIVE	RFP SURROGATE	RATIO CD1/322	RATIO CD2/334
CC1-1	81227	172594	68544	325540	506120	0.20	0.04	1.05	1.085	1.241	0.765	0.765
CC1-2	5517	69533	44177	170167	324724	0.20	0.04	1.05	1.087	1.240	0.794	0.807
CC1-3	81173	70447	46204	245540	304150	0.20	0.04	1.05	1.175	1.240	0.747	0.807
								MEAN	1.114	1.254		
								STD DEV	0.053	0.011		
								% RSD	4.74	0.88		
CC2-1	421706	555954	147075	401101	515970	1.00	0.11	1.05	1.119	1.479	0.759	0.777
CC2-2	446509	583866	154612	415910	542426	1.00	0.11	1.05	1.129	1.488	0.765	0.784
CC2-3	465248	597732	158244	436747	557568	1.00	0.11	1.05	1.123	1.468	0.778	0.784
								MEAN	1.124	1.478		
								STD DEV	0.065	0.010		
								% RSD	0.44	0.68		
CC3-1	1874520	2435132	225524	365137	460954	5.00	0.20	1.05	1.096	1.294	0.770	0.792
CC3-2	1930166	2497907	225238	377126	477220	5.00	0.20	1.05	1.086	1.247	0.776	0.790
CC3-3	1860633	2416488	221614	362437	455495	5.00	0.20	1.05	1.098	1.283	0.770	0.796
								MEAN	1.093	1.275		
								STD DEV	0.006	0.025		
								% RSD	0.59	1.96		
								RF NATIVE OVERALL MEAN	1.110			
								STD DEV	0.016			
								% RSD	1.399			
								RF SURROGATE OVERALL MEAN	1.336			
								STD DEV	0.124			
								% RSD	9.292			

478

* RF NATIVE % RELATIVE STANDARD DEVIATION MUST BE LESS THAN 10%
** RATIO OF 320/322 OR RATIO OF 332/334 OUTSIDE OF ACCEPTABLE RANGE

ATTACHMENT 1
SAMPLE MASS CHROMATOGRAMS

000000020479

Data file: DATA:4HERC03A.D
File type: GC / MS DATA FILE

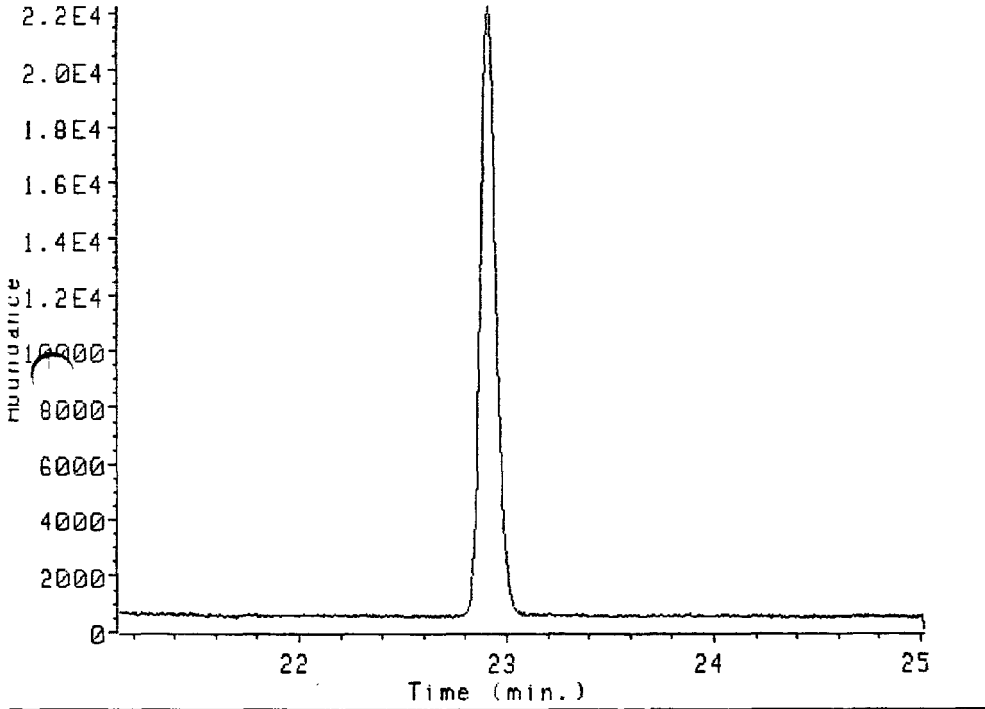
3 1332

Name Info: METHOD BLANK1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:12 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 3
Replicate num : 1

TIC of DATA:4HERC03A.D



000000020480

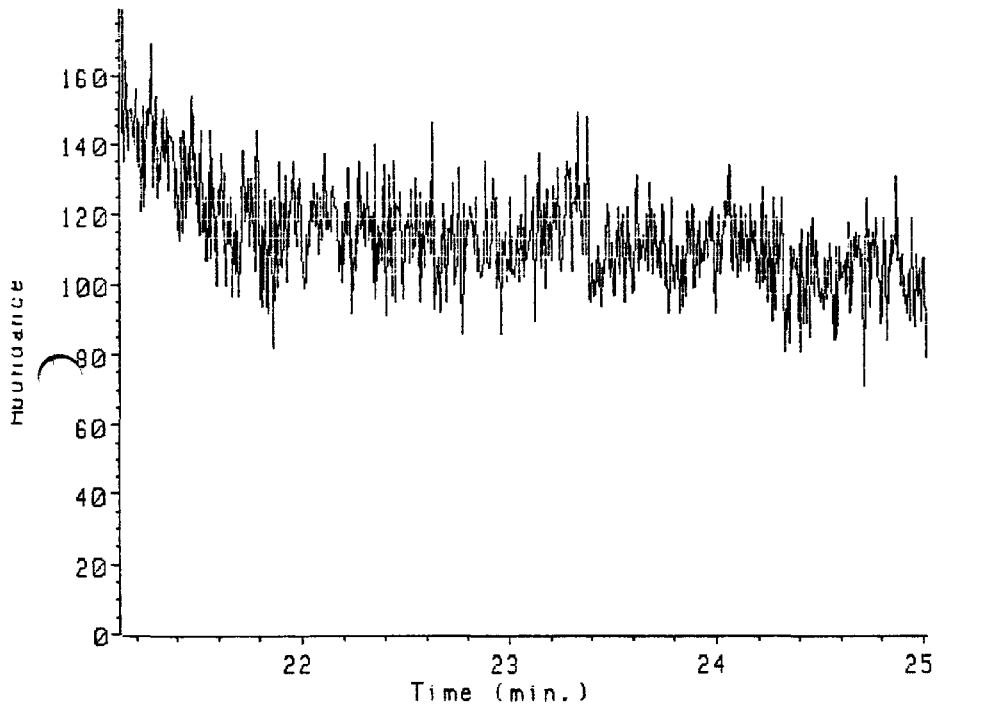
03220696

Name Info: METHOD BLANK1
Misc Info:
Operator : TMS

te : 1 Aug 88 9:12 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 3
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC03A.D



on 258.90 amu. from DATA:4HERC03A.D
METHOD BLANK1

0 peaks detected

000000020481

Data file: DATA:4HERC03A.D
File type: GC / MS DATA FILE

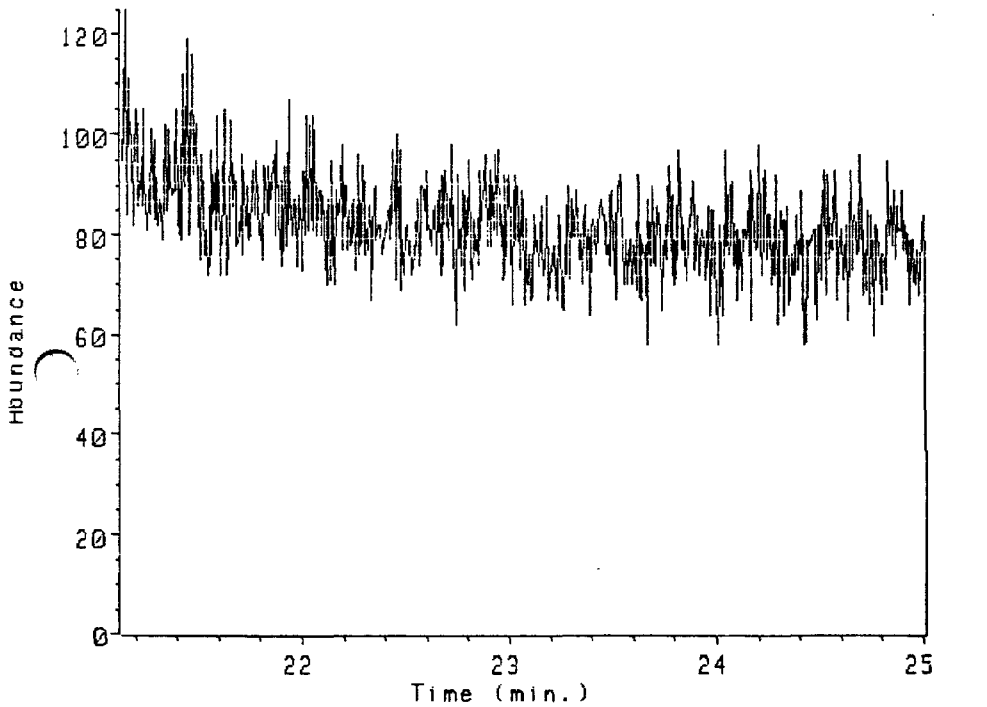
Name Info: METHOD BLANK1
Misc Info:
Operator : TMS

3 1334

Date : 1 Aug 88 9:12 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 3
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC03A.D



Ion 319.90 amu. from DATA:4HERC03A.D
METHOD BLANK1

0 peaks detected

020482

03220698

Data file: DATA:4HERC03A.D
File type: GC / MS DATA FILE

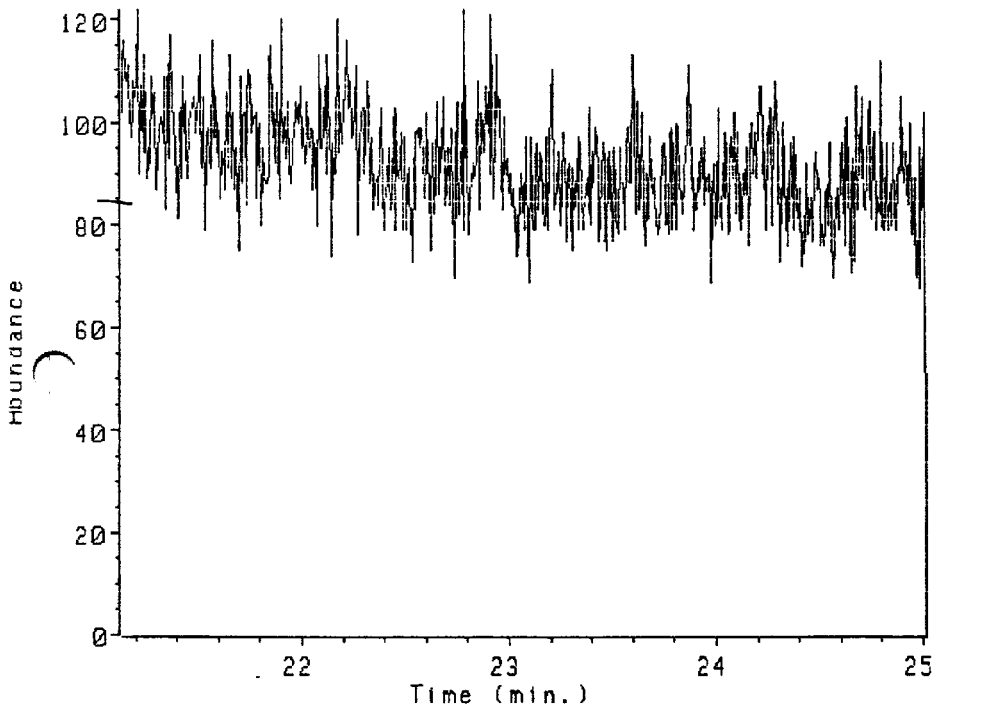
3 1335

Name Info: METHOD BLANK1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:12 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 3
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC03A.D



Ion 321.90 amu. from DATA:4HERC03A.D
METHOD BLANK1

0 peaks detected

020483

03220699

Data file: DATA:4HERC03A.D
File type: GC / MS DATA FILE

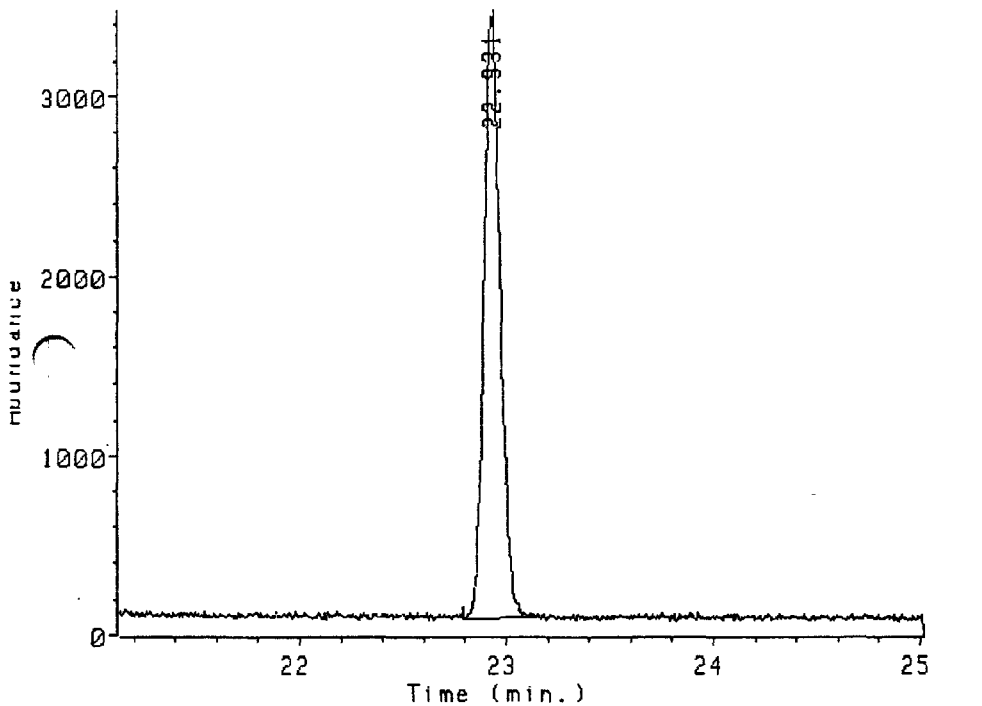
3 1336

Name Info: METHOD BLANK1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:12 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 3
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC03A.D



Ion 327.90 amu. from DATA:4HERC03A.D
METHOD BLANK1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.931	BB	0.083	189170	22.791	23.142

0000000020484

03220700

Data file: DATA:4HERC03A.D
File type: GC / MS DATA FILE

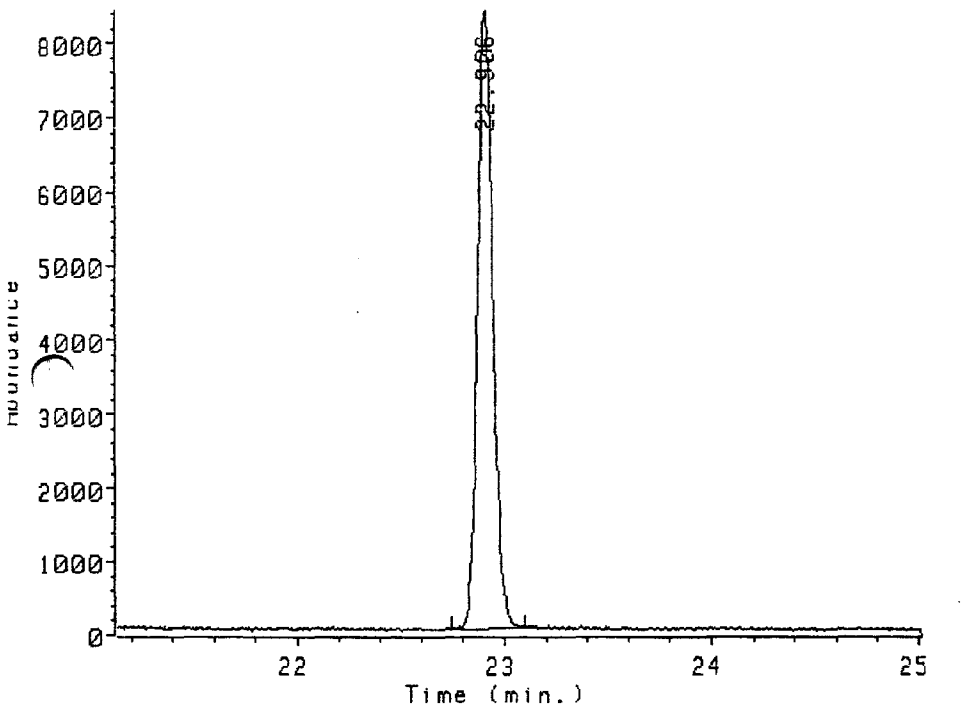
3 1337

Name Info: METHOD BLANK1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:12 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 3
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC03A.D



Ion 331.80 amu. from DATA:4HERC03A.D
METHOD BLANK1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.906	BB	0.078	434847	22.743	23.099

0000000020485

03220701

Data file: DATA:4HERC03A.D
File type: GC / MS DATA FILE

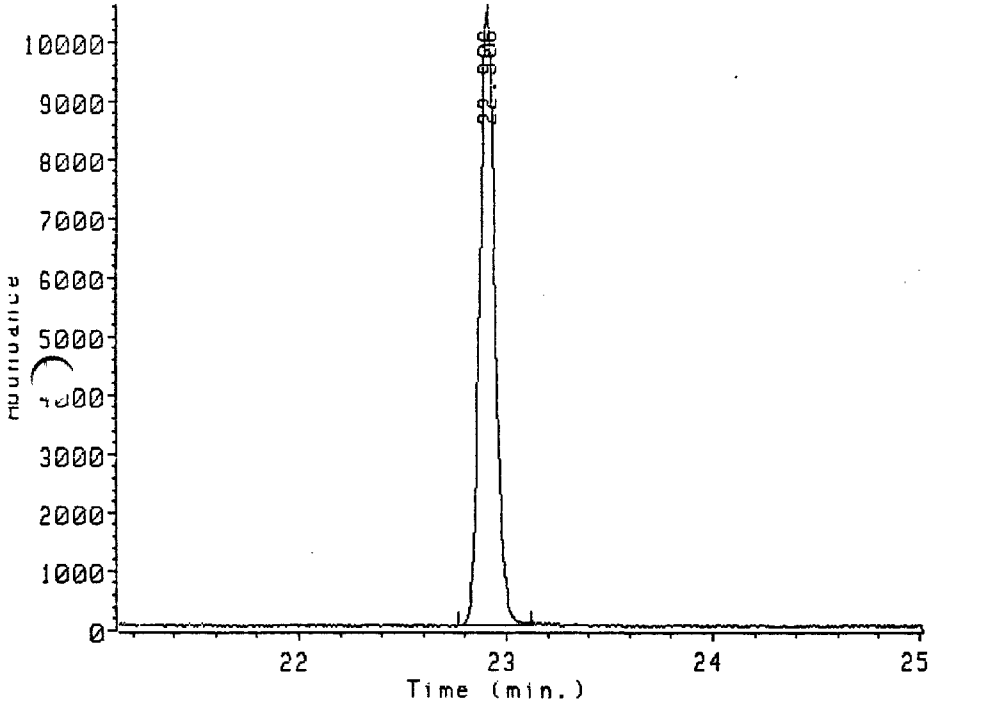
3 1338

Name Info: METHOD BLANK1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:12 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 3
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC03A.D



Ion 333.80 amu. from DATA:4HERC03A.D
METHOD BLANK1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.906	BB	0.082	548437	22.764	23.123

0000000020486

03220702

Data file: DATA:4HERC04A.D
File type: GC / MS DATA FILE

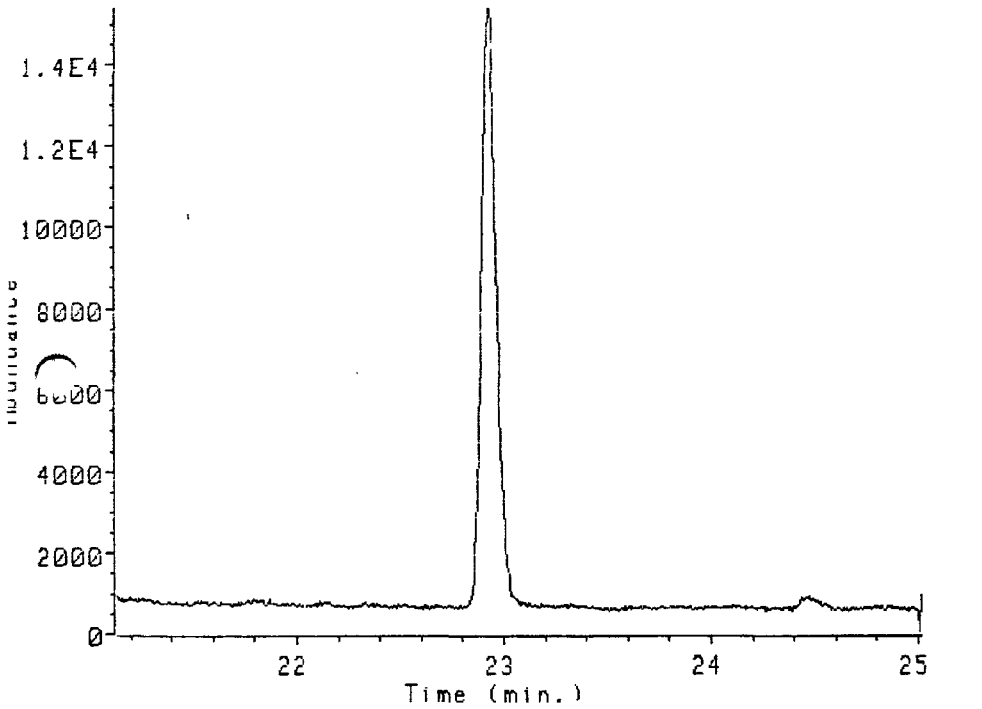
3 1339

Name Info: SOIL BLANK 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:46 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 4
Replicate num : 1

TIC of DATA:4HERC04A.D



000000020487

03220703

Data file: DATA:4HERC04A.D
File type: GC / MS DATA FILE

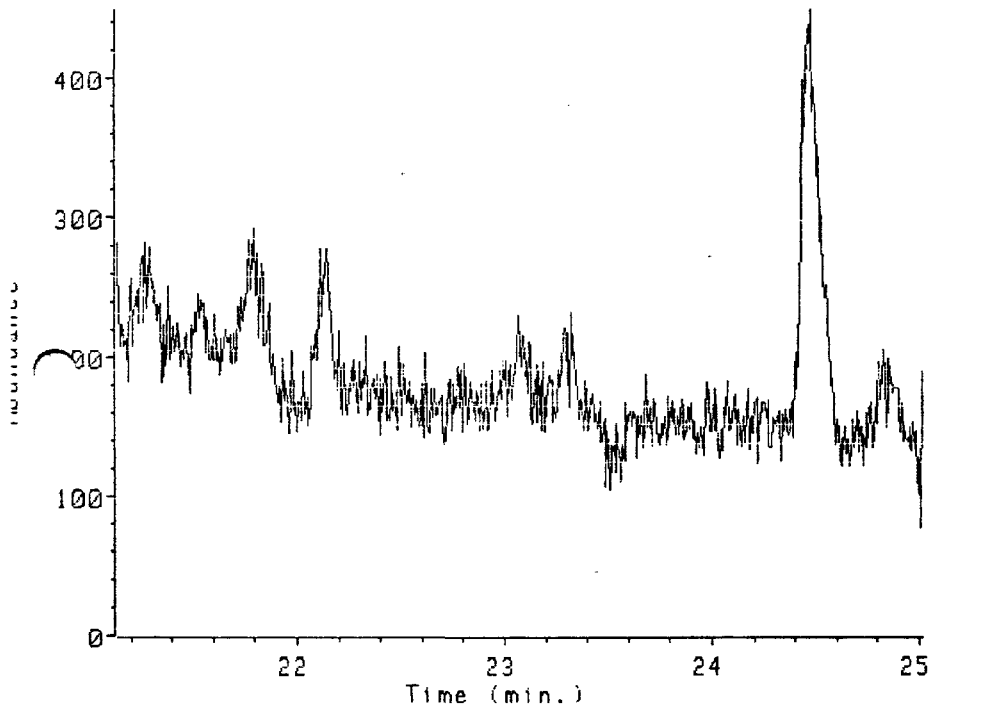
Name Info: SOIL BLANK 1
Misc Info:
Operator : TMS

3 1340

Date : 1 Aug 88 9:46 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 4
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC04A.D



Ion 258.90 amu. from DATA:4HERC04A.D
SOIL BLANK 1

0 peaks detected

020488

03220704

Data file: DATA:4HERC04A.D
File type: GC / MS DATA FILE

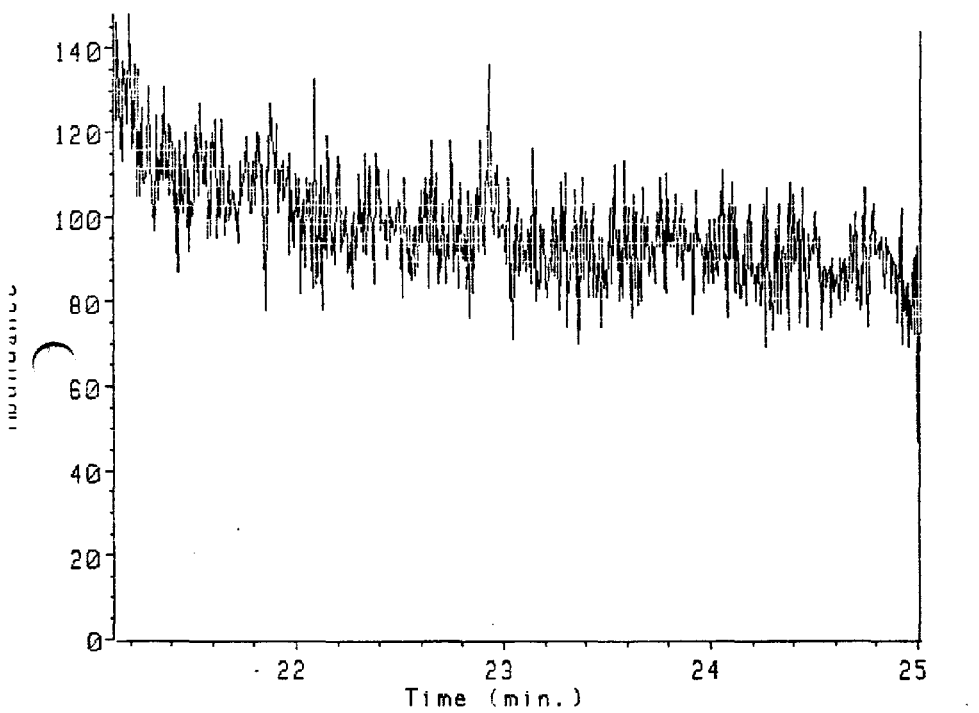
3 1341

Name Info: SOIL BLANK 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:46 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC04A.D



on 319.90 amu. from DATA:4HERC04A.D
SOIL BLANK 1

0 peaks detected

020489

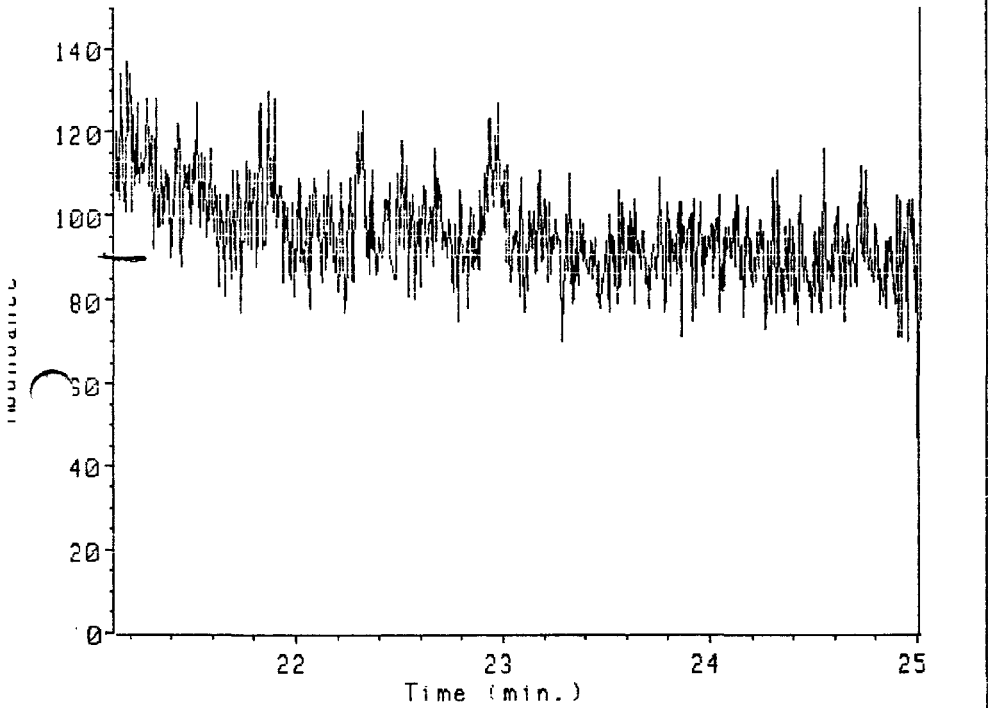
03220705

Name Info: SOIL BLANK 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:46 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 4
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC04A.D



Ion 321.90 amu. from DATA:4HERC04A.D
SOIL BLANK 1

0 peaks detected

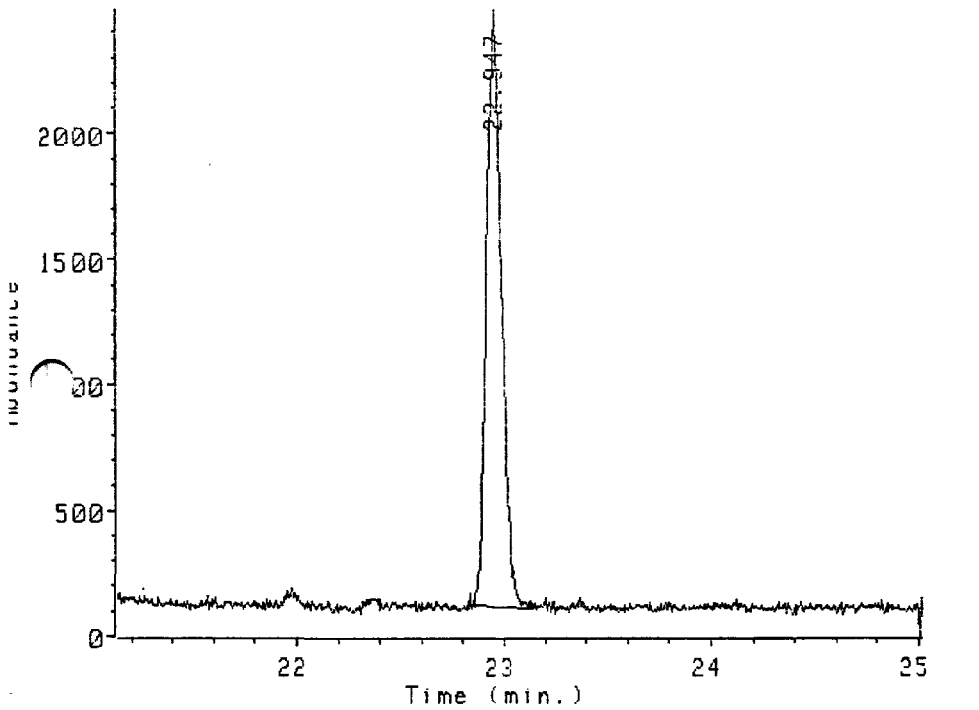
020490

Name Info: SOIL BLANK 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:46 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC04A.D



Ion 327.90 amu. from DATA:4HERC04A.D
SOIL BLANK 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.947	BB	0.077	122332	22.837	23.142

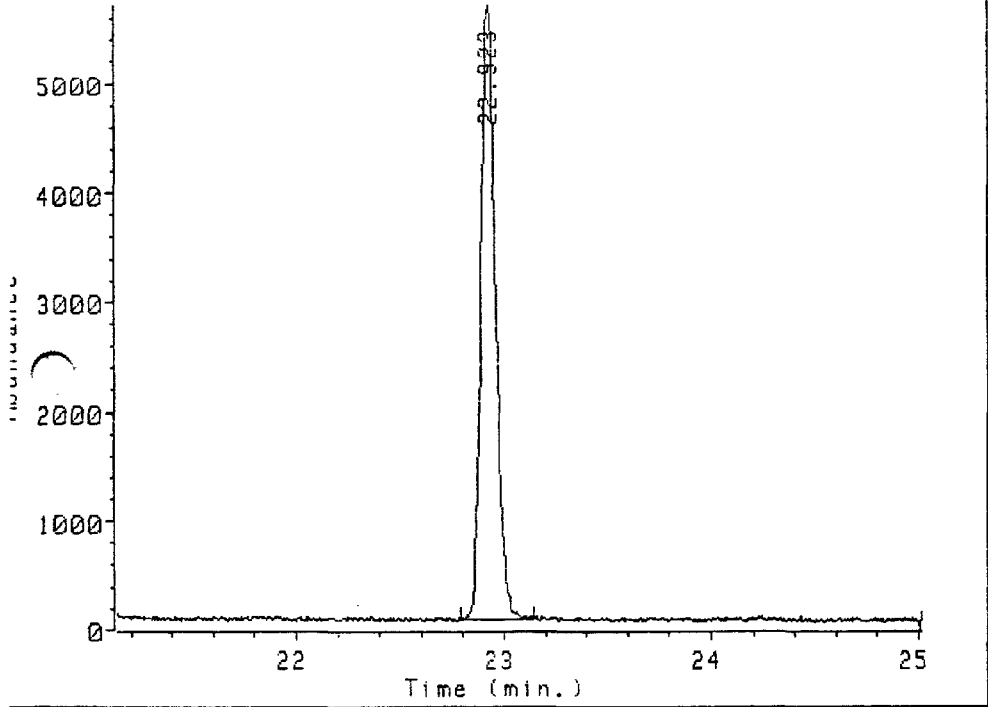
020491

Name Info: SOIL BLANK 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:46 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 4
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC04A.D



Ion 331.80 amu. from DATA:4HERC04A.D
SOIL BLANK 1

sak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.923	BB	0.077	280007	22.791	23.145

020492

Data file: DATA:4HERC04A.D
File type: GC / MS DATA FILE

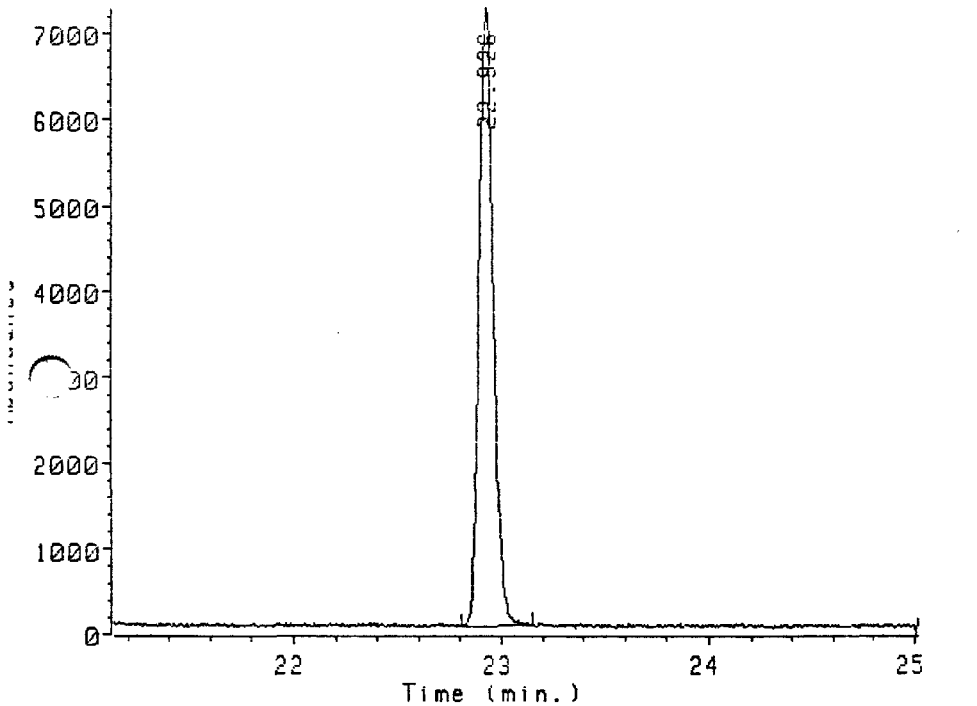
3 1345

Name Info: SOIL BLANK 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 9:46 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 4
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC04A.D



Ion 333.80 amu. from DATA:4HERC04A.D
SOIL BLANK 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.926	BB	0.076	352568	22.801	23.154

020493

03220709

Data file: DATA:4HERC05A.D
File type: GC / MS DATA FILE

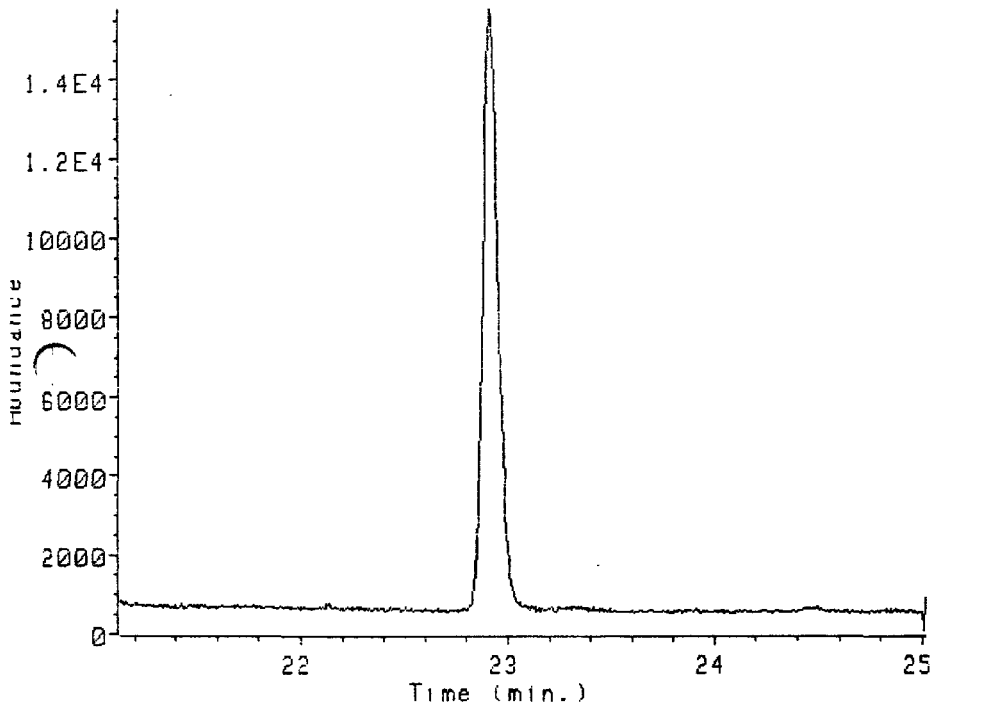
3 1346

Name Info: SOIL SPIKE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:19 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1

TIC of DATA:4HERC05A.D



020494

03220710

Data file: DATA:4HERC05A.D
File type: GC / MS DATA FILE

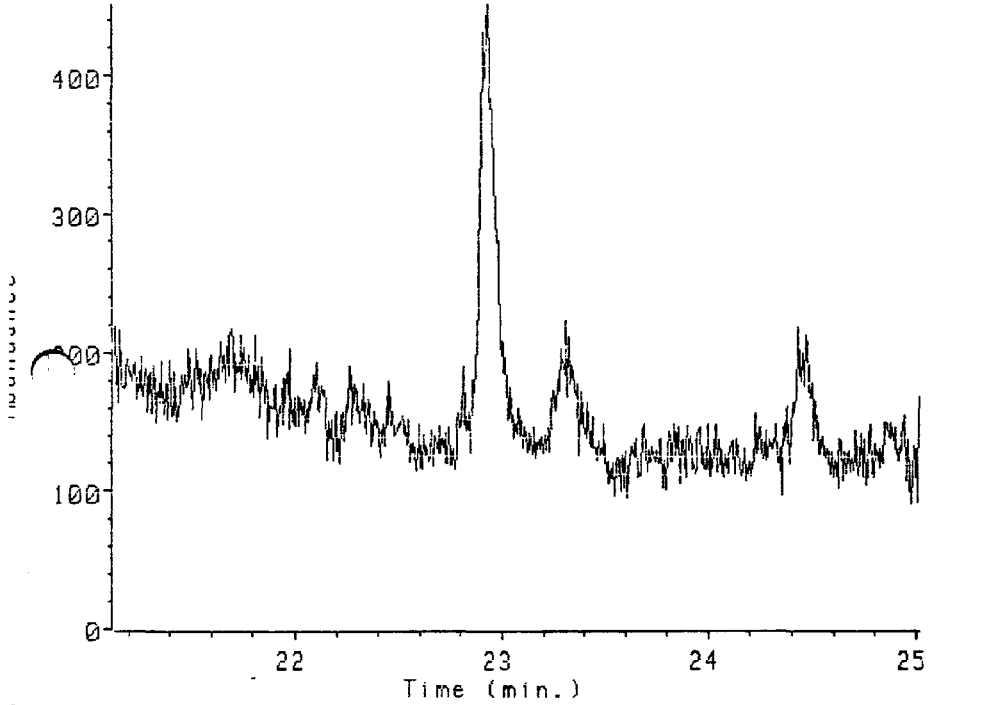
3 1347

Name Info: SOIL SPIKE 1
Misc Info:
Operator : TMS

te : 1 Aug 88 10:19 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC05A.D



Ion 258.90 amu. from DATA:4HERC05A.D
SOIL SPIKE 1

0 peaks detected

020495

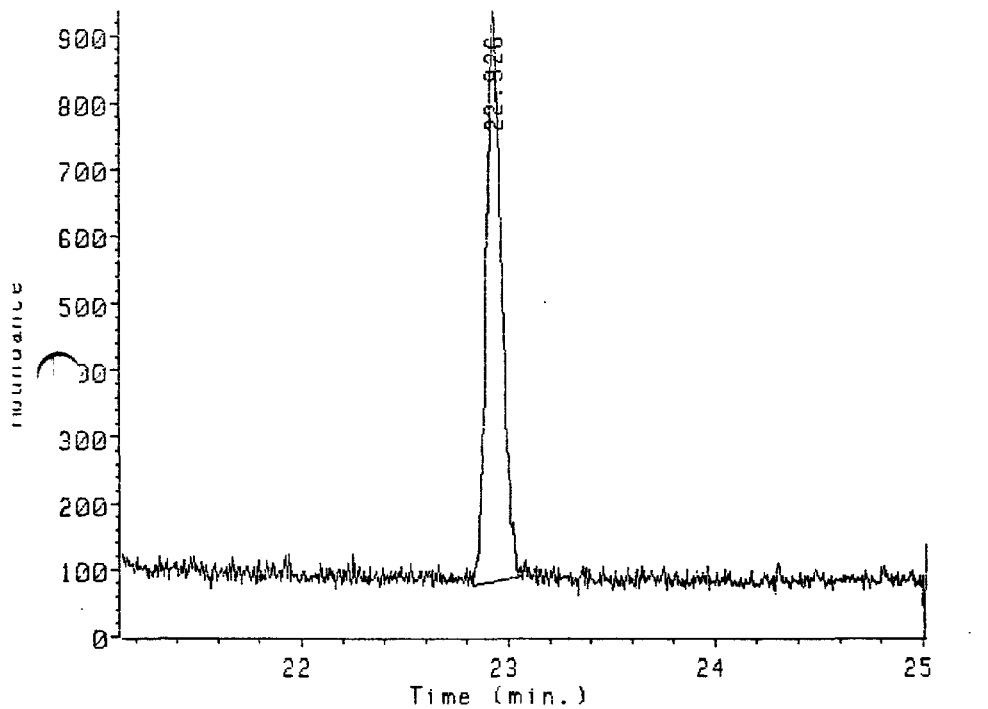
03220711

Name Info: SOIL SPIKE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:19 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 5
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC05A.D



Ion 319.90 amu. from DATA:4HERC05A.D
OIL SPIKE 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.926	BB	0.072	44433	22.825	23.069

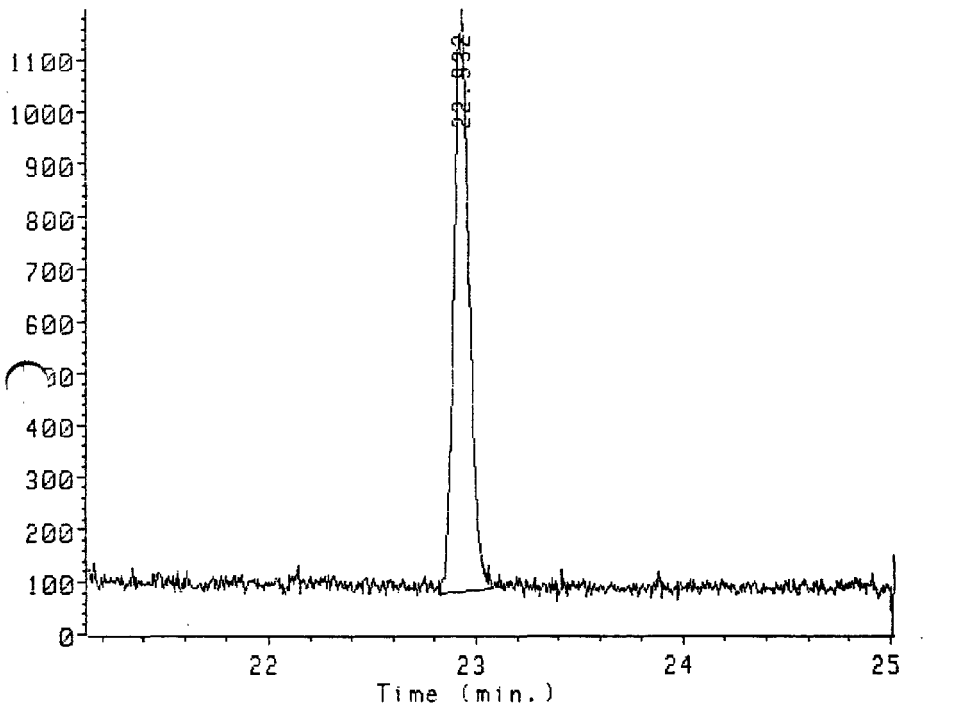
020496

Name Info: SOIL SPIKE 1
Misc Info:
Operator : TMS

te : 1 Aug 88 10:19 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC05A.D



Ion 321.90 amu. from DATA:4HERC05A.D
SOIL SPIKE 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.932	BB	0.078	57233	22.822	23.081

020497

Data file: DATA:4HERC05A.D
File type: GC / MS DATA FILE

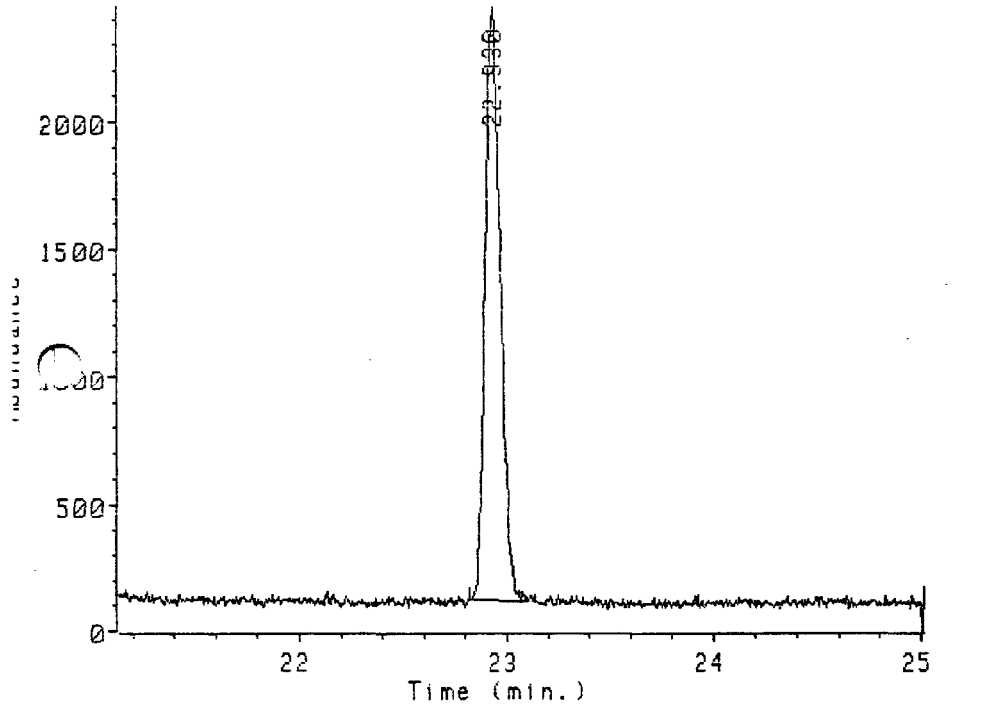
3 1350

Name Info: SOIL SPIKE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:19 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 5
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC05A.D



Ion 327.90 amu. from DATA:4HERC05A.D
SOIL SPIKE 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.930	BB	0.084	120905	22.822	23.109

020498

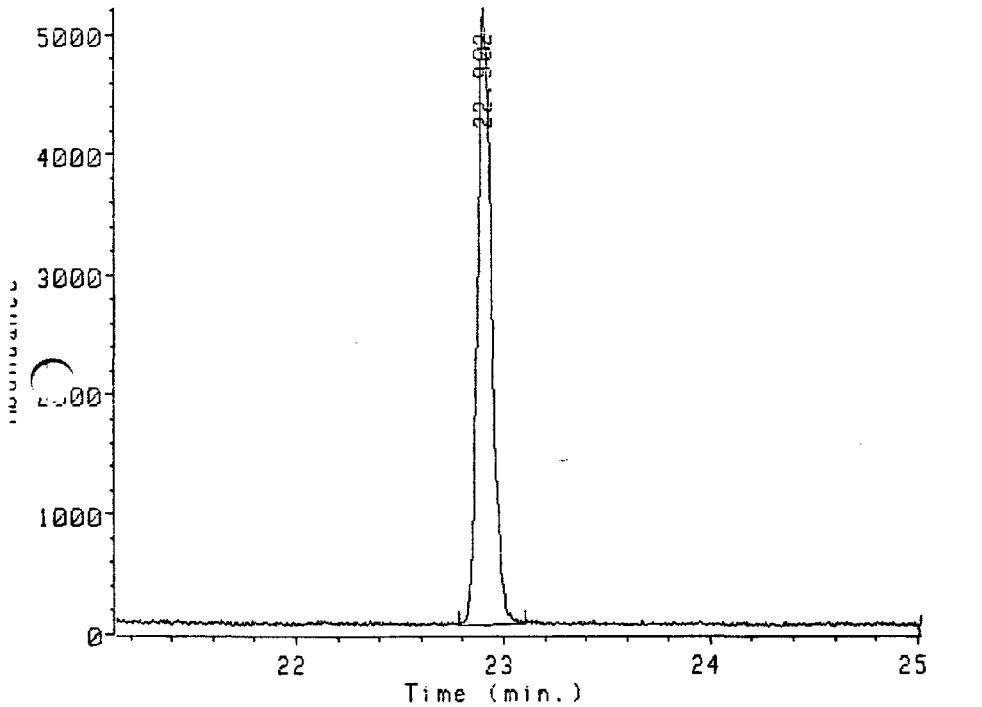
03220714

Name Info: SOIL SPIKE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:19 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 5
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC05A.D



Ion 331.80 amu. from DATA:4HERC05A.D
SOIL SPIKE 1

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	22.902	BB	0.073	247544	22.780	23.109

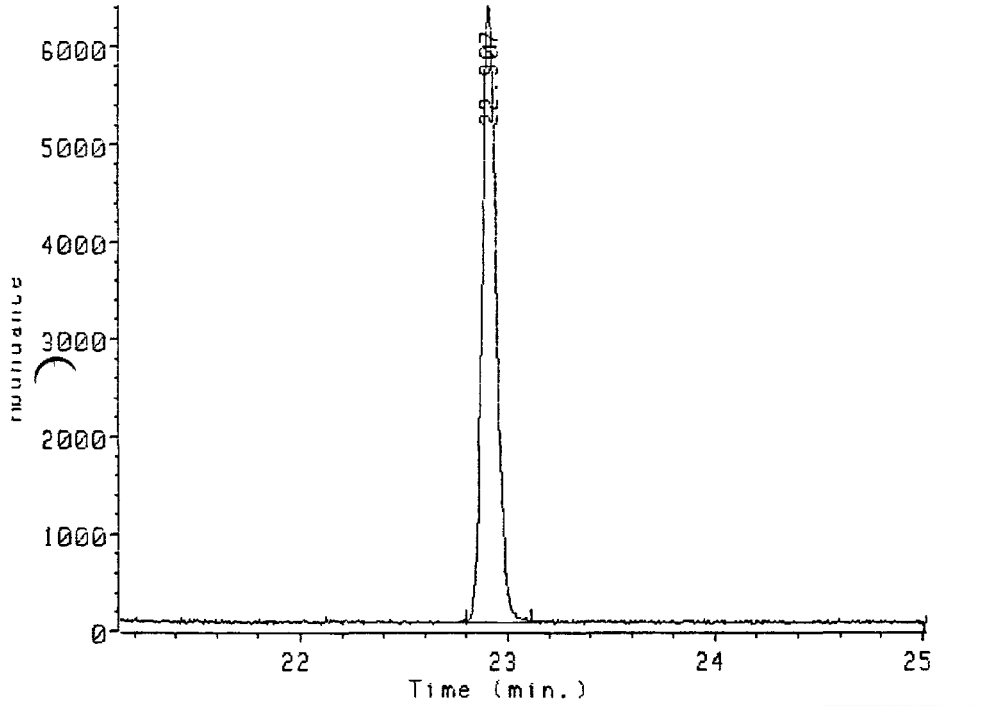
020499

Name Info: SOIL SPIKE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:19 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 5
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC05A.D



020500

Ion 333.80 amu. from DATA:4HERC05A.D
OIL SPIKE 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.907	BB	0.076	311963	22.798	23.115

Data file: DATA:4HERC06A.D
File type: GC / MS DATA FILE

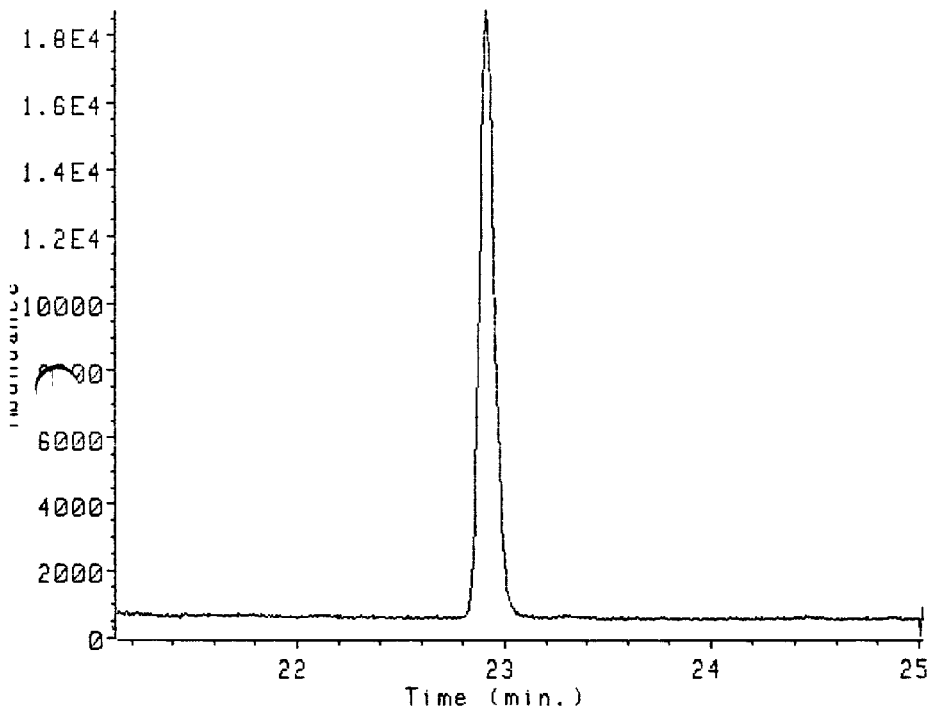
Name Info: PE 1
Misc Info:
Operator : TMS

3 1353

Date : 1 Aug 88 10:53 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 6
Replicate num : 1

TIC of DATA:4HERC06A.D



020501

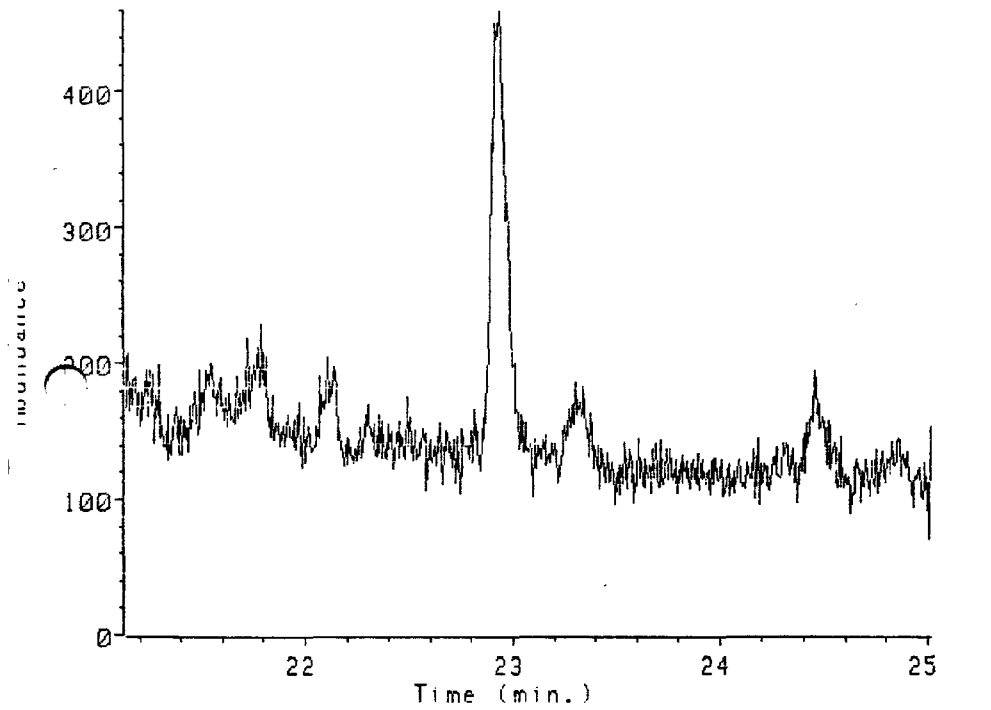
03220717

Name Info: PE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:53 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 6
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC06A.D



020502

on 258.90 amu. from DATA:4HERC06A.D
E 1

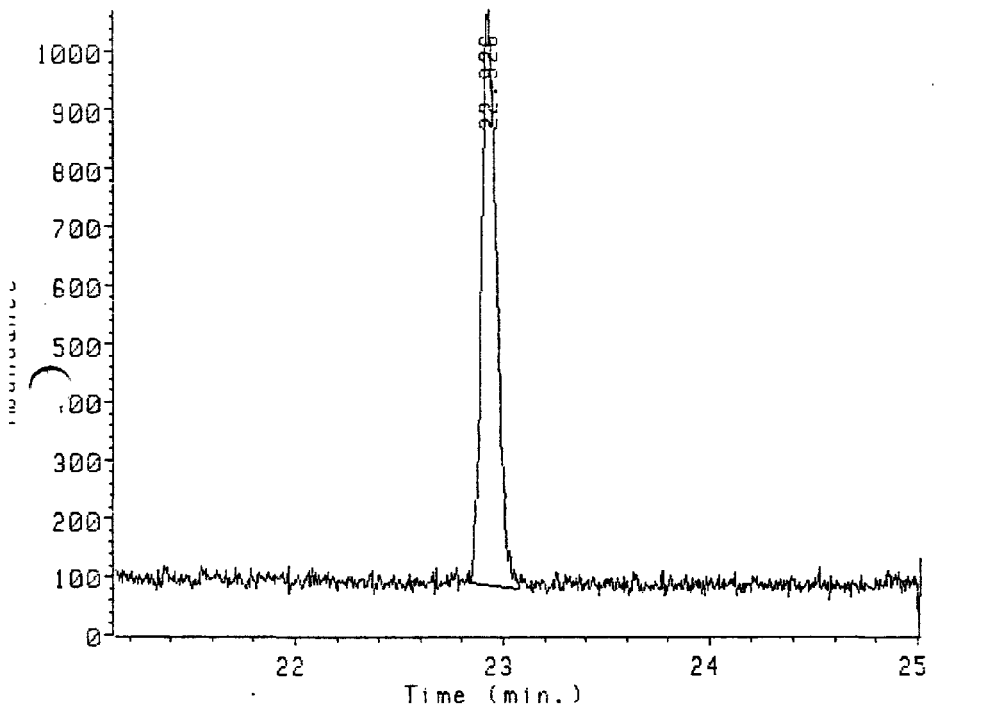
0 peaks detected

Name Info: PE 1
Misc Info:
Operator : TMS

te : 1 Aug 88 10:53 pm
instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 6
Replicate num : 1

Ion 319.90 amu. from DATA:4HERCU6A.D



Ion 319.90 amu. from DATA:4HERCU6A.D
= 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.926	BB	0.075	50350	22.838	23.075

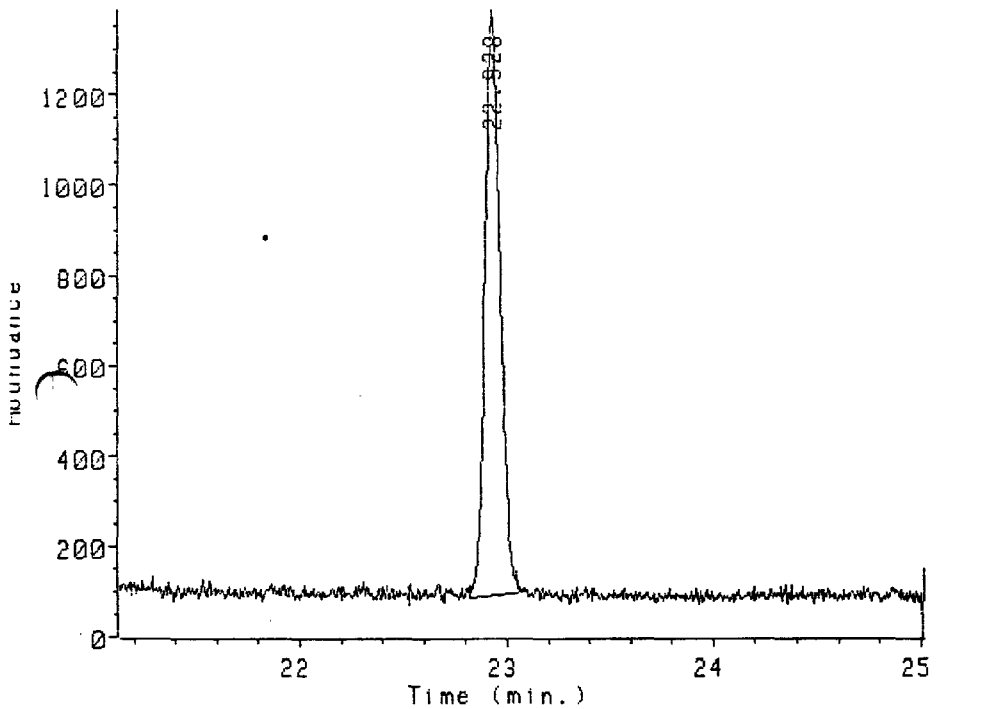
00000 1020503

Name Info: PE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:53 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 6
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC06A.D



Ion 321.90 amu. from DATA:4HERC06A.D
E 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.928	BB	0.077	66734	22.819	23.088

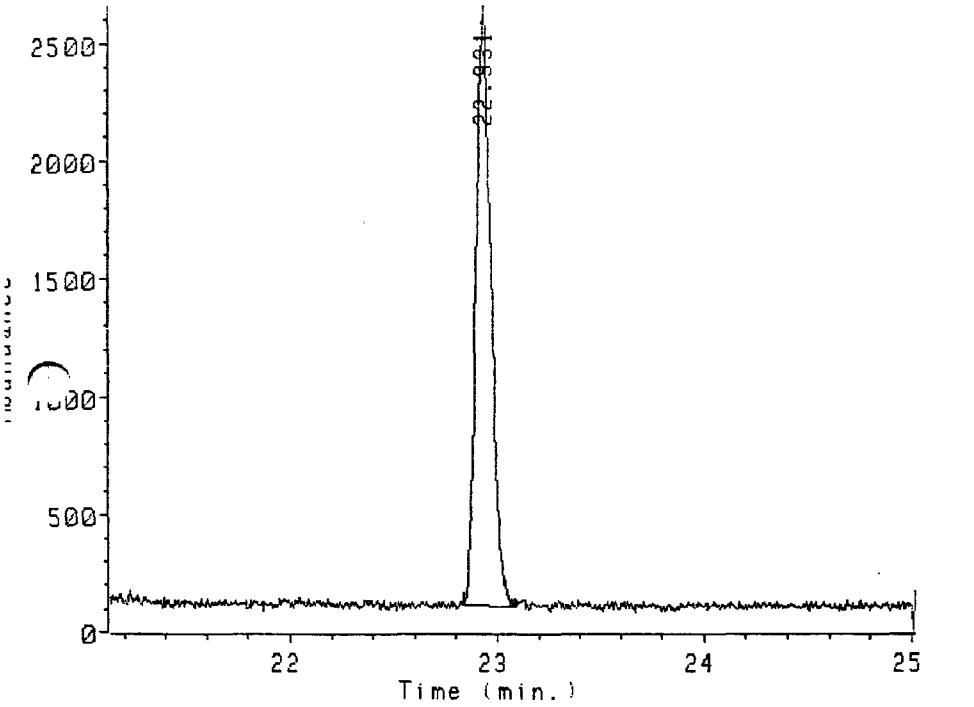
000000020504

Name Info: PE 1
Misc Info:
Operator : TMS

te : 1 Aug 88 10:53 pm
instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 6
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC06A.D



Ion 327.90 amu. from DATA:4HERC06A.D
E 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.931	BB	0.078	128558	22.832	23.088

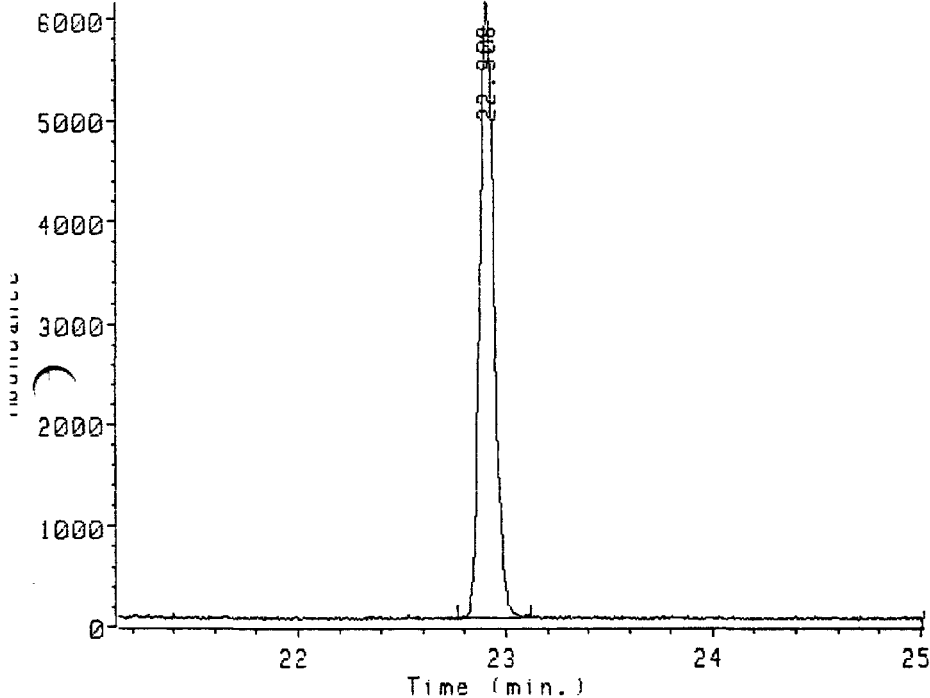
020505

Name Info: PE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:53 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 6
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC06A.D



Ion 331.80 amu. from DATA:4HERC06A.D
E 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.908	BB	0.077	295546	22.771	23.124

020506

Data file: DATA:4HERC06A.D
File type: GC / MS DATA FILE

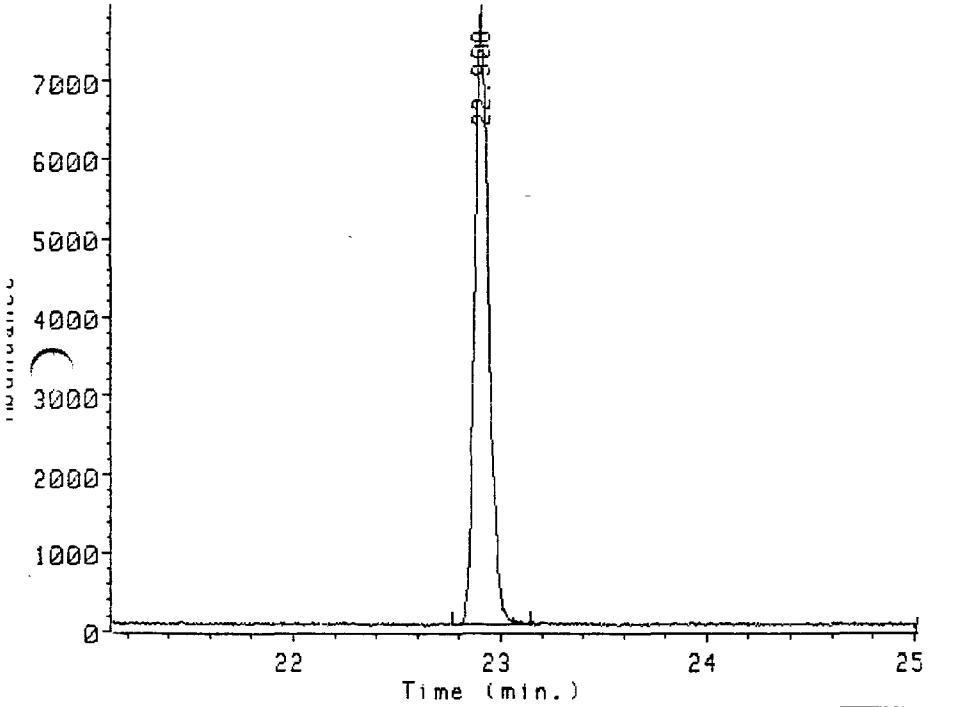
3 1359

Name Info: PE 1
Misc Info:
Operator : TMS

Date : 1 Aug 88 10:53 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 6
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC06A.D



000000020507

Ion 333.80 amu. from DATA:4HERC06A.D

E 1

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.908	BB	0.074	375909	22.765	23.143

03220723

Data file: DATA:4HERC07A.D
File type: GC / MS DATA FILE

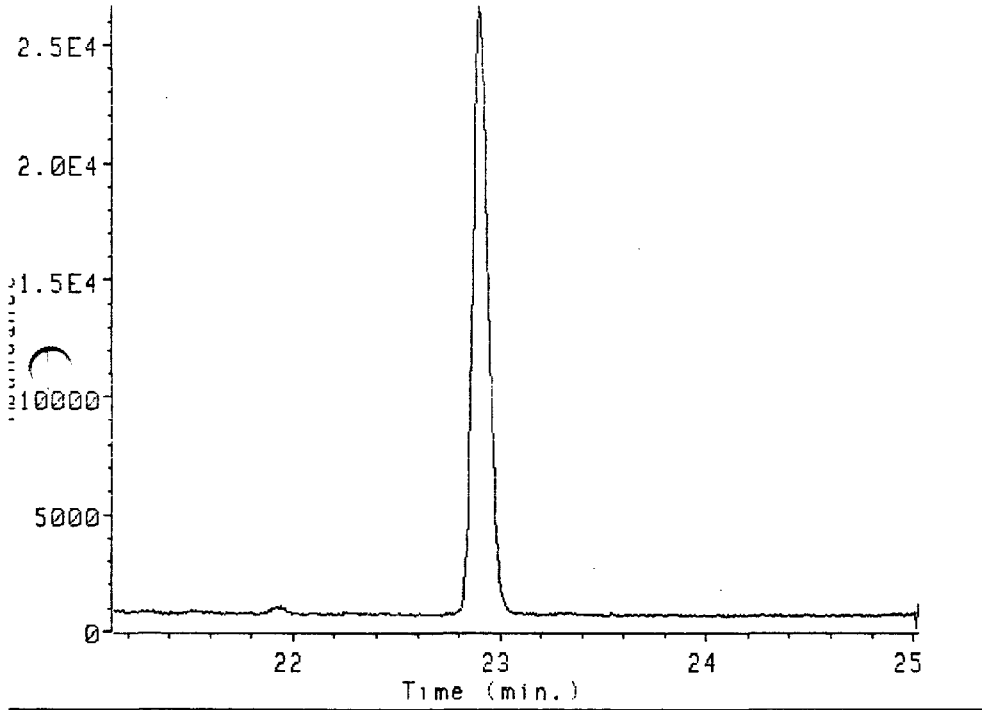
3 1360

Name Info: 2060
Misc Info:
Operator : TMS

Date : 1 Aug 88 11:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1

TIC of DATA:4HERC07A.D



020508

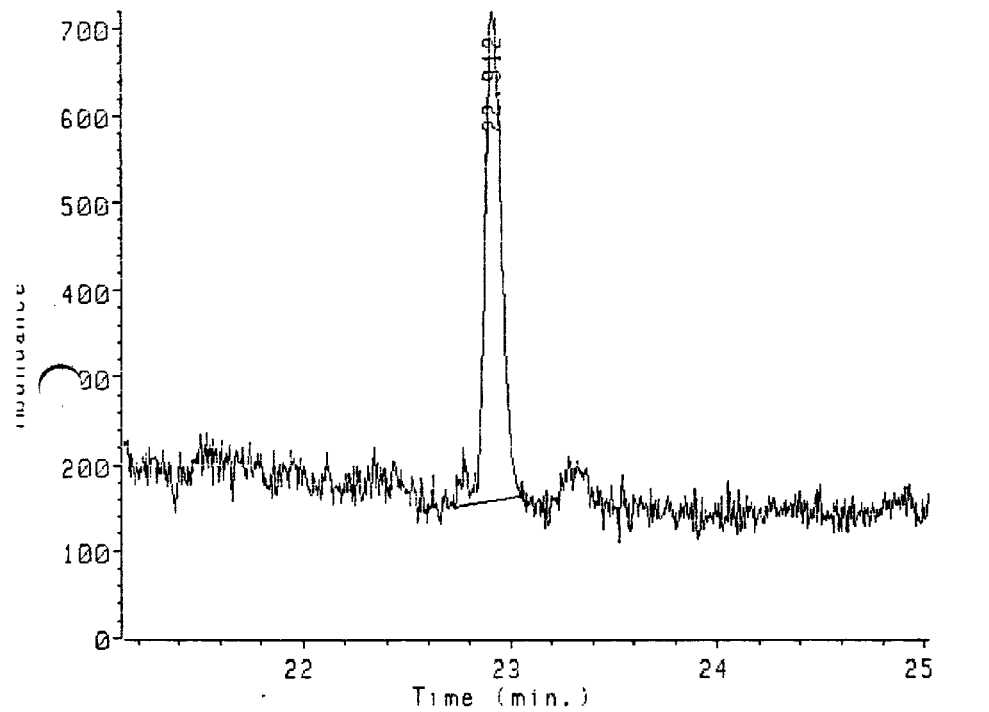
03220724

Name Info: 2060
Misc Info:
Operator : TMS

Date : 1 Aug 88 11:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 7
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC07A.D



020509

Ion 258.90 amu. from DATA:4HERC07A.D
060

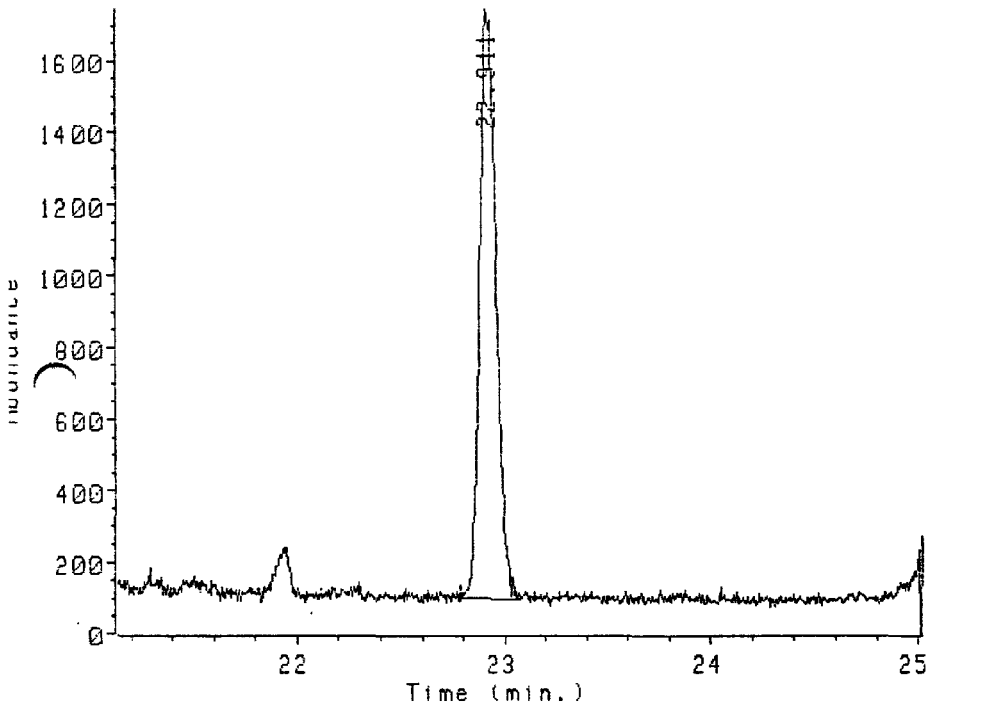
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.912	BB	0.082	32266	22.727	23.050

Name Info: 2060
Misc Info:
Operator : TMS

Date : 1 Aug 88 11:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 7
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC07A.D



Ion 319.90 amu. from DATA:4HERC07A.D
060

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.911	BB	0.087	91316	22.782	23.061

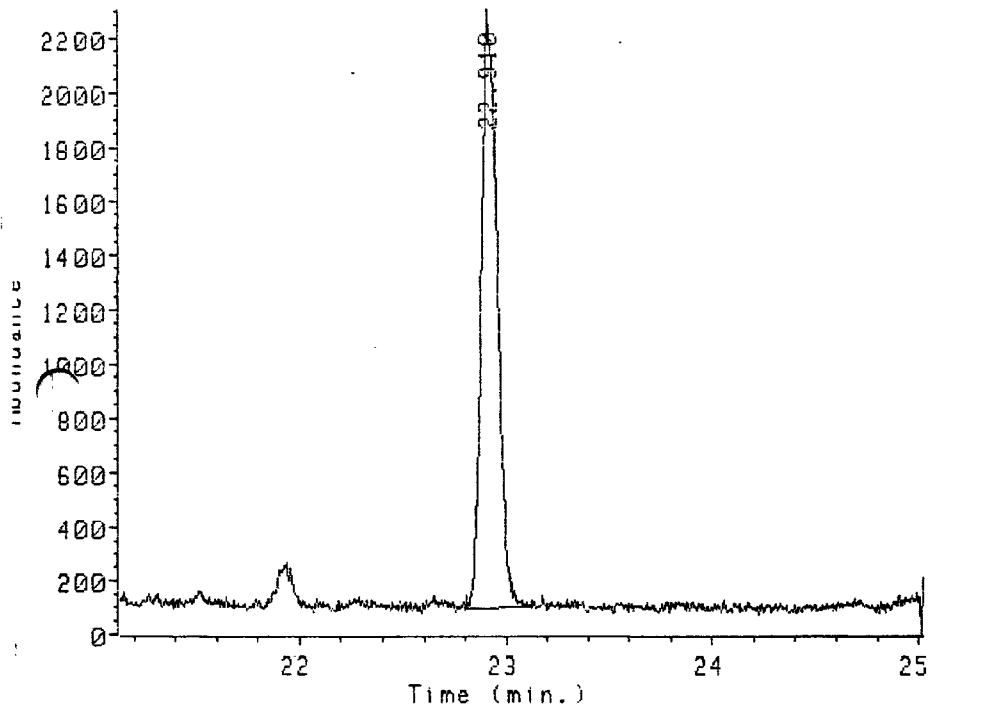
000000020510

Name Info: 2060
Misc Info:
Operator : TMS

Date : 1 Aug 88 11:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 7
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC07A.D



Ion 321.90 amu. from DATA:4HERC07A.D
060

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.910	BB	0.087	118079	22.804	23.108

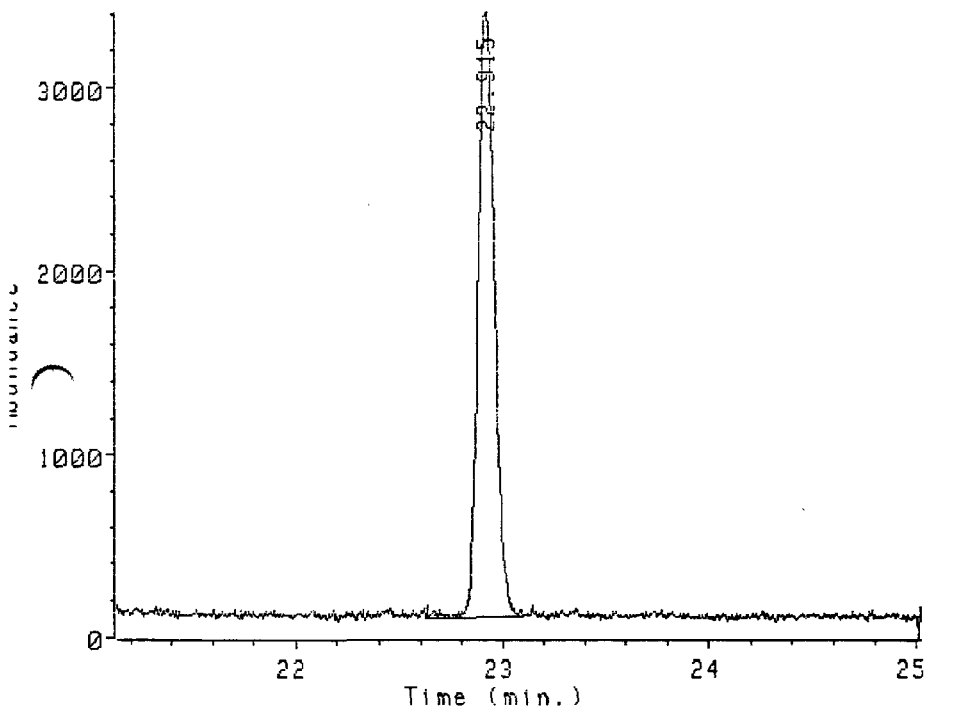
000000020511

Name Info: 2060
Misc Info:
Operator : TMS

Date : 1 Aug 88 11:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 7
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC07A.D



Ion 327.90 amu. from DATA:4HERC07A.D
060

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.915	BB	0.083	184964	22.633	23.099

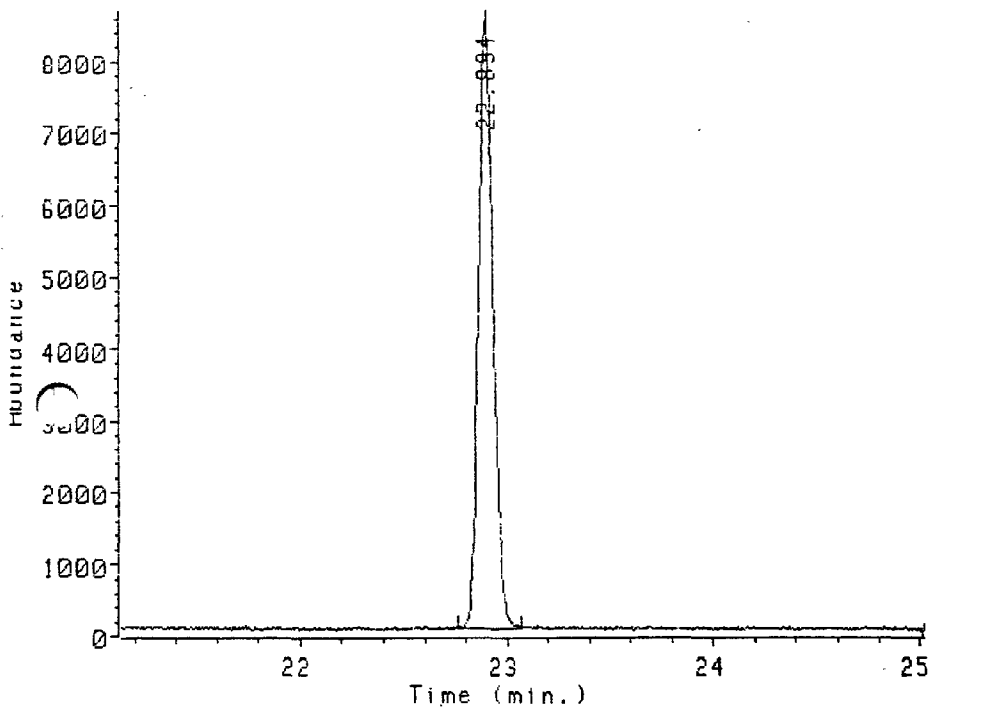
000000020512

Name Info: 2060
Misc Info:
Operator : TMS

Date : 1 Aug 88 11:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 7
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC07A.D



Ion 331.80 amu. from DATA:4HERC07A.D
060

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.894	BB	0.072	421735	22.761	23.069

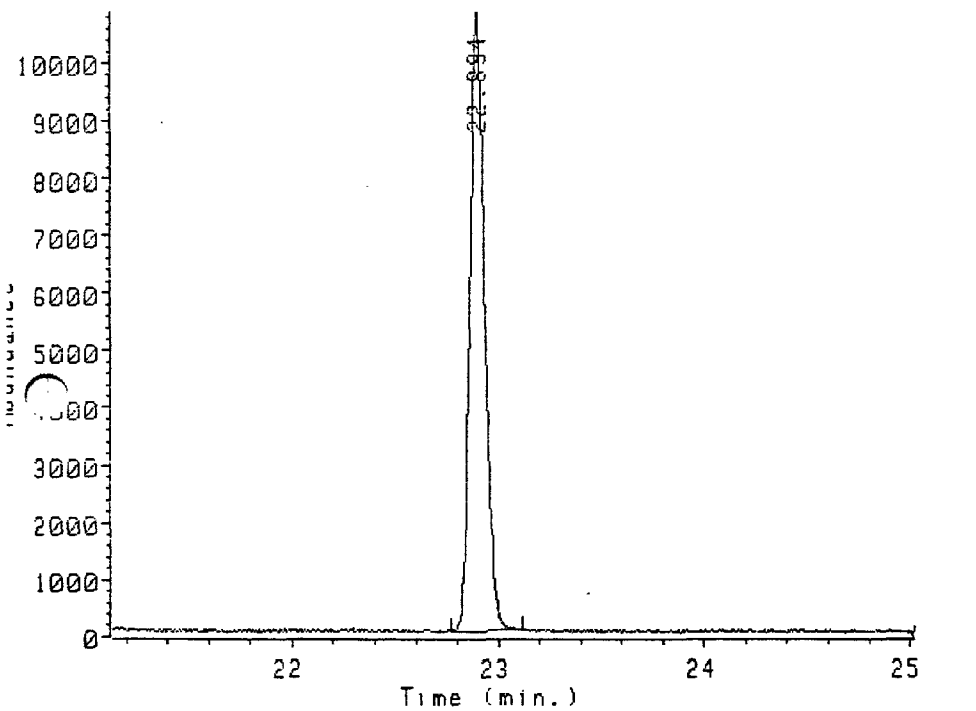
0011110020513

Name Info: 2060
Misc Info:
Operator : TMS

Date : 1 Aug 88 11:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC07A.D



Ion 333.80 amu. from DATA:4HERC07A.D
060

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.894	BB	0.074	532996	22.767	23.114

000000020514

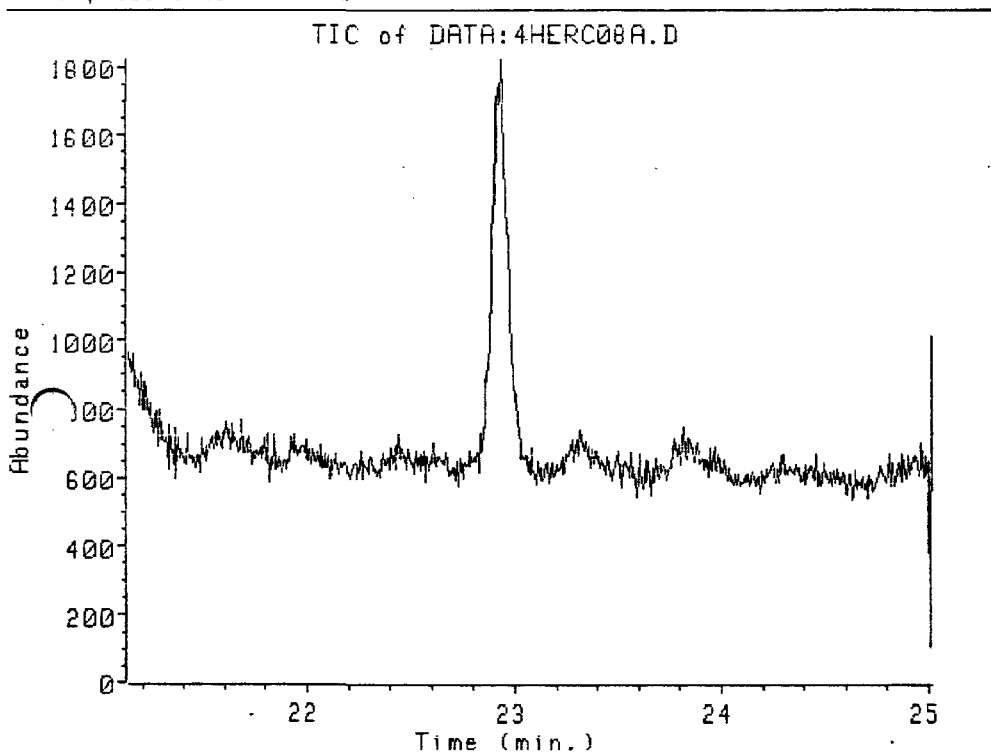
Data file: DATA:4HERC08A.D
File type: GC / MS DATA FILE

3 1367

Name Info: 2061
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:00 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 8
Replicate num : 1



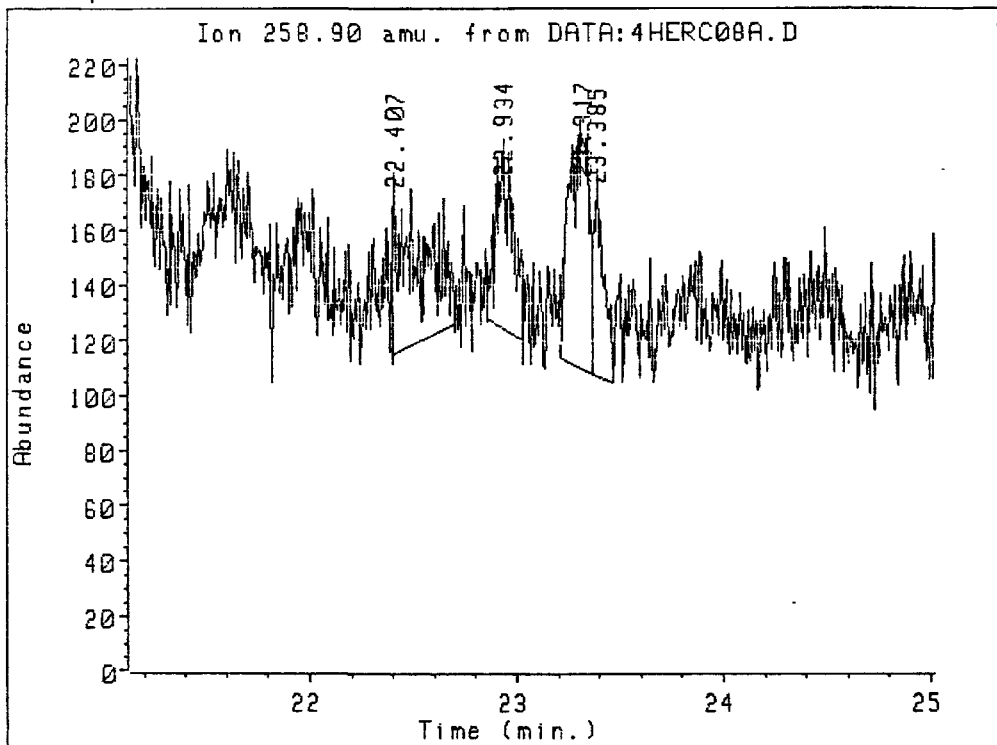
020515

03220731

Name Info: 2061
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:00 am
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



Ion 258.90 amu. from DATA:4HERC08A.D
2061

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.407	PB	0.163	5074	22.396	22.700
2	22.934	UU	0.075	3797	22.856	23.034
3	23.317	UU	0.097	5918	23.213	23.369
4	23.385	UU	0.053	2235	23.369	23.466

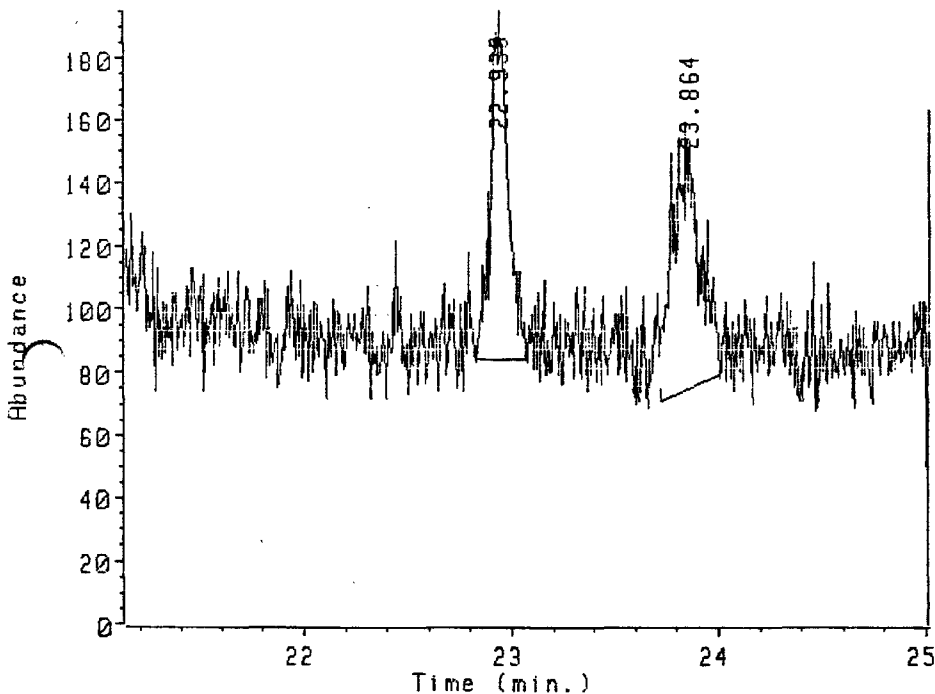
020516

Name Info: 2061
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:00 am
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC08A.D



Ion 319.90 amu. from DATA:4HERC08A.D
2061

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.939	PV	0.080	6628	22.827	23.075
2	23.864	VV	0.123	7336	23.721	24.007

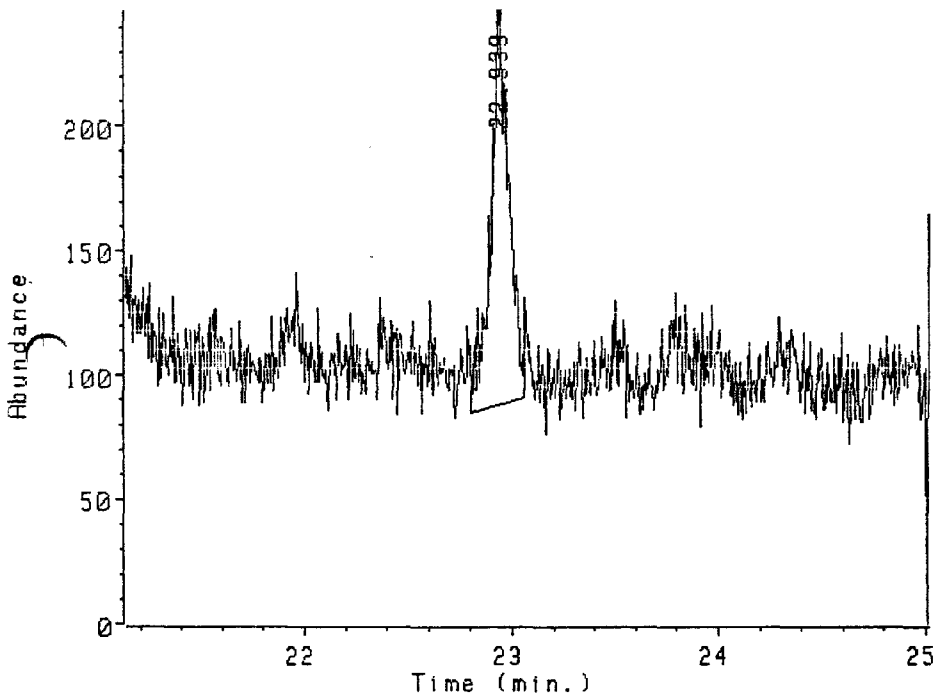
020517

Name Info: 2061
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:00 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC08A.D



Ion 321.90 amu. from DATA:4HERC08A.D
2061

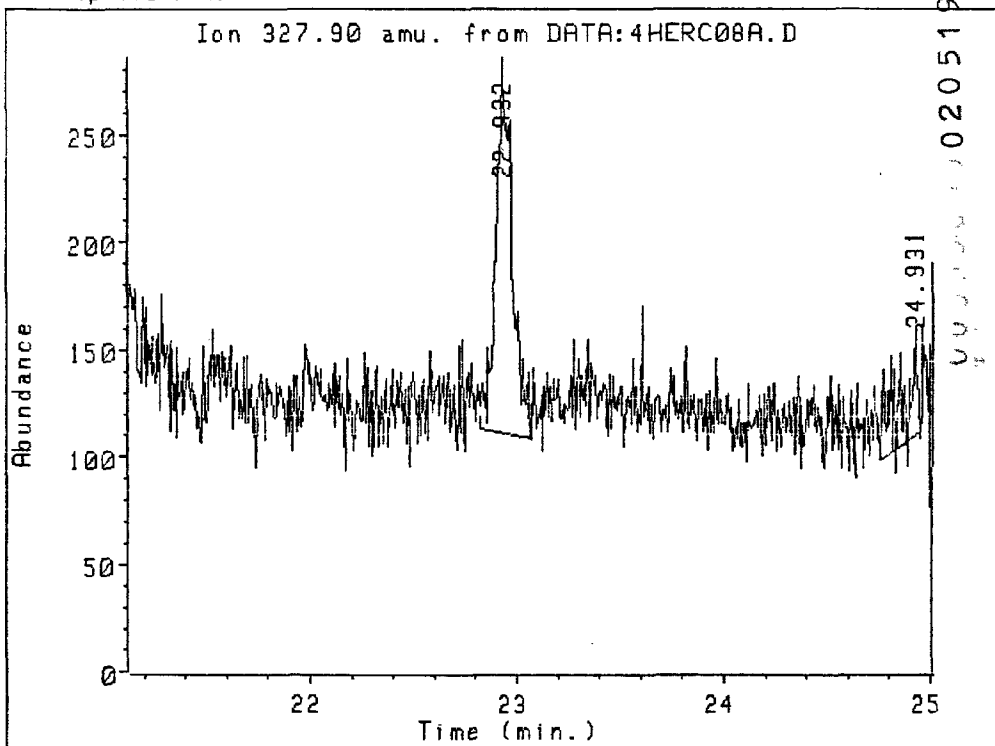
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.939	UV	0.081	9785	22.807	23.057

0020518

Name Info: 2061
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:00 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



020519

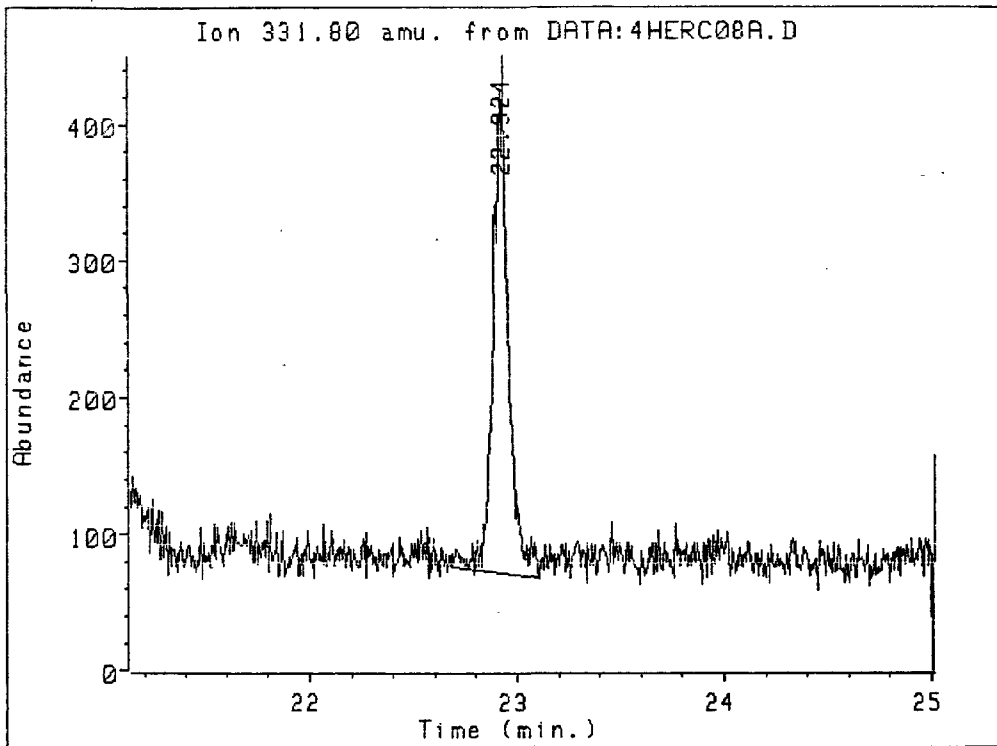
Ion 327.90 amu. from DATA:4HERC08A.D
2061

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.932	UV	0.080	9806	22.825	23.072
2	24.931	PV	0.059	2288	24.760	24.955

Name Info: 2061
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:00 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



020520

Ion 331.80 amu. from DATA:4HERC08A.D
2061

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.924	BU	0.080	19213	22.685	23.105

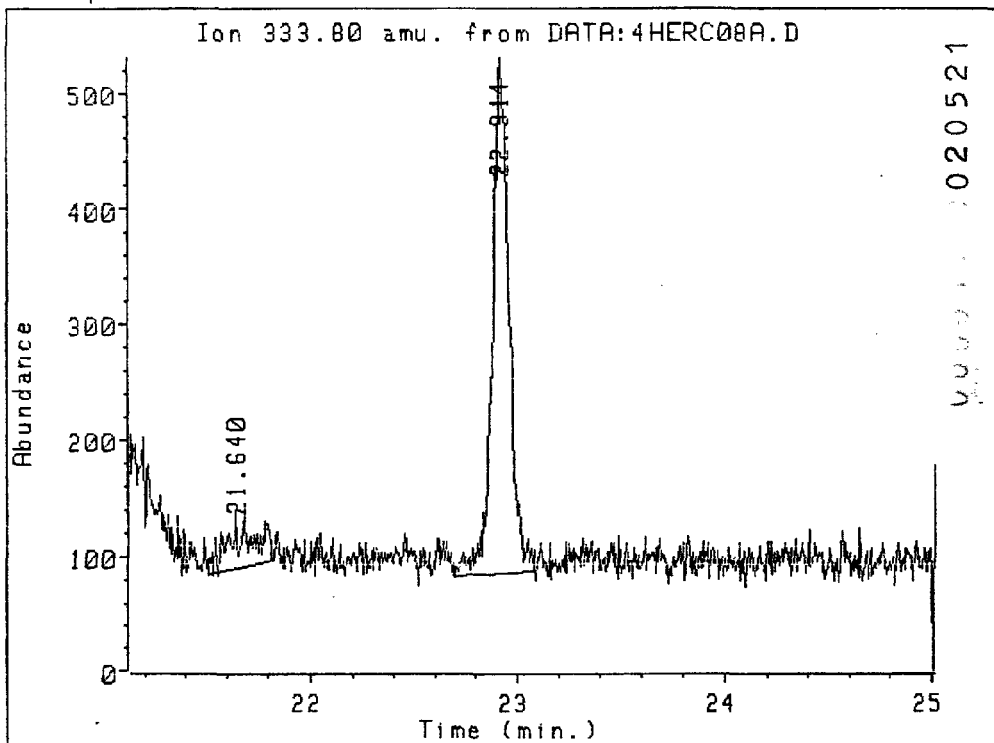
Data file: DATA:4HERC08A.D
File type: GC / MS DATA FILE

3-1373

Name Info: 2061
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:00 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



Ion 333.80 amu. from DATA:4HERC08A.D
2061

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.640	PU	0.173	3741	21.508	21.826
2	22.914	PU	0.076	25591	22.692	23.093

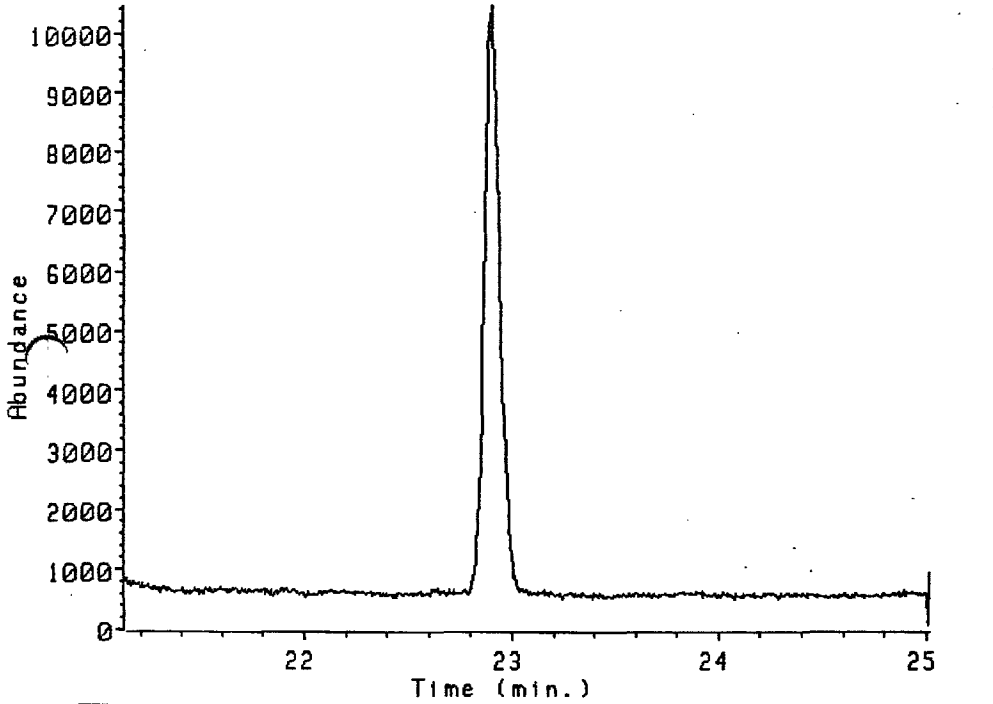
03220737

Name Info: 2108
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 am
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1

TIC of DATA:4HERC09A.D

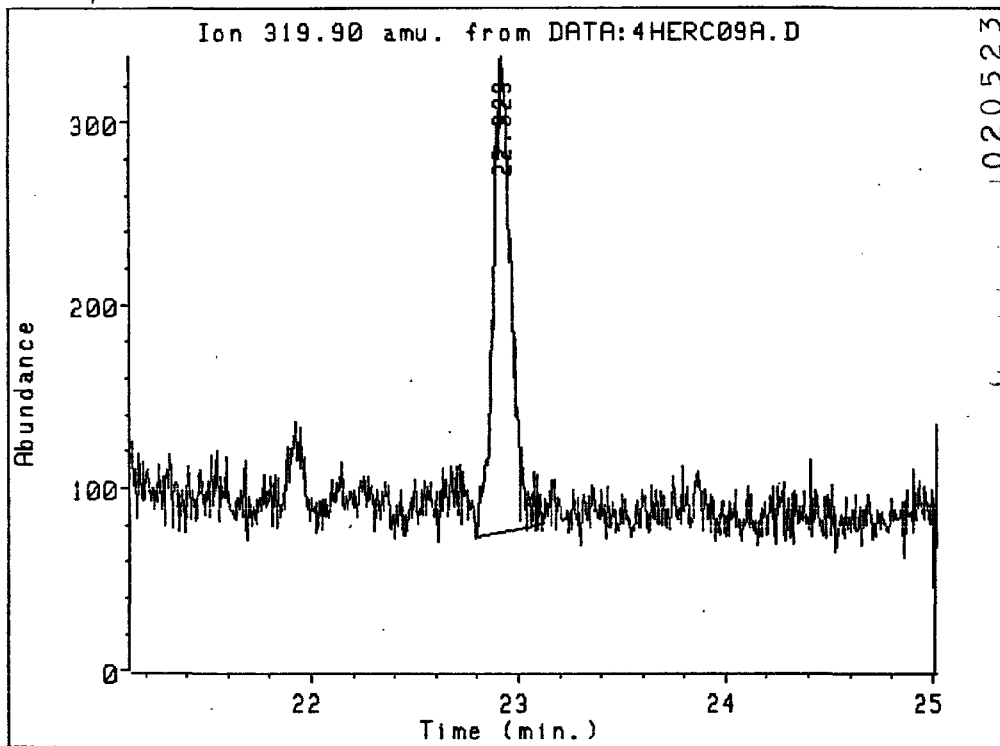


000000020522

Name Info: 2108
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 9
Replicate num : 1



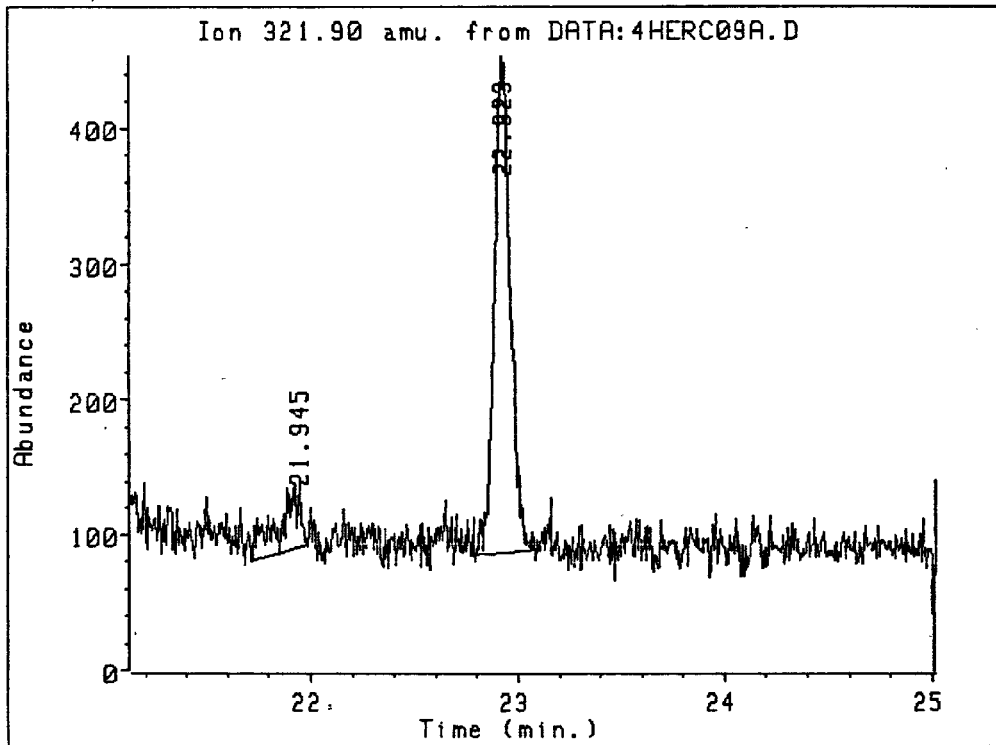
Ion 319.90 amu. from DATA:4HERC09A.D
2108

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.923	BV	0.083	15583	22.795	23.118

Name Info: 2108
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



0020524

Ion 321.90 amu. from DATA:4HERC09A.D
2108

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.945	PV	0.101	3481	21.716	21.984
2	22.923	PV	0.078	20228	22.768	23.106

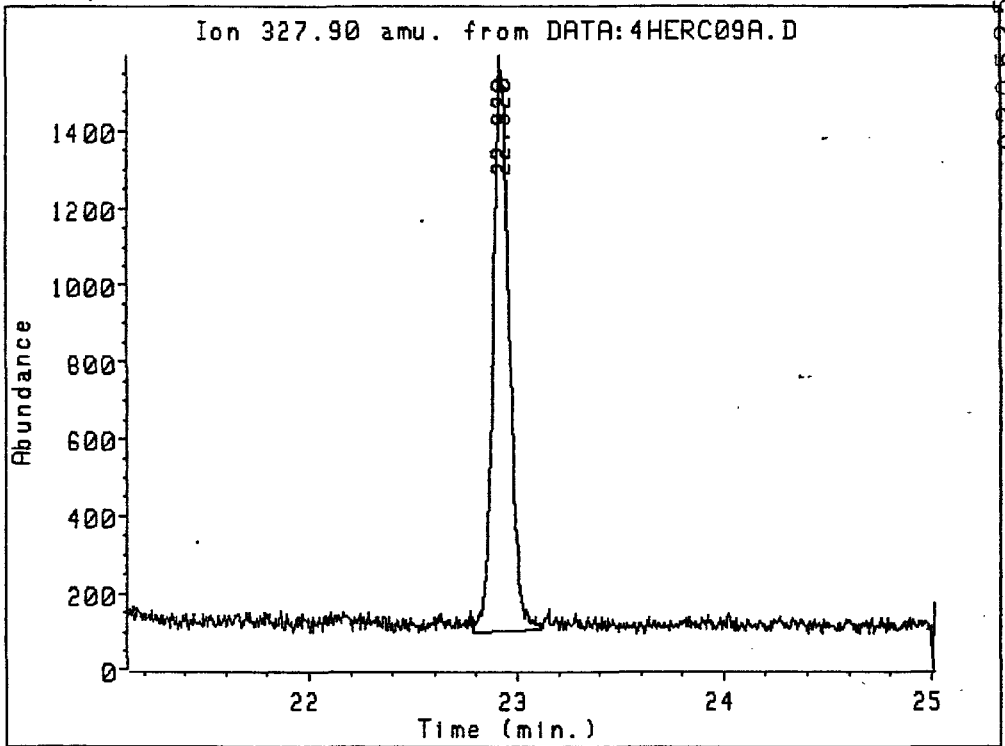
Data file: DATA:4HERC09A.D
File type: GC / MS DATA FILE

3 1377

Name Info: 2108
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 am
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



Ion 327.90 amu. from DATA:4HERC09A.D
2108

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.920	UU	0.083	81430	22.791	23.121

03220741

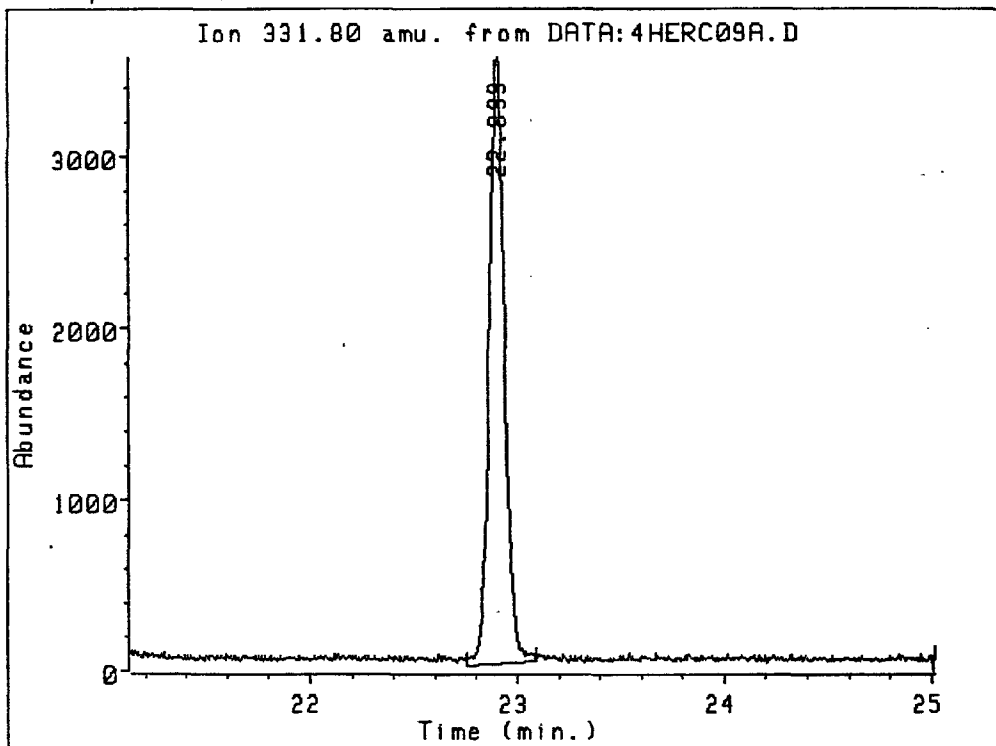
Data file: DATA:4HERC09A.D
File type: GC / MS DATA FILE

3 1378

Name Info: 2108
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



000001020526

Ion 331.80 amu. from DATA:4HERC09A.D
2108

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.899	UU	0.081	184631	22.749	23.087

03220742

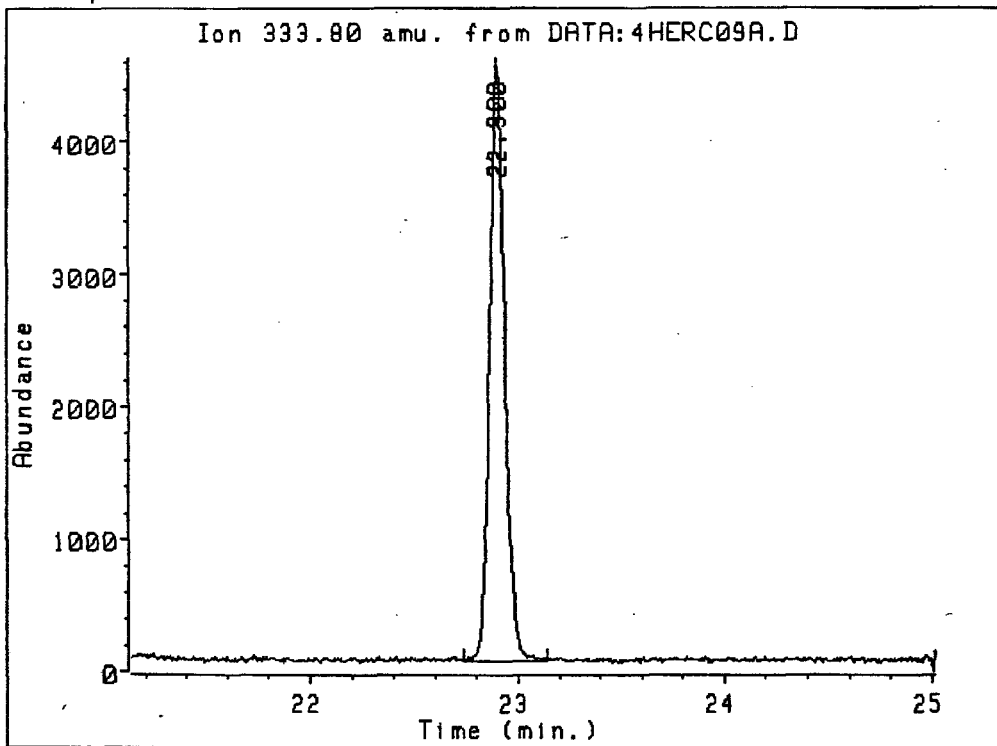
Data file: DATA:4HERC09A.D
File type: GC / MS DATA FILE

3-1379

Name Info: 2108
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



020527

Ion 333.80 amu. from DATA:4HERC09A.D
2108

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.900	UV	0.076	231349	22.734	23.145

03220743

Data file: DATA:4HERC10A.D
File type: GC / MS DATA FILE

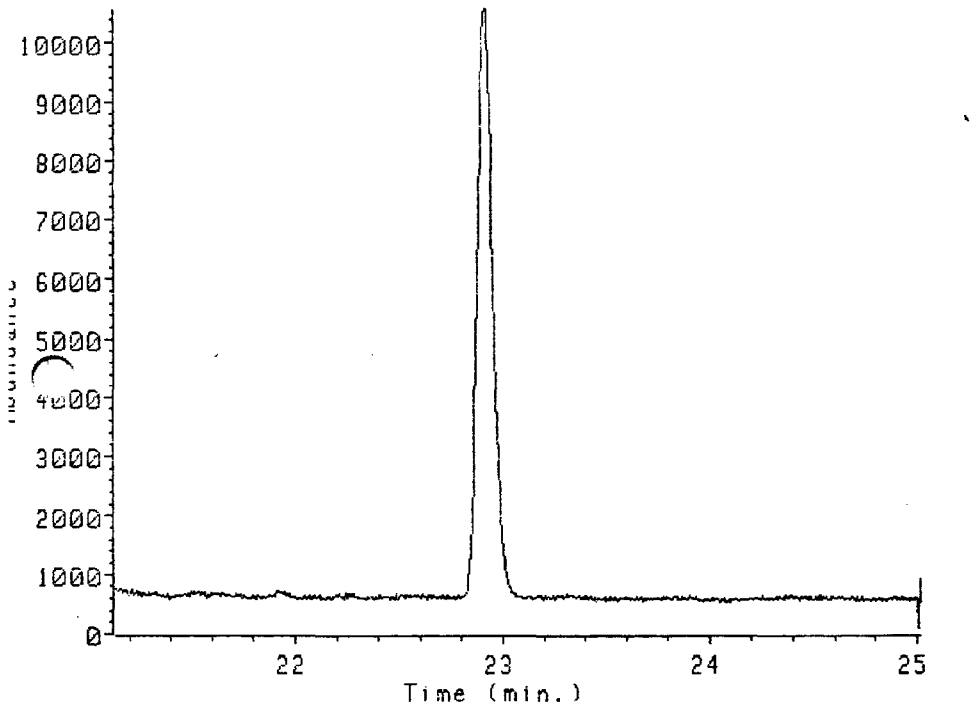
Name Info: 2109
Misc Info:
Operator : TMS

3 1380

Date : 2 Aug 88 1:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 10
Replicate num : 1

TIC of DATA:4HERC10A.D



020528

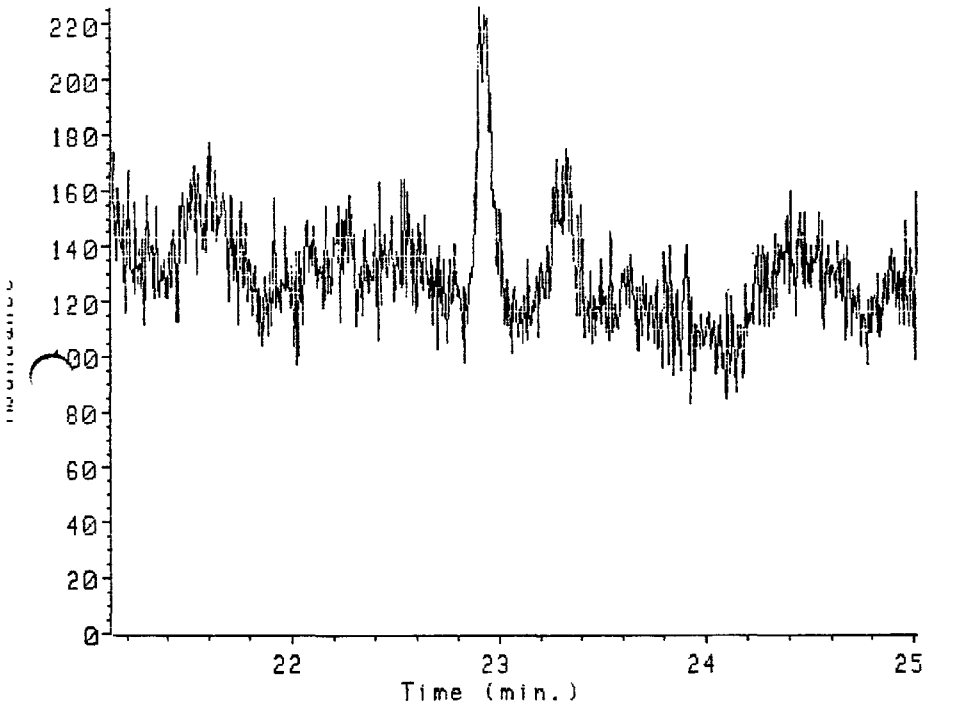
03220744

Name Info: 2109
Misc Info:
Operator : TMS

te : 2 Aug 88 1:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC10A.D



Ion 258.90 amu. from DATA:4HERC10A.D
109

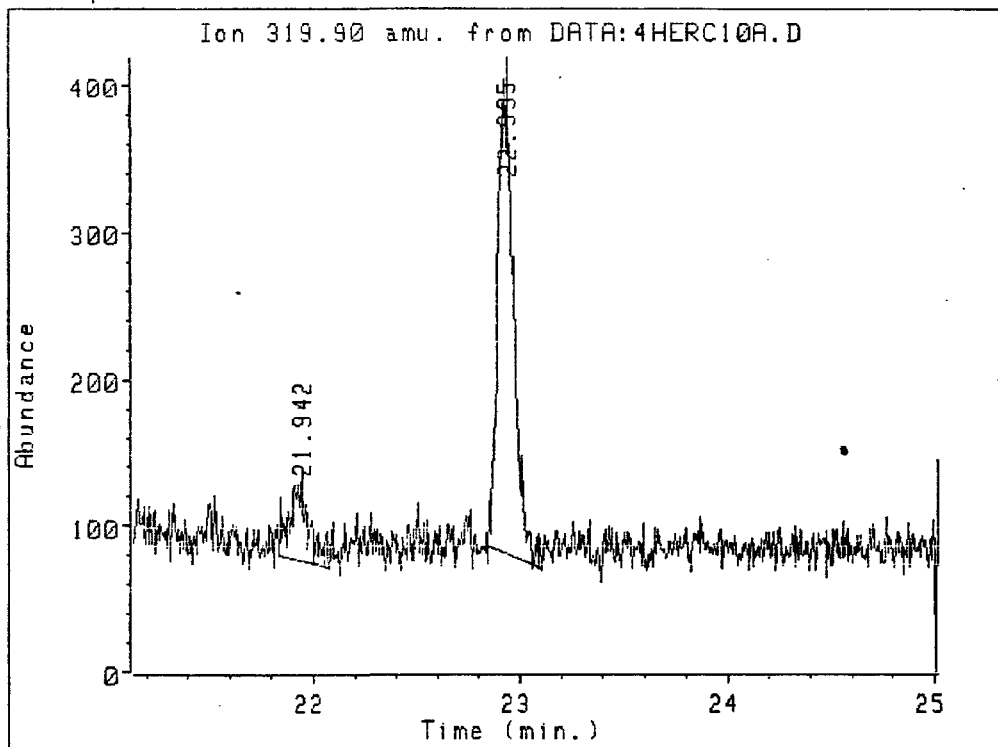
0 peaks detected

0020529

Name Info: 2109
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



00000 020530

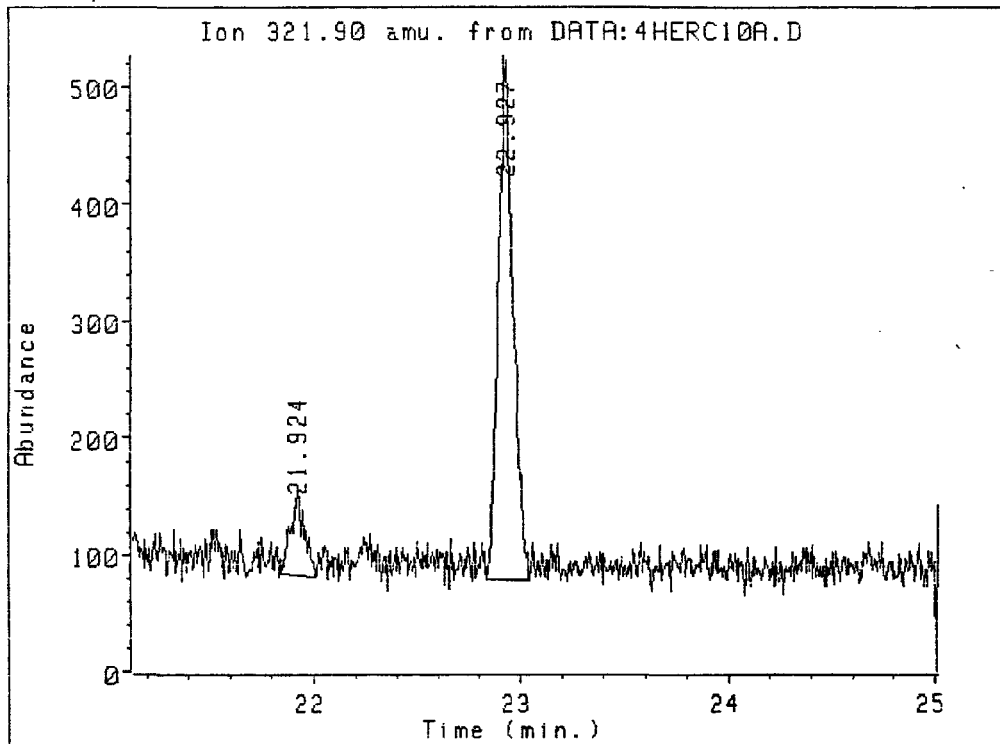
Ion 319.90 amu. from DATA:4HERC10A.D
2109

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.942	UV	0.107	3586	21.832	22.076
2	22.935	BV	0.071	17384	22.835	23.109

Name Info: 2109
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



020531

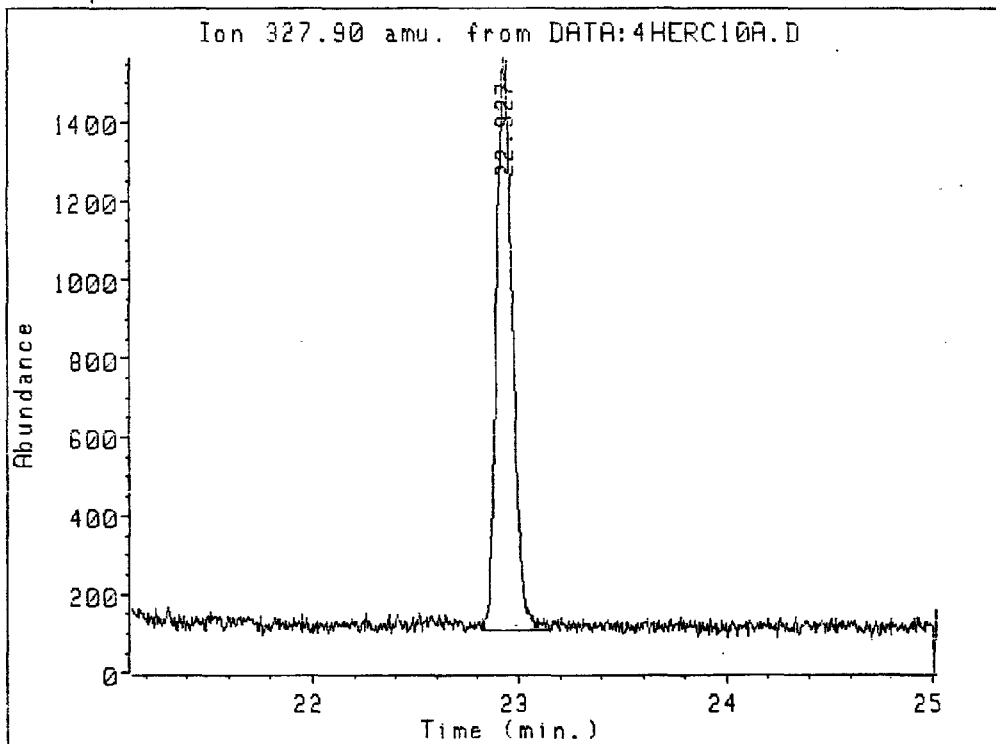
Ion 321.90 amu. from DATA:4HERC10A.D
2109

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.924	UU	0.064	3337	21.838	22.009
2	22.927	PV	0.070	22741	22.838	23.046

Name Info: 2109
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:07 am
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



020532

Ion 327.90 amu. from DATA:4HERC10A.D
2109

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.927	PV	0.080	80330	22.818	23.149

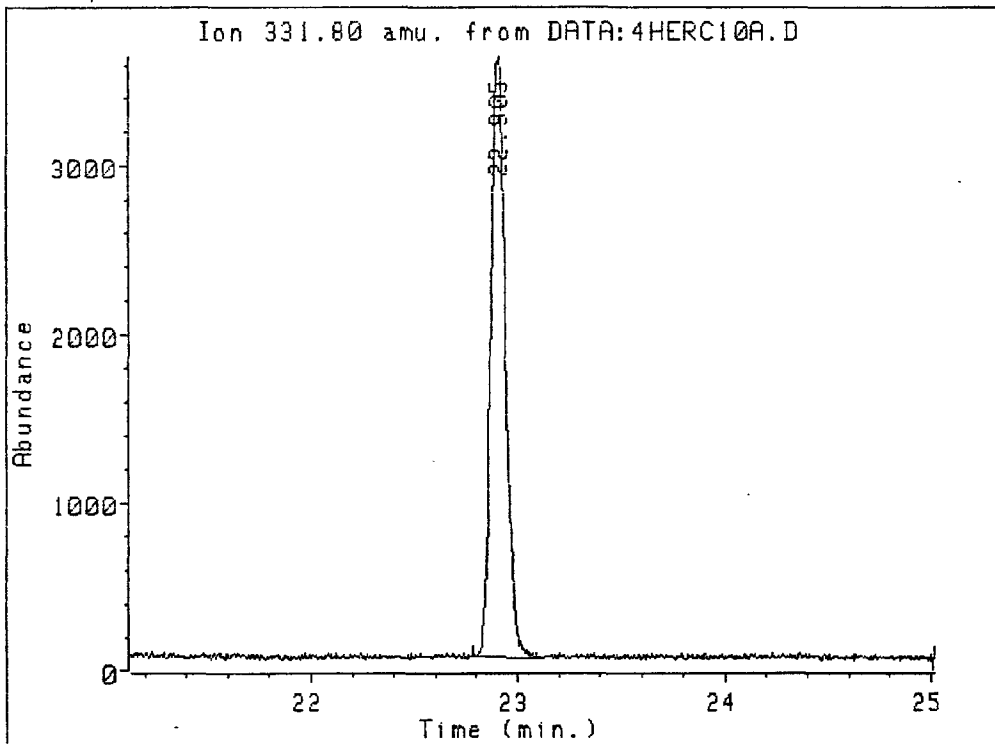
Data file: DATA:4HERC10A.D
File type: GC / MS DATA FILE

3 1385

Name Info: 2109
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



020533
0000

Ion 331.80 amu. from DATA:4HERC10A.D
2109

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.905	BV	0.079	179743	22.780	23.115

03220749

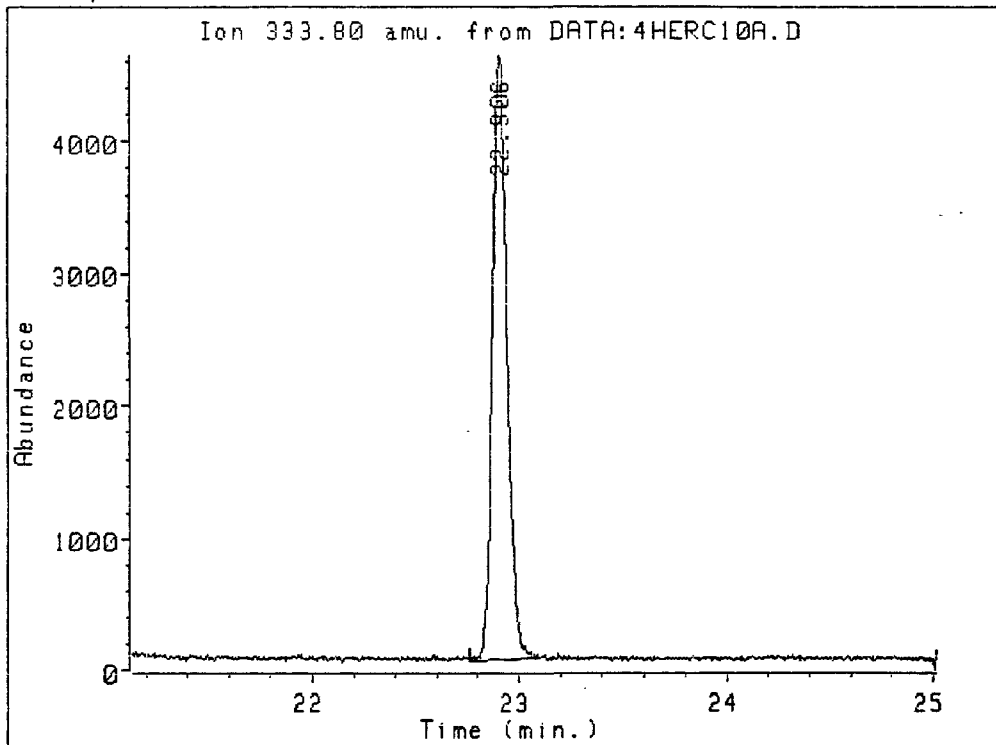
03220748

cl

Name Info: 2109
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



020534

Ion 333.80 amu. from DATA:4HERC10A.D
2109

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.906	PV	0.080	229553	22.762	23.100

03220750

03220760 *u*

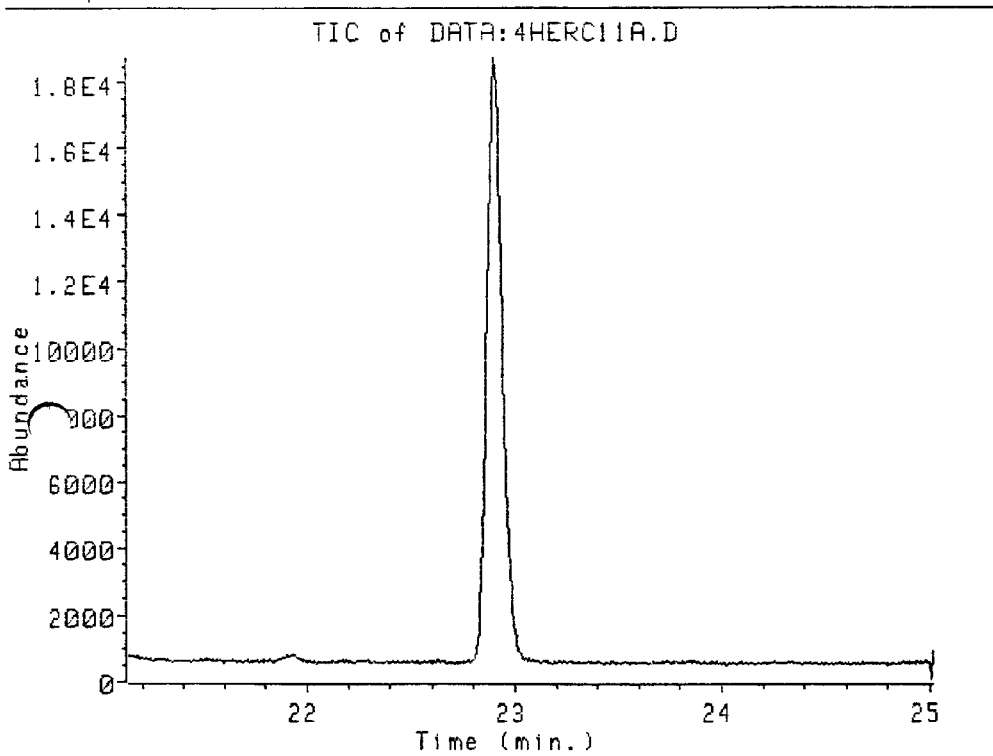
Data file: DATA:4HERC11A.D
File type: GC / MS DATA FILE

3 1387

Name Info: 2110
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:41 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 11
Replicate num : 1



000010 020535

03220751

Data file: DATA:4HERC11A.D
File type: GC / MS DATA FILE

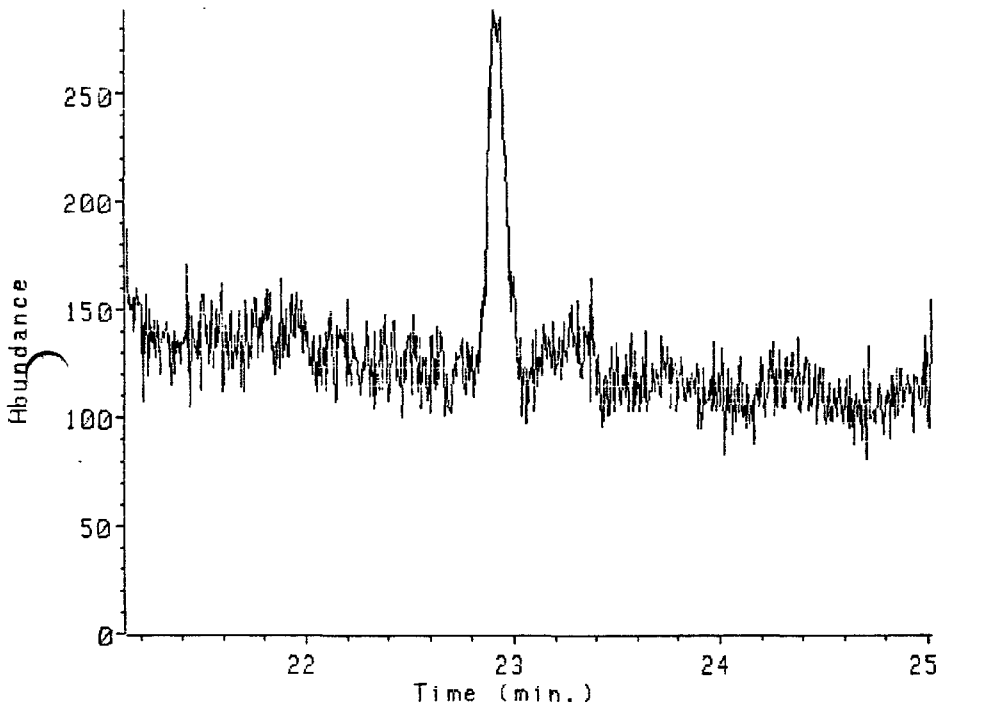
3 1388

Name Info: 2110
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:41 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 11
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC11A.D



Ion 258.90 amu. from DATA:4HERC11A.D
2110

No peaks detected

020536

03220752

Data file: DATA:4HERC11A.D
File type: GC / MS DATA FILE

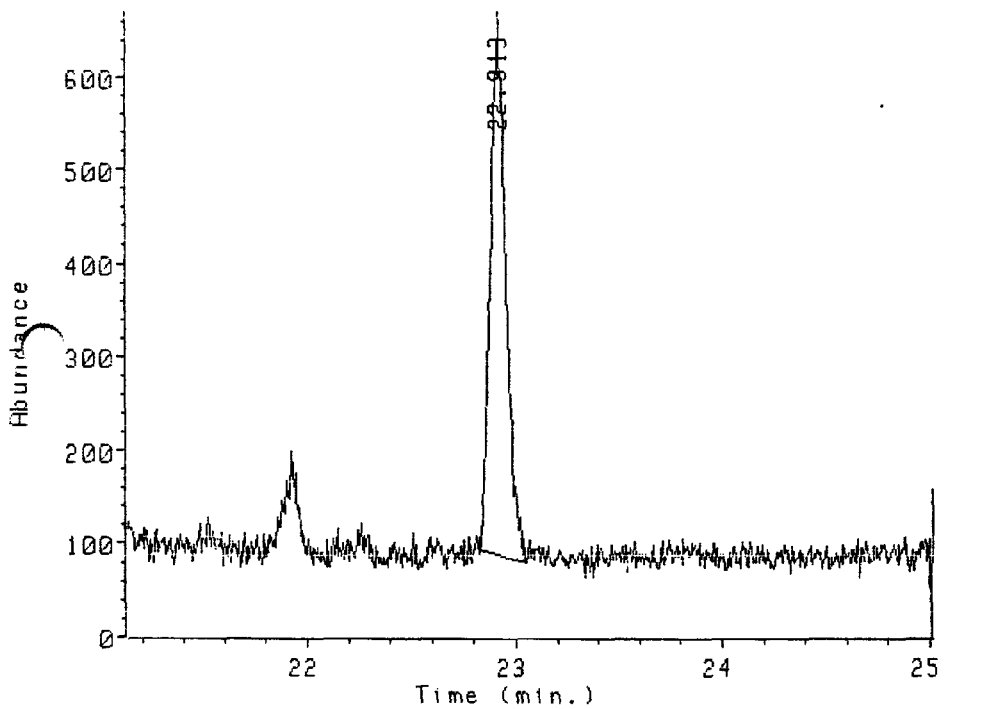
3 1339

Name Info: 2110
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:41 am
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Hls bottle num : 11
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC11A.D



Ion 319.90 amu. from DATA:4HERC11A.D
2110

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.913	BB	0.079	29763	22.828	23.050

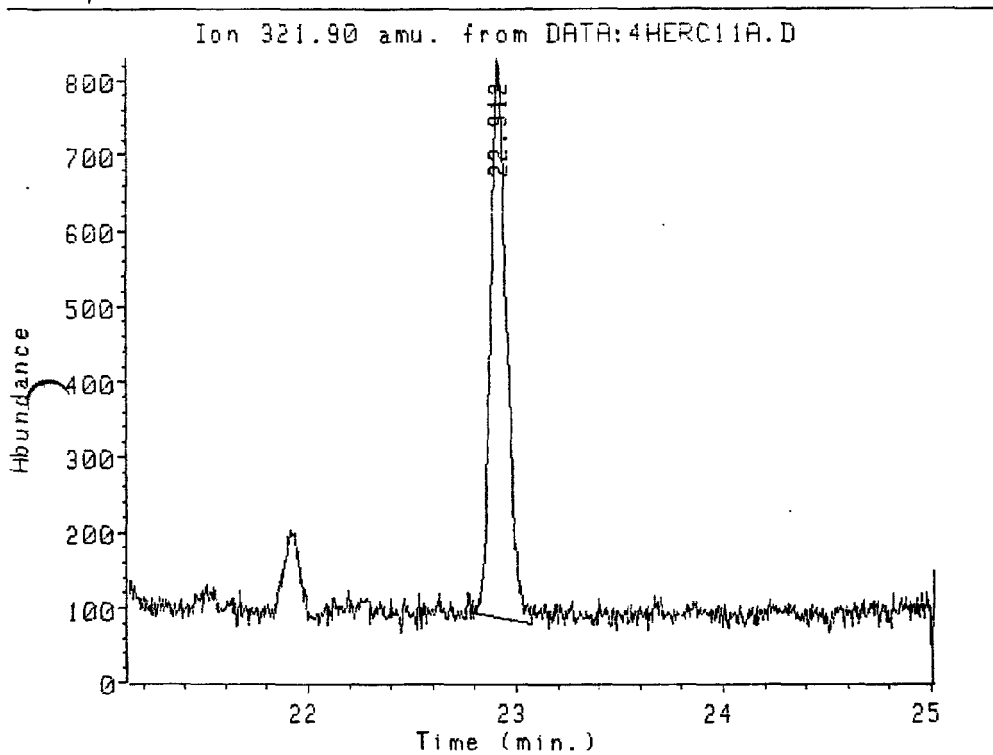
View file 020537

03220753

Name Info: 2110
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:41 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 11
Replicate num : 1



020538

Ion 321.90 amu. from DATA:4HERC11A.D
2110

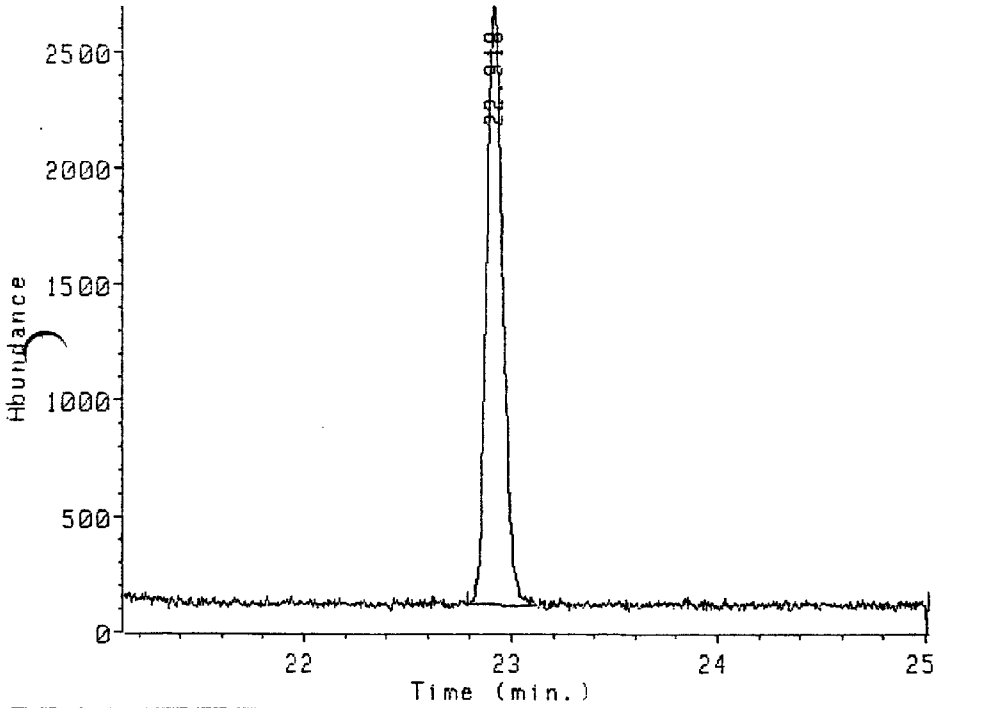
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.912	BB	0.077	39818	22.788	23.075

Name Info: 2110
Misc Info:
Operator: TMS

Date : 2 Aug 88 1:41 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 11
Replicate num : 1

Ion 327.90 amu. from DATA:4HEPC11A.D



Ion 327.90 amu. from DATA:4HERC11A.D
2110

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.918	BB	0.083	142102	22.788	23.117

020539

Data file: DATA:4HERC11A.D
File type: GC / MS DATA FILE

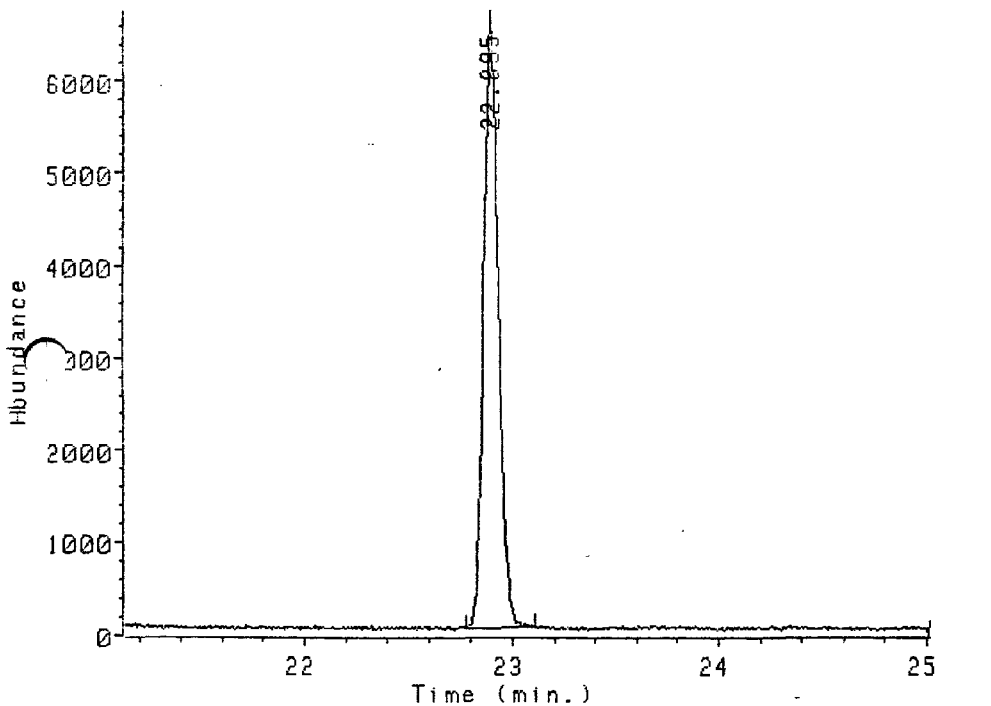
3 1392

Name Info: 2110
Misc Info:
Operator: TMS

Date : 2 Aug 88 1:41 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als. bottle num : 11
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC11A.D



Ion 331.80 amu. from DATA:4HERC11A.D
2110

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.895	BB	0.078	320491	22.773	23.108

000000020540

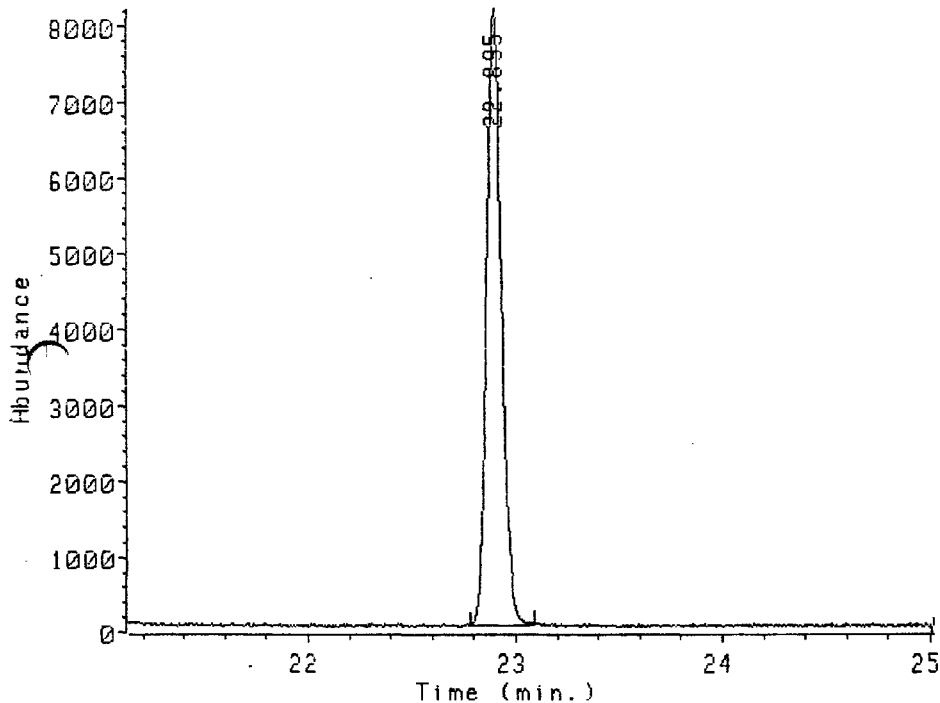
03220756

Name Info: 2110
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:41 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 11
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC11A.D



Ion 333.80 amu. from DATA:4HERC11A.D
2110

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.895	BB	0.073	403066	22.779	23.093

000000020541

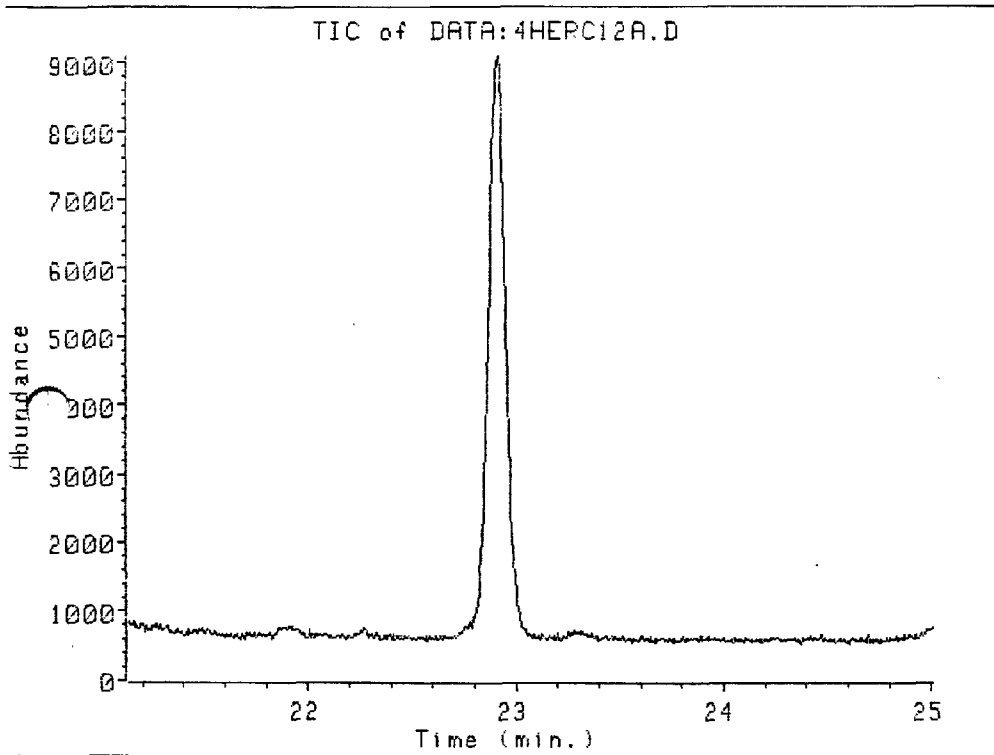
Data file: DATA:4HERC12A.D
File type: GC / MS DATA FILE

3 1394

Name Info: 2126
Misc Info:
Operator: TMS

Date : 2 Aug 88 2:14 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 12
Replicate num : 1



020542

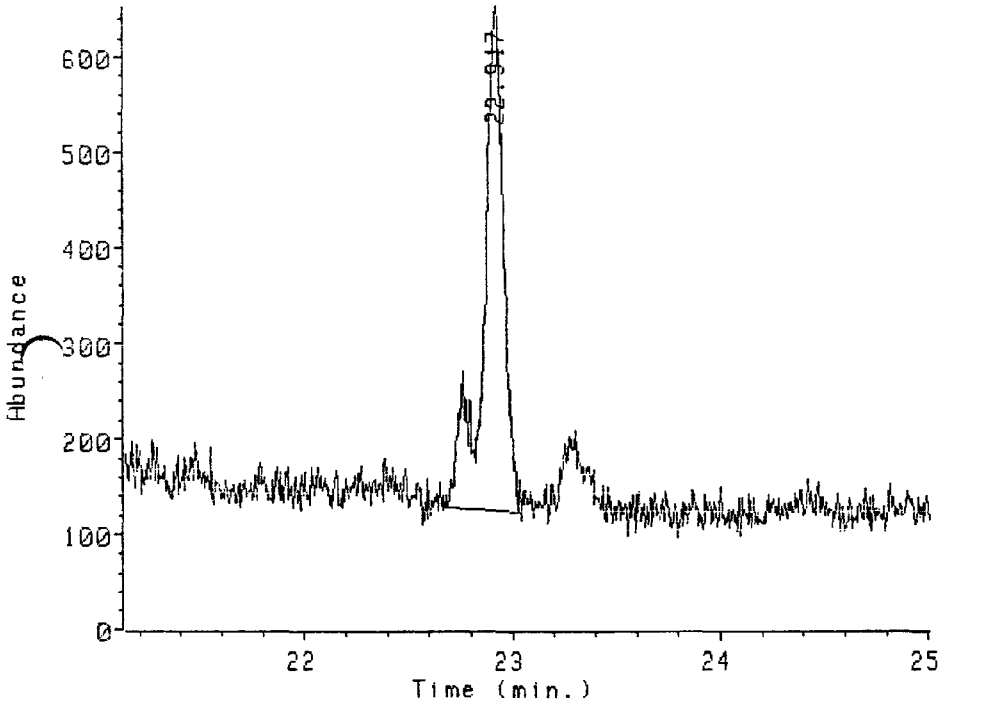
03220758

Name Info: 2126
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:14 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Ais bottle num : 12
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC12A.D



Ion 258.90 amu. from DATA:4HERC12A.D
2126

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.917	BB	0.094	35718	22.682	23.041

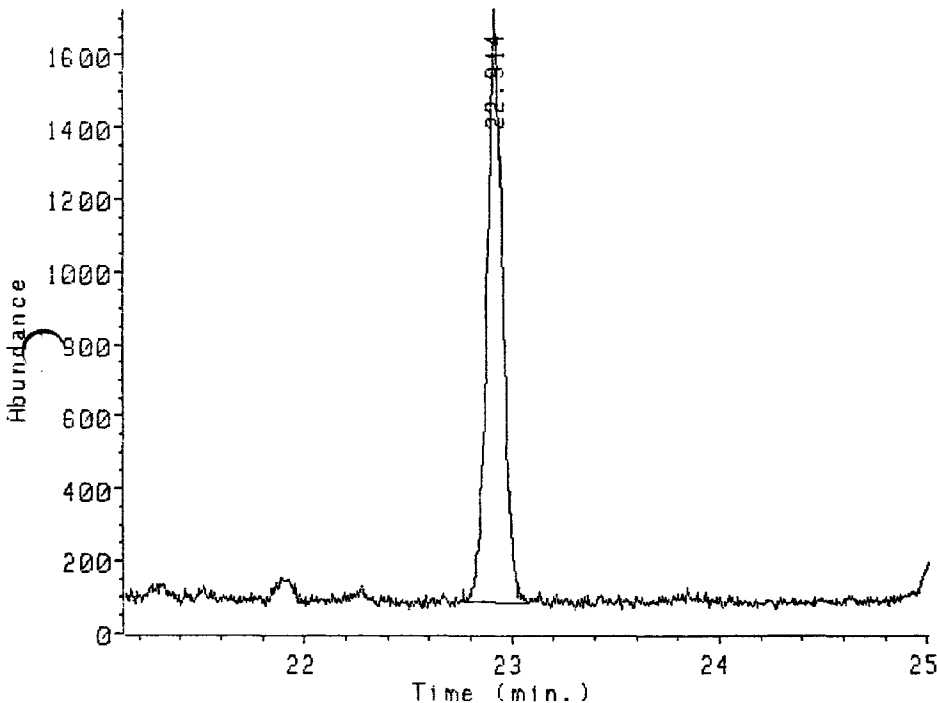
020543

Name Info: 2126
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:14 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 12
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC12A.D



Ion 319.90 amu. from DATA:4HERC12A.D
2126

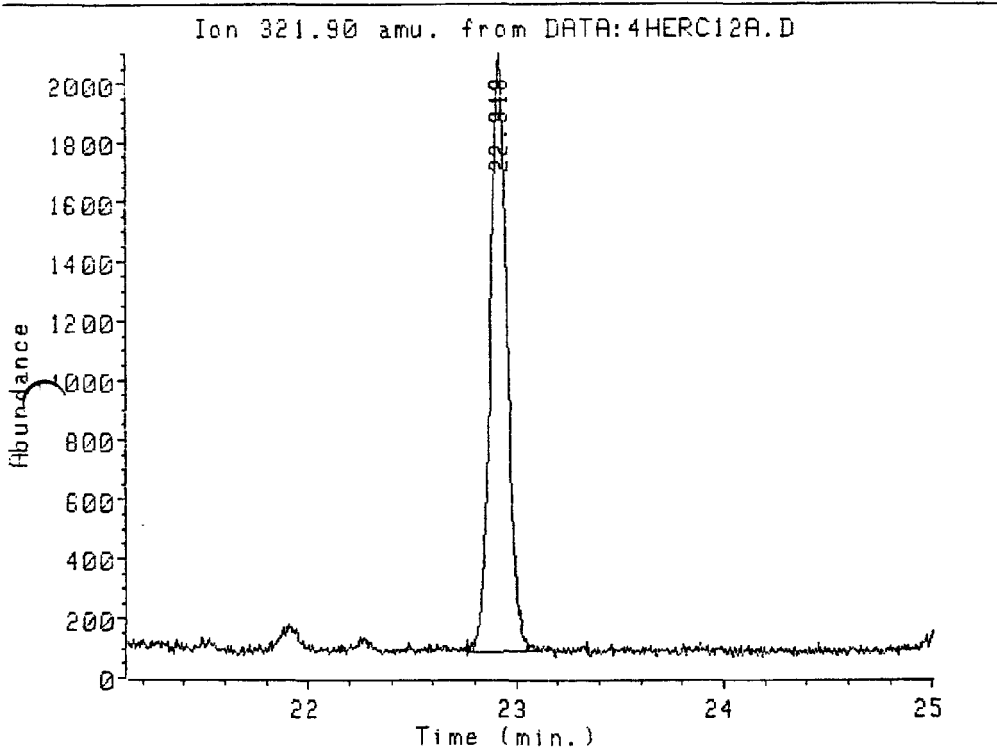
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.914	BB	0.075	85198	22.764	23.072

0020544

Name Info: 2126
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:14 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 12
Replicate num : 1



000000020545

Ion 321.90 amu. from DATA:4HERC12A.D

2126

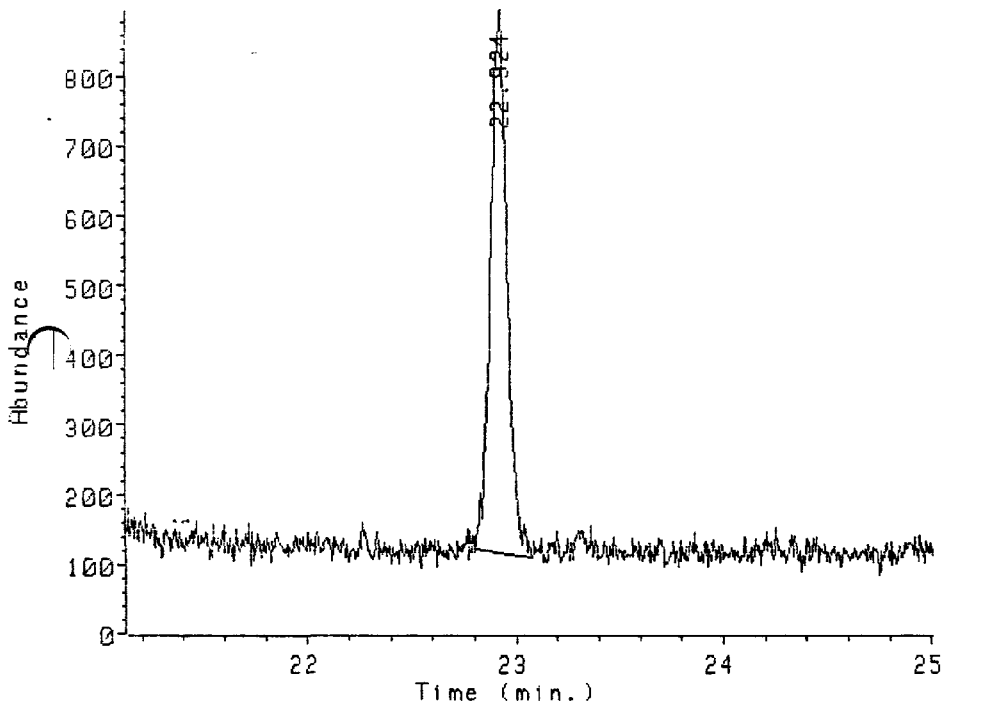
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.918	BB	0.081	112977	22.761	23.118

Name Info: 2126
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:14 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 12
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC12A.D



020546

Ion 327.90 amu. from DATA:4HERC12A.D
2126

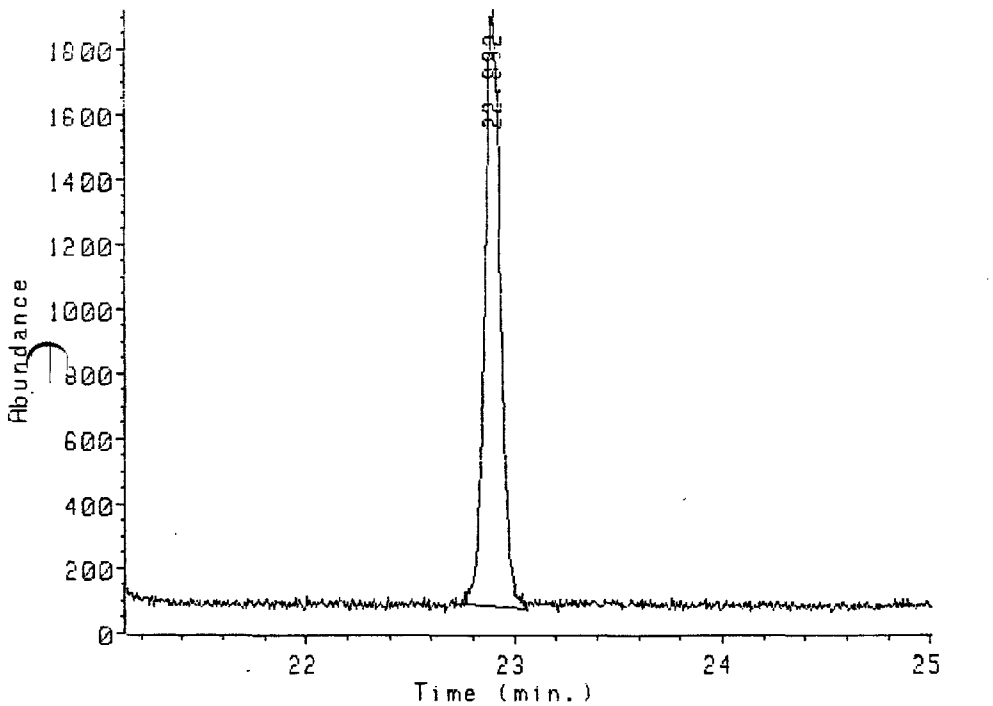
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.924	BB	0.074	43493	22.801	23.075

Name Info: 2126
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:14 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 12
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC12A.D



Ion 331.80 amu. from DATA:4HERC12A.D
2126

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.892	BB	0.082	98460	22.758	23.063

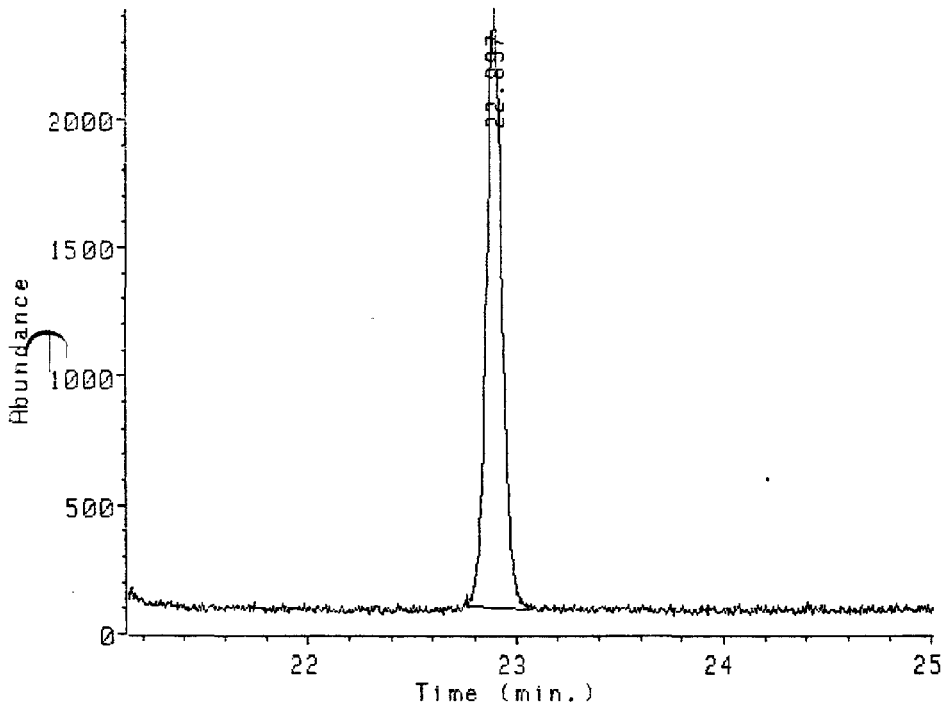
000000020547

Name Info: 2126
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:14 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 12
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC12A.D



Ion 333.80 amu. from DATA:4HERC12A.D
2126

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.897	BB	0.078	123163	22.764	23.075

020548

Data file: DATA:4HERC13A.D
File type: GC / MS DATA FILE

3 1401

Name Info: 2127

Misc Info:

Operator : TMS

Date : 2 Aug 88 2:48 am

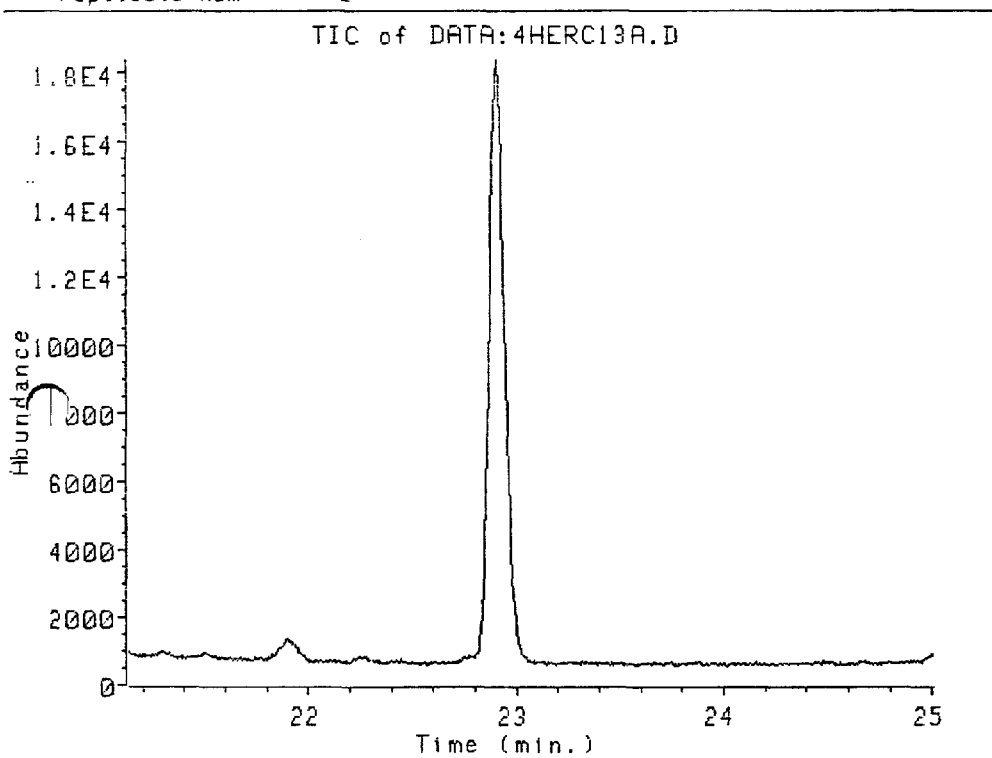
Instrument: MS_5970

Inlet : GC

Sequence index : 3

Als bottle num : 13

Replicate num : 1



000000020549

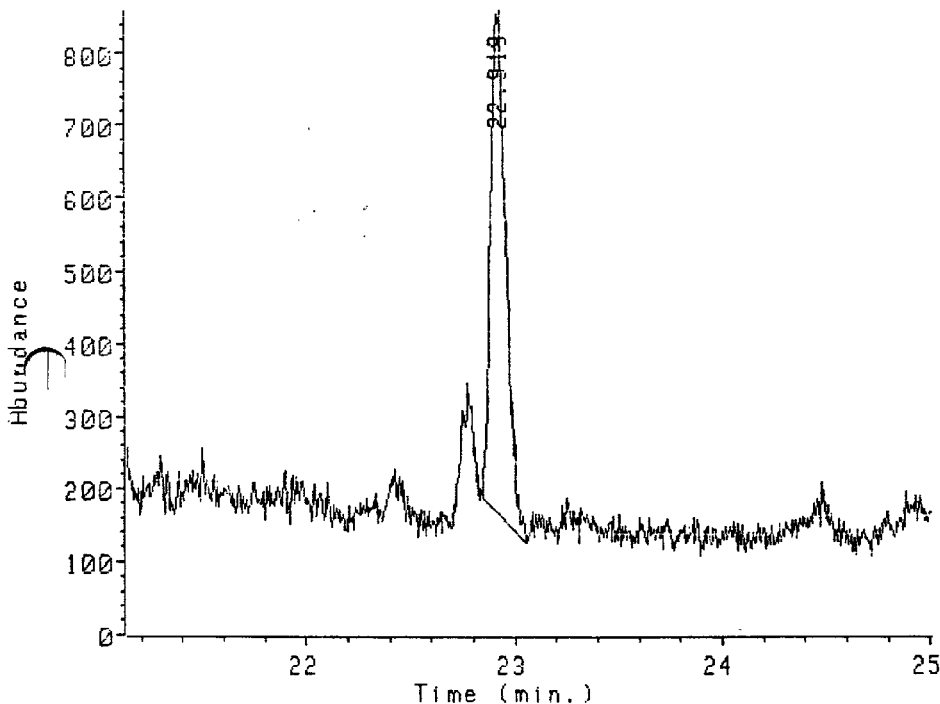
03220765

Name Info: 2127
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:48 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 13
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC13A.D



Ion 258.90 amu. from DATA:4HERC13A.D
2127

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.919	BB	0.071	35270	22.847	23.057

000000020550

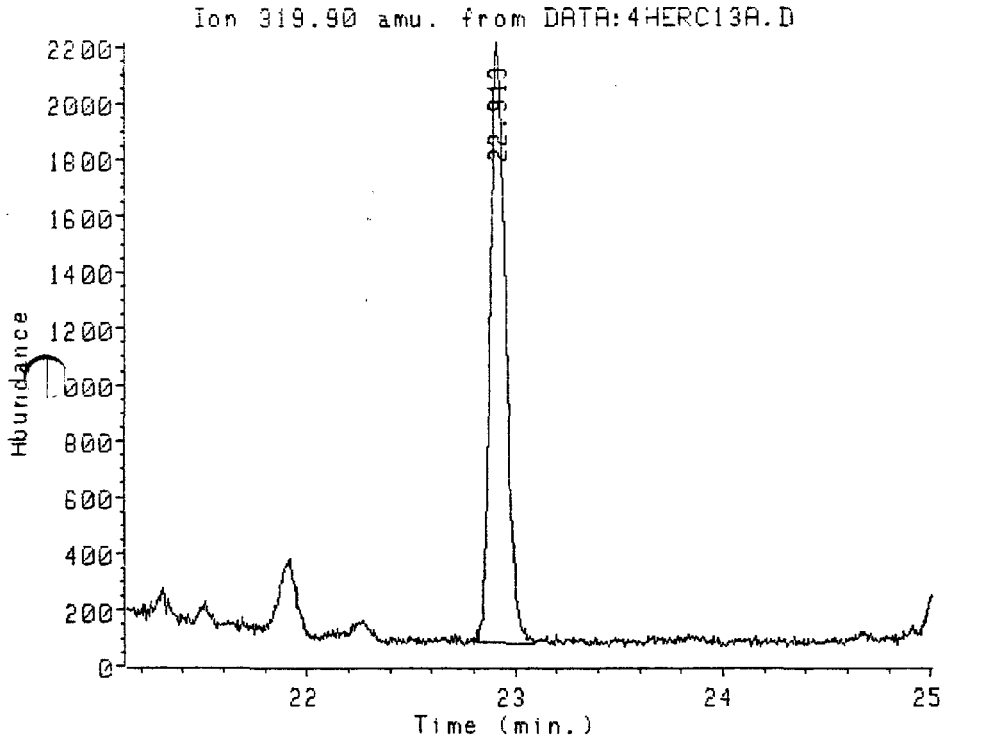
Data file: DATA:4HERC13A.D
File type: GC / MS DATA FILE

3 1403

Name Info: 2127
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:48 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 13
Replicate num : 1



000000020551

Ion 319.90 amu. from DATA:4HERC13A.D
2127

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.913	BB	0.078	110175	22.813	23.094

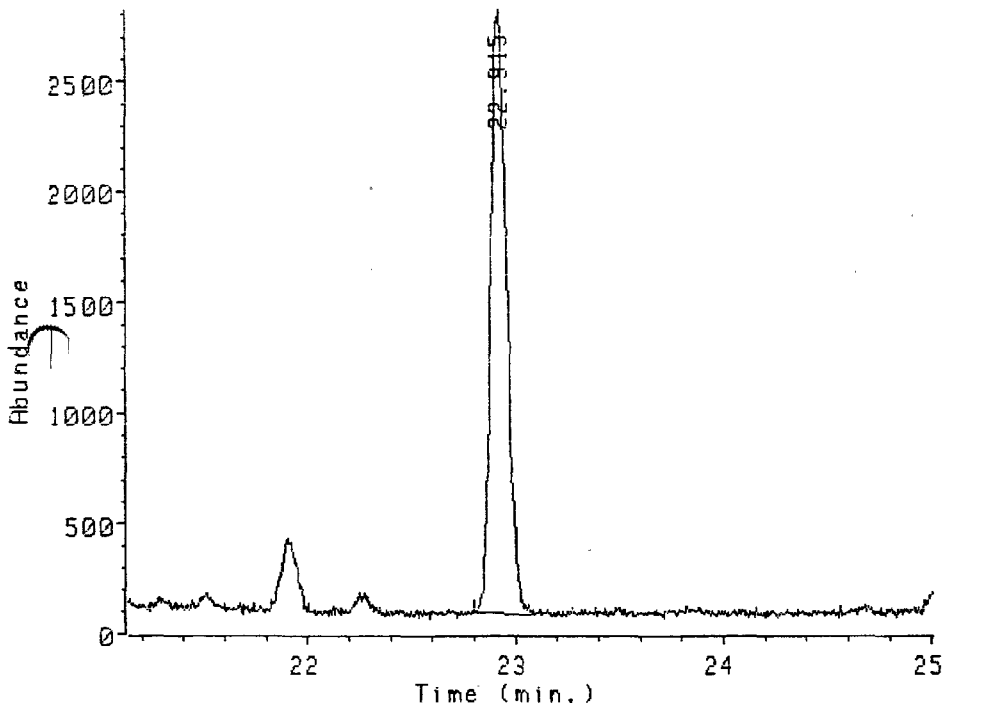
03220767

Name Info: 2127
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:48 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 13
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC13A.D



Ion 321.90 amu. from DATA:4HERC13A.D
2127

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.915	BB	0.079	143793	22.798	23.094

000000 0020552

Data file: DATA:4HERC13A.D
File type: GC / MS DATA FILE

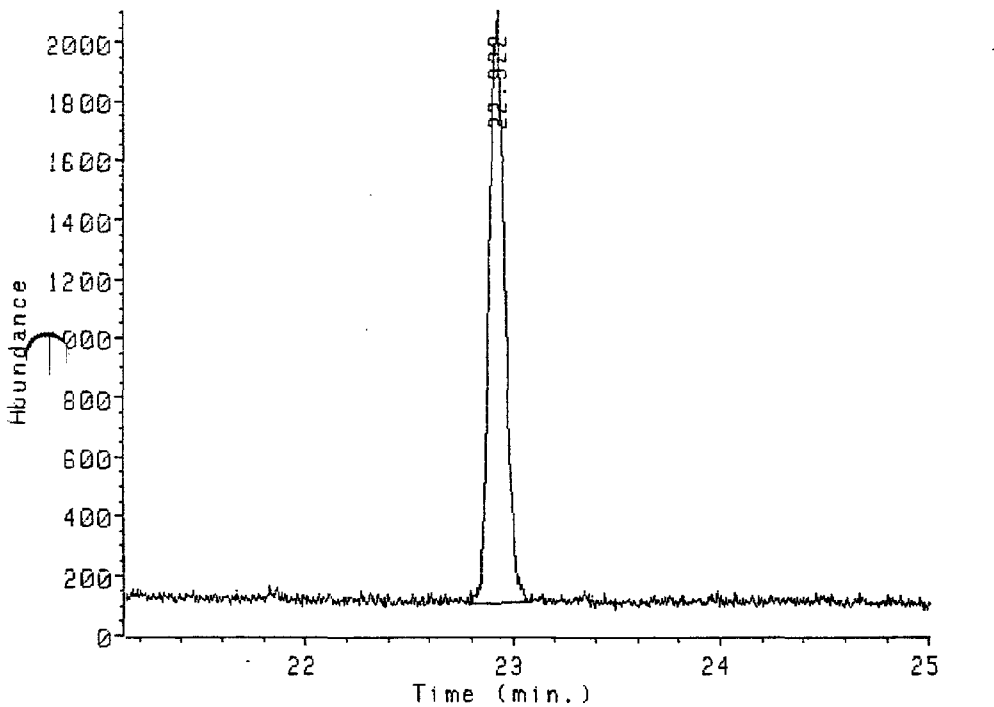
3 1495

Name Info: 2127
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:48 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Ais bottle num : 13
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC13A.D



0000001020553

Ion 327.90 amu. from DATA:4HERC13A.D
2127

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.922	BB	0.072	103102	22.789	23.088

03220769

Data file: DATA:4HERC13A.D
File type: GC / MS DATA FILE

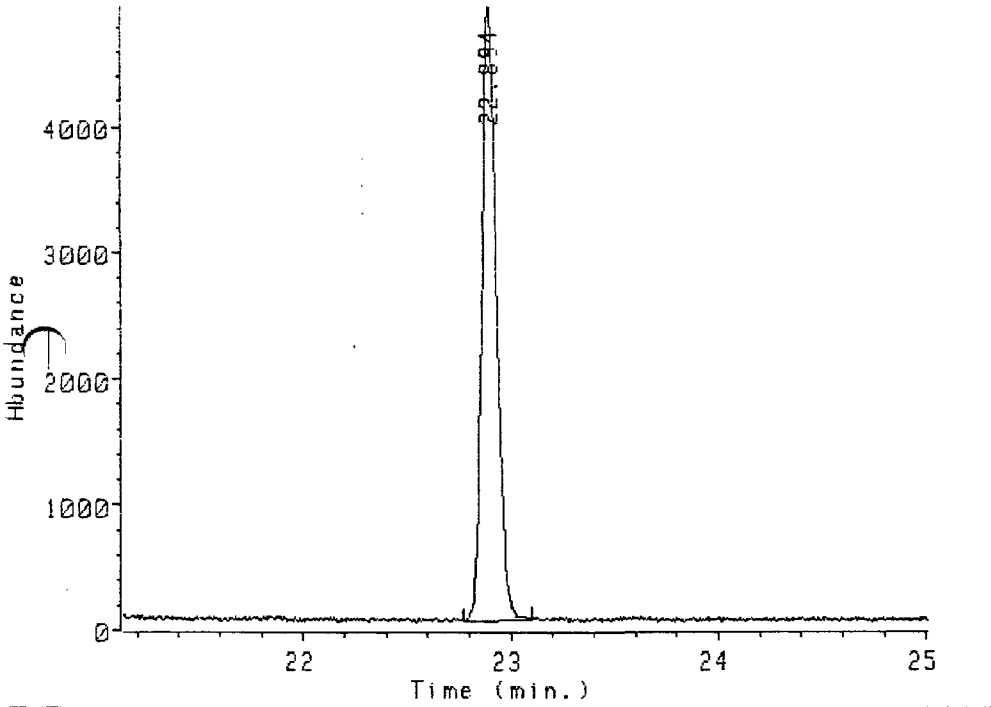
3 1406

Name Info: 2127
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:48 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
His bottle num : 13
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC13A.D



Ion 331.80 amu. from DATA:4HERC13A.D
2127

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.894	BB	0.076	239274	22.768	23.097

020554

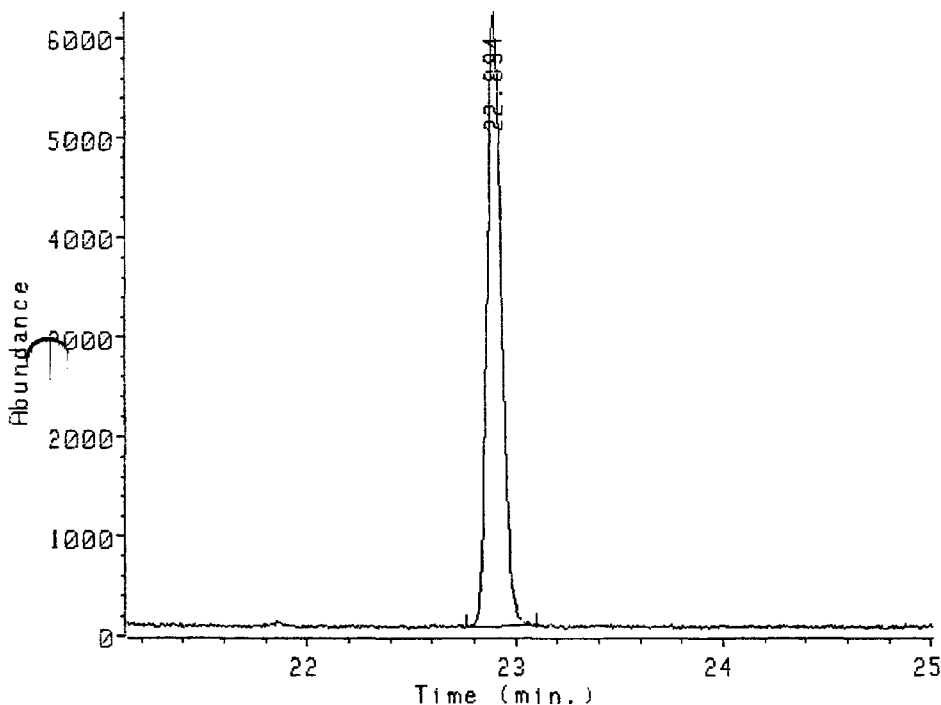
03220770

Name Info: 2127
Misc Info:
Operator: TMS

Date : 2 Aug 88 2:48 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 13
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC13A.D



Ion 333.80 amu. from DATA:4HERC13A.D
2127

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.894	BB	0.071	299250	22.758	23.100

000000020555

Data file: DATA:4HERC14A.D
File type: GC / MS DATA FILE

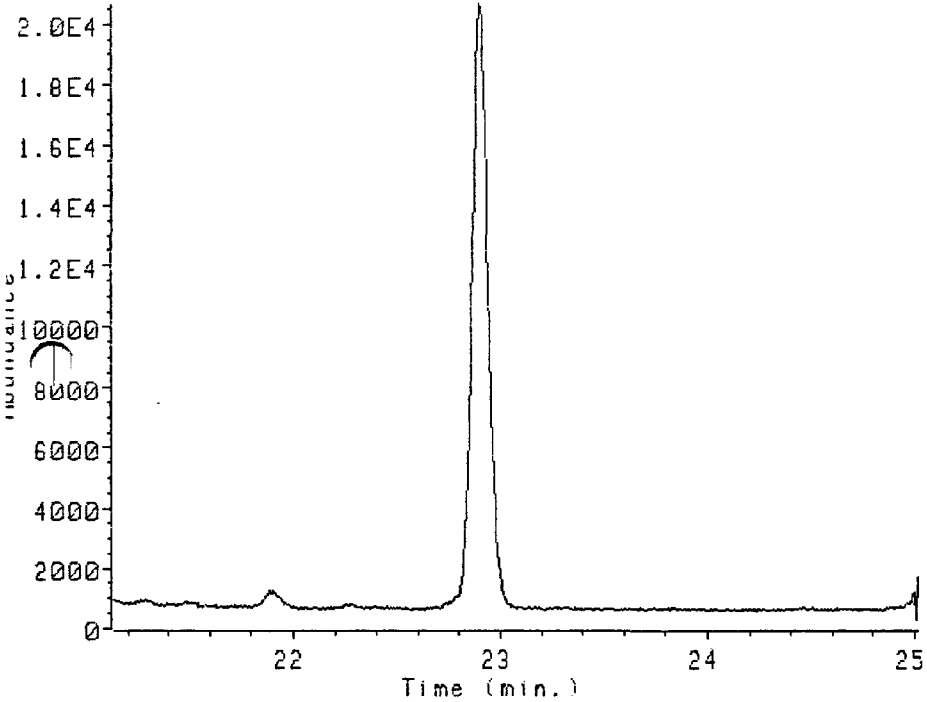
Name Info: 2128
Misc Info:
Operator : TMS

3 1408

Date : 2 Aug 88 3:21 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 14
Replicate num : 1

TIC of DATA:4HERC14A.D



000000020556

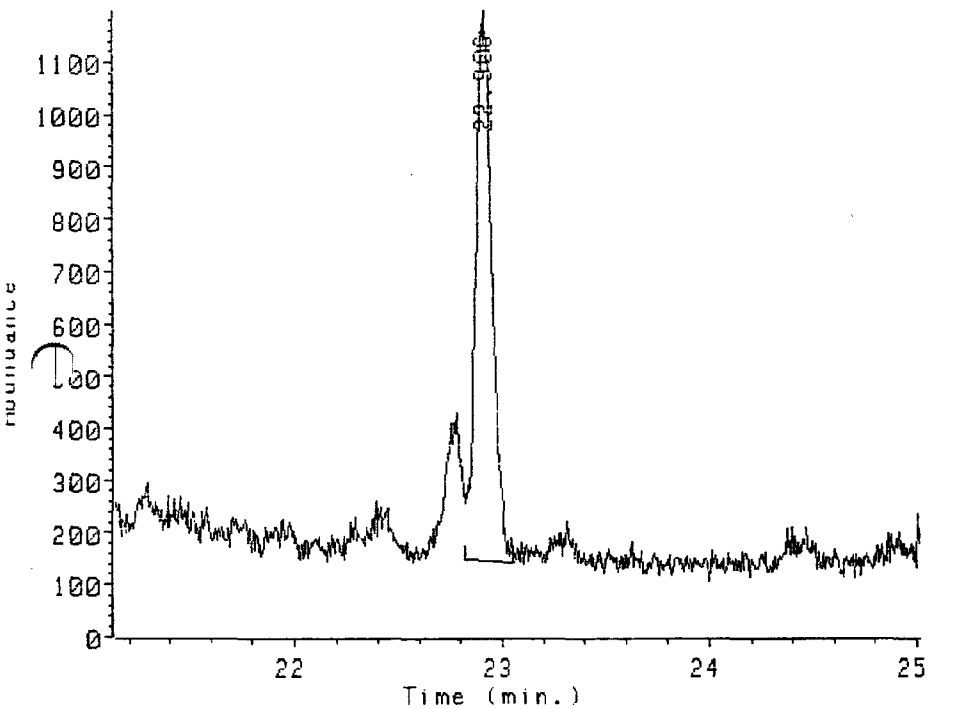
03220772

Name Info: 2128
Misc Info:
Operator : TMS

Date : 2 Aug 88 3:21 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 14
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC14A.D



on 258.90 amu. from DATA:4HERC14A.D
128

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.906	VB	0.082	58778	22.819	23.057

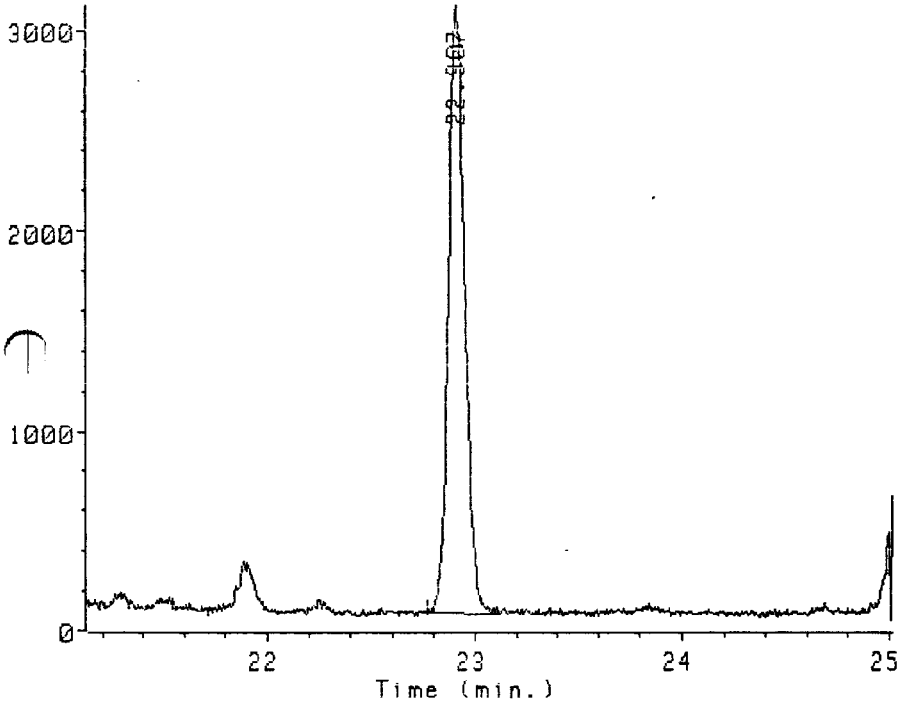
0020557

Name Info: 2128
Misc Info:
Operator: TMS

Date : 2 Aug 88 3:21 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 14
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC14A.D



Ion 319.90 amu. from DATA:4HERC14A.D
128

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.907	BB	0.085	169164	22.764	23.118

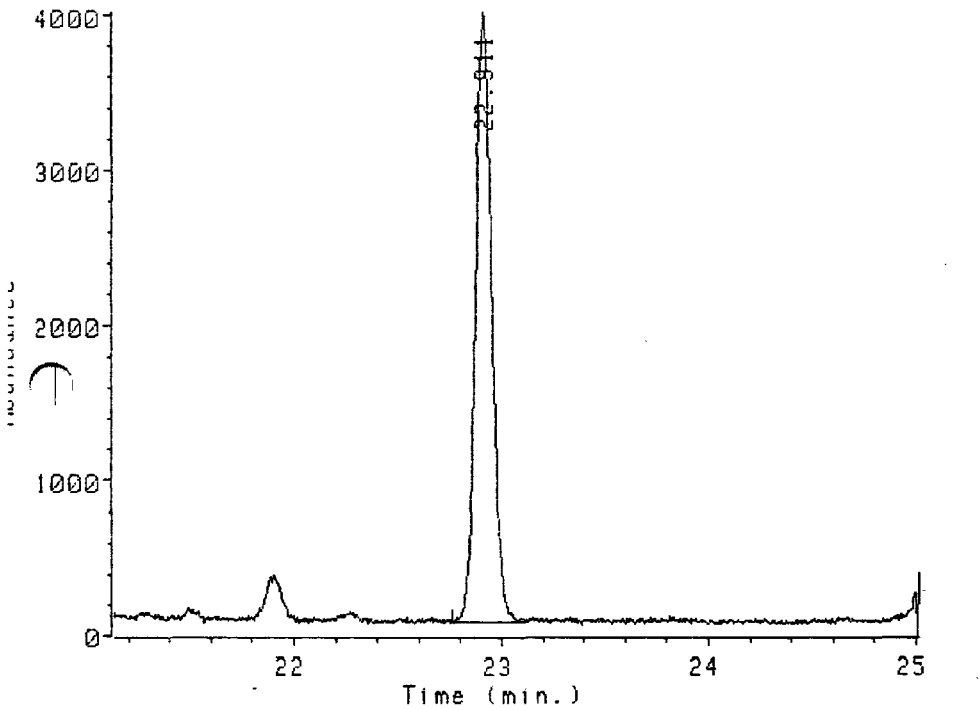
00000000020558

Name Info: 2128
Misc Info:
Operator : TMS

Date : 2 Aug 88 3:21 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 14
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC14A.D



000000020559

Ion 321.90 amu. from DATA:4HERC14A.D
128

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.911	BB	0.088	217412	22.761	23.130

Data file: DATA:4HERC14A.D
File type: GC / MS DATA FILE

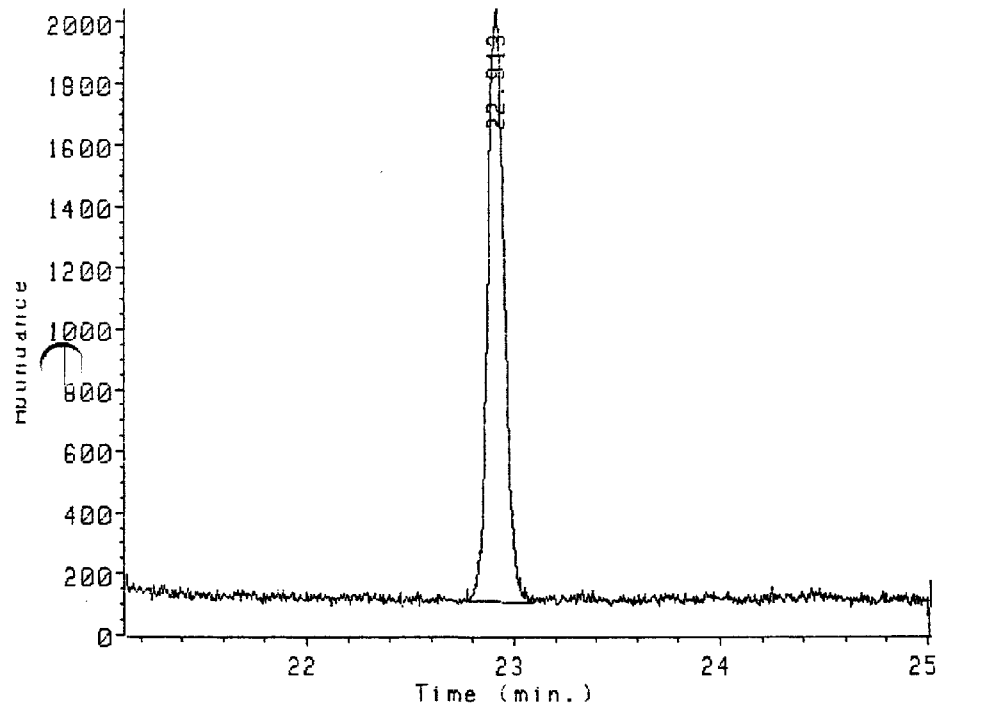
3 1412

Name Info: 2128
Misc Info:
Operator : TMS

Date : 2 Aug 88 3:21 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 14
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC14A.D



000000020560

on 327.90 amu. from DATA:4HERC14A.D
128

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.913	BB	0.087	108960	22.776	23.099

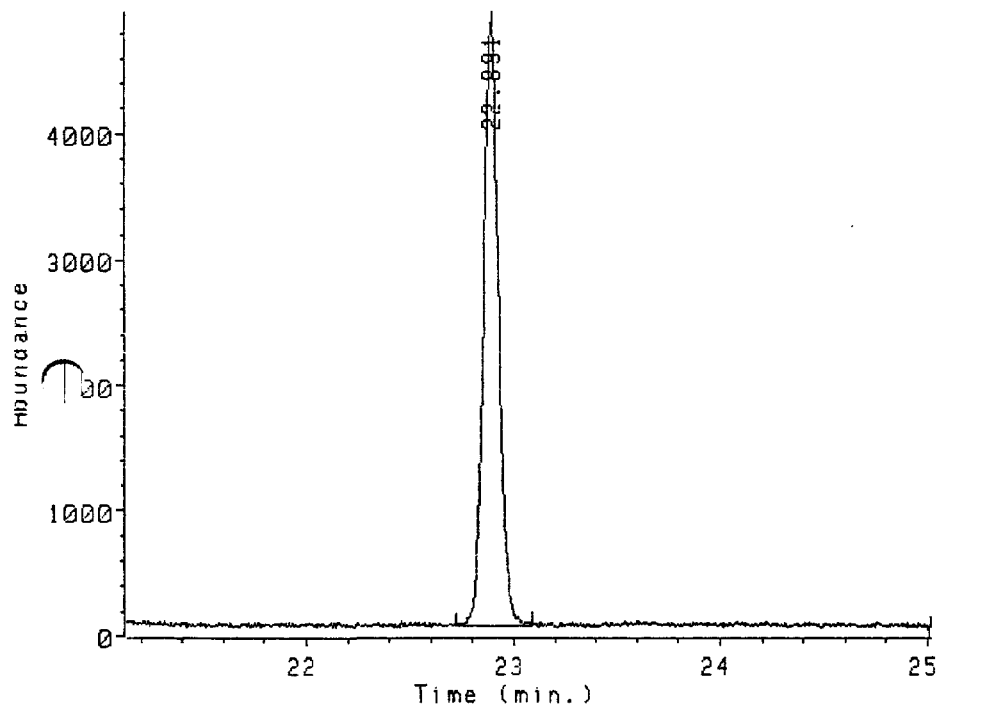
03220776

Name Info: 2128
Misc Info:
Operator : TMS

Date : 2 Aug 88 3:21 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 14
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC14A.D



0000000020561

Ion 331.80 amu. from DATA:4HERC14A.D
128

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.891	BB	0.077	243872	22.725	23.087

Data file: DATA:4HERC14A.D
File type: GC / MS DATA FILE

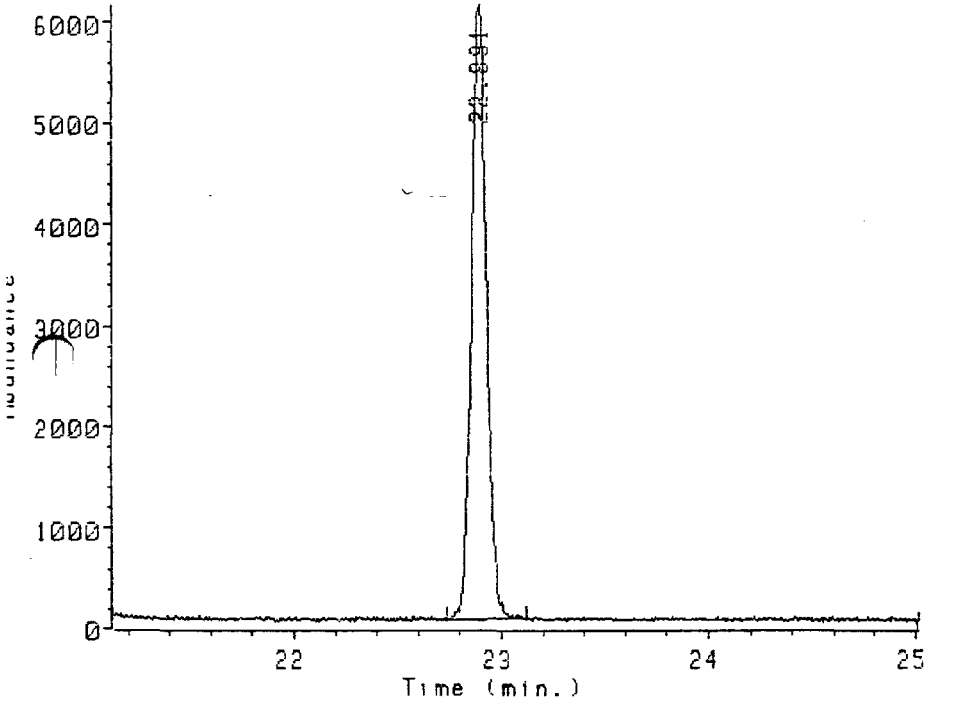
3 1414

Name Info: 2128
Misc Info:
Operator : TMS

Date : 2 Aug 88 3:21 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 14
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC14A.D



0000001020562

Ion 333.80 amu. from DATA:4HERC14A.D
128

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.891	BB	0.077	310731	22.740	23.118

03220778

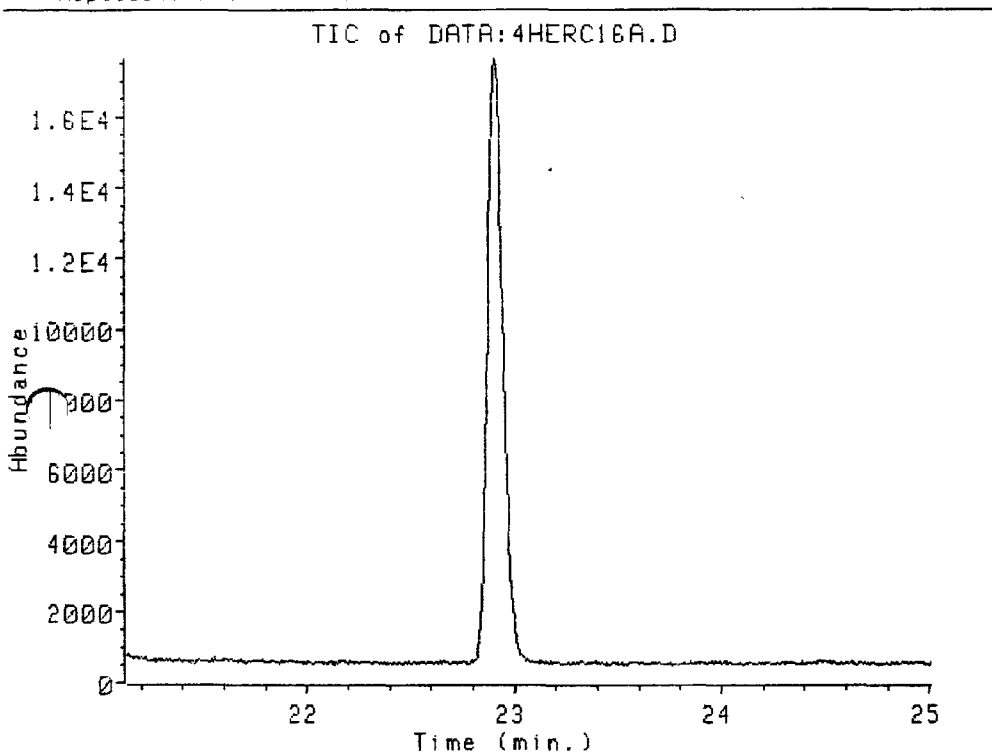
Data file: DATA:4HERC16A.D
File type: GC / MS DATA FILE

3 1415

Name Info: 2287
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:29 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 16
Replicate num : 1



020563

03220779

Date file: DATA:4HERC16A.D
File type: GC / MS DATA FILE

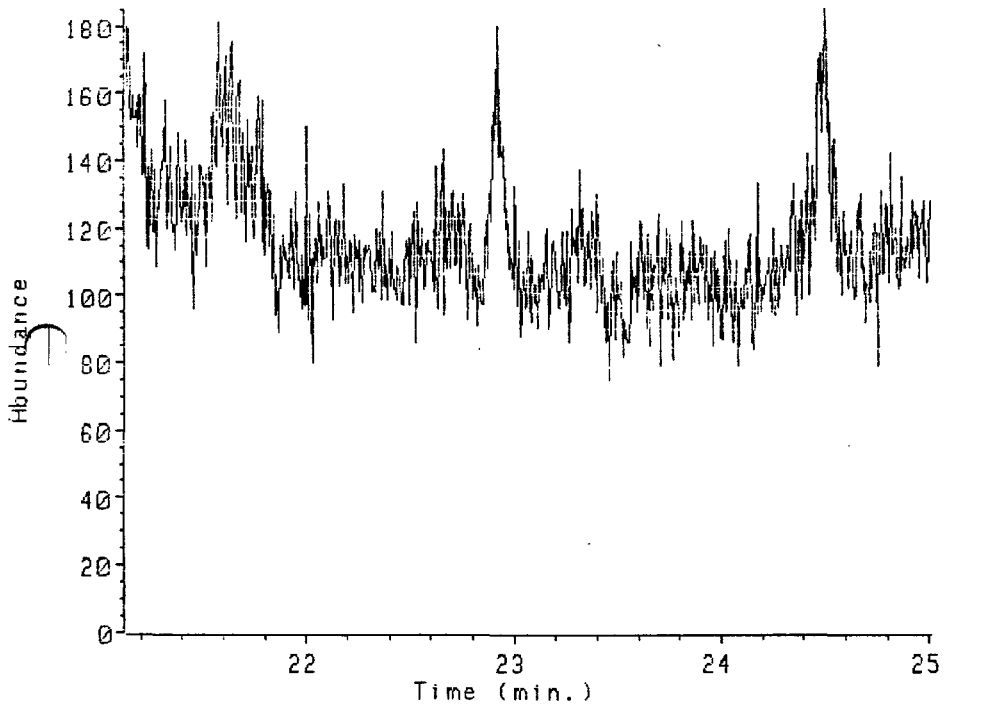
3 1416

Name Info: 2287
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:29 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 16
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC16A.D



Ion 258.90 amu. from DATA:4HERC16A.D
2287

No peaks detected

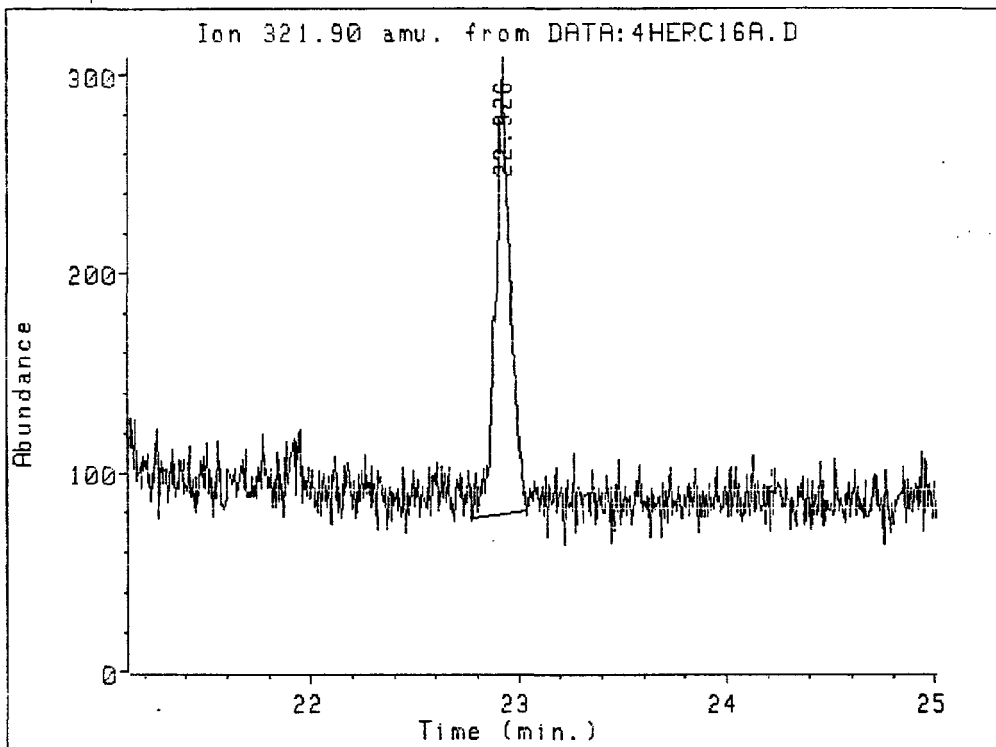
000000020564

03220780

Name Info: 2287
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:29 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 16
Replicate num : 1



Ion 321.90 amu. from DATA:4HERC16A.D
2287

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.926	UV	0.066	11503	22.777	23.042

020565

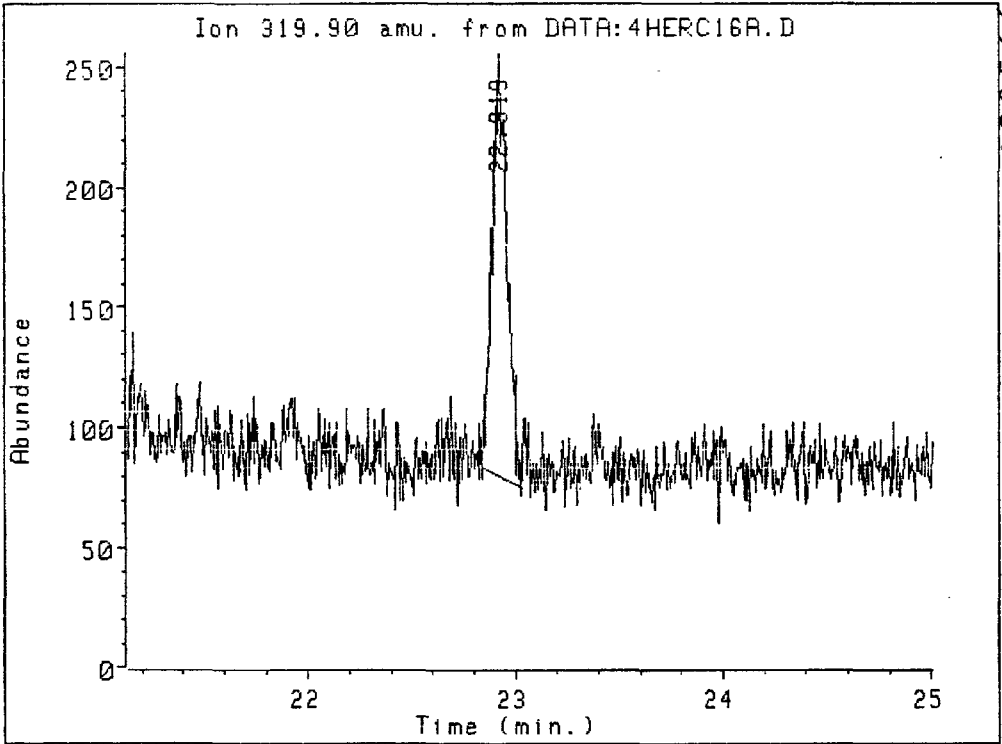
Data file: DATA:4HERC16A.D
File type: GC / MS DATA FILE

3 1418

Name Info: 2287
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:29 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 16
Replicate num : 1



Ion 319.90 amu. from DATA:4HERC16A.D
2287

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.919	BV	0.071	8758	22.835	23.030

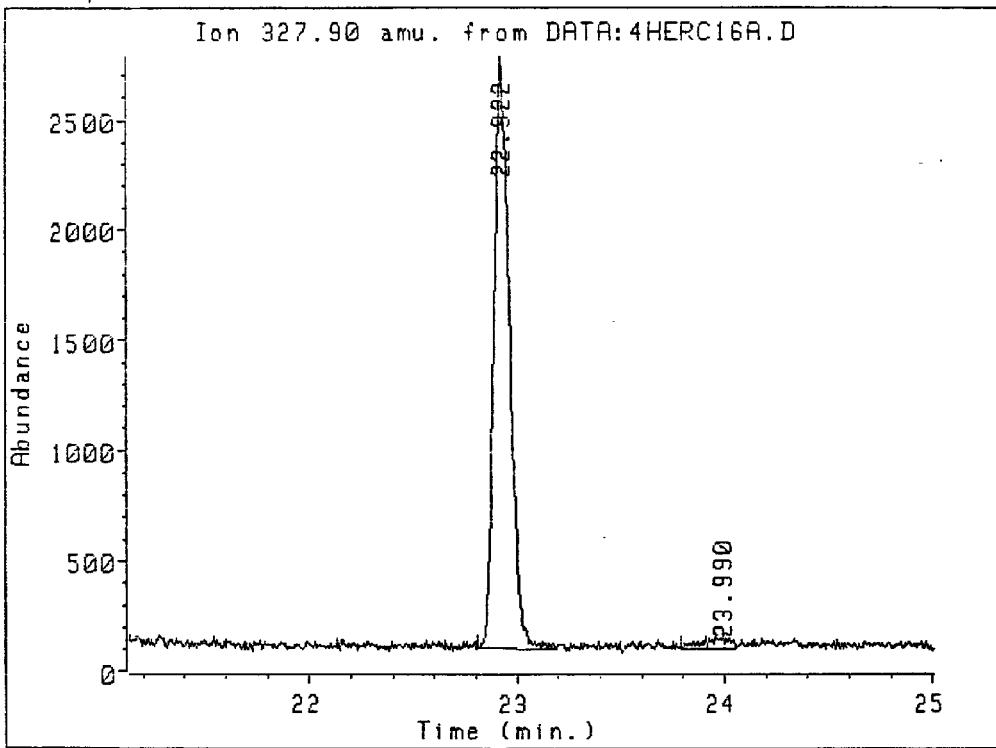
020566

03220782

Name Info: 2287
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:29 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 16
Replicate num : 1



Ion 327.90 amu. from DATA:4HERC16A.D
2287

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.922	BV	0.078	141580	22.810	23.191
2	23.990	BV	0.144	4693	23.791	24.053

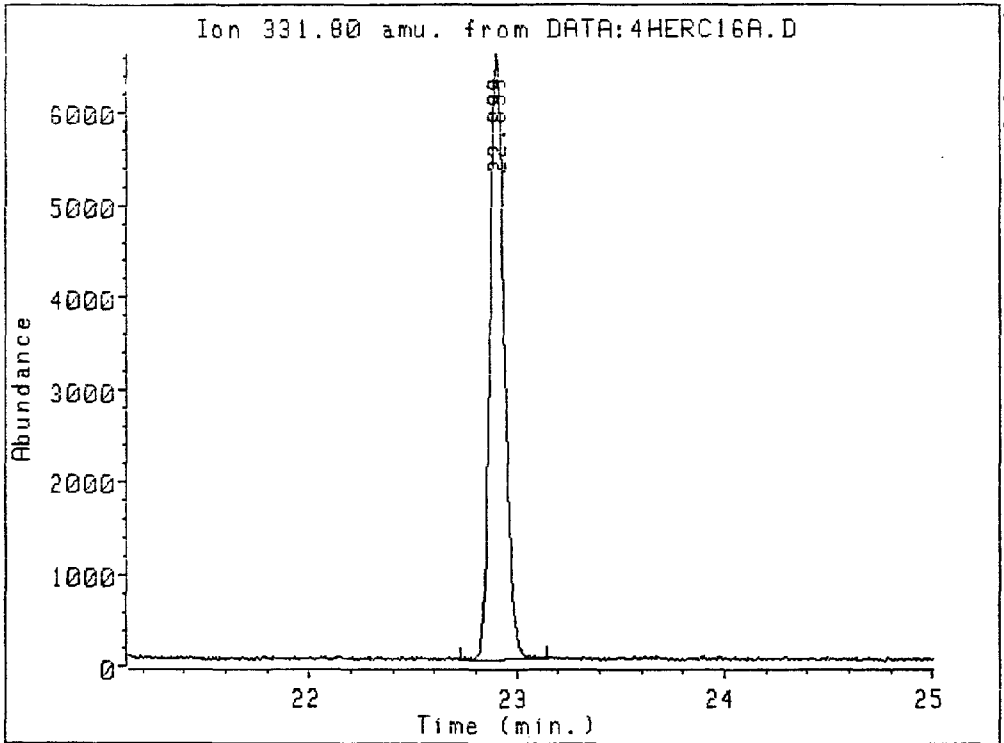
Data file: DATA:4HERC16A.D
File type: GC / MS DATA FILE

3 1420

Name Info: 2287
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:29 am
Instrmt: MS_5970
inlet : GC

Sequence index : 3
Als bottle num : 16
Replicate num : 1



020568

Ion 331.80 amu. from DATA:4HERC16A.D
2287

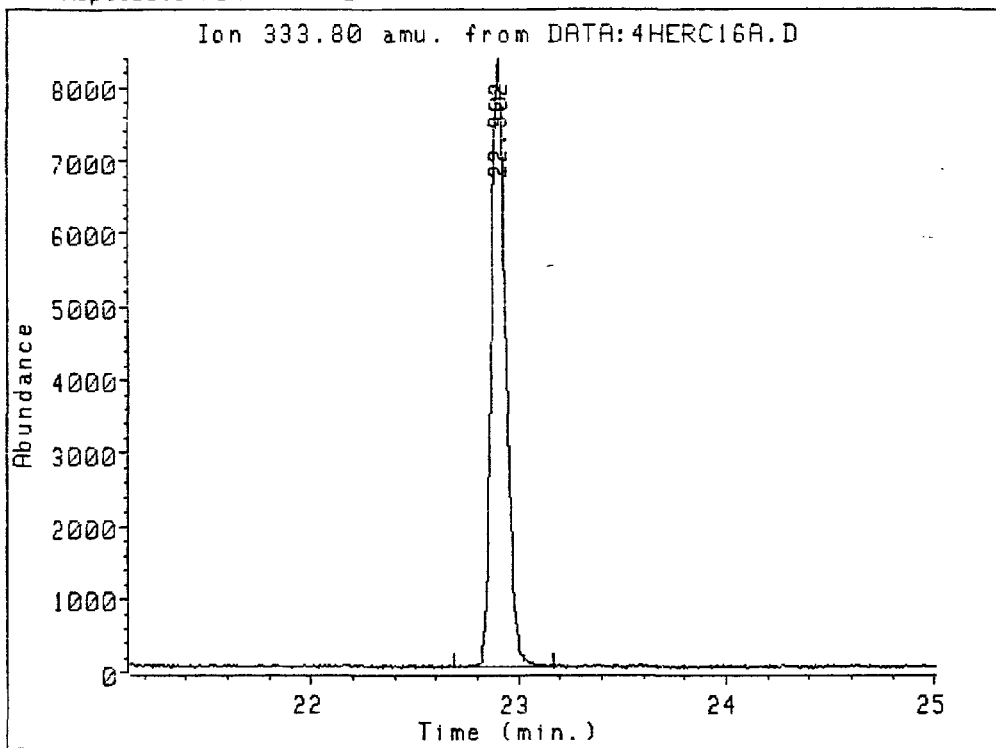
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.899	BU	0.077	324317	22.725	23.142

03220784

Name Info: 2287
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:29 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 1c
Replicate num : 1



0000000020569

Ion 333.80 amu. from DATA:4HERC16A.D
2287

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.902	UV	0.076	412133	22.685	23.167

Name Info: 2289

Misc Info:

Operator : TMS

Date : 2 Aug 88 5:02 am

Instrument: MS_5970

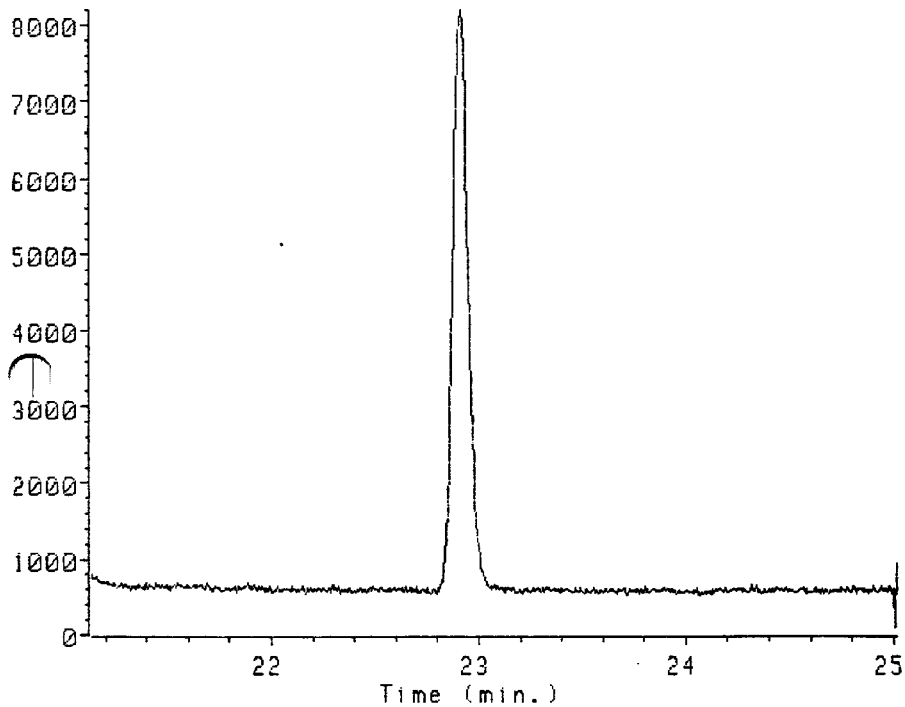
Inlet : GC

Sequence index : 3

Als bottle num : 17

Replicate num : 1

TIC of DATA:4HERC17A.D



020570

Data file: DATA:4HERC17A.D
File type: GC / MS DATA FILE

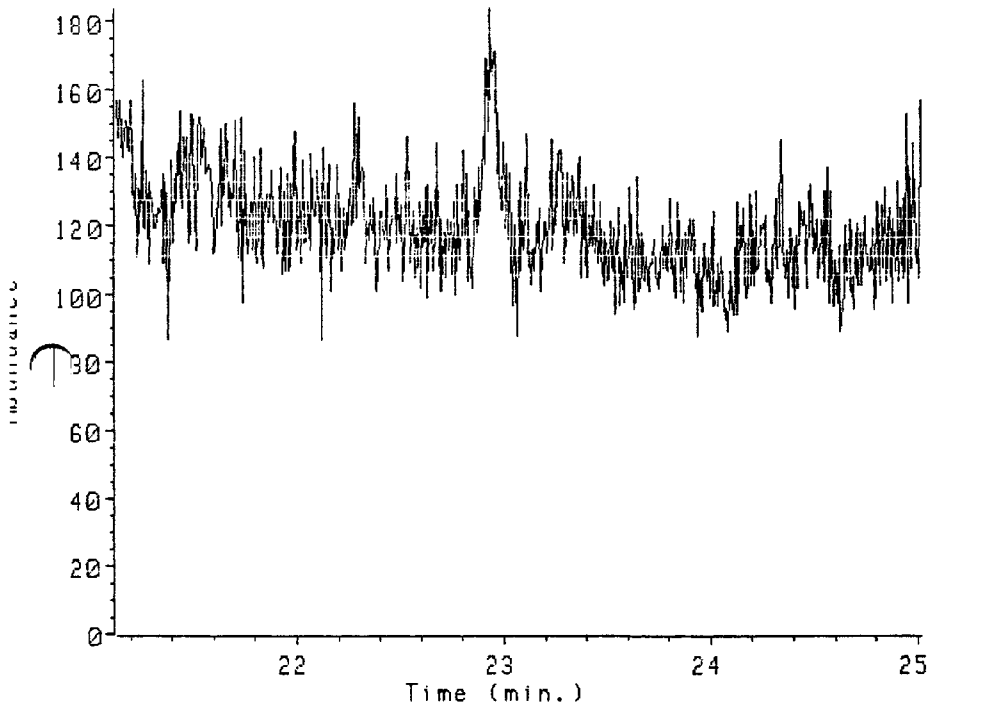
3 1423

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 17
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC17A.D



Ion 258.90 amu. from DATA:4HERC17A.D
289

0 peaks detected

020571

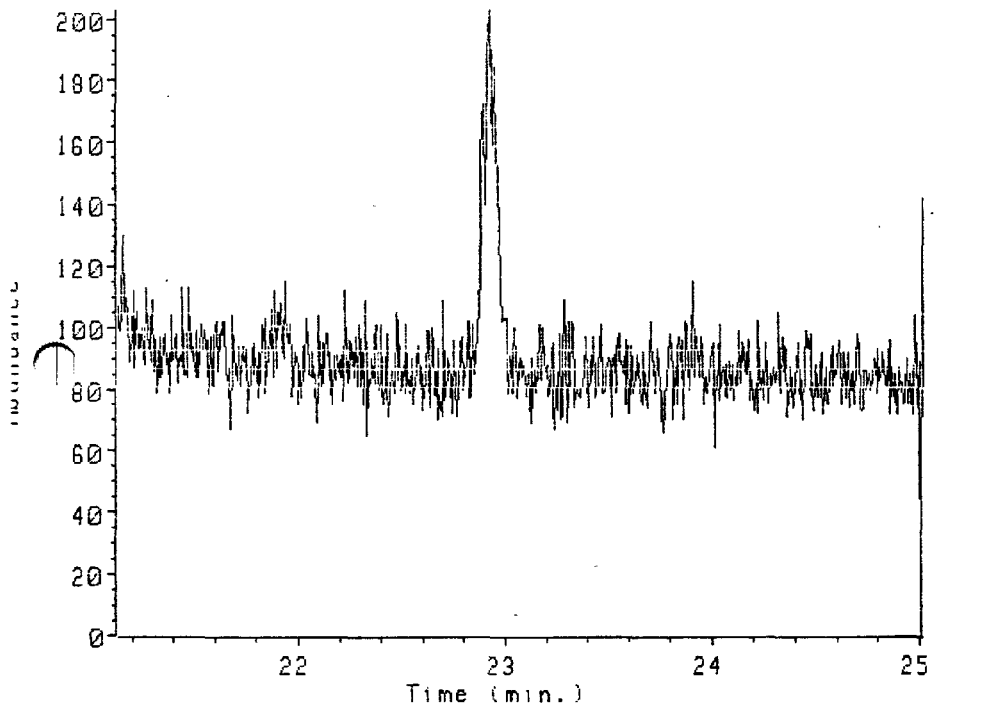
03220787

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 17
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC17A.D



Ion 319.90 amu. from DATA:4HERC17A.D
289

0 peaks detected

020572

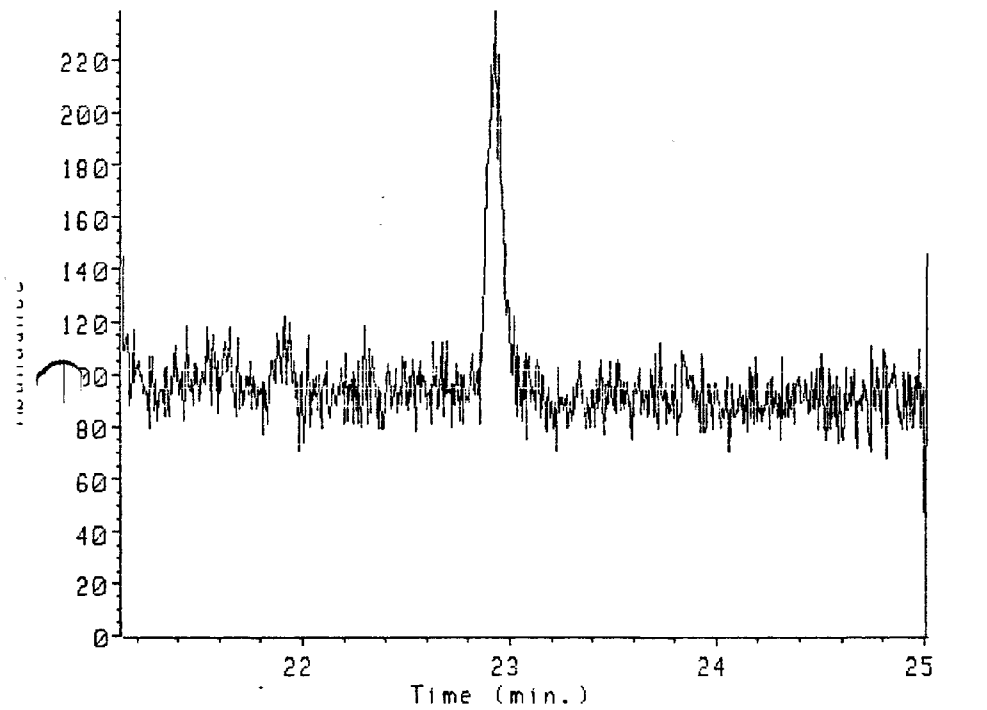
3 1425

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 17
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC17A.D



000000 020573

Ion 321.90 amu. from DATA:4HERC17A.D
289

0 peaks detected

03220789

Data file: DATA:4HERC17A.D
File type: GC / MS DATA FILE

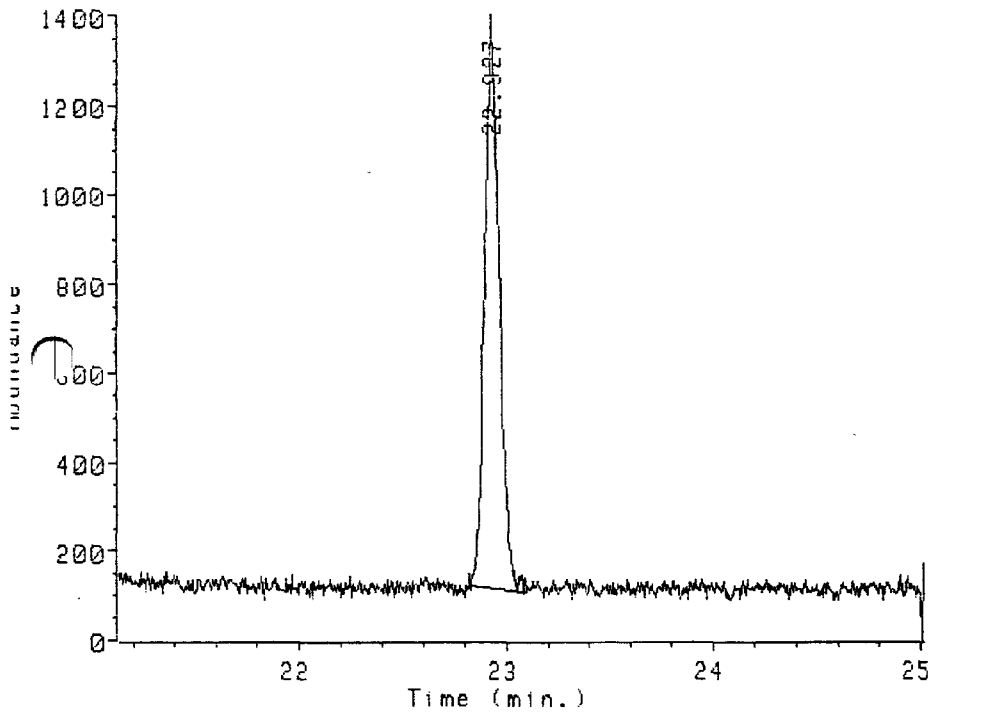
3 1426

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 17
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC17A.D



Ion 327.90 amu. from DATA:4HERC17A.D
289

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.927	BB	0.075	63177	22.816	23.087

000000020574

03220790

Data file: DATA:4HERC17A.D
File type: GC / MS DATA FILE

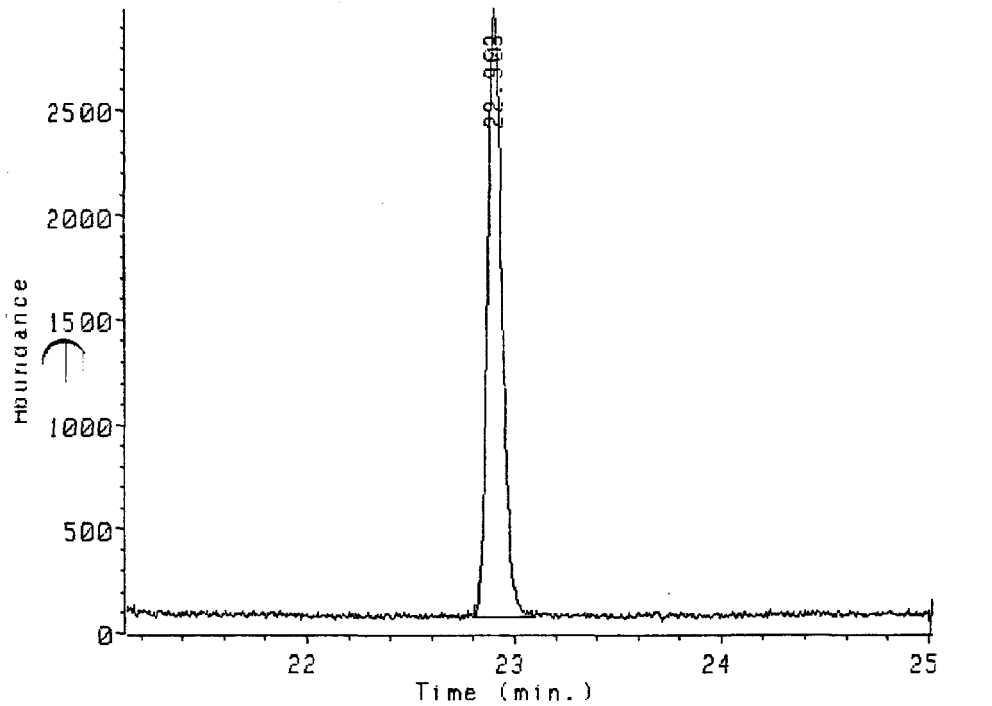
3 1427

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 17
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC17A.D



000000020575

on 331.80 amu. from DATA:4HERC17A.D
289

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.903	BB	0.078	143909	22.801	23.099

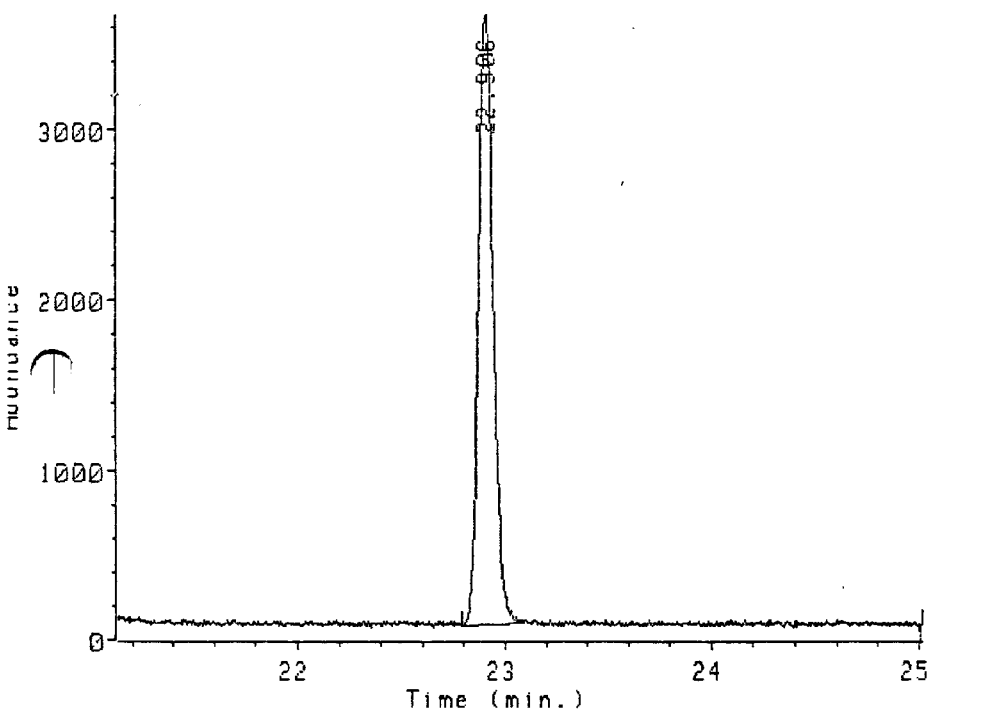
03220791

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 17
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC17A.D



Ion 333.80 amu. from DATA:4HERC17A.D
289

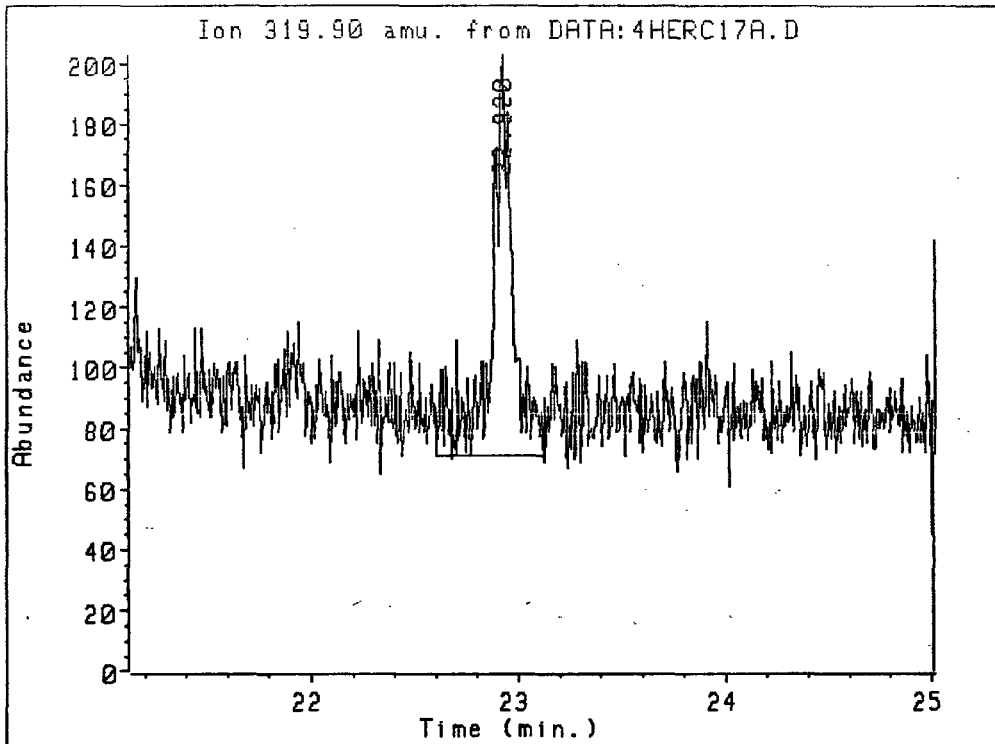
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.906	BB	0.079	181243	22.792	23.087

000000020576

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 17
Replicate num : 1



000000020577

Ion 319.90 amu. from DATA:4HERC17A.D
2289

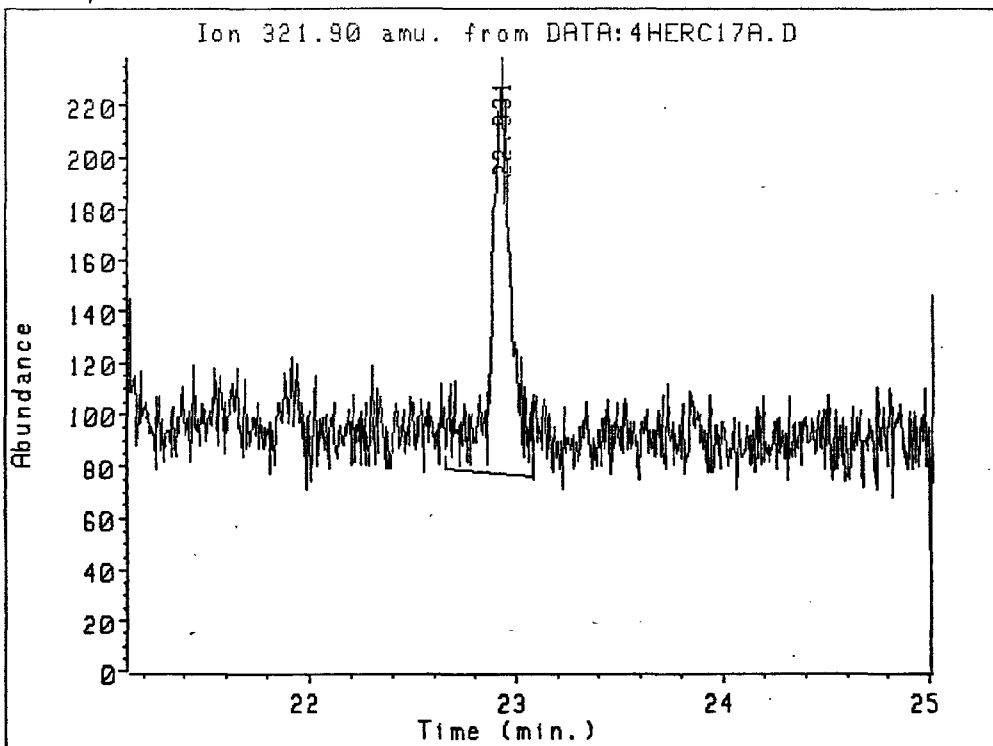
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.920	UB	0.101	9838	22.600	23.124

3 1430

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 17
Replicate num : 1



Ion 321.90 amu. from DATA:4HERC17A.D
2289

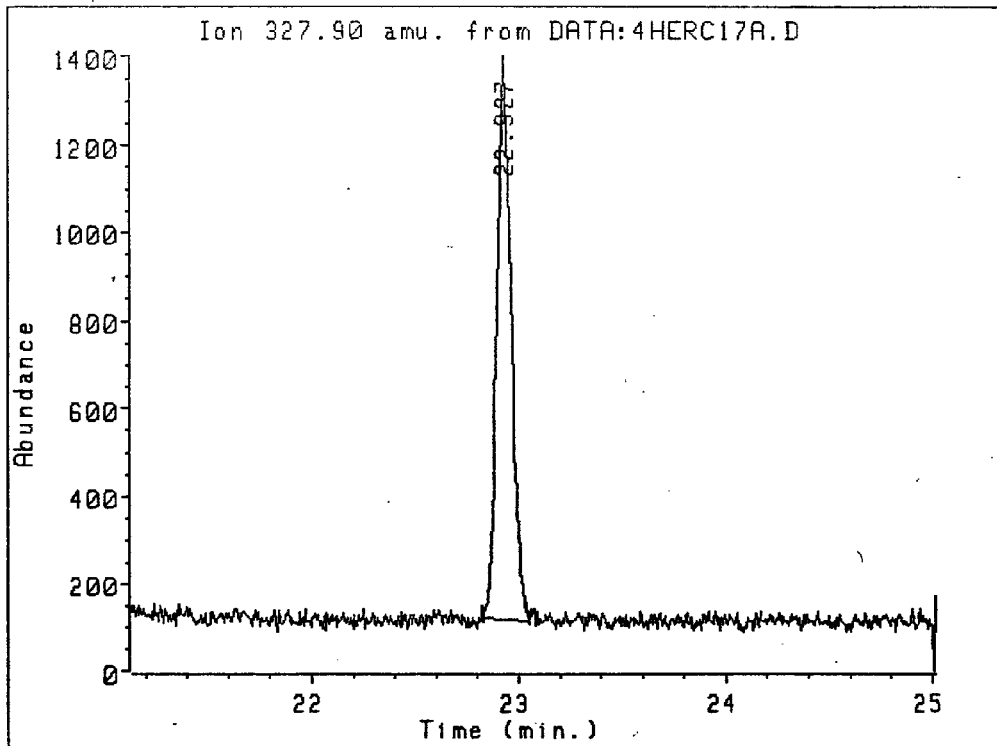
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.931	UB	0.091	11029	22.658	23.081

020578

Name Info: 2289
Misc Info:
Operator: THS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 17
Replicate num : 1



000000020579

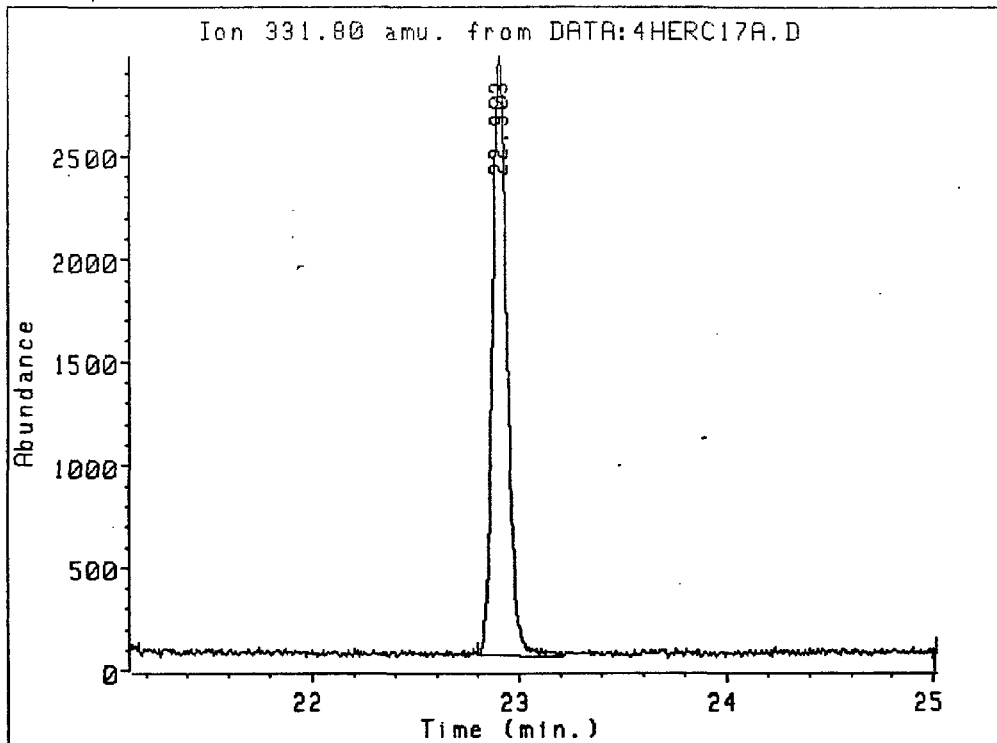
Ion 327.90 amu. from DATA:4HERC17A.D
2289

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.927	BV	0.075	62418	22.816	23.051

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 17
Replicate num : 1



0020580

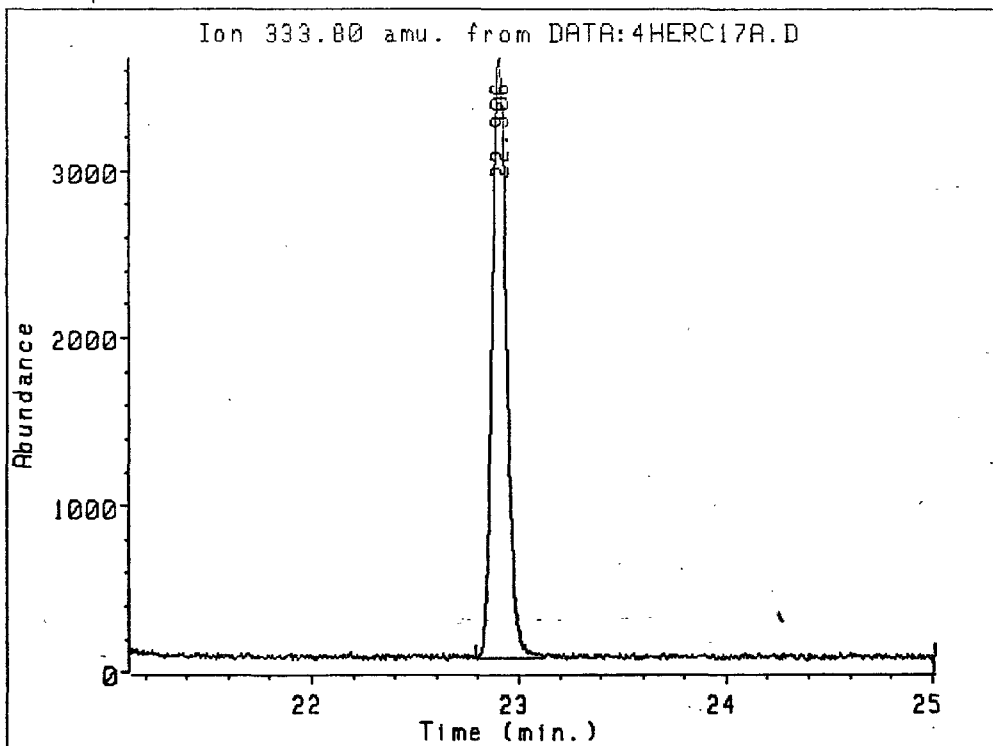
Ion 331.80 amu. from DATA:4HERC17A.D
2289

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.903	PV	0.078	145378	22.800	23.209

Name Info: 2289
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:02 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 17
Replicate num : 1



Ion 333.80 amu. from DATA:4HERC17A.D
2289

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.906	BU	0.080	182600	22.792	23.130

000000020581

Name Info: 2305

Misc Info:

Operator : TMS

Date : 2 Aug 88 5:36 am

Instrument: MS_5970

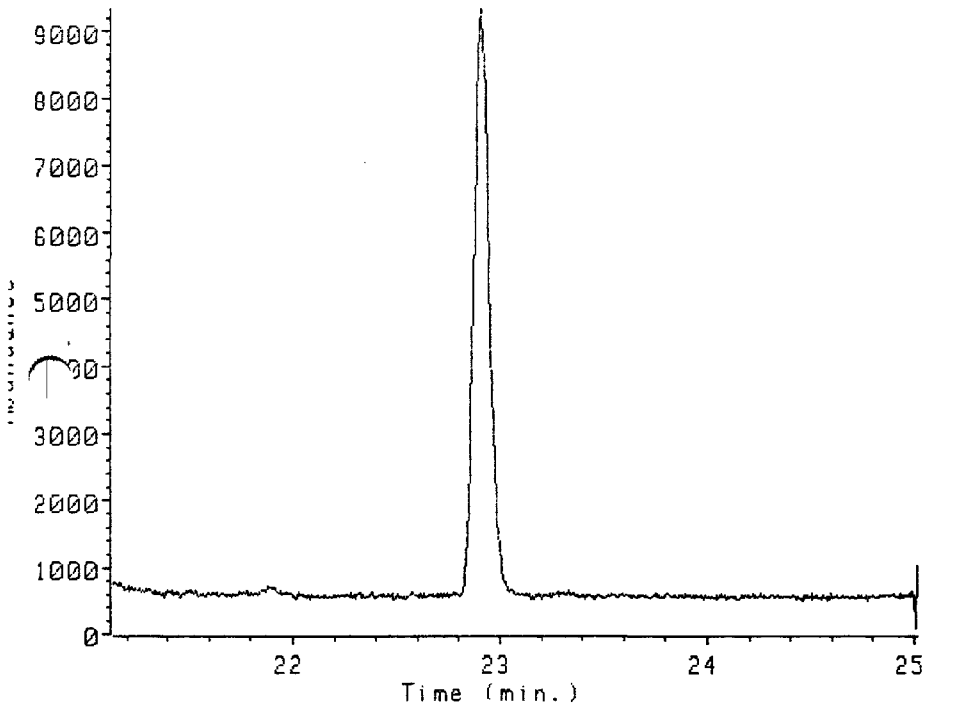
Inlet : GC

Sequence index : 3

Als bottle num : 18

Replicate num : 1

TIC of DATA:4HERC18A.D



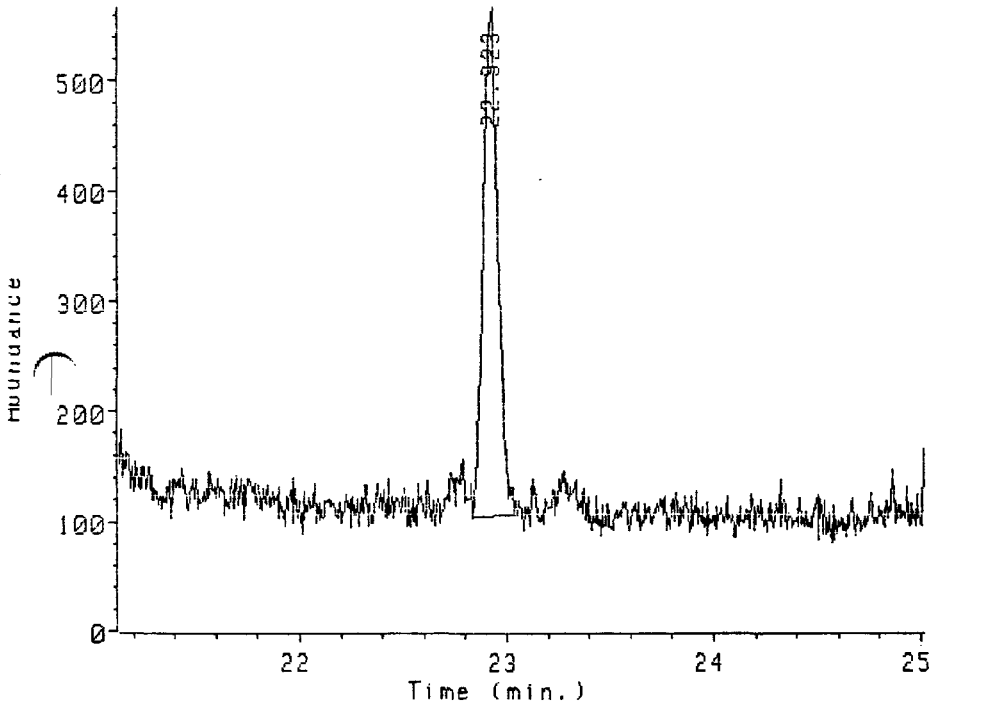
000000020582

Name Info: 2305
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:36 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 18
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC18A.D



Ion 258.90 amu. from DATA:4HERC18A.D
305

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.923	BB	0.072	22704	22.837	23.038

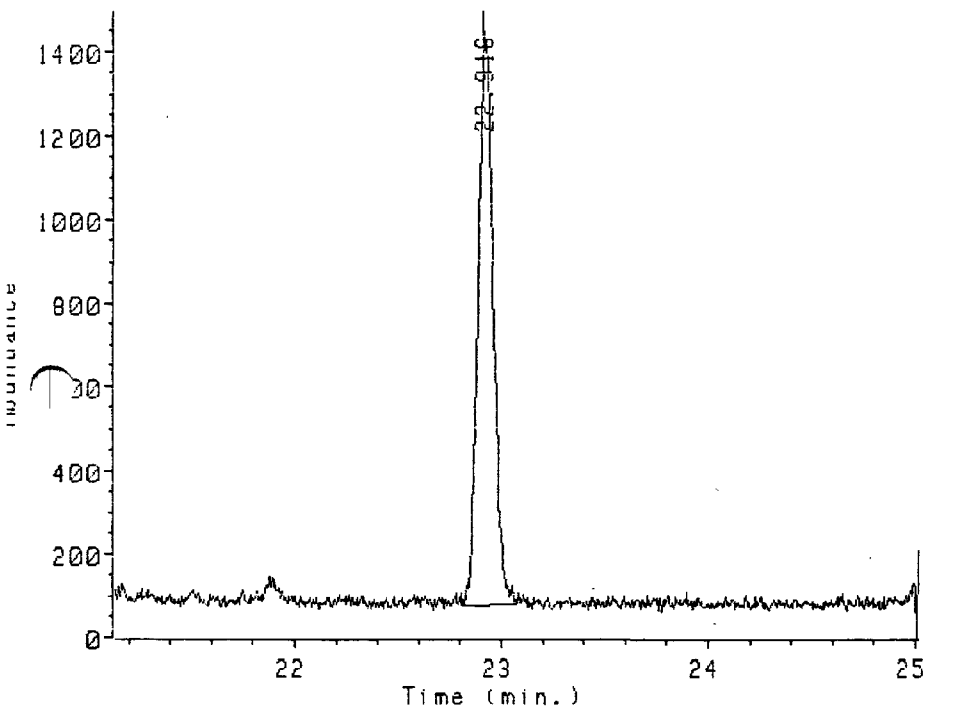
000000020583

Name Info: 2305
Misc Info:
Operator : TMS

te : 2 Aug 88 5:36 am
instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 18
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC18A.D



020584

Ion 319.90 amu. from DATA:4HERC18A.D
305

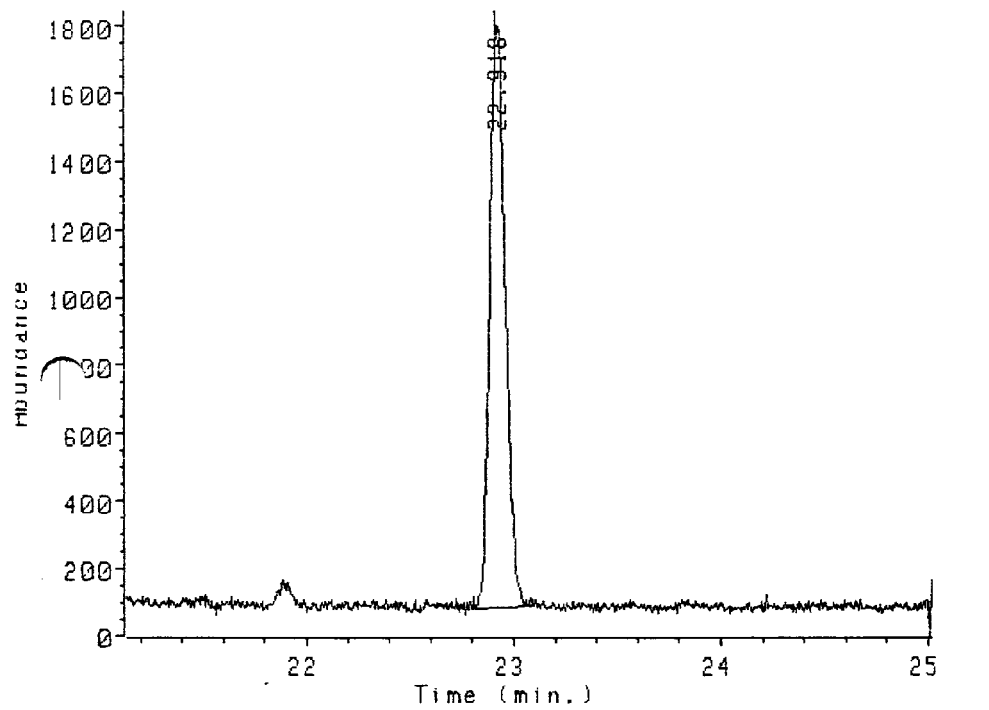
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.916	BB	0.071	70570	22.804	23.075

Name Info: 2305
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:36 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 18
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC18A.D



020585

on 321.90 amu. from DATA:4HERC18A.D
305

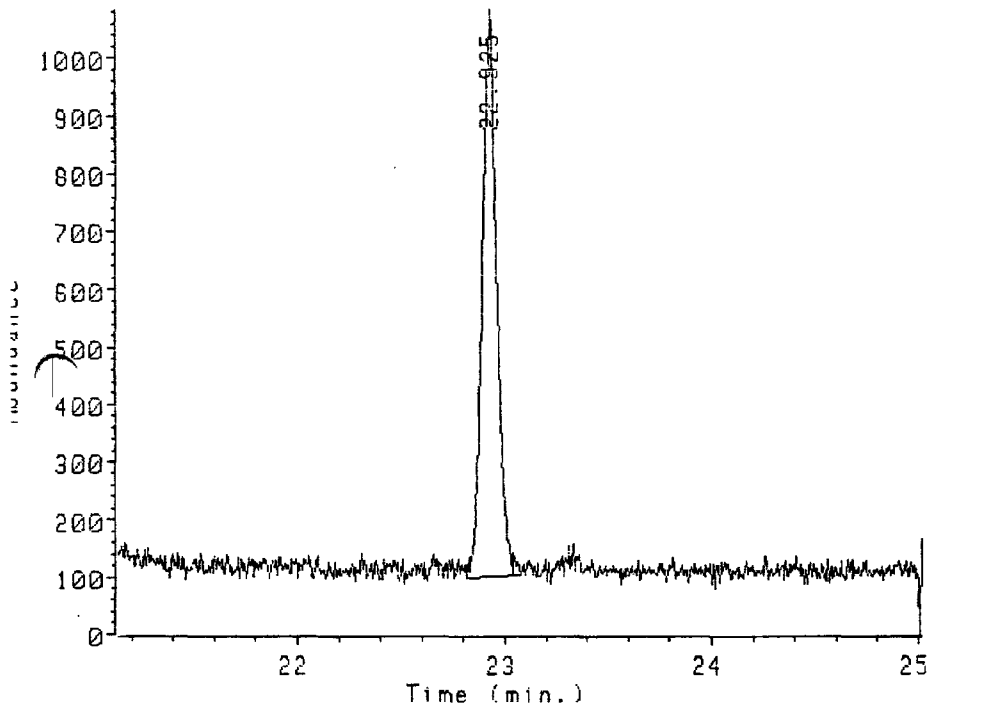
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.918	BB	0.081	90729	22.801	23.093

Name Info: 2305
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:36 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 18
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC18A.D



Ion 327.90 amu. from DATA:4HERC18A.D
305

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.925	BB	0.070	47786	22.813	23.075

020586

Name Info: 2305

Misc Info:

Operator : TMS

Date : 2 Aug 88 5:36 am

Instrnt: MS_5970

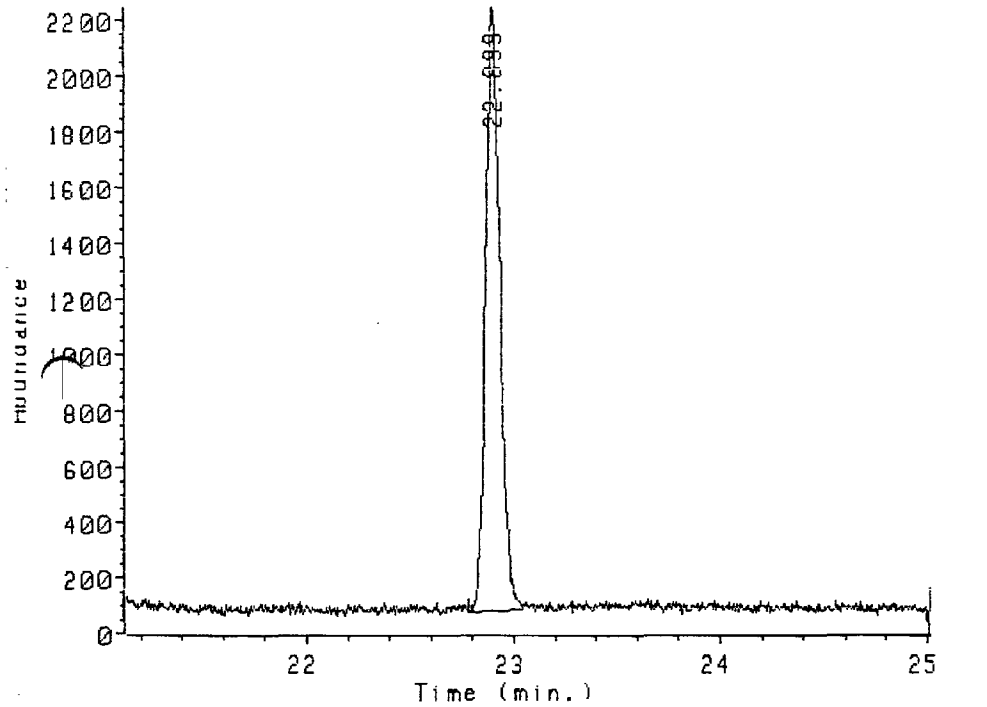
Inlet : GC

Sequence index : 3

Als bottle num : 18

Replicate num : 1

Ion 331.80 amu. from DATA:4HERC18A.D



00000001020587

Ion 331.80 amu. from DATA:4HERC18A.D
305

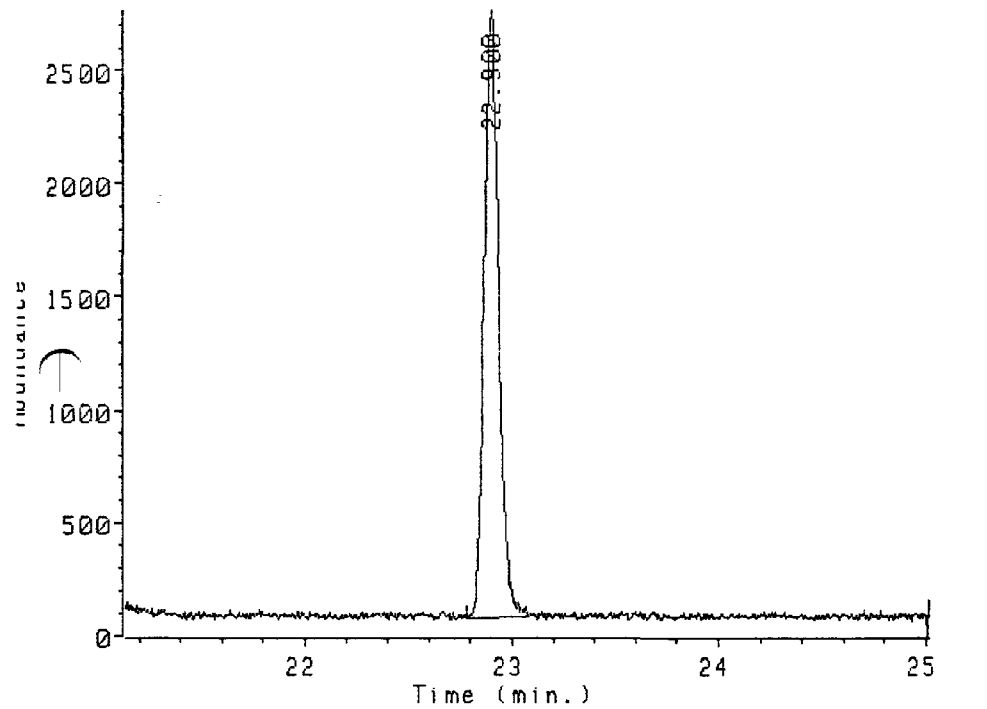
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.899	BB	0.074	103635	22.785	23.044

Name Info: 2305
Misc Info:
Operator : TMS

Date : 2 Aug 88 5:36 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 18
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC18A.D



Ion 333.80 amu. from DATA:4HERC18A.D
305

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.900	BB	0.074	130519	22.779	23.081

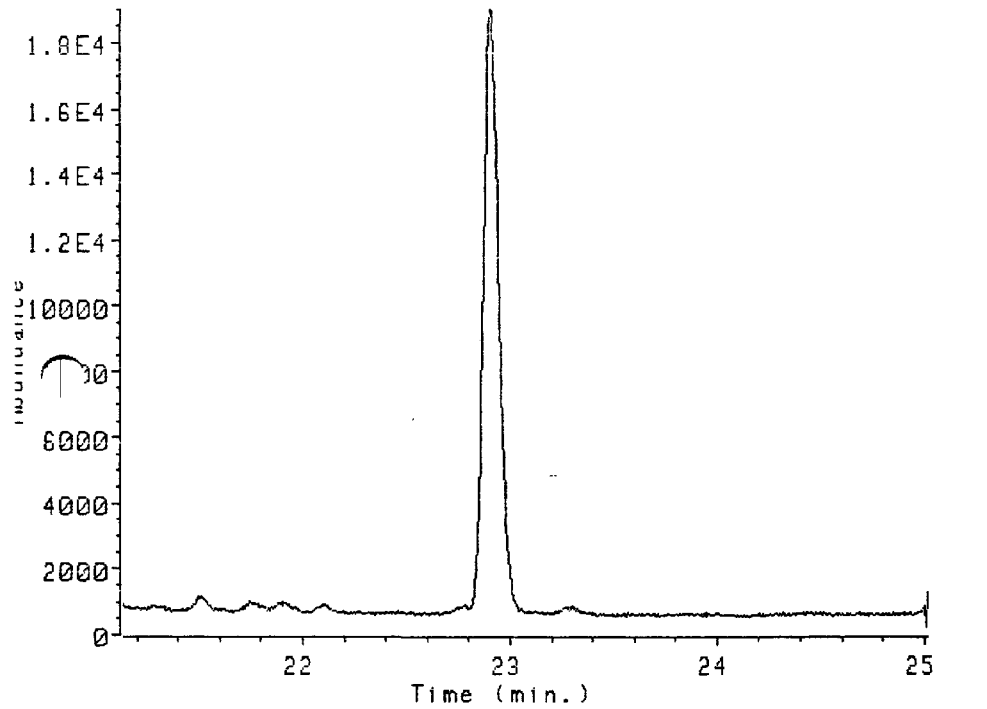
020588

Name Info: 2306
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:09 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 19
Replicate num : 1

TIC of DATA:4HERC19A.D



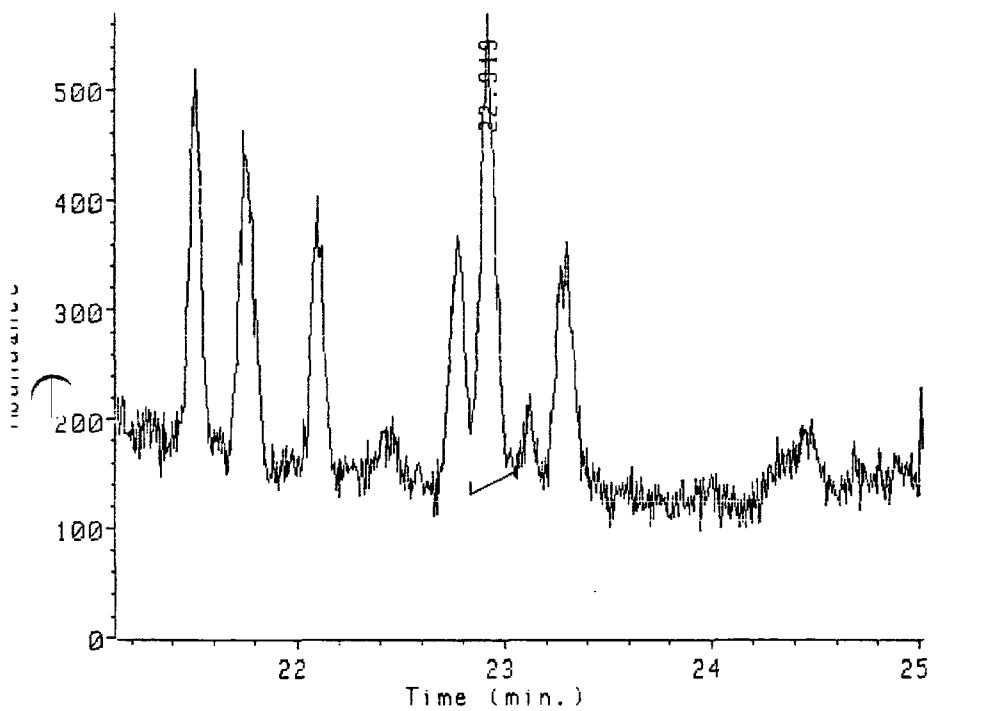
020589

Name Info: 2306
Misc Info:
Operator : TMS

te : 2 Aug 88 6:09 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 19
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC19A.D



Ion 258.90 amu. from DATA:4HERC19A.D
306

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.919	UB	0.067	21287	22.837	23.045

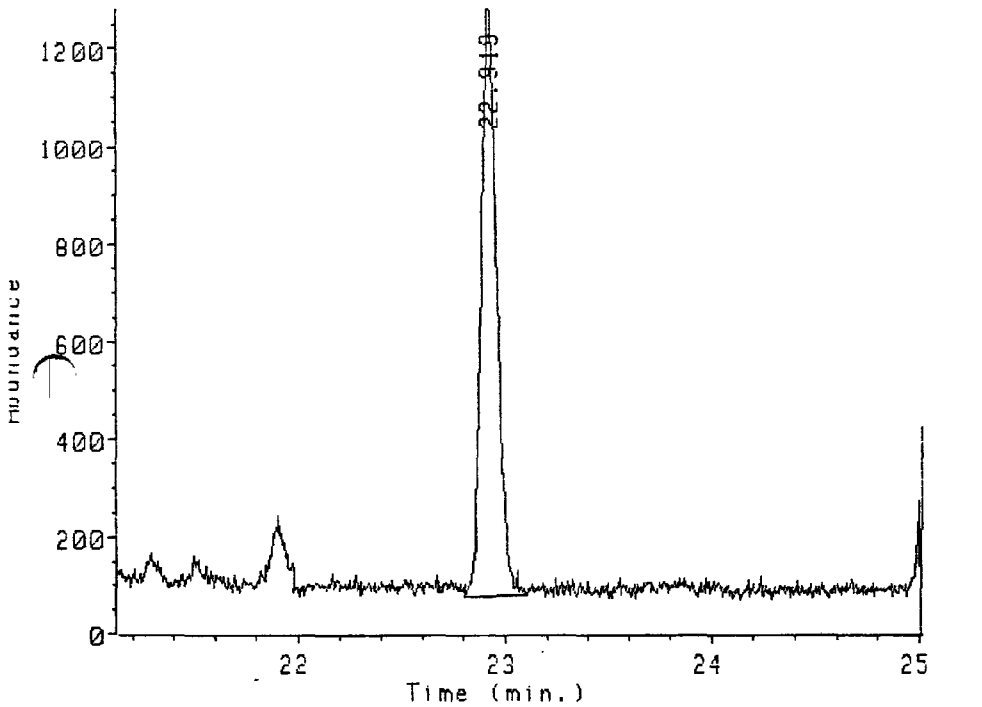
0000001020590

Name Info: 2306
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:09 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 19
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC19A.D



Ion 319.90 amu. from DATA:4HERC19A.D
306

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.919	BB	0.080	64145	22.804	23.106

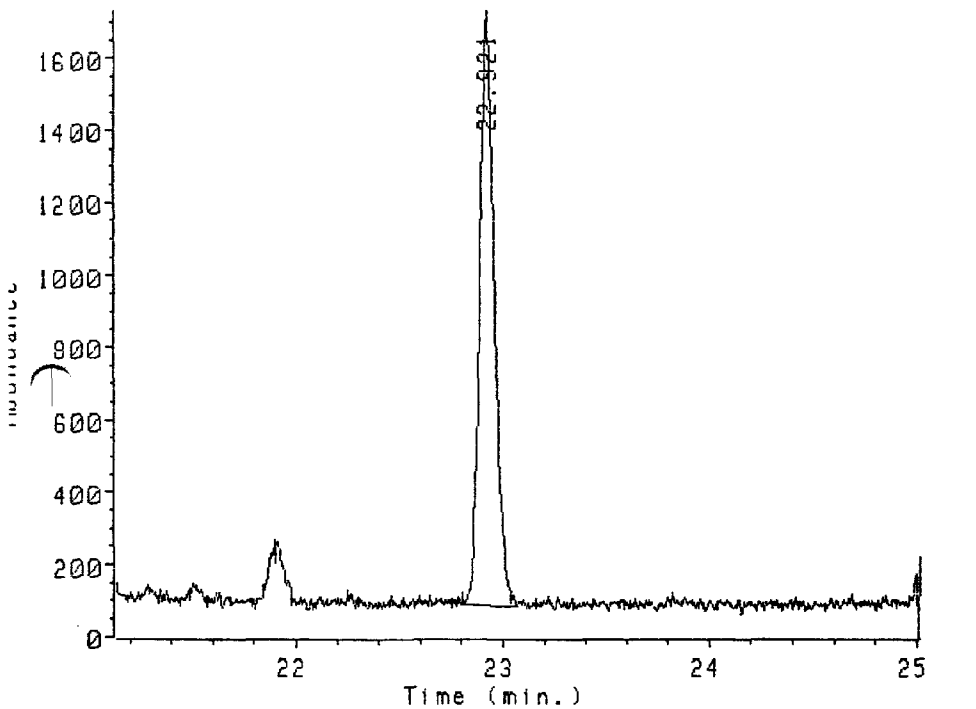
0000001020591

Name Info: 2306
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:09 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 19
Replicate num : 1

Ion 321.90 amu. from DATA:4HERC19A.D



Ion 321.90 amu. from DATA:4HERC19A.D
306

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.921	BB	0.075	81540	22.801	23.069

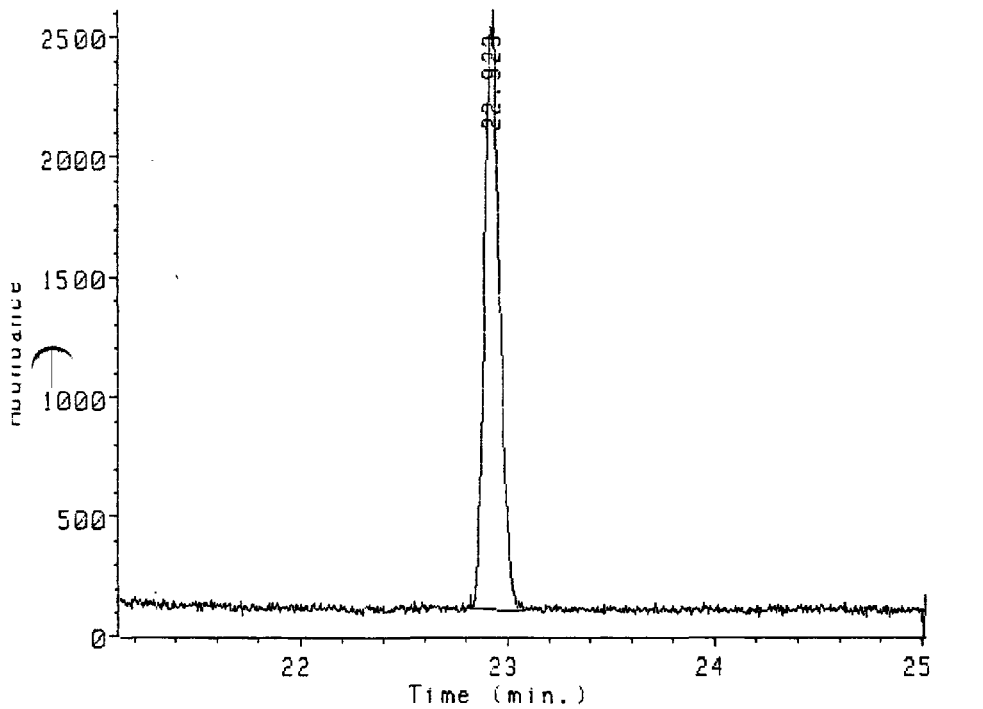
020592

Name Info: 2306
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:09 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 19
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC19A.D



Ion 327.90 amu. from DATA:4HERC19A.D
306

Peak#	Ret. Time	Type	Width	Area	Start Time	End Time
1	22.923	BB	0.077	128131	22.819	23.075

020593

Name Info: 2306

Misc Info:

Operator : TMS

Date : 2 Aug 88 6:09 am

Instrument: MS_5970

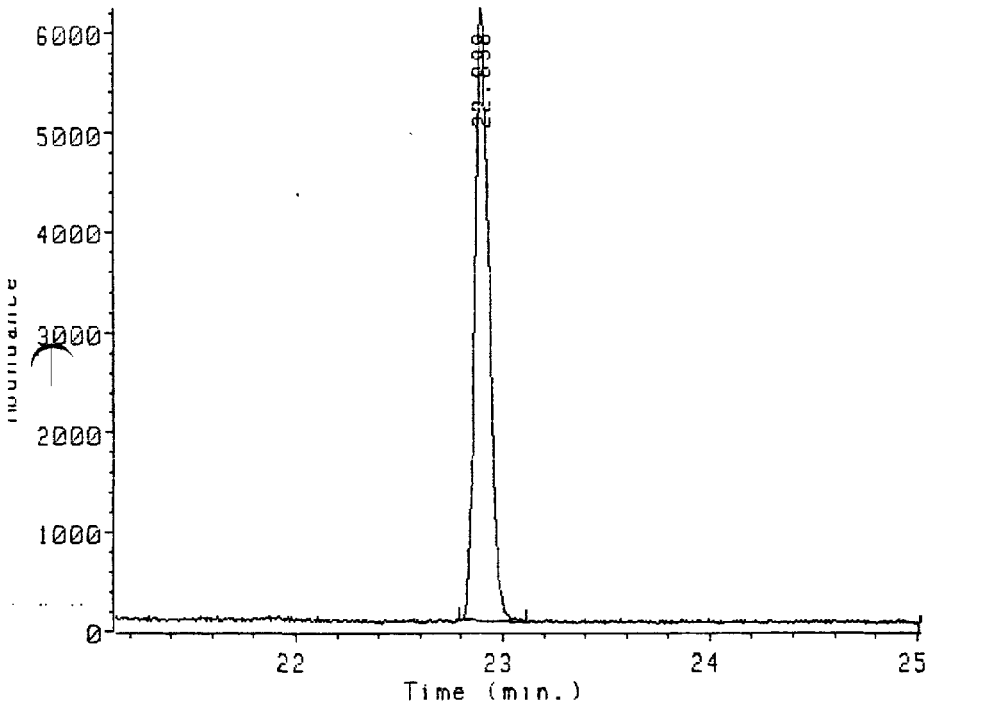
Inlet : GC

Sequence index : 3

Als bottle num : 19

Replicate num : 1

Ion 331.80 amu. from DATA:4HERC19A.D



Ion 331.80 amu. from DATA:4HERC19A.D
306

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.898	BB	0.073	294204	22.792	23.115

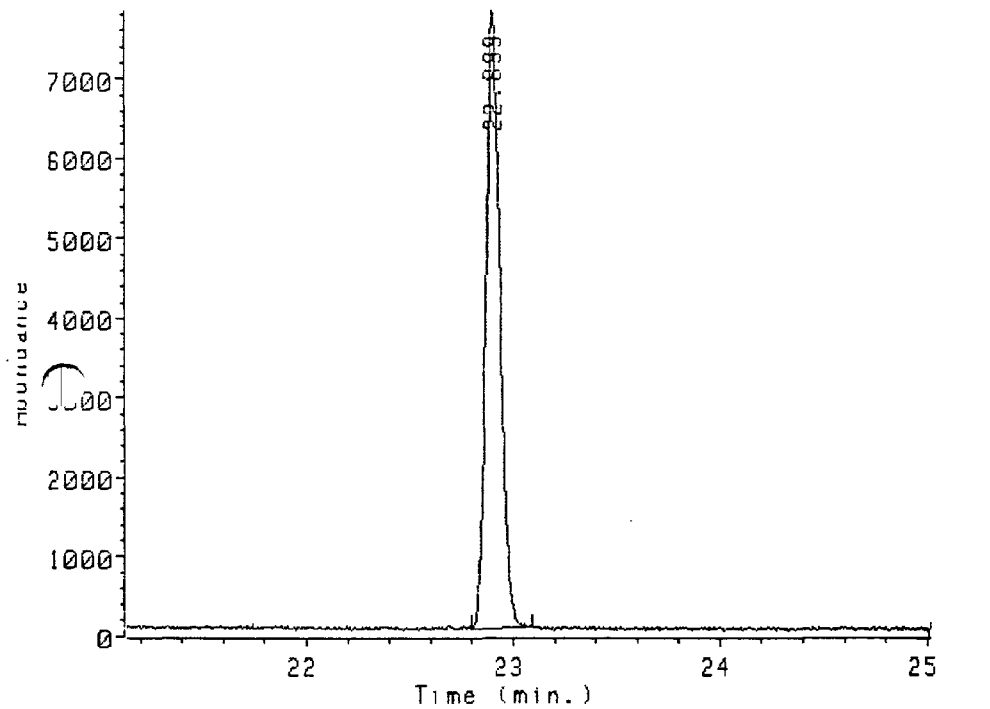
020594

Name Info: 2306
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:09 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 19
Replicate num : 1

Ion 333.80 amu. from DATA:4HERC19A.D



020595

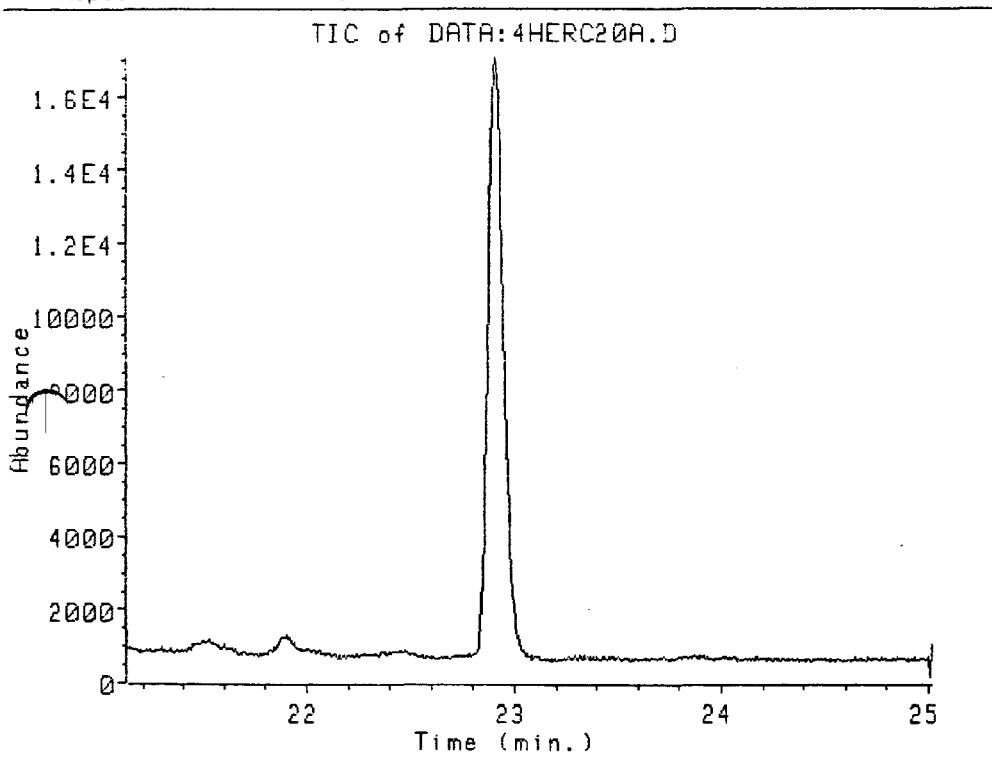
on 333.80 amu. from DATA:4HERC19A.D
306

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.899	BB	0.073	371468	22.795	23.093

Name Info: 2307
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:43 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 20
Replicate num : 1



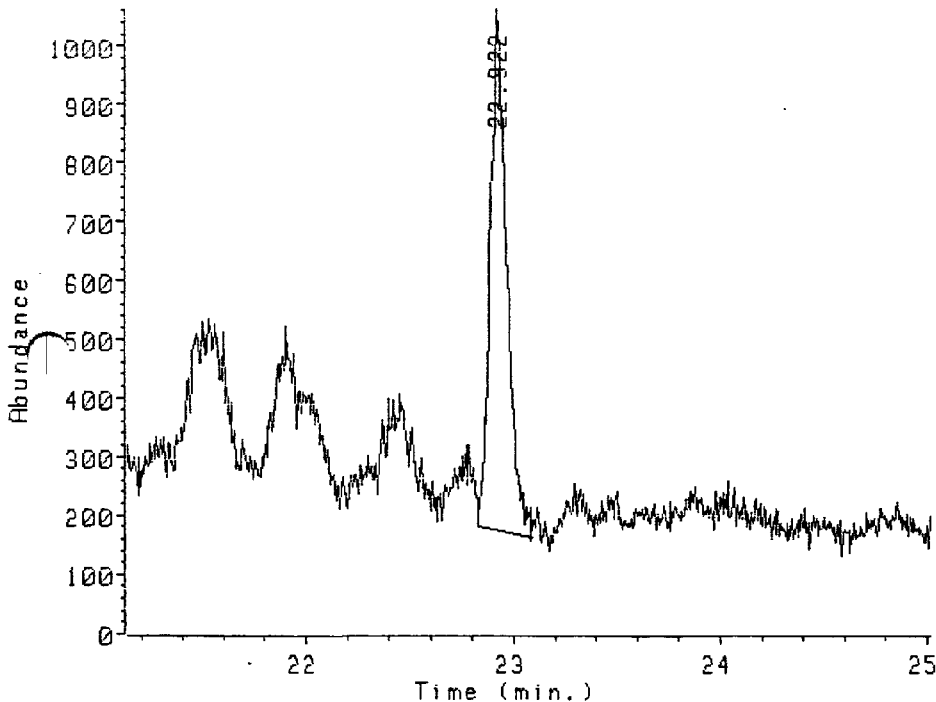
020596

Name Info: 2307
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:43 am
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 20
Replicate num : 1

Ion 258.90 amu. from DATA:4HERC20A.D



Ion 258.90 amu. from DATA:4HERC20A.D
2307

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.922	UB	0.077	49453	22.830	23.087

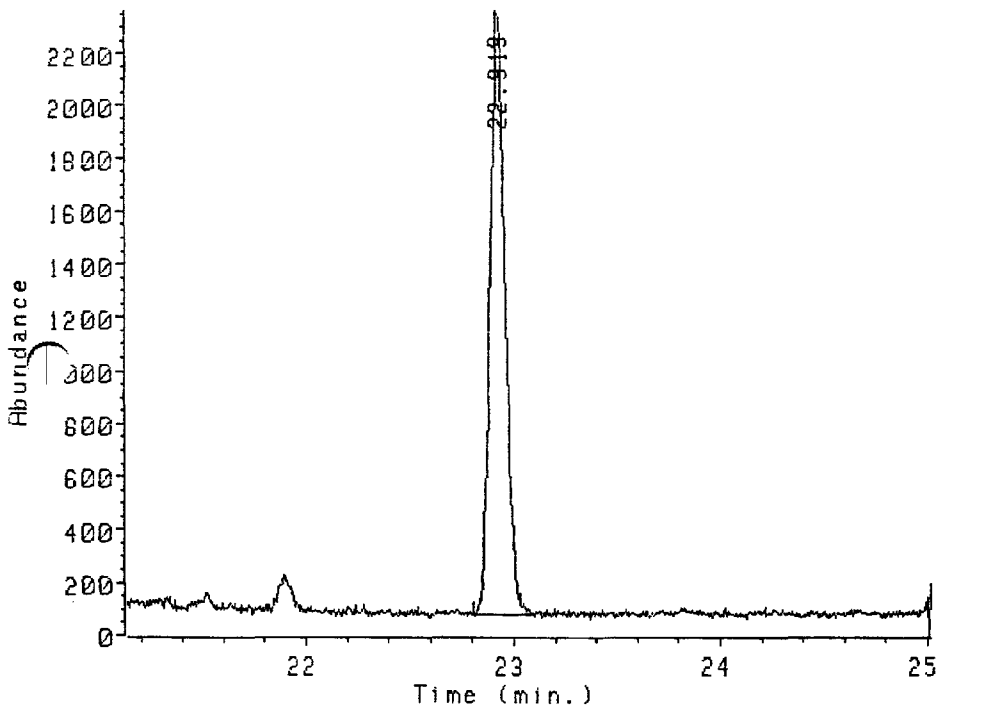
000000020597

Name Info: 2307
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:43 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 20
Replicate num : 1

Ion 319.90 amu. from DATA:4HERC20A.D



Ion 319.90 amu. from DATA:4HERC20A.D
2307

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.919	BB	0.080	114683	22.807	23.099

000000020598

Name Info: 2307

Misc Info:

Operator : TMS

Date : 2 Aug 88 6:43 am

Instrument: MS_5970

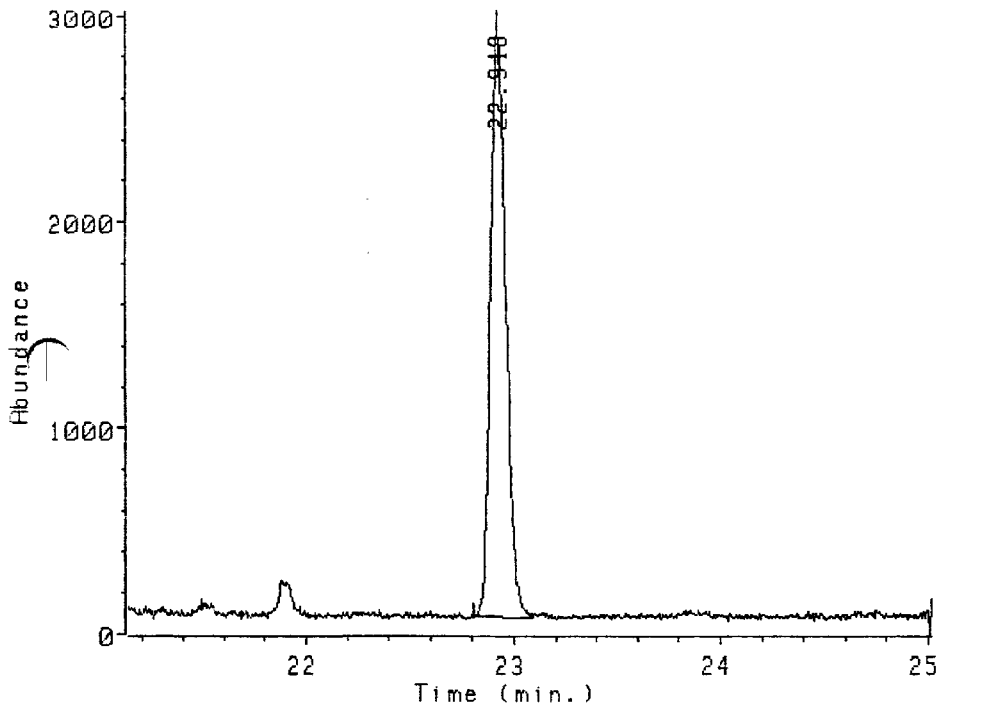
Inlet : GC

Sequence index : 3

Als bottle num : 20

Replicate num : 1

Ion 321.90 amu. from DATA:4HERC20A.D



Ion 321.90 amu. from DATA:4HERC20A.D
2307

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.918	BB	0.078	148568	22.804	23.087

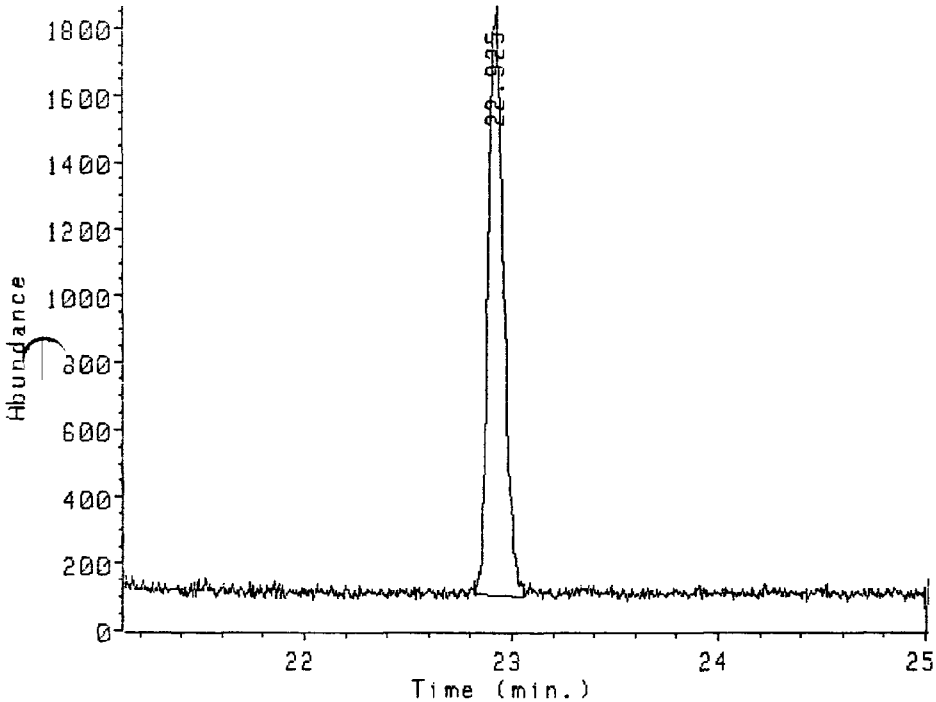
020599

Name Info: 2307
Misc Info:
Operator: TMS

Date : 2 Aug 88 6:43 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 20
Replicate num : 1

Ion 327.90 amu. from DATA:4HERC20A.D



Ion 327.90 amu. from DATA:4HERC20A.D
2307

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.925	BB	0.079	91033	22.822	23.063

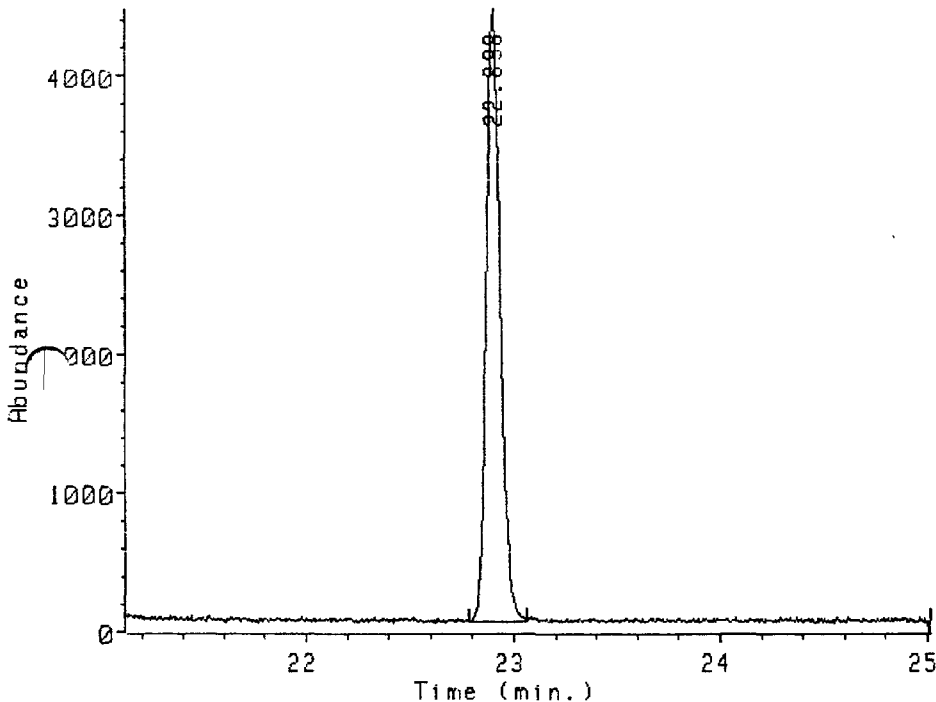
000000020600

Name Info: 2307
Misc Info:
Operator : TMS

Date : 2 Aug 88 6:43 am
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 20
Replicate num : 1

Ion 331.80 amu. from DATA:4HERC20A.D



Ion 331.80 amu. from DATA:4HERC20A.D
2307

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.898	BB	0.076	208452	22.783	23.063

000000020601

Data file: DATA:4HERC20A.D
File type: GC / MS DATA FILE

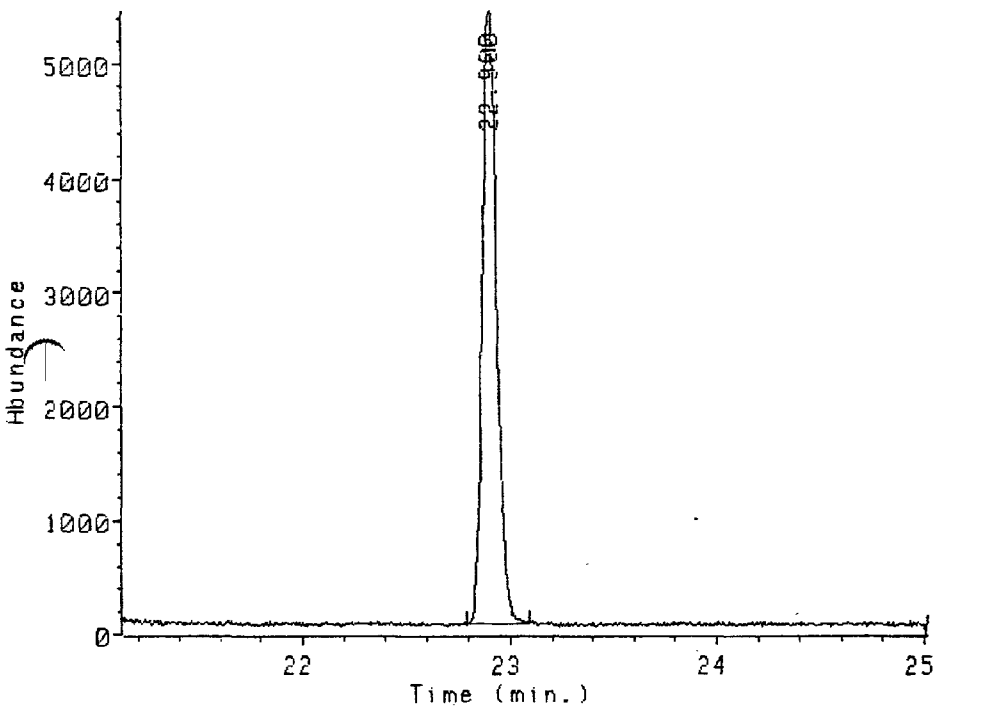
3 1454

Name Info: 2307
Misc Info:
Operator: TMS

Date: 2 Aug 88 6:43 am
Instrument: MS_5970
Inlet: GC

Sequence index: 3
ALS bottle num: 20
Replicate num: 1

Ion 333.80 amu. from DATA:4HERC20A.D



000000020602

Ion 333.80 amu. from DATA:4HERC20A.D
2307

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.900	BB	0.076	262280	22.789	23.087

03220818

ATTACHMENT 2
DAILY CALIBRATION MASS CHROMATOGRAMS

000000020603

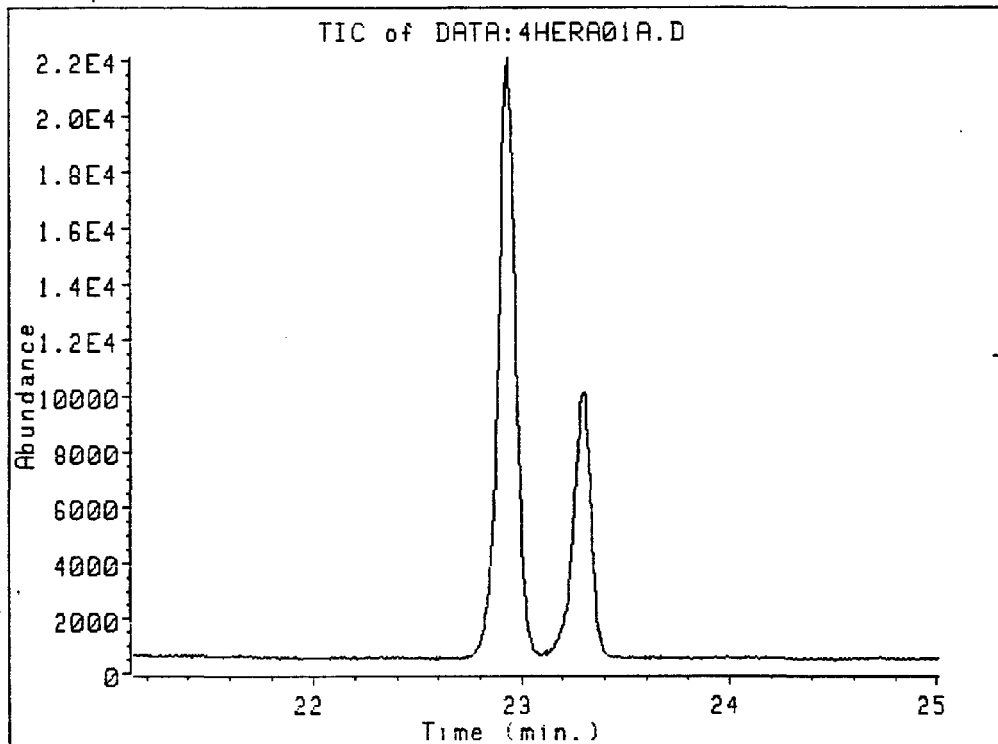
Data file: DATA:4HERA01A.D
File type: GC / MS DATA FILE

3 1456

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 1 Aug 88 8:23 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



020604

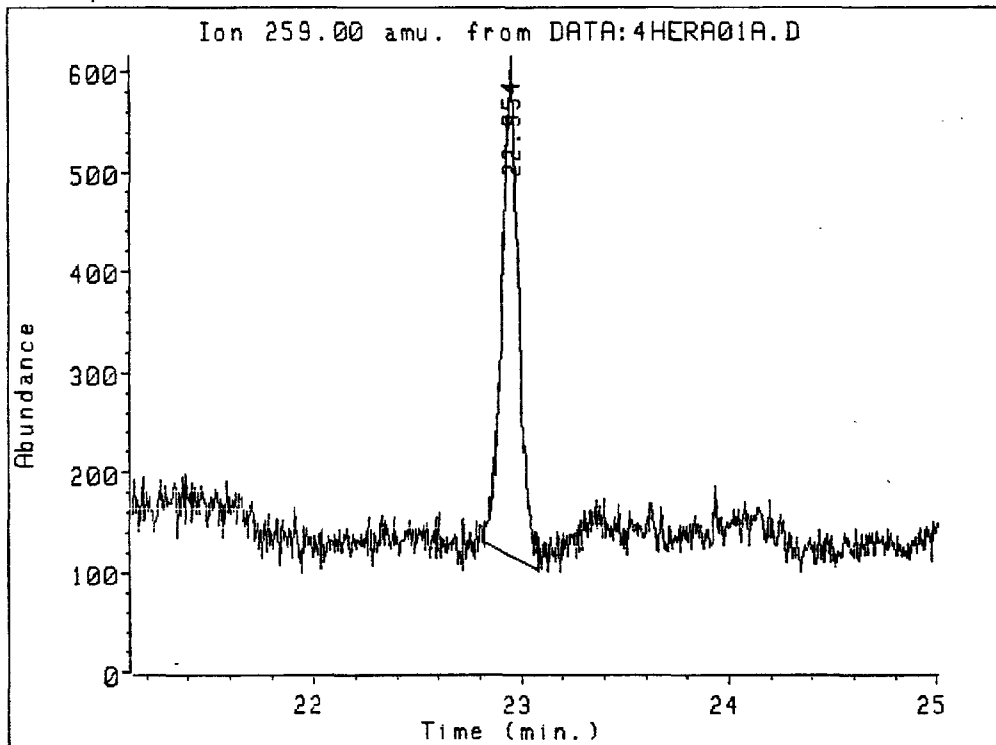
03220820

Data file: DATA:4HERA01A.D
File type: GC / MS DATA FILE

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 1 Aug 88 8:23 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



Ion 259.00 amu. from DATA:4HERA01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.954	BB	0.076	28275	22.817	23.082

03220821

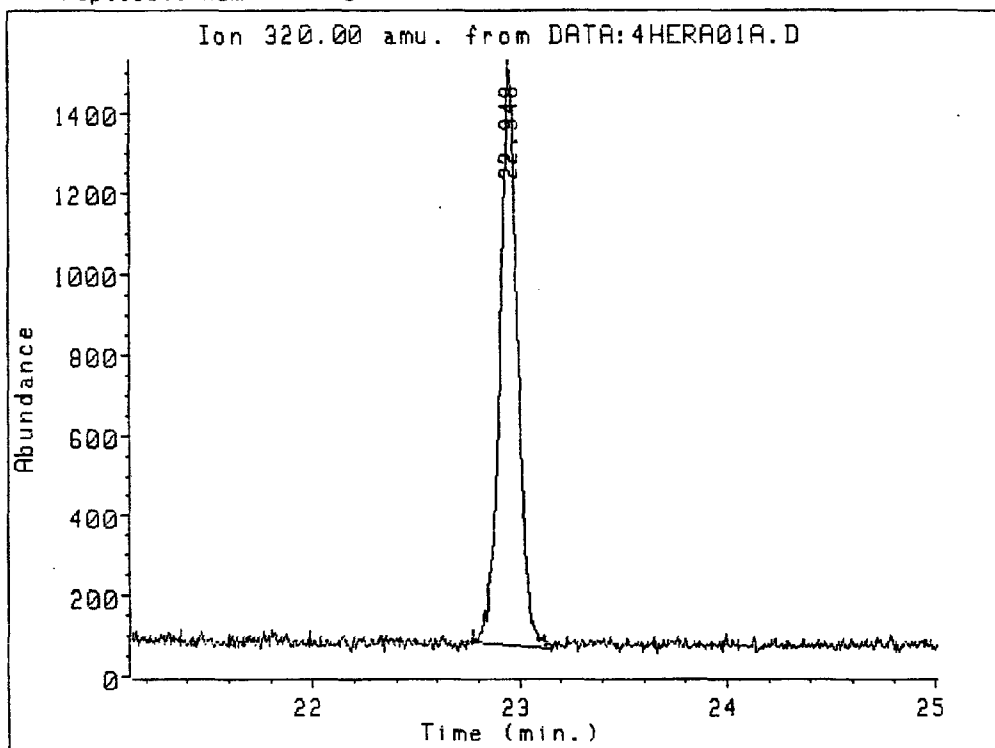
020605

Data file: DATA:4HERA01A.D
File type: GC / MS DATA FILE

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 1 Aug 88 8:23 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



Ion 320.00 amu. from DATA:4HERA01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.948	BB	0.082	86252	22.772	23.152

000001020606

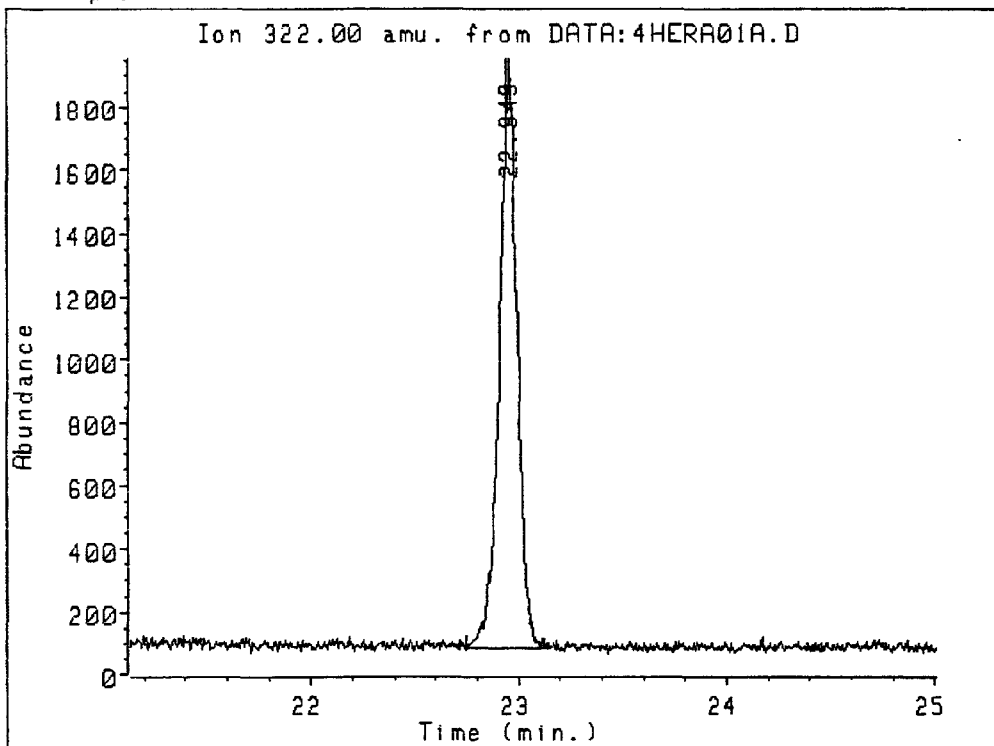
Data file: DATA:4HERA01A.D
File type: GC / MS DATA FILE

3 1459

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 1 Aug 88 8:23 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



020607

Ion 322.00 amu. from DATA:4HERA01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.949	BB	0.086	113351	22.747	23.152

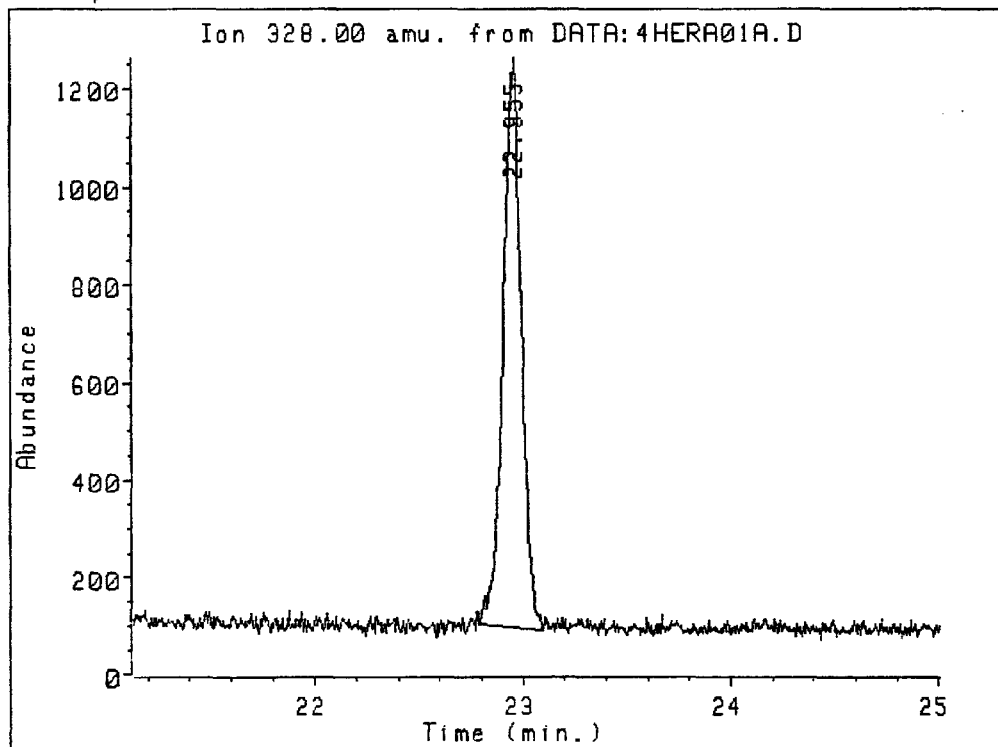
03220823

Data file: DATA:4HERA01A.D
File type: GC / MS DATA FILE

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 1 Aug 88 8:23 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



Ion 328.00 amu. from DATA:4HERA01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.955	BB	0.098	72005	22.787	23.101

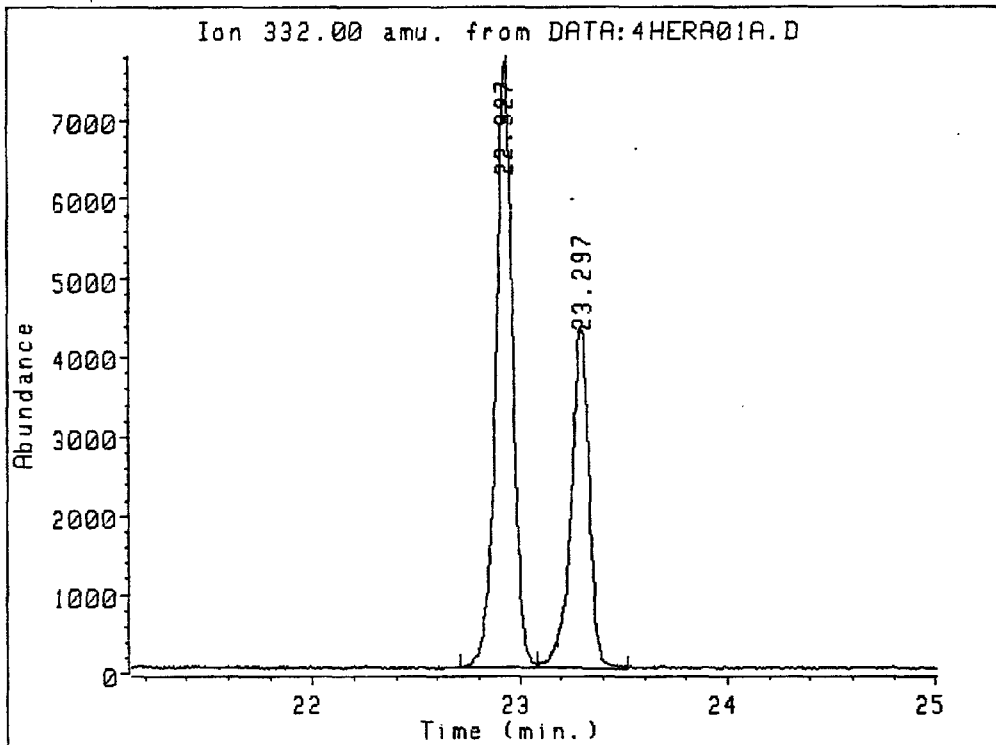
Data file: DATA:4HERA01A.D
File type: GC / MS DATA FILE

3 1461

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 1 Aug 88 8:23 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



Ion 332.00 amu. from DATA:4HERA01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.927	UV	0.087	439375	22.708	23.088
2	23.297	UV	0.089	259559	23.088	23.518

03220825

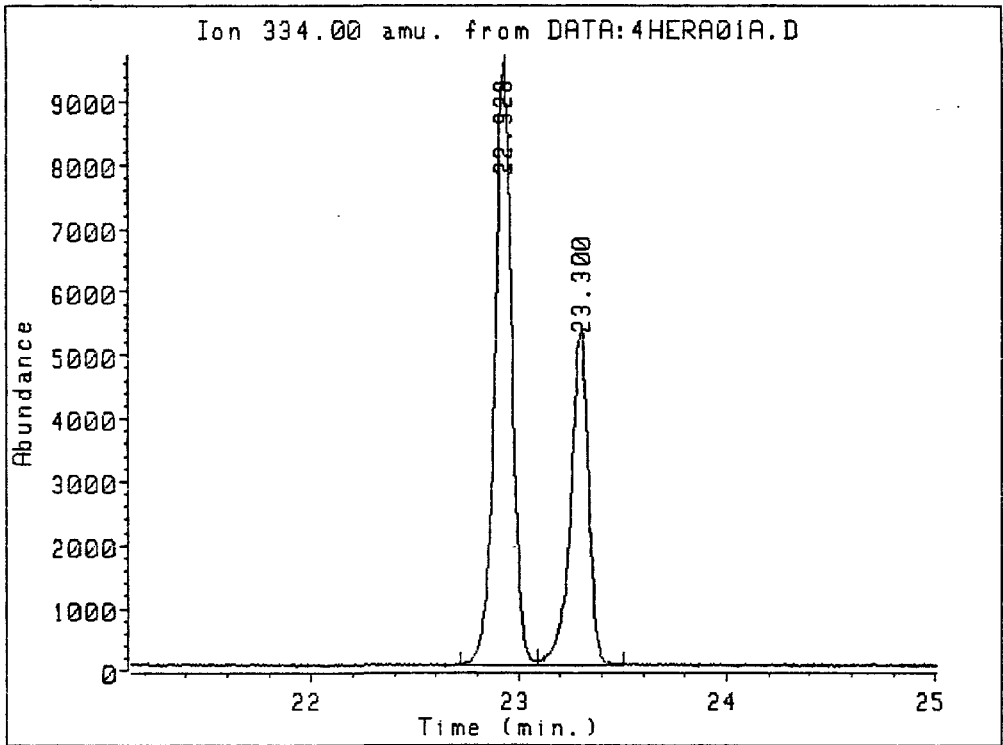
020609

Data file: DATA:4HERA01A.D
 File type: GC / MS DATA FILE

Name Info: CALIBRATION SOLN I
 Misc Info:
 Operator : TMS

Date : 1 Aug 88 8:23 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 1
 Replicate num : 1



Ion 334.00 amu. from DATA:4HERA01A.D
 CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.928	BU	0.086	554334	22.717	23.095
2	23.300	UB	0.087	315376	23.095	23.506

000000020610

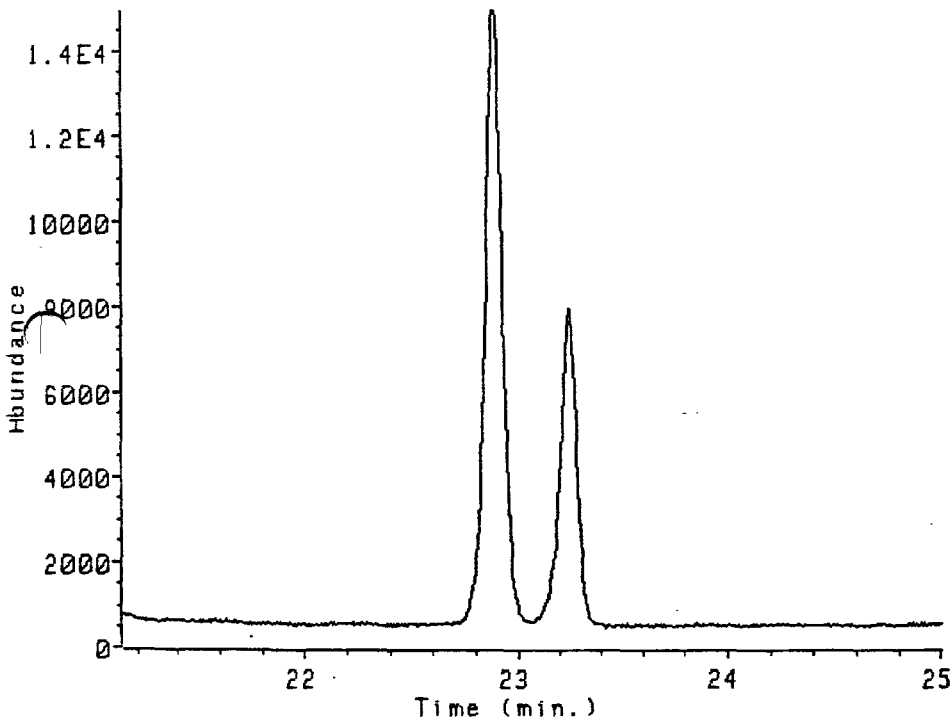
Data file: DATA:4HERD01A.D
File type: GC / MS DATA FILE

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
Als bottle num : 1
Replicate num : 1

TIC of DATA:4HERD01A.D



020611

Data file: DATA:4HERD01A.D
File type: GC / MS DATA FILE

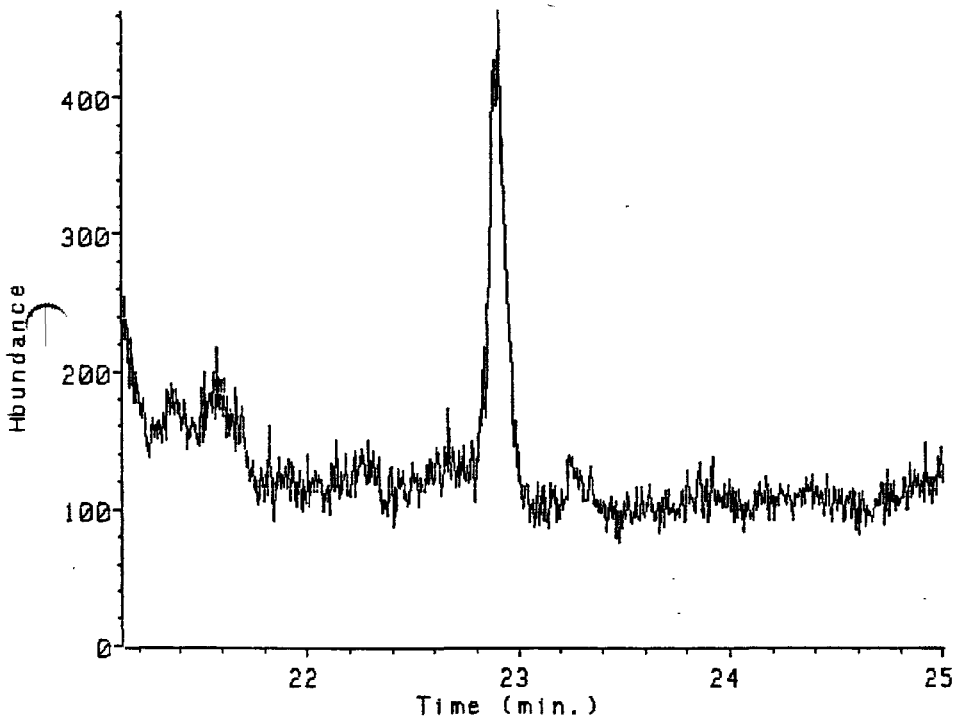
3 1464

Name Info: CALIBRATION SOLN I
Disc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
ALS bottle num : 1
Replicate num : 1

Ion 258.90 amu. from DATA:4HERD01A.D



on 258.90 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

0 peaks detected

020612

03220828

Data file: DATA:4HERD01A.D
File type: GC / MS DATA FILE

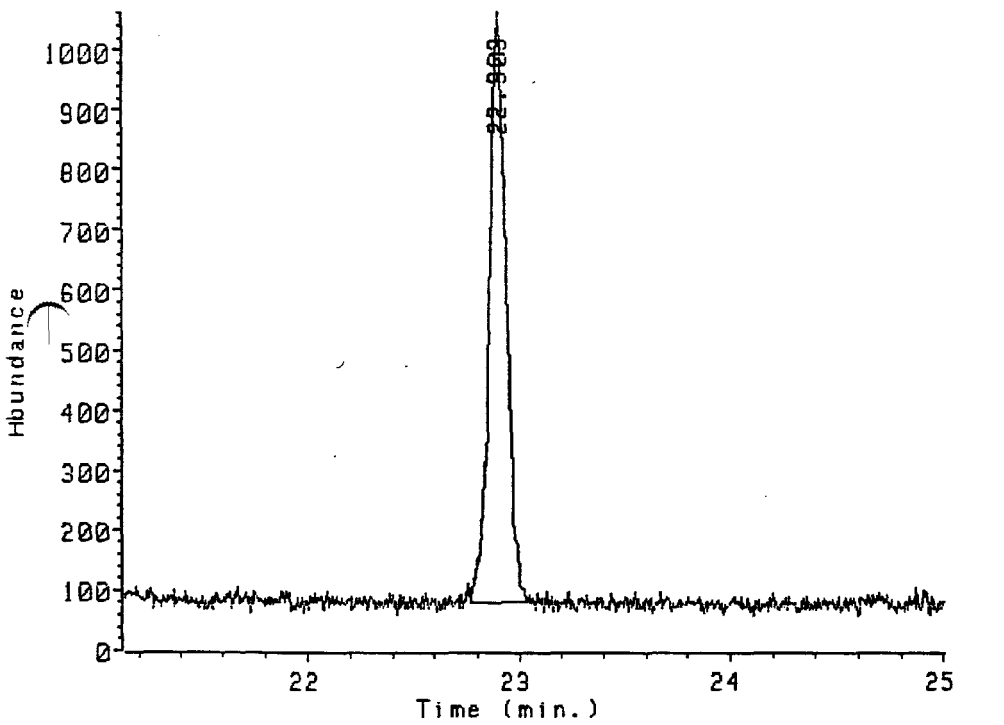
3 1465

Name Info: CALIBRATION SOLN I
Disc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
ALS bottle num : 1
Replicate num : 1

Ion 319.90 amu. from DATA:4HERD01A.D



Ion 319.90 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.903	BB	0.083	54970	22.768	23.054

000001020613

03220829

Data file: DATA:4HERD01A.D
File type: GC / MS DATA FILE

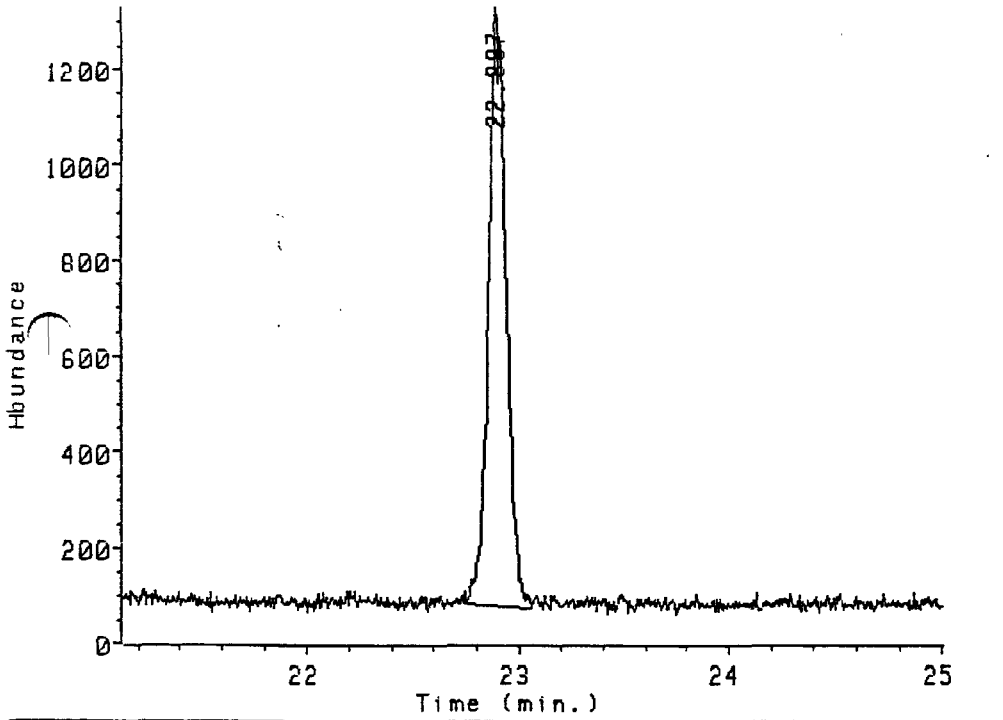
3 1466

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
ALS bottle num : 1
Replicate num : 1

Ion 321.90 amu. from DATA:4HERD01A.D



Ion 321.90 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.897	BB	0.085	73329	22.746	23.063

020614

03220830

Data file: DATA:4HERD01A.D
File type: GC / MS DATA FILE

3 1467

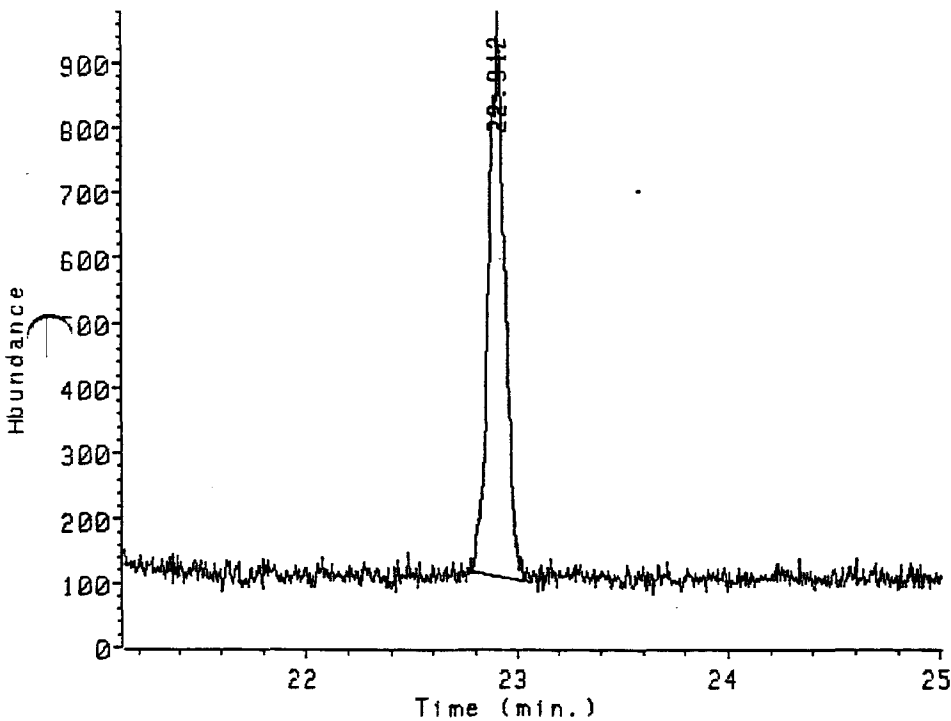
Name Info: CALIBRATION SOLN I

Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
ALS bottle num : 1
Replicate num : 1

Ion 327.90 amu. from DATA:4HERD01A.D



Ion 327.90 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.912	BB	0.073	46615	22.774	23.069

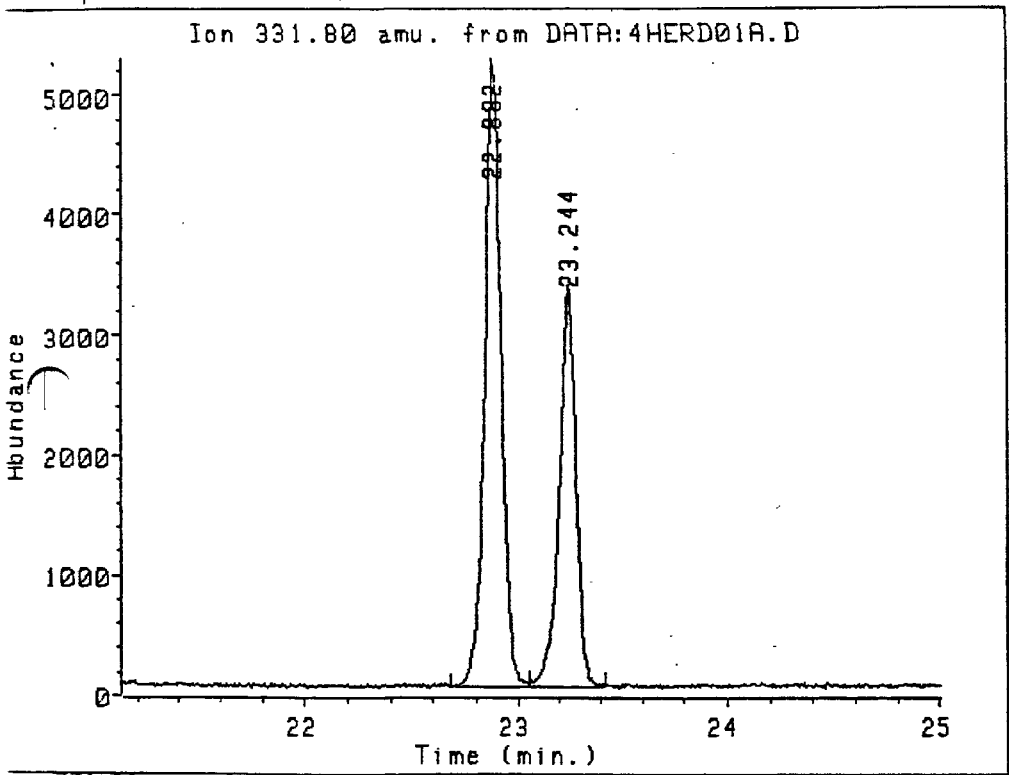
020615

03220831

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
Als bottle num : 1
Replicate num : 1



020616

on 331.80 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

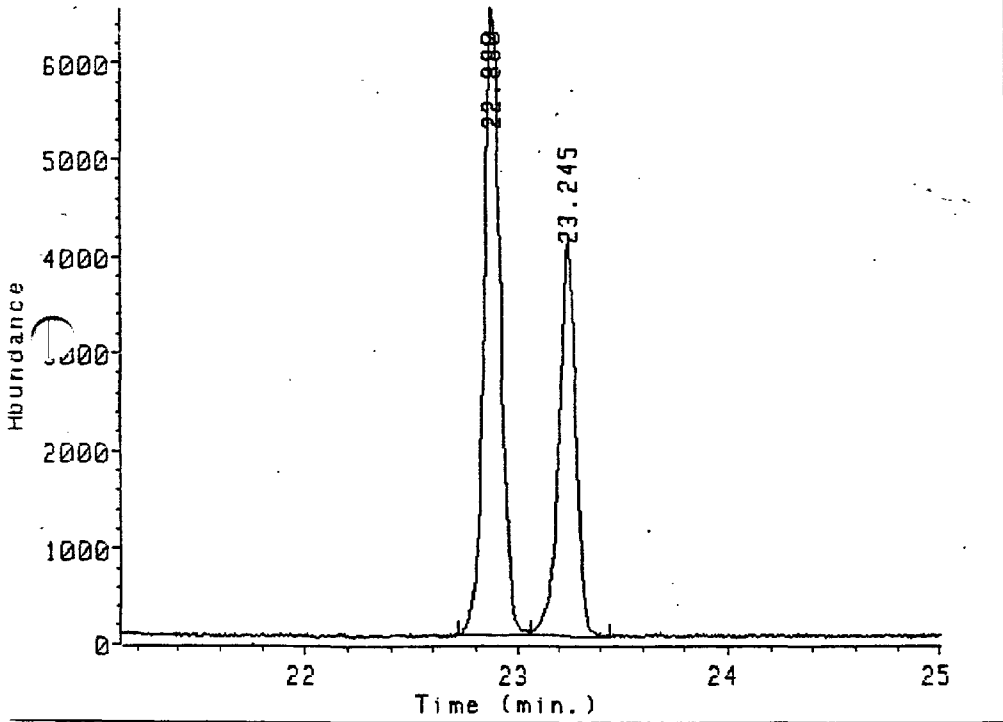
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.882	BV	0.081	288223	22.682	23.057
2	23.244	UB	0.083	189736	23.057	23.423

Name info: CALIBRATION SOLN I
Misc info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
Als bottle num : 1
Replicate num : 1

Ion 333.80 amu. from DATA:4HERD01A.D



020617

on 333.80 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.880	UB	0.083	362221	22.719	23.063
2	23.245	UB	0.083	234261	23.063	23.447

ATTACHMENT 3
INITIAL CALIBRATION MASS CHROMATOGRAMS

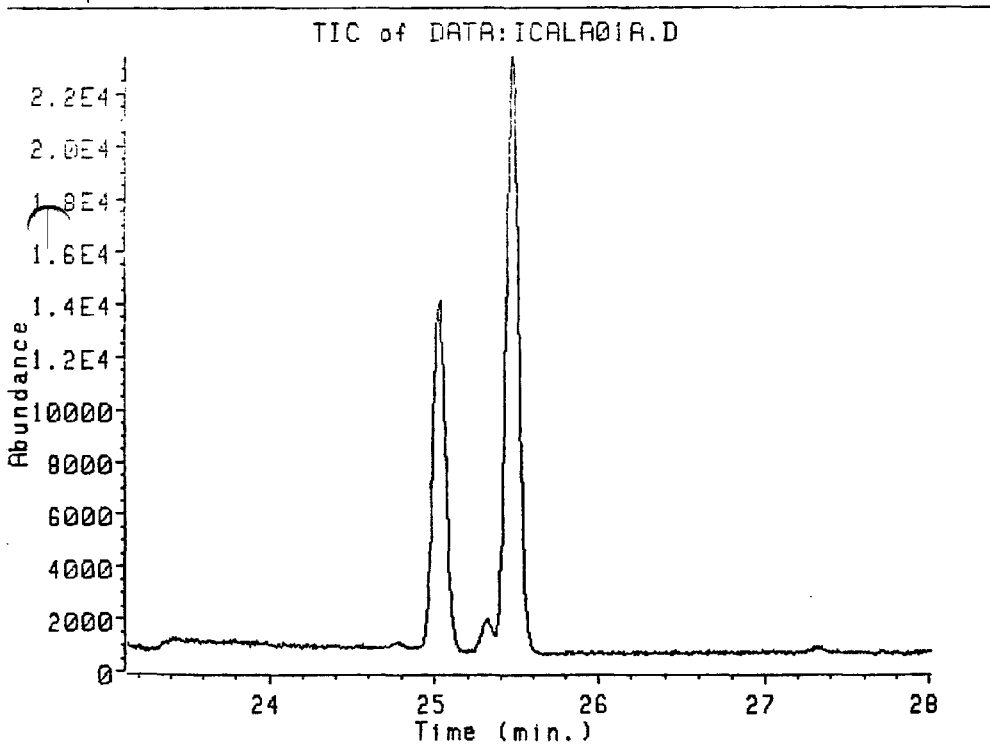
020618

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
ALS bottle num : 1
Replicate num : 1



020619

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

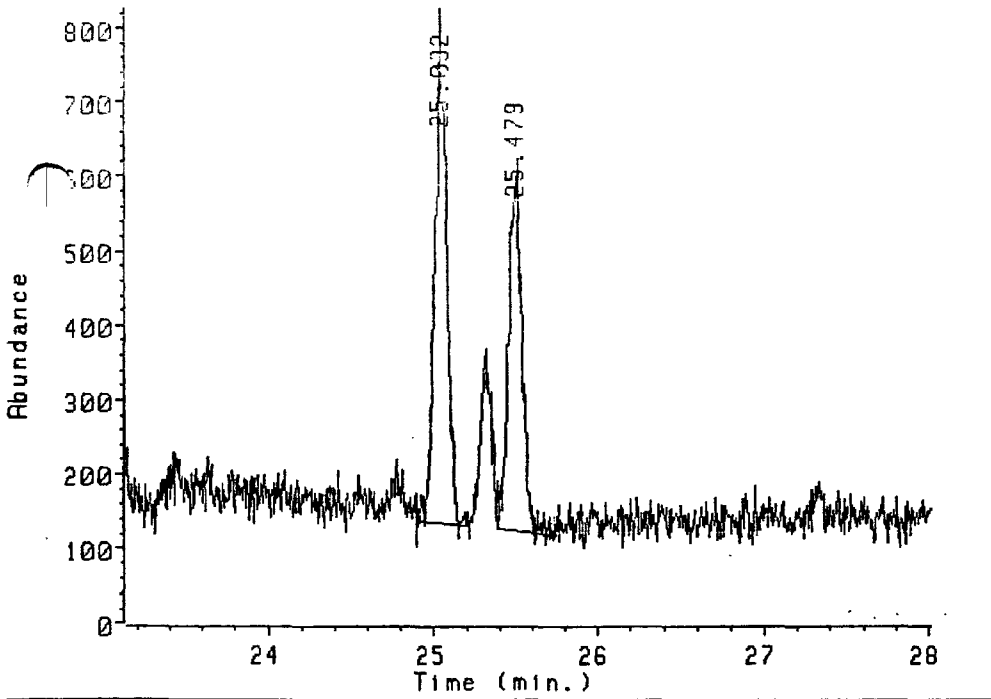
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

020620

Ion 258.90 amu. from DATA:ICALA01A.D



Ion 258.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Pe. #	Ret Time	Type	Width	Area	Start Time	End Time
1	25.032	UV	0.091	33237	24.902	25.210
2	25.479	VB	0.099	27499	25.380	25.708

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

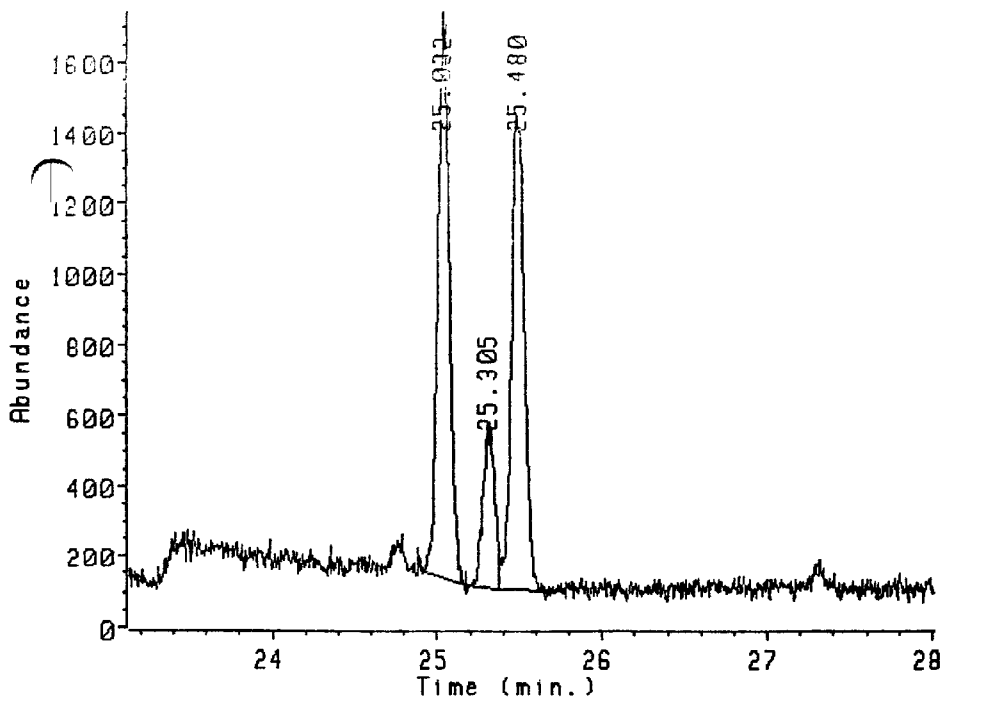
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

020621

Ion 319.90 amu. from DATA:ICALA01A.D



Ion 319.90 amu. From DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	25.032	BV	0.085	78063	24.902	25.180
2	25.305	PV	0.083	22626	25.180	25.379
3	25.480	VB	0.088	73270	25.379	25.755

03220837

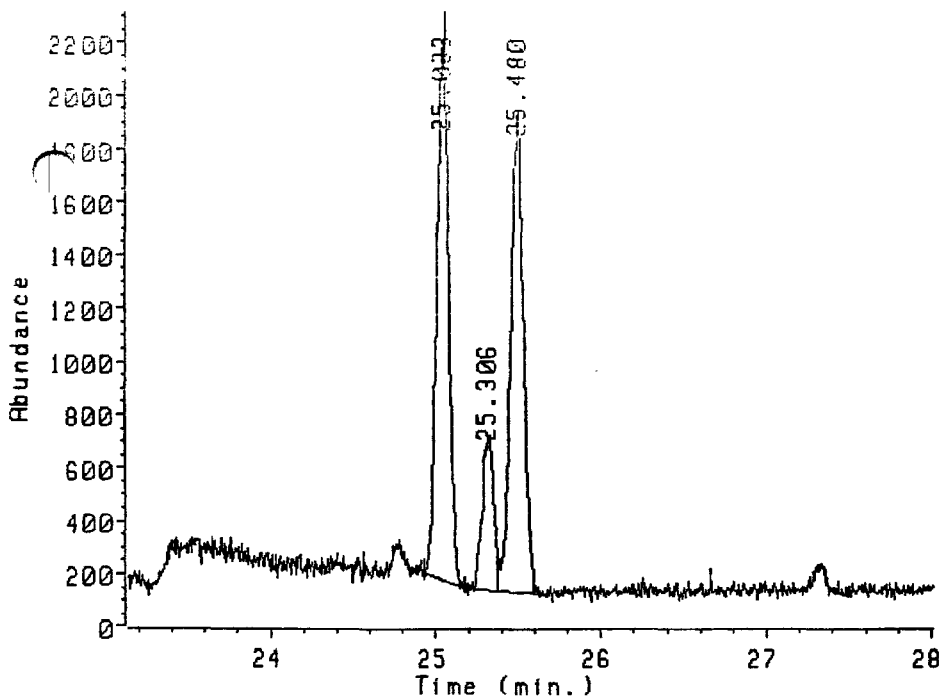
Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

Ion 321.90 amu. from DATA:ICALA01A.D



Ion 321.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.033	BV	0.086	102390	24.926	25.179
2	25.306	PV	0.084	28766	25.179	25.378
3	25.480	VB	0.091	95712	25.378	25.665

03220838

020622

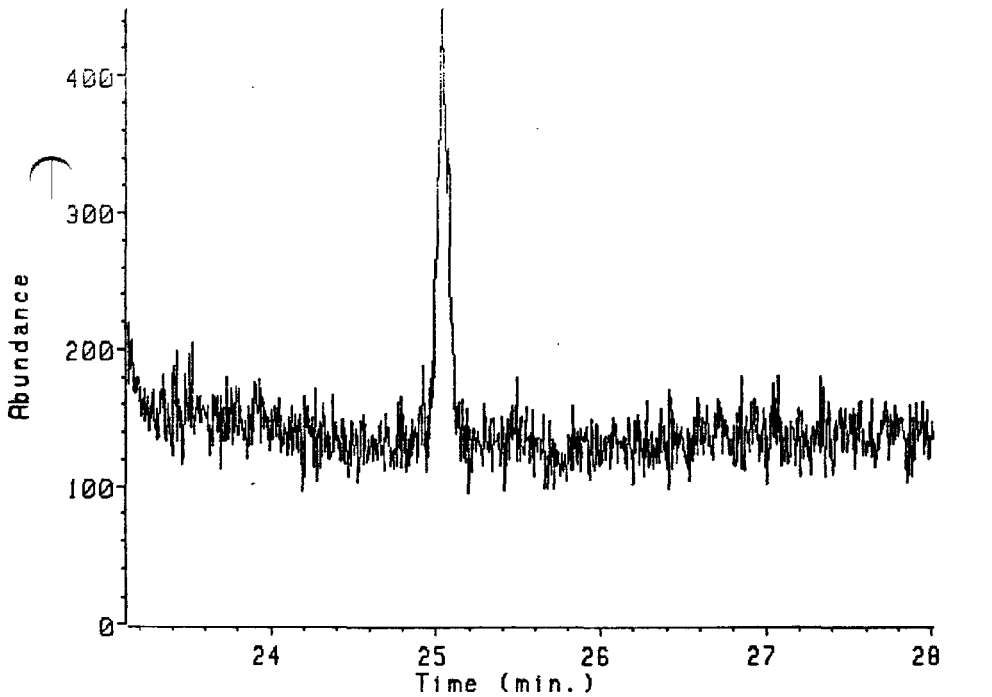
Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

Ion 327.90 amu. from DATA:ICALA01A.D



Ion 327.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

No leaks detected

020623

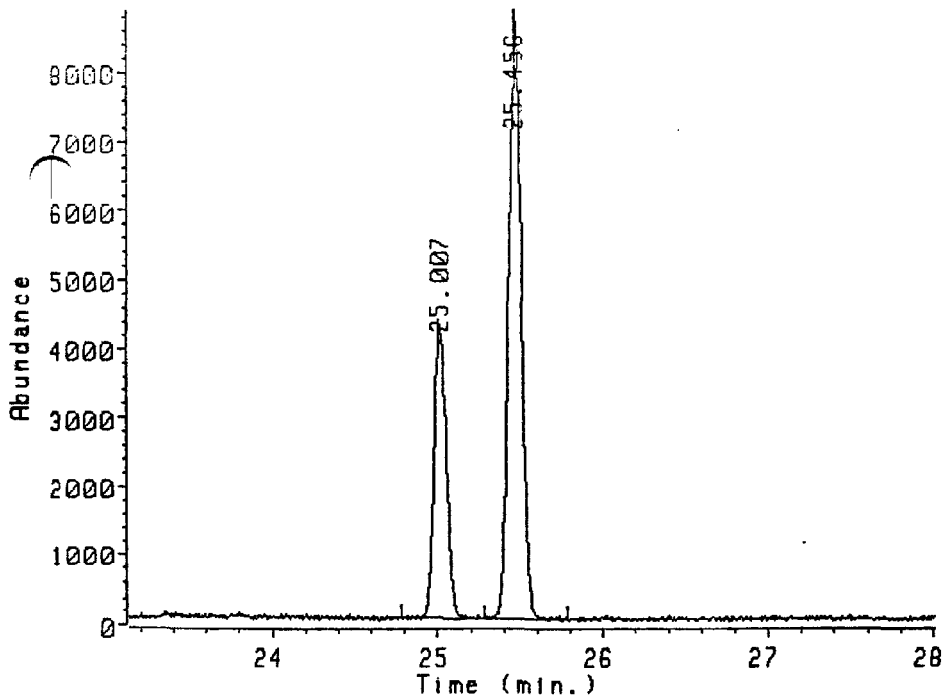
Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

Ion 331.80 amu. from DATA:ICALA01A.D



Ion 331.80 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.007	BV	0.087	218250	24.784	25.281
2	25.456	VB	0.090	455837	25.281	25.779

020624

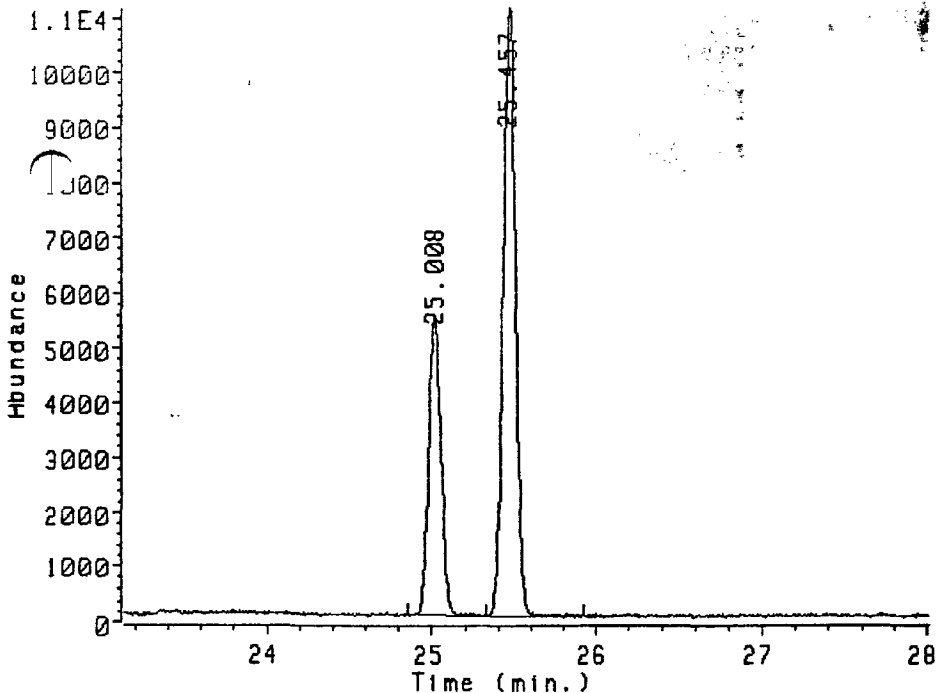
Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
ALS bottle num : 1
Replicate num : 1

Ion 333.80 amu. from DATA:ICALA01A.D



on 333.80 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.008	BU	0.087	279885	24.855	25.329
2	25.457	PB	0.086	573510	25.329	25.921

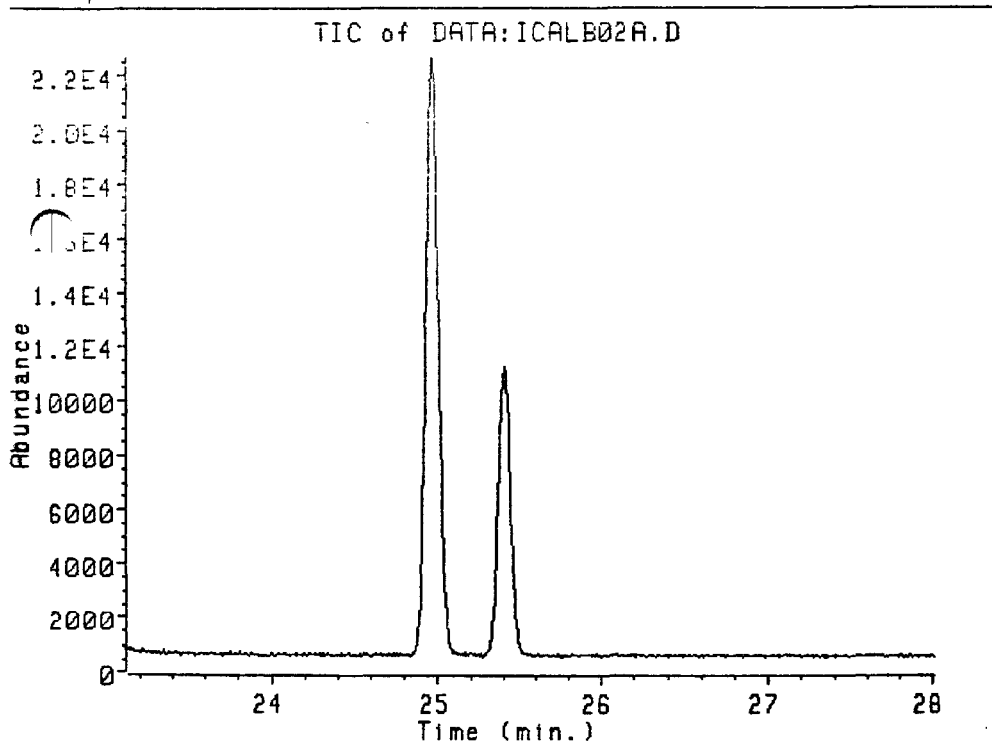
000000020625

Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1



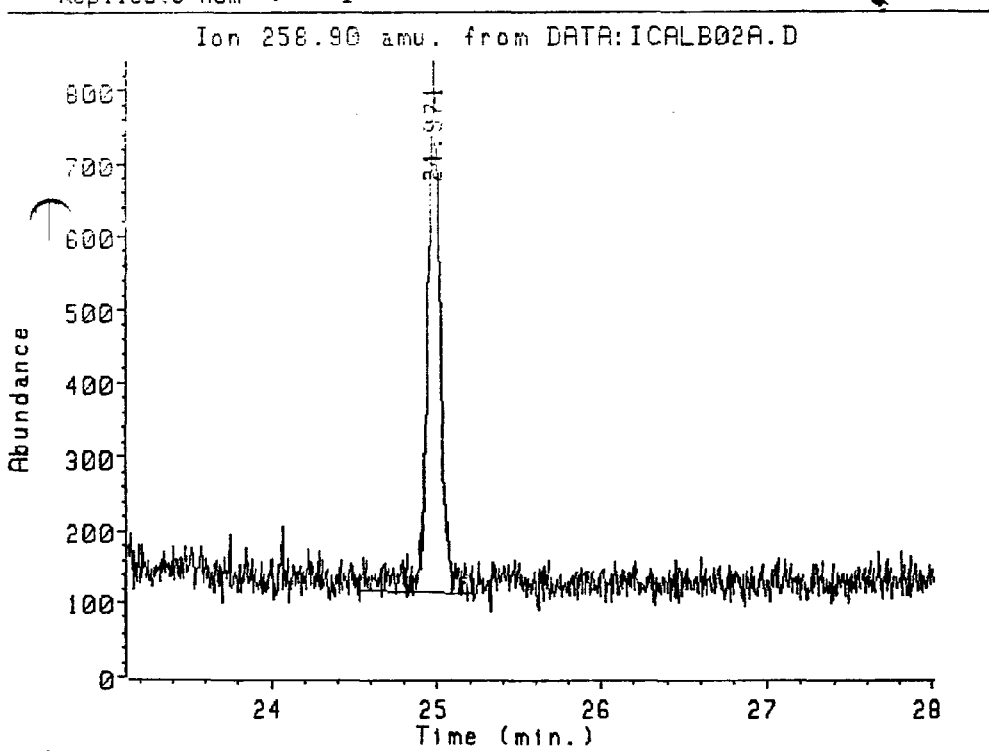
000000020626

Data file: DATA:ICALB02A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 1



Ion 258.90 amu. from DATA:ICALB02A.D
 CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.971	BV	0.140	41228	24.525	25.218

Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

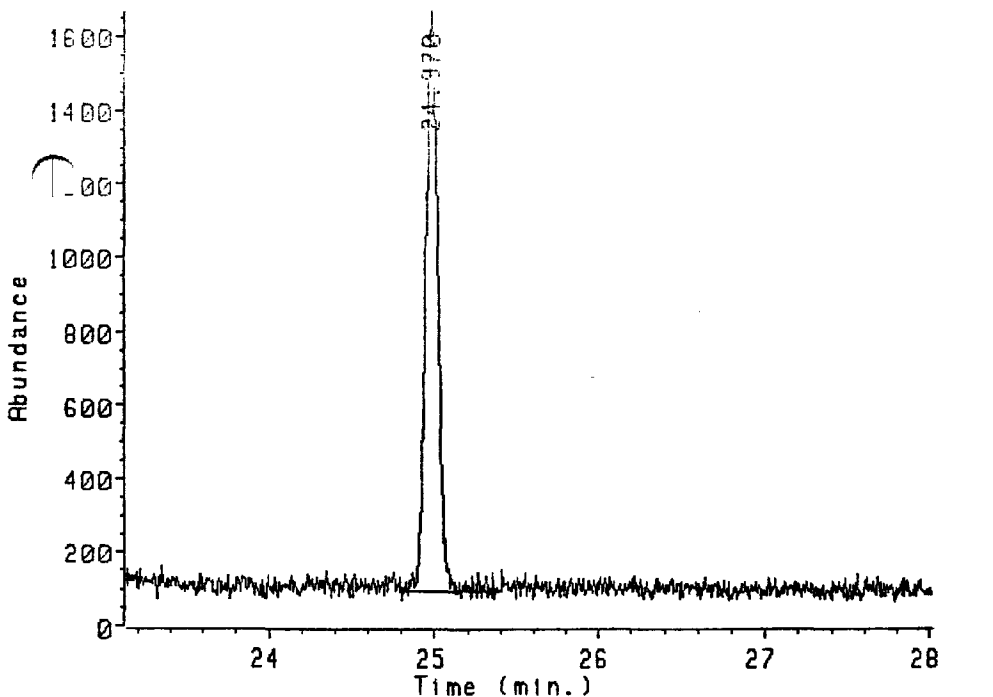
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

020628

Ion 319.90 amu. from DATA:ICALB02A.D



Ion 319.90 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.970	BB	0.132	81667	24.784	25.315

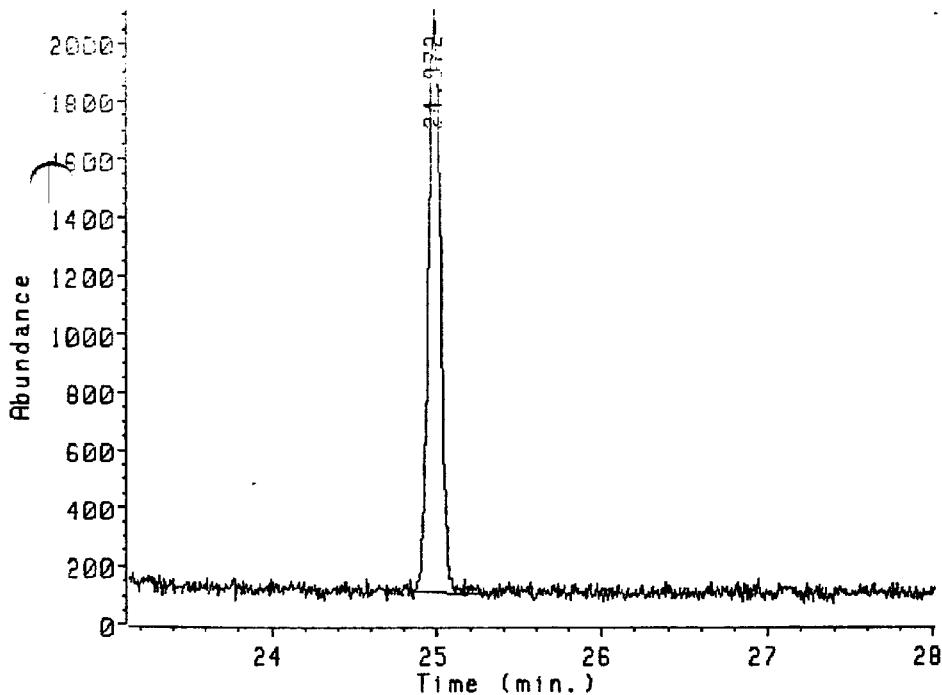
Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

Ion 321.90 amu. from DATA:ICALB02A.D



Ion 321.90 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.972	BB	0.127	103594	24.832	25.291

000000020629

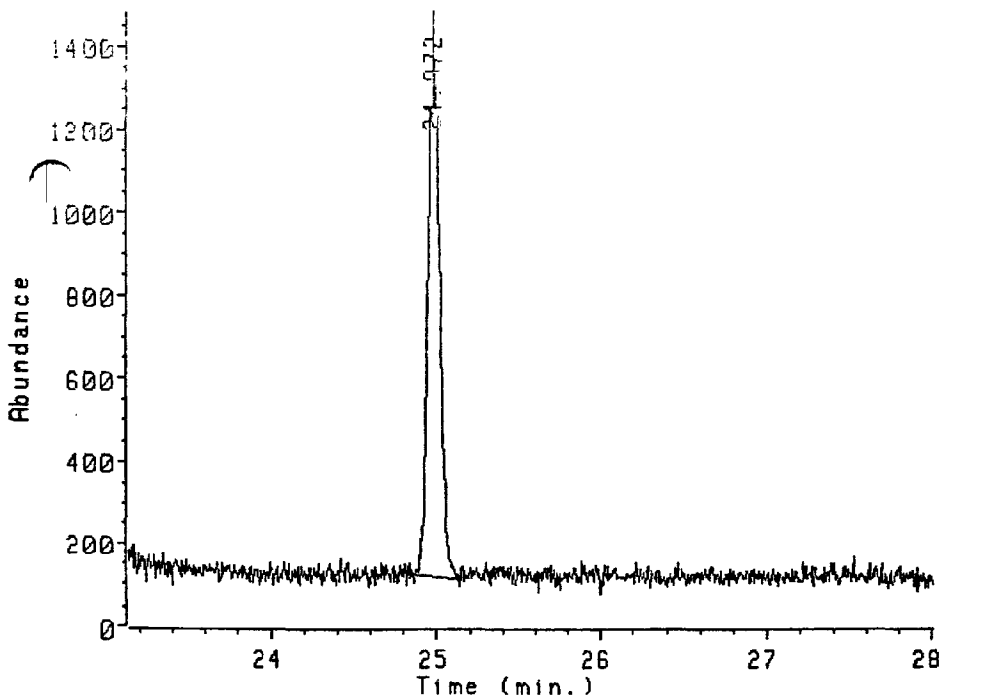
Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
ALS bottle num : 2
Replicate num : 1

Ion 327.90 amu. from DATA:ICALB02A.D



Ion 327.90 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.972	BB	0.123	64544	24.832	25.122

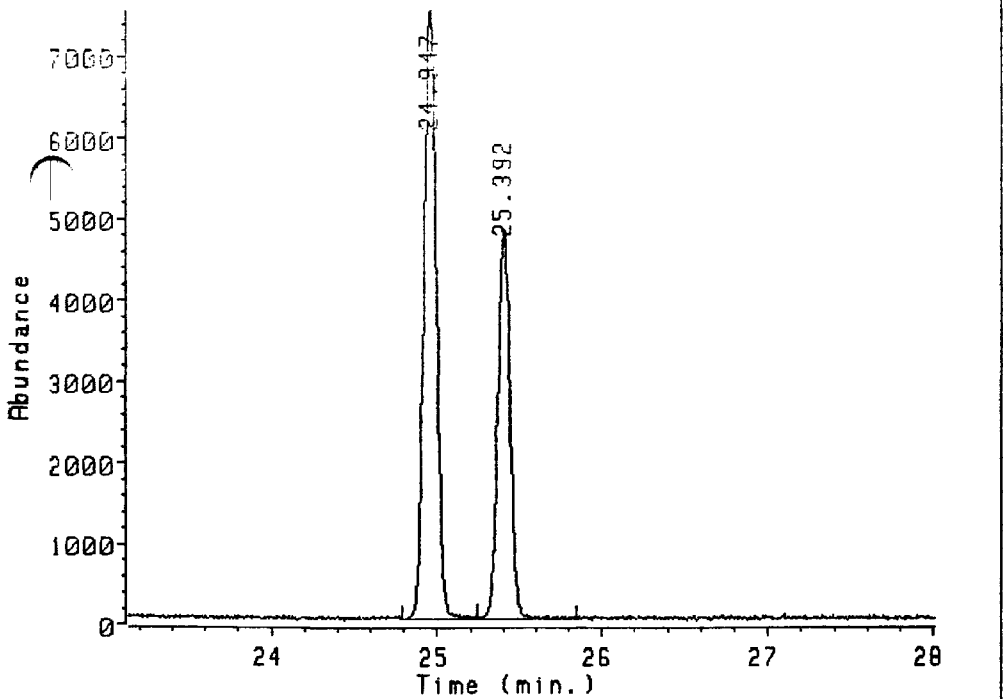
Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

020631

Ion 331.80 amu. from DATA:ICALB02A.D



Ion 331.80 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.947	BU	0.148	388540	24.784	25.242
2	25.392	UB	0.136	246363	25.242	25.845

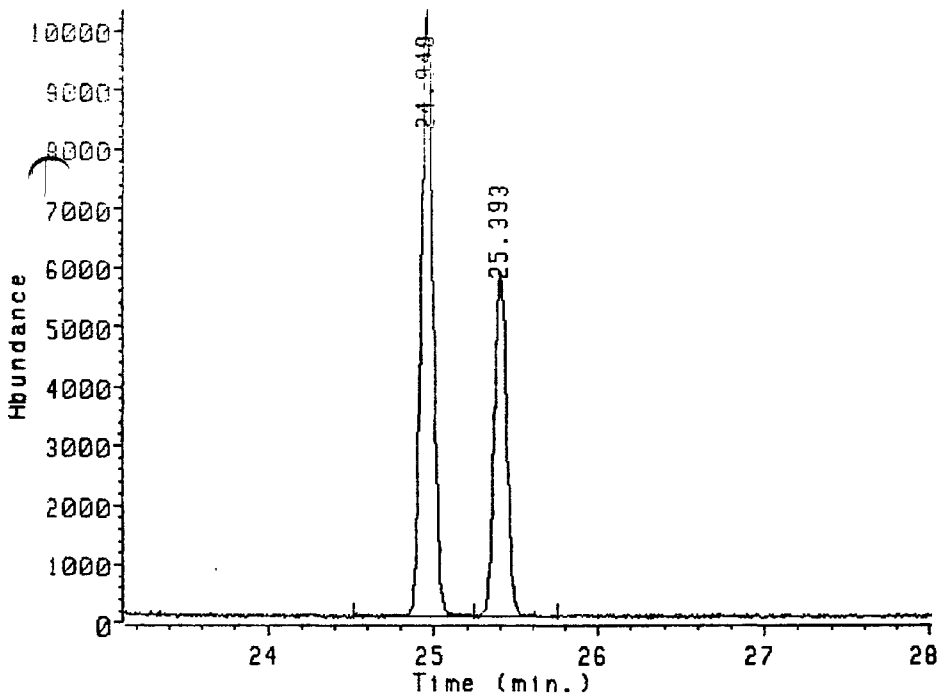
Data file: DATA:ICALB02A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 1

Ion 333.80 amu. from DATA:ICALB02A.D



Ion 333.80 amu. from DATA:ICALB02A.D
 CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.948	UB	0.139	508121	24.512	25.242
2	25.393	UB	0.130	303039	25.242	25.749

03220848

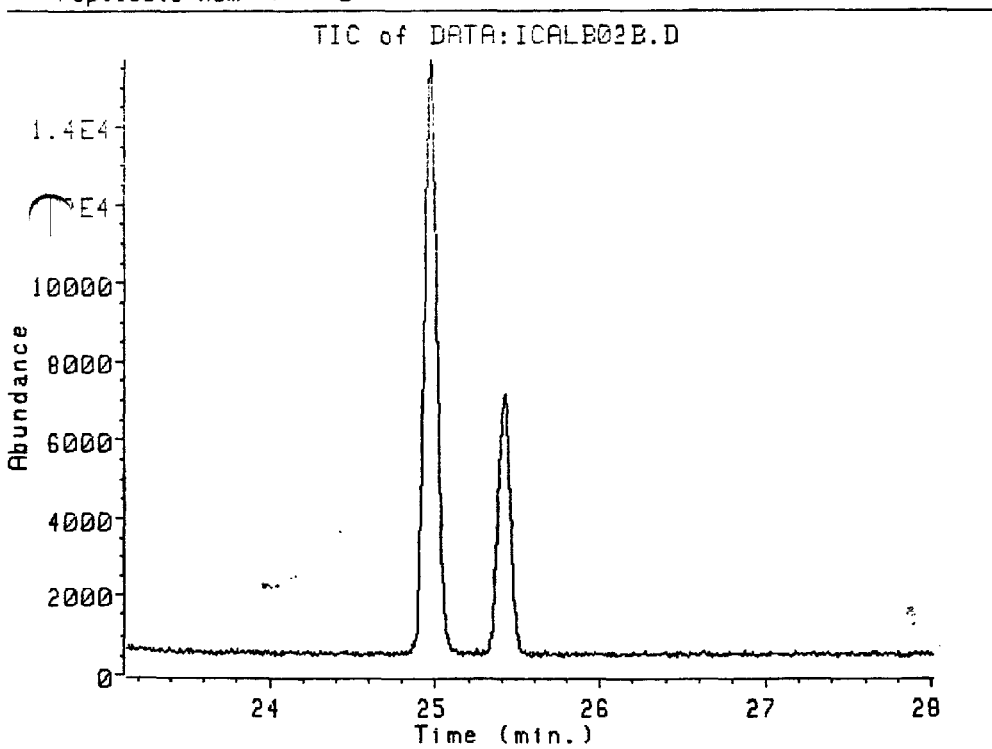
0000000020632

Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2



020633

Data file: DATA:ICALB02B.D
 File type: GC / MS DATA FILE

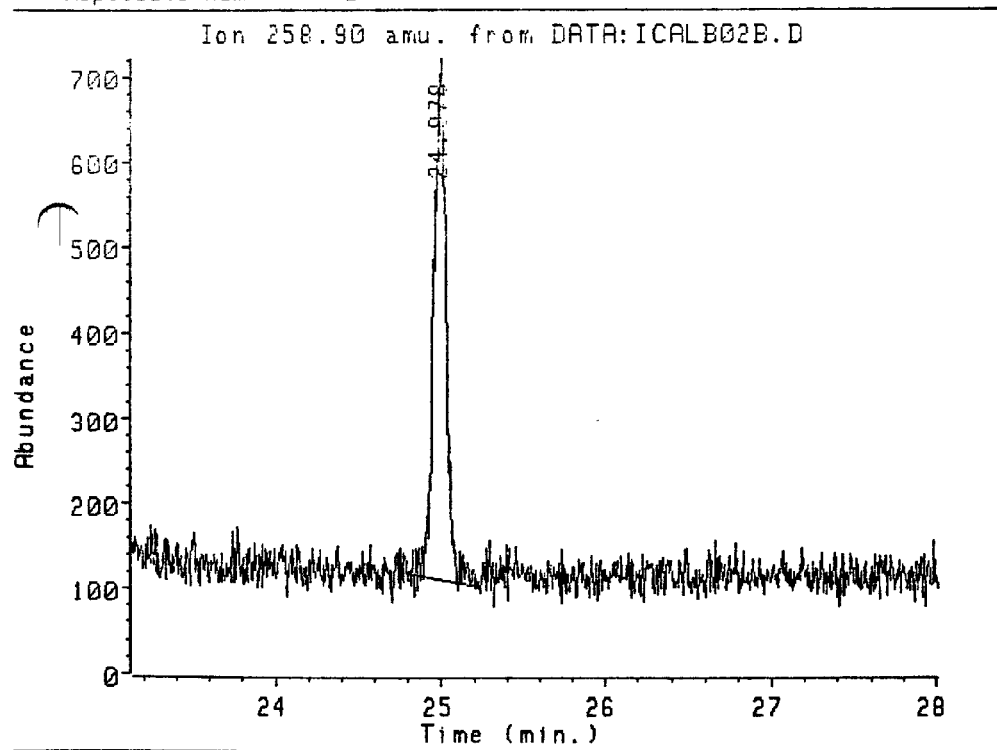
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 2

020634

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Ion 258.90 amu. from DATA:ICALB02B.D
 CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.119	31638	24.784	25.218

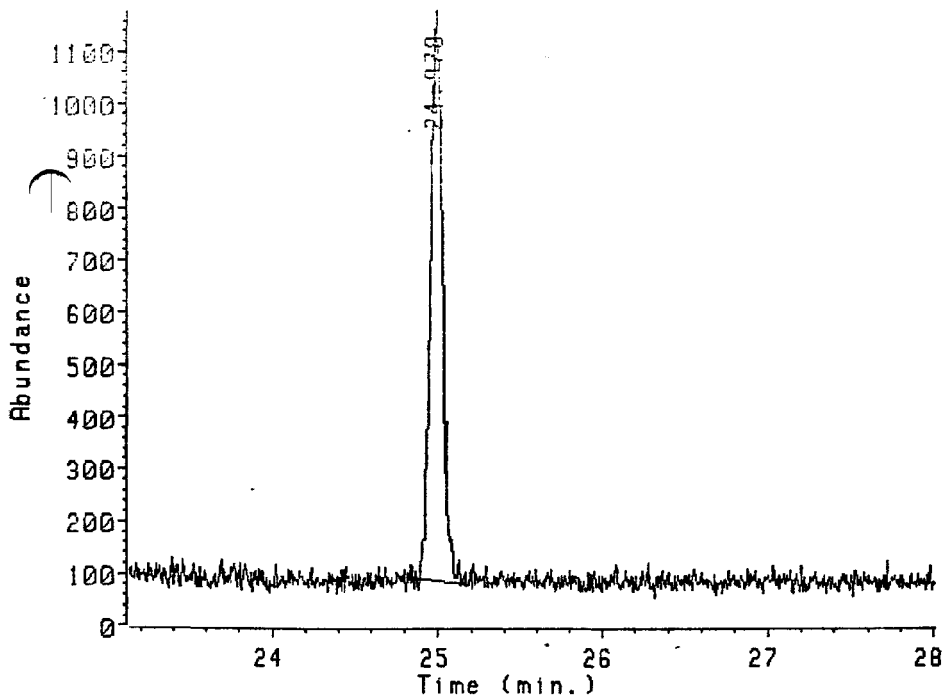
Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

Ion 319.90 amu. from DATA:ICALB02B.D



Ion 319.90 amu. from DATA:ICALB02B.D
CLP CALIBRATION SOLN I

Pe	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.136	55207	24.832	25.168

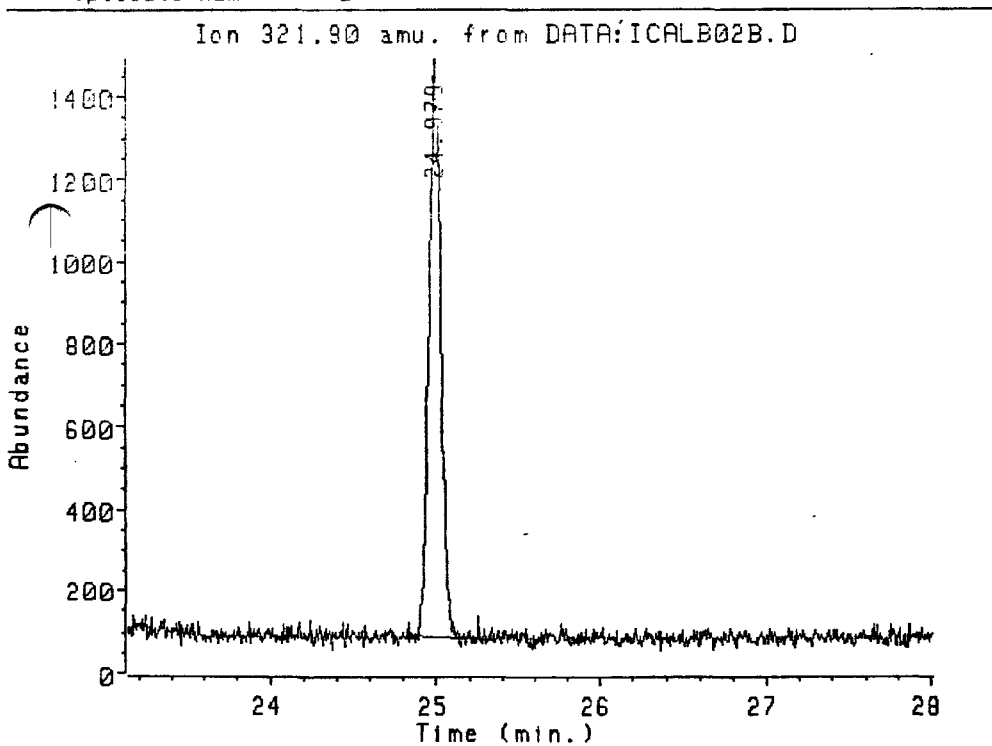
020635

Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2



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Ion 321.90 amu. from DATA:ICALB02B.D
CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.135	69533	24.832	25.339

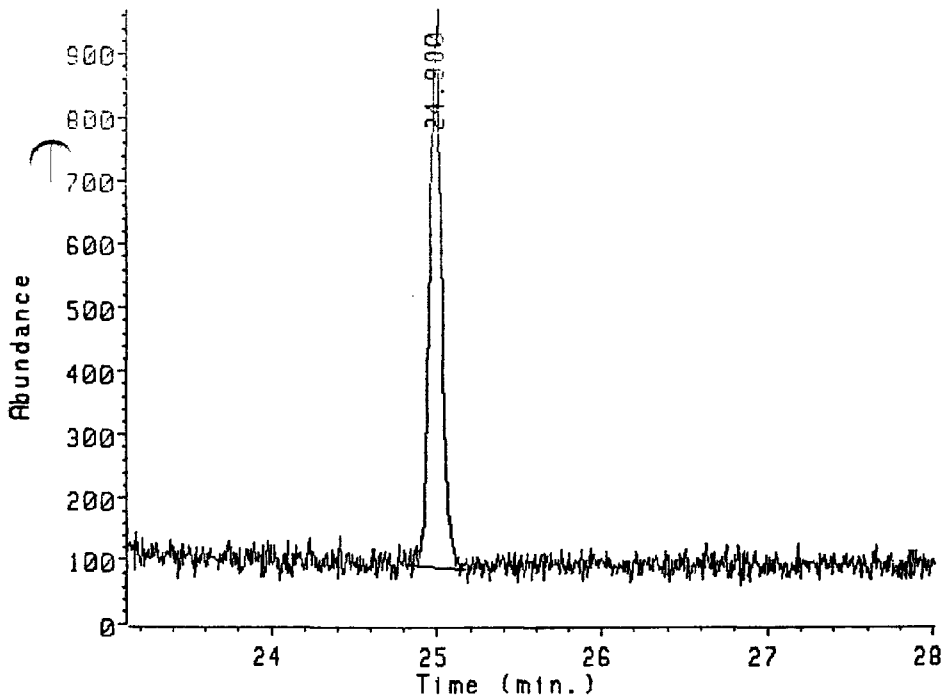
Data file: DATA:ICALB02B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 2

Ion 327.90 amu. from DATA:ICALB02B.D



Ion 327.90 amu. from DATA:ICALB02B.D
 CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.142	44177	24.808	25.170

Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

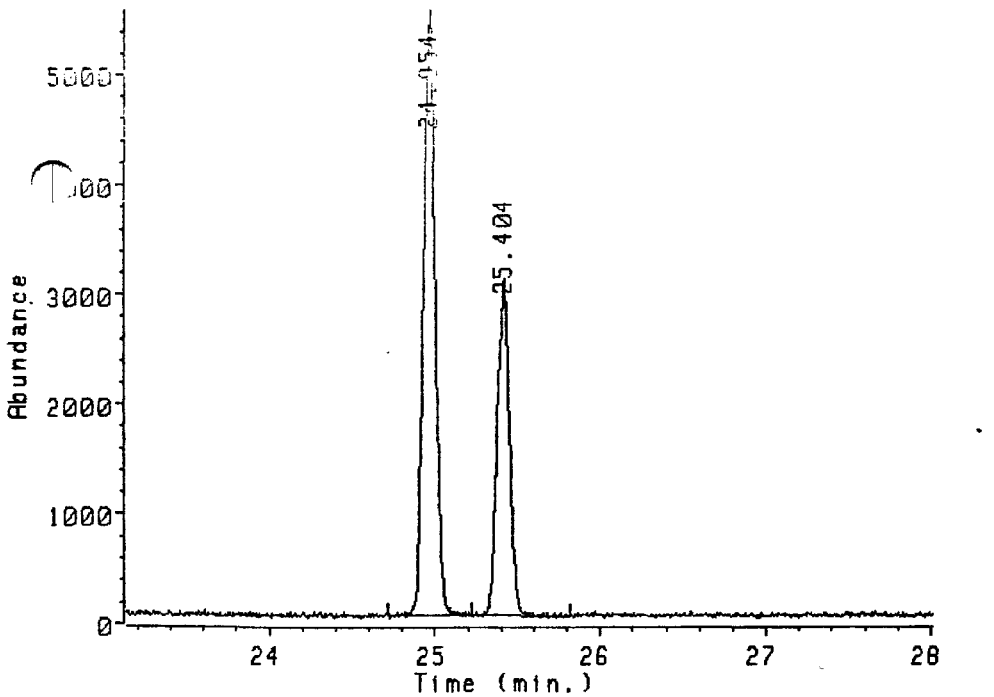
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

020638

Ion 331.80 amu. from DATA:ICALB02B.D



Ion 331.80 amu. from DATA:ICALB02B.D
CLP CALIBRATION SOLN I

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	UB	0.084	270067	24.712	25.218
2	25.404	UB	0.147	155714	25.218	25.822

03220854

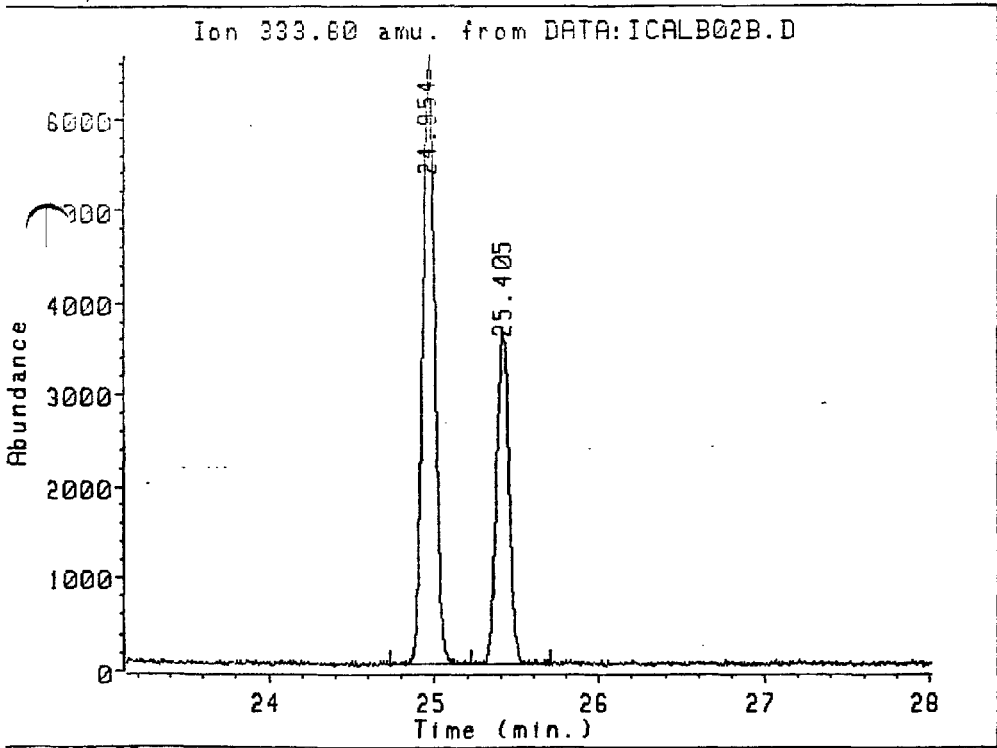
Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

020639



Ion 333.80 amu. from DATA:ICALB02B.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	BU	0.138	334764	24.736	25.218
2	25.405	UB	0.137	190294	25.218	25.701

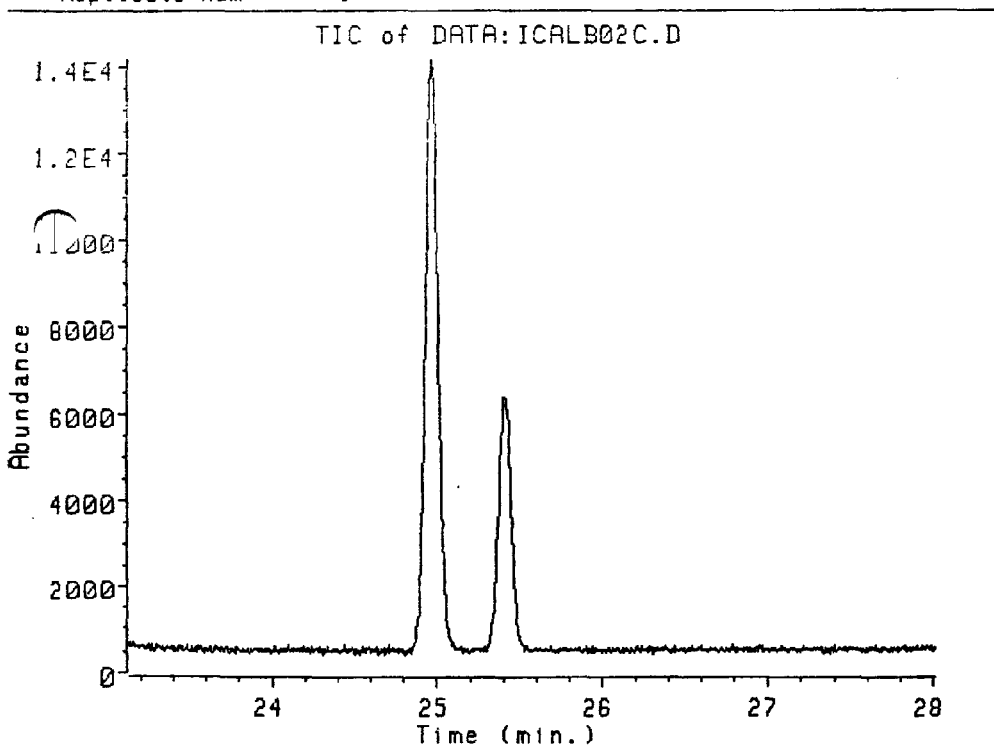
Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

020640



Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

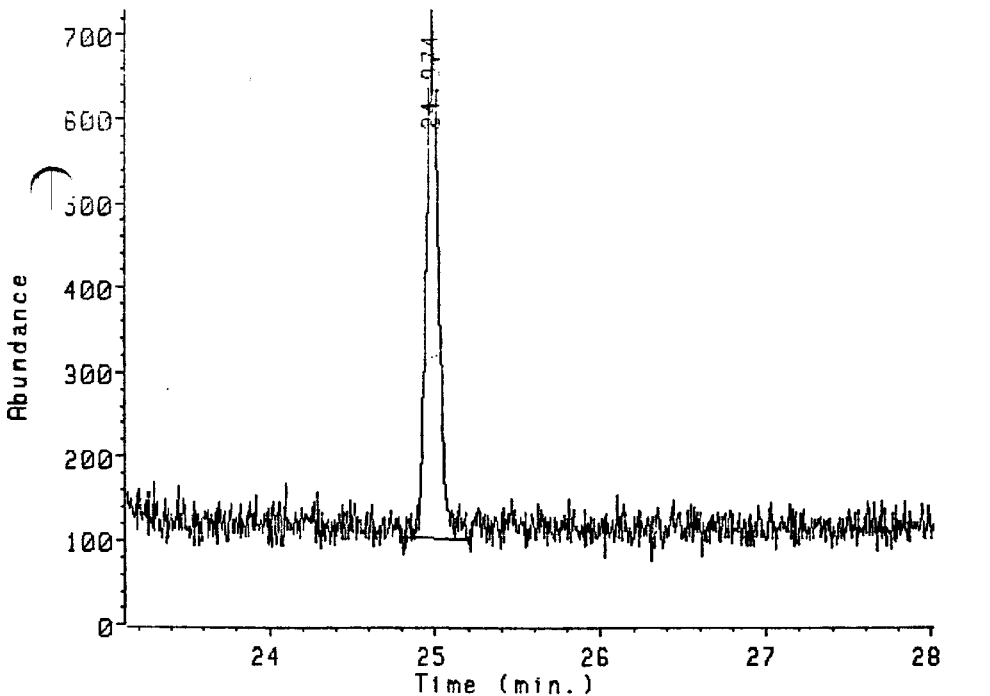
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

0000020641

Ion 258.90 amu. from DATA:ICALB02C.D



Ion 258.90 amu. from DATA:ICALB02C.D
CLP CALIBRATION SOLN I

Pe.	Ret Time	Type	Width	Area	Start Time	End Time
1	24.974	BB	0.124	32393	24.784	25.194

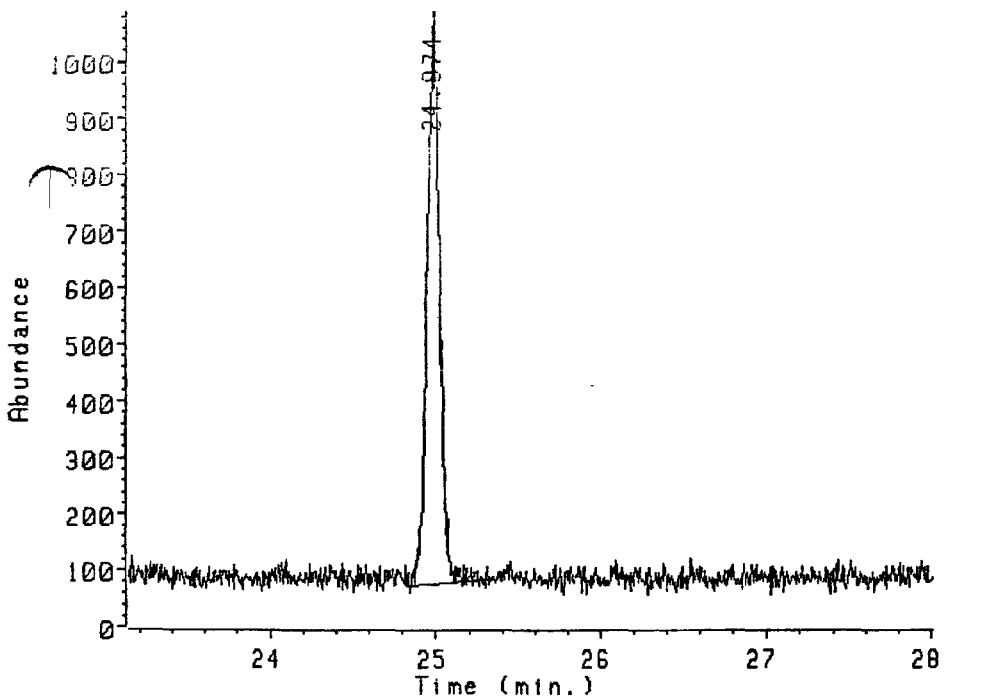
Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

Ion 319.90 amu. from DATA:ICALB02C.D



Ion 319.90 amu. from DATA:ICALB02C.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.974	BU	0.135	52633	24.832	25.314

020642

Data file: DATA:ICALB02C.D
 File type: GC / MS DATA FILE

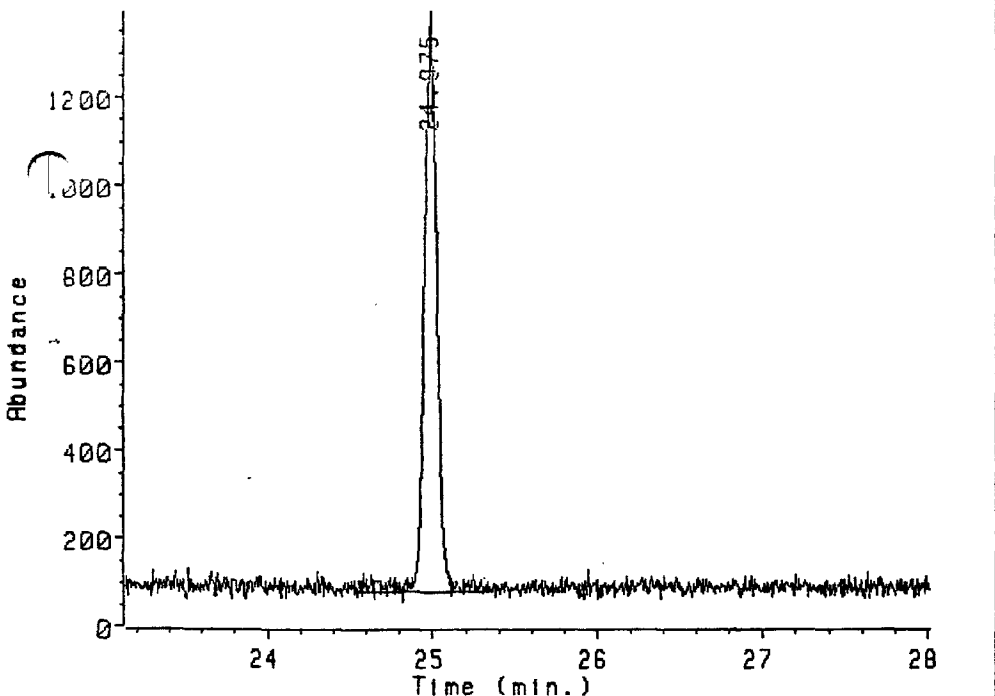
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 3

000000020643

Ion 321.90 amu. from DATA:ICALB02C.D



Ion 321.90 amu. from DATA:ICALB02C.D
 CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.141	70447	24.524	25.338

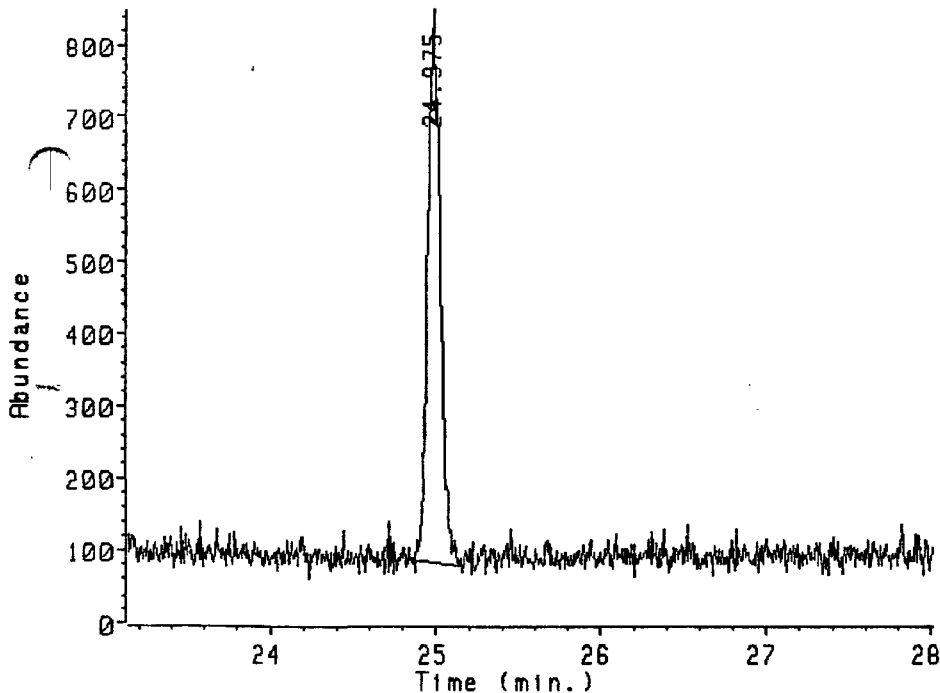
Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

Ion 327.90 amu. from DATA:ICALB02C.D



Ion 327.90 amu. from DATA:ICALB02C.D
CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.136	40204	24.832	25.150

03220860

020644

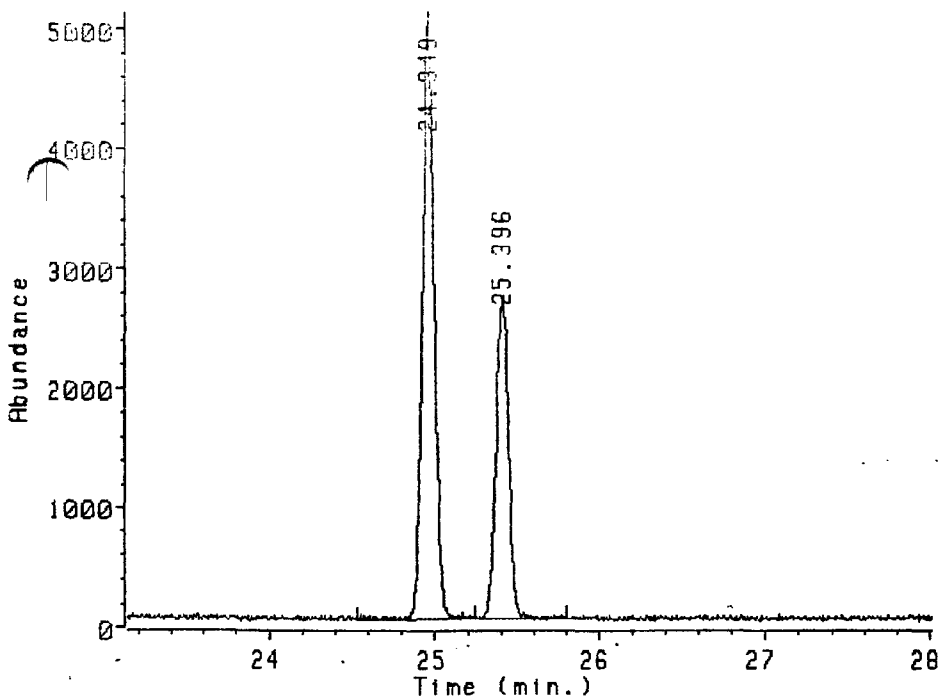
Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

Ion 331.80 amu. from DATA:ICALB02C.D



Ion 331.80 amu. from DATA:ICALB02C.D
CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.949	UV	0.127	245540	24.530	25.242
2	25.396	UV	0.087	140270	25.242	25.797

03220861

020645

00000

Data file: DATA:NCALA03C.D
File type: GC / MS DATA FILE

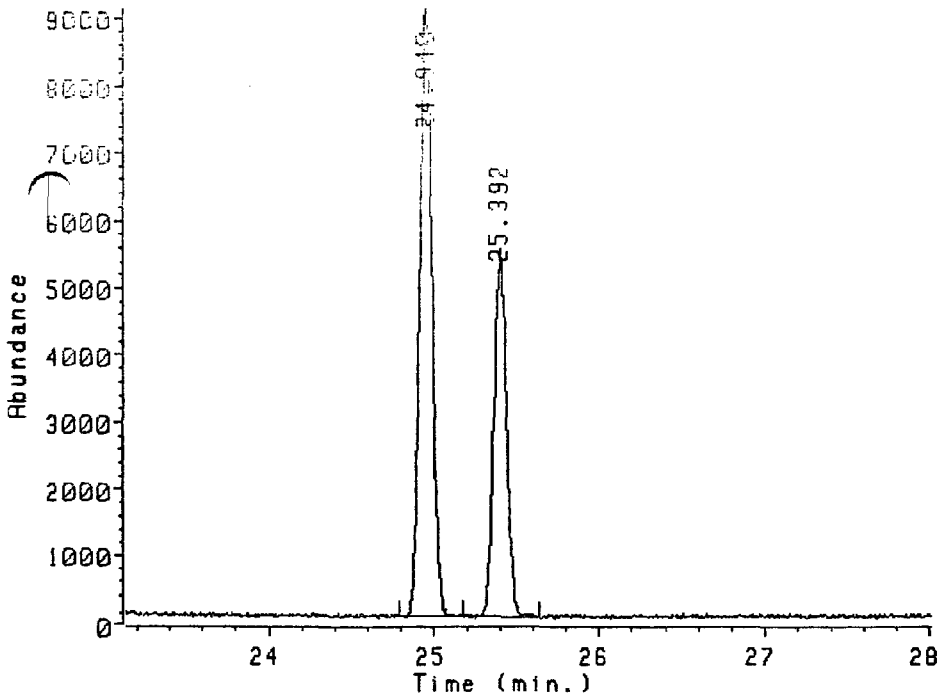
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 3

020646

Ion 333.80 amu. from DATA:NCALA03C.D



Ion 333.80 amu. from DATA:NCALA03C.D
CLP CALIBRATION SOLN III

Pe	Ret Time	Type	Width	Area	Start Time	End Time
1	24.940	BV	0.087	455495	24.784	25.179
2	25.392	PB	0.124	279459	25.179	25.638

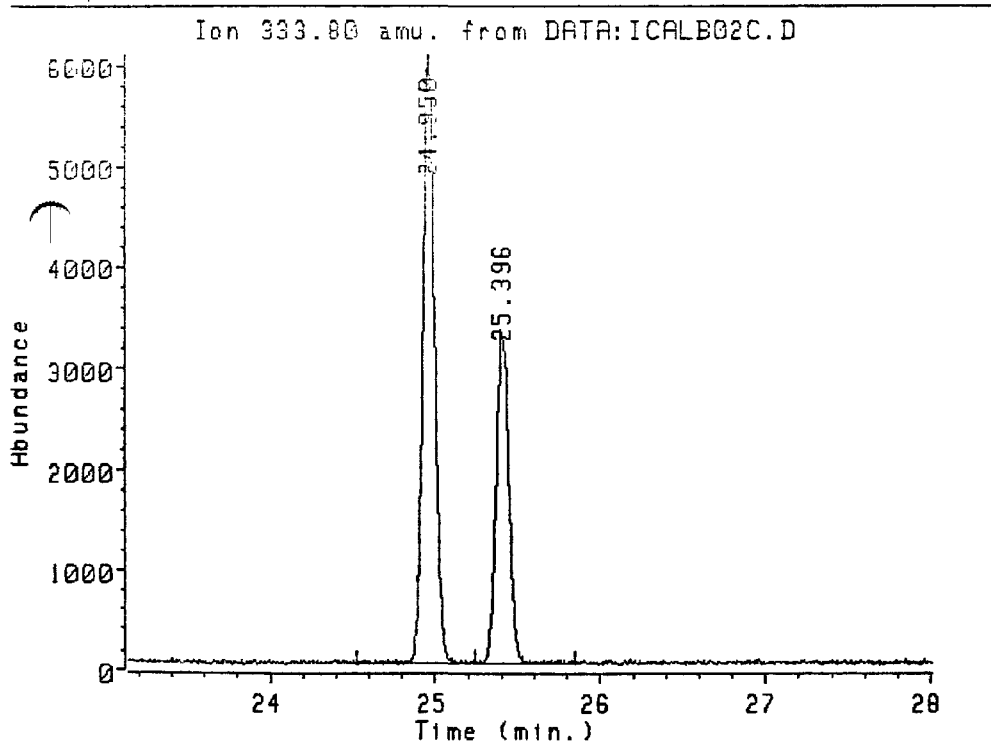
Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

020647



Ion 333.80 amu. from DATA:ICALB02C.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.950	BU	0.141	304190	24.524	25.242
2	25.396	UB	0.089	172777	25.242	25.845

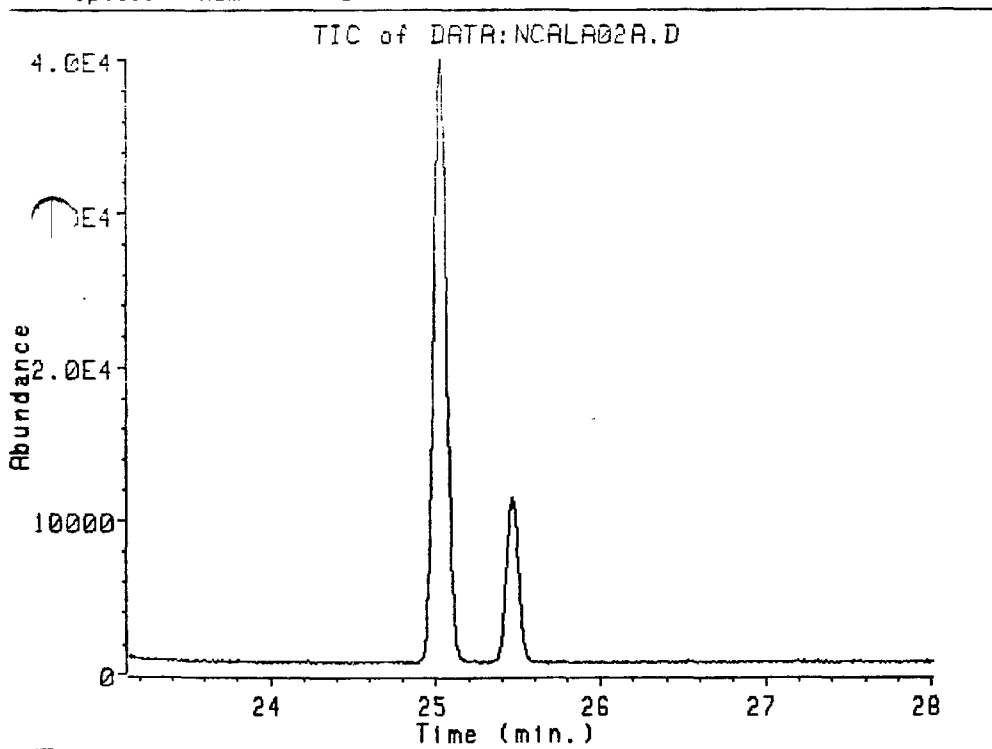
03220863

Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1



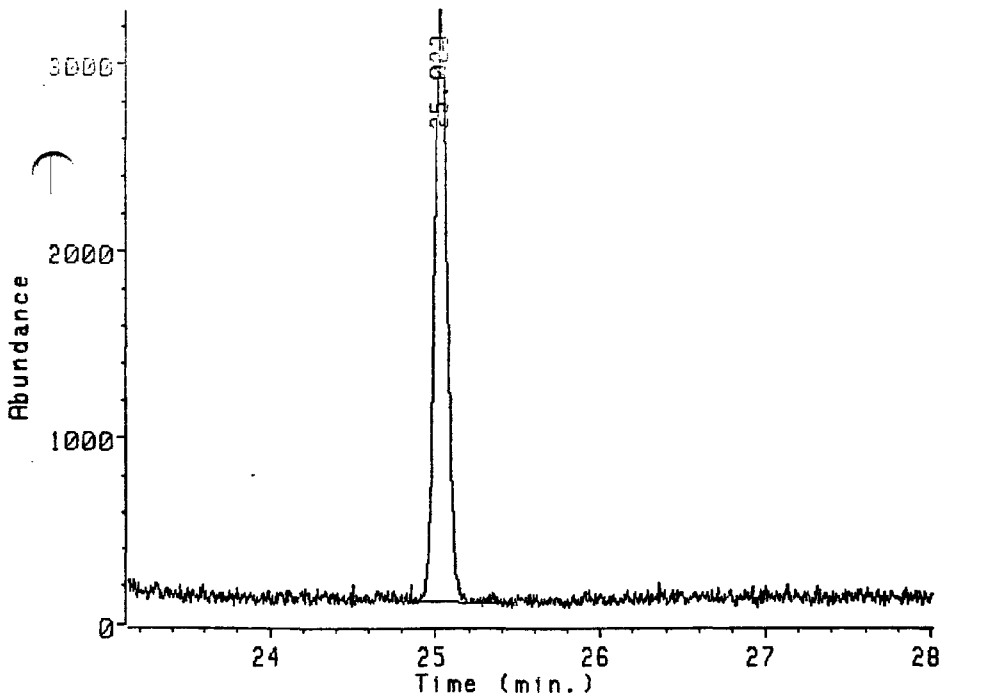
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

Ion 258.90 amu. from DATA:NCALA02A.D



Ion 258.90 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.023	BB	0.133	167049	24.856	25.436

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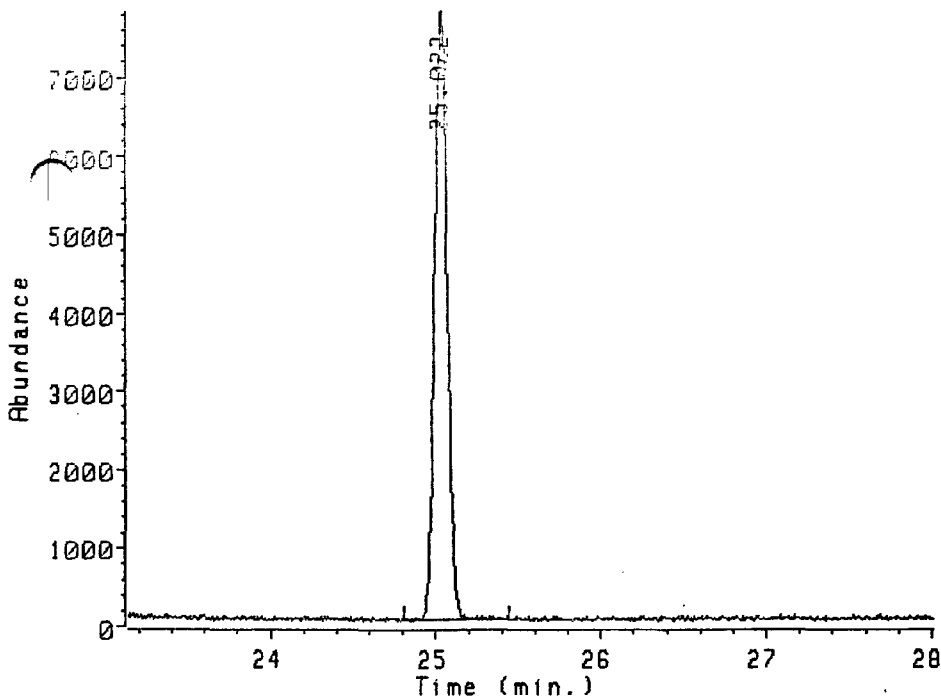
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

Ion 319.90 amu. from DATA:NCALA02A.D



Ion 319.90 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	25.022	BB	0.142	421706	24.808	25.436

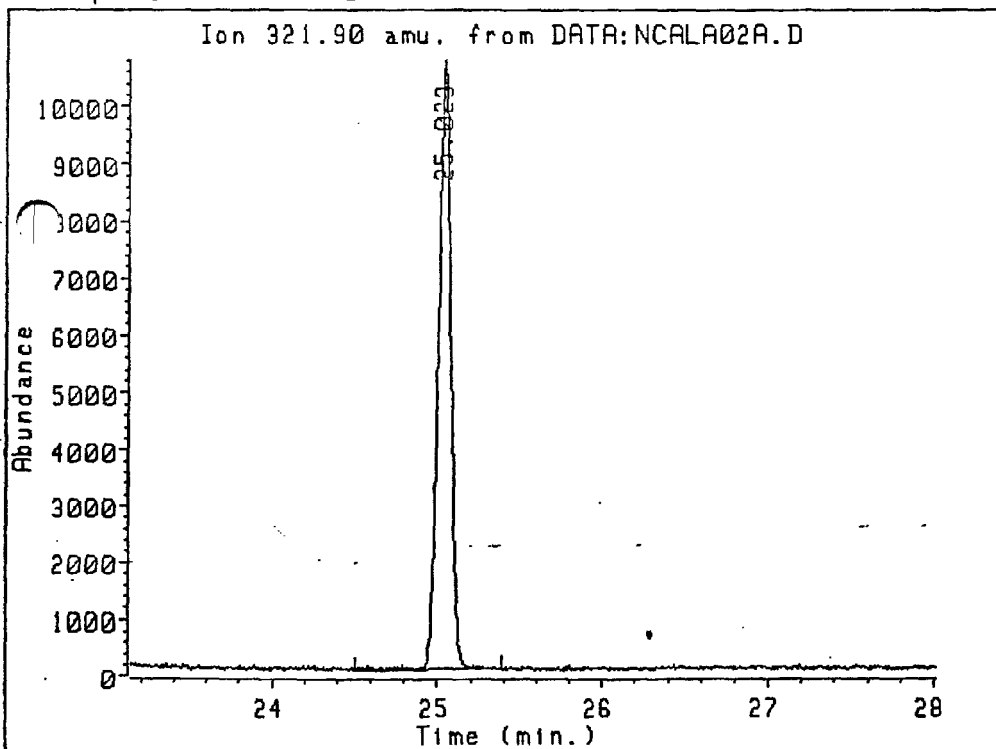
000000020650

Data file: DATA:NCALA02A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 1



Ion 321.90 amu. from DATA:NCALA02A.D
 CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.023	BB	0.132	555954	24.501	25.387

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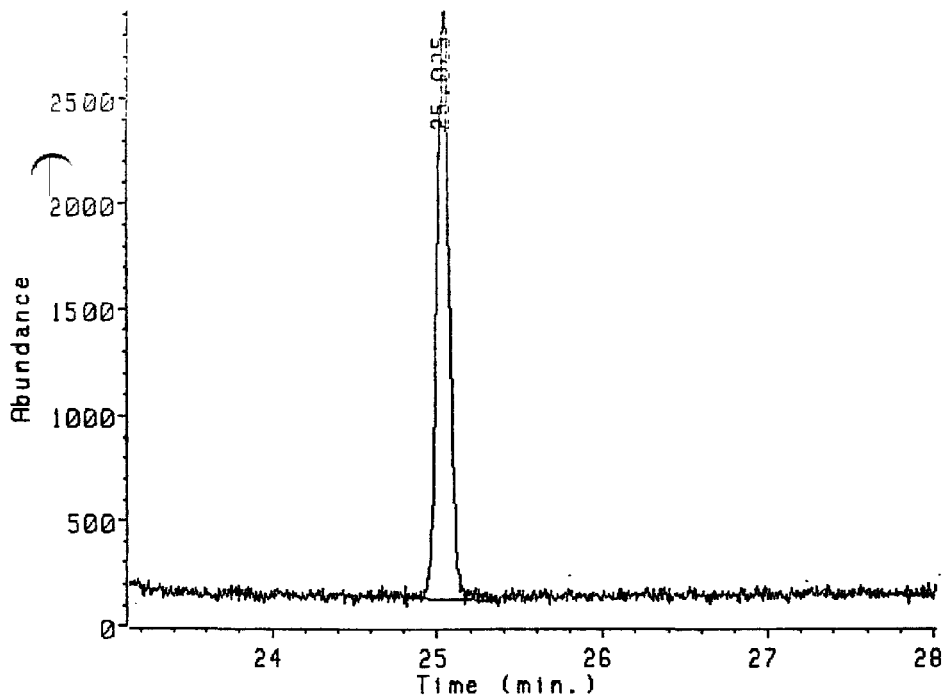
Data File: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

Ion 327.90 amu. from DATA:NCALA02A.D



Ion 327.90 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.025	BV	0.128	147075	24.808	25.363

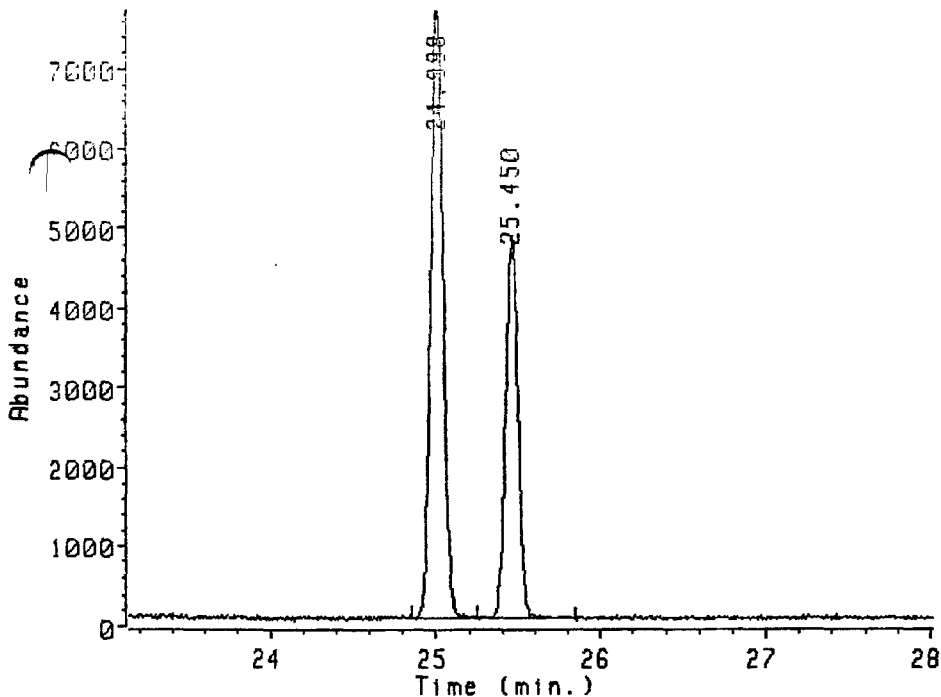
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

Ion 331.80 amu. from DATA:NCALA02A.D :



Ion 331.80 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.998	BV	0.132	401101	24.856	25.247
2	25.450	PB	0.140	253790	25.247	25.846

0000000020653

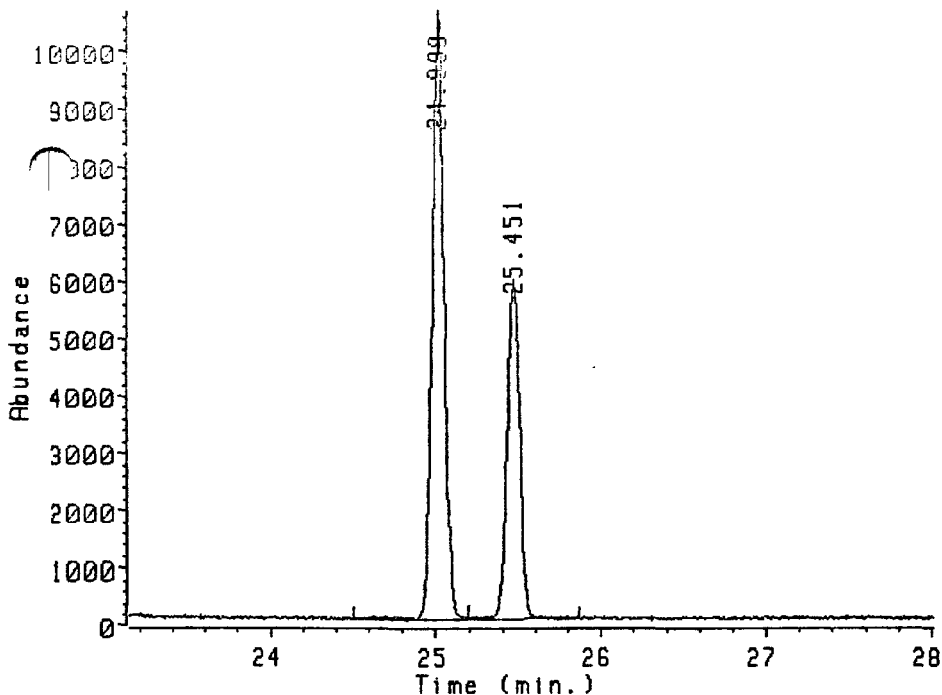
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

Ion 333.80 amu. from DATA:NCALA02A.D



Ion 333.80 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.999	UV	0.135	515970	24.501	25.194
2	25.451	UV	0.130	311433	25.194	25.870

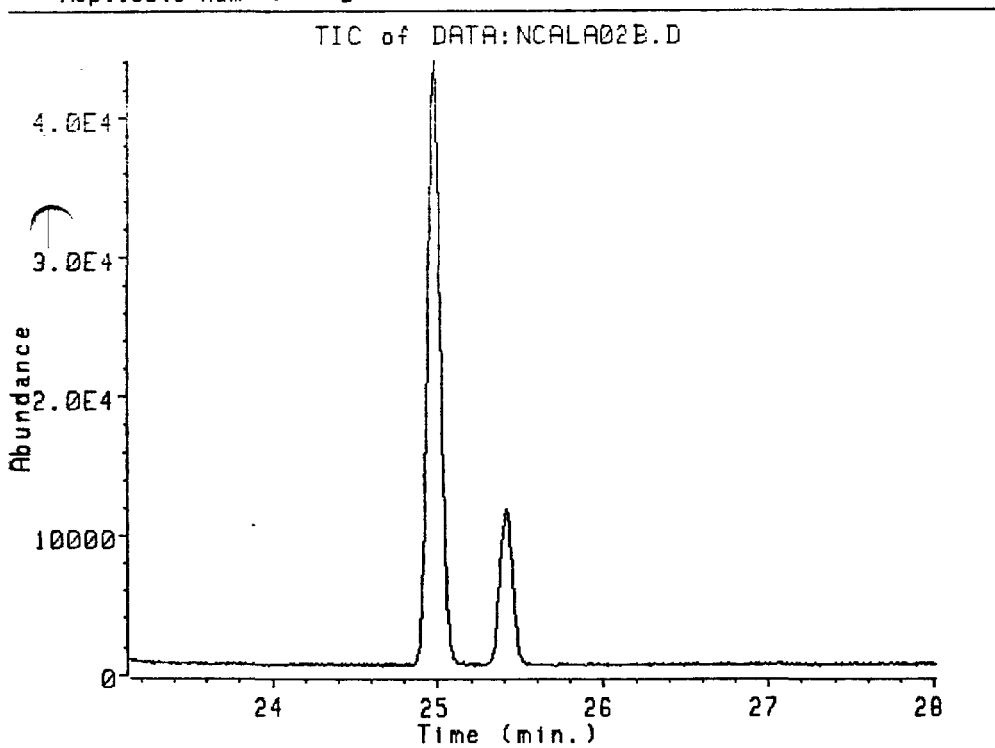
000000020654

Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2



000000020655

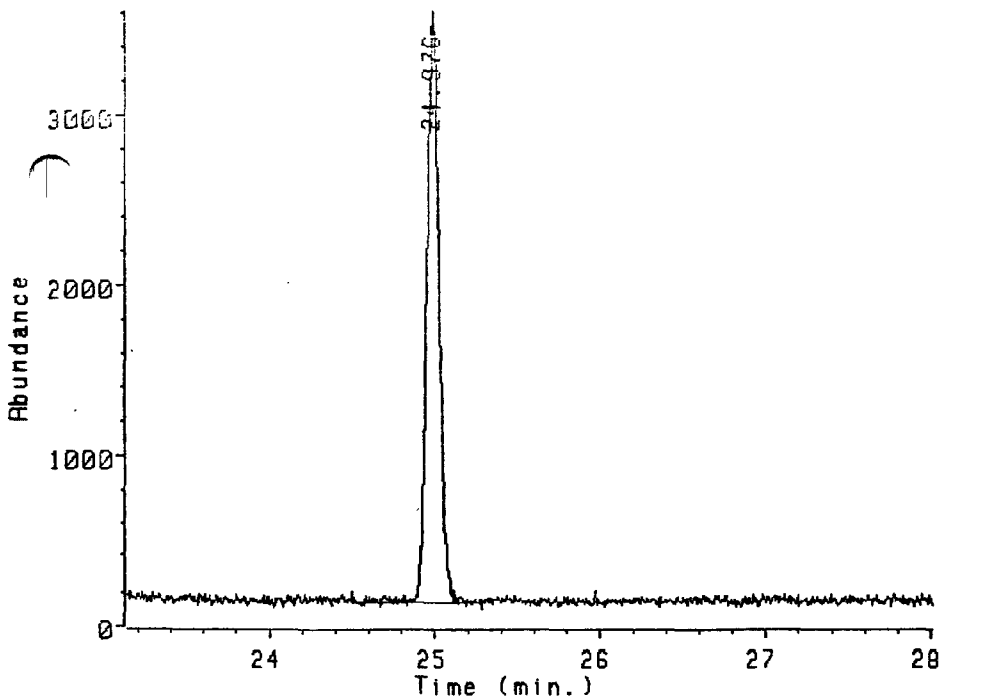
Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

Ion 258.90 amu. from DATA:NCALA02B.D



Ion 258.90 amu. from DATA:NCALA02B.D
 CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.123	178879	24.497	25.266

000000020656

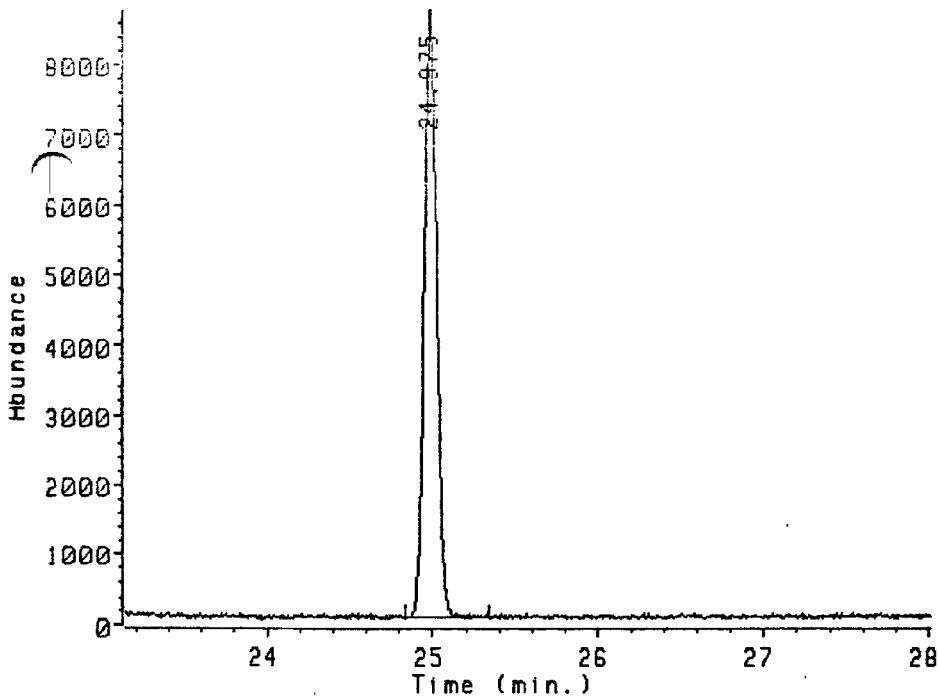
Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

Ion 319.90 amu. from DATA:NCALA02B.D



Ion 319.90 amu. from DATA:NCALA02B.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.150	446509	24.832	25.339

000000020657

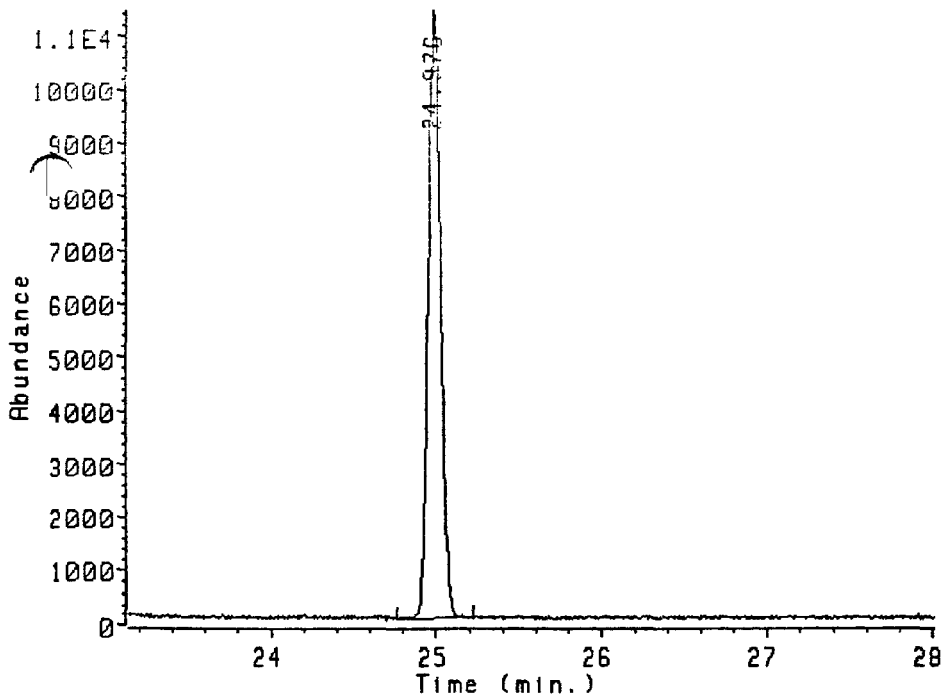
Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

Ion 321.90 amu. from DATA:NCALA02B.D



Ion 321.90 amu. from DATA:NCALA02B.D
 CLP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.150	583866	24.760	25.218

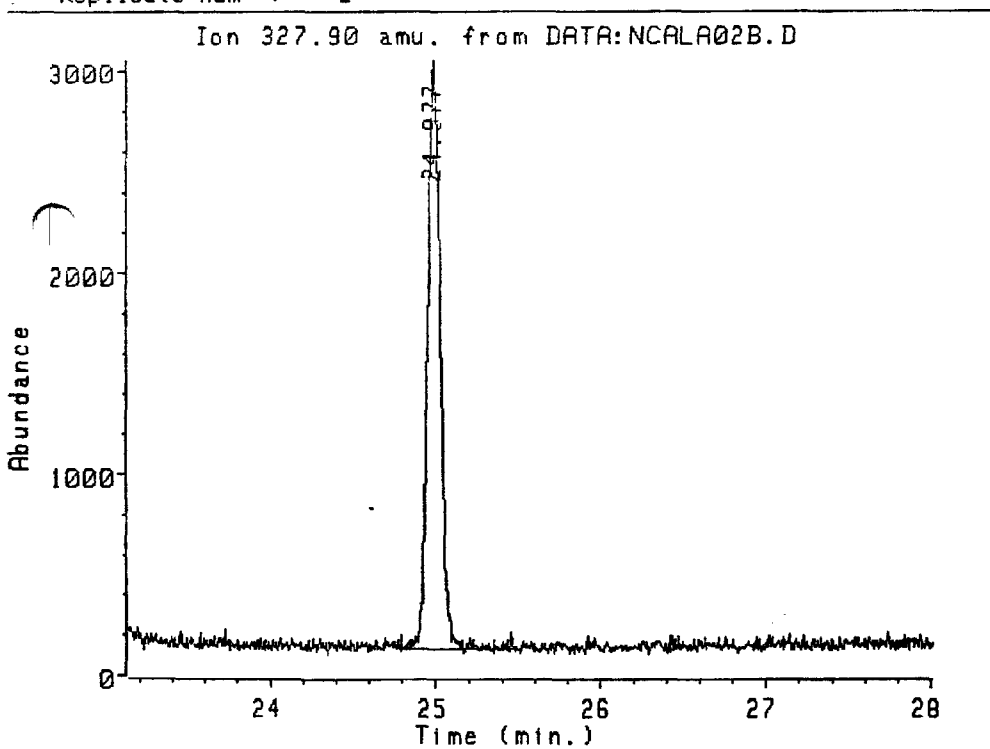
0000000020658

Date file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2



Ion 327.90 amu. from DATA:NCALA02B.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.977	BB	0.138	154612	24.784	25.483

020659

Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

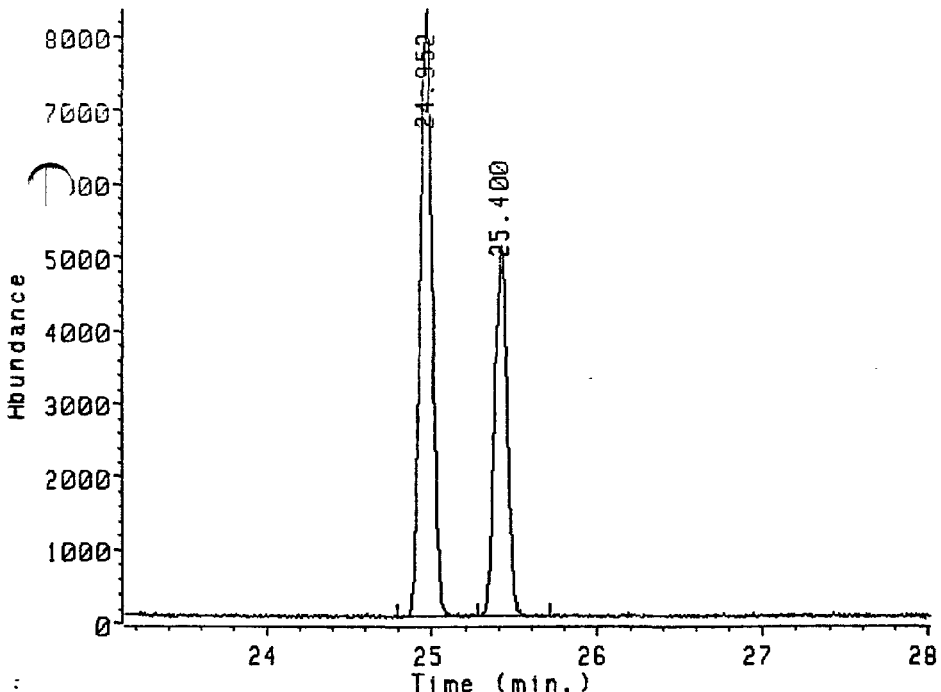
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

000000020660

Ion 331.80 amu. from DATA:NCALA02B.D



Ion 331.80 amu. from DATA:NCALA02B.D
CLP CALIBRATION SOLN II

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.952	VB	0.141	415810	24.784	25.266
2	25.400	VB	0.132	258862	25.266	25.700

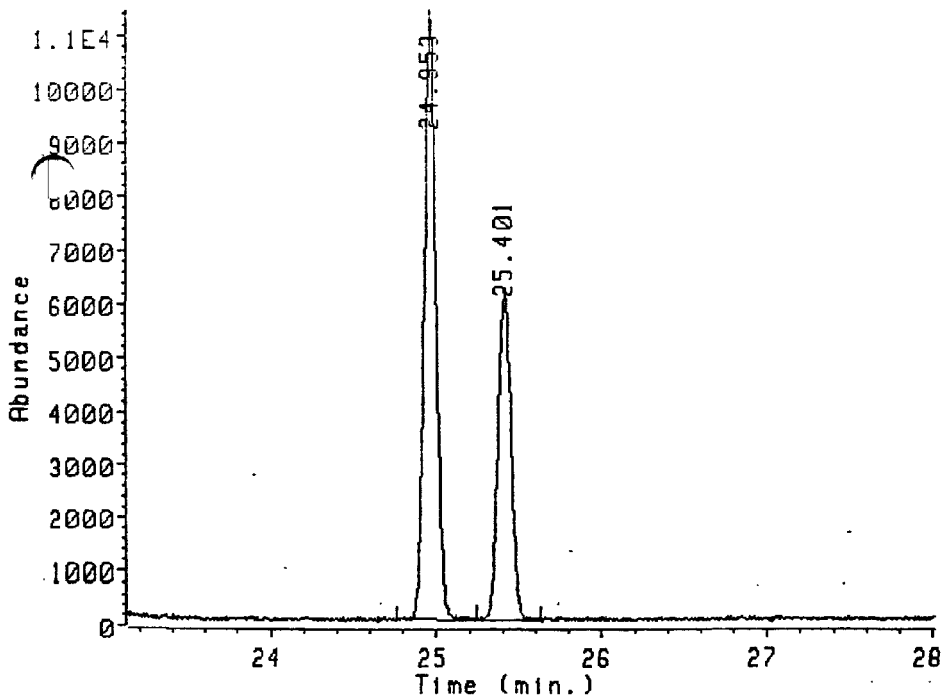
Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

Ion 333.80 amu. from DATA:NCALA02B.D



Ion 333.80 amu. from DATA:NCALA02B.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.953	BU	0.128	542426	24.760	25.242
2	25.401	UB	0.136	322356	25.242	25.628

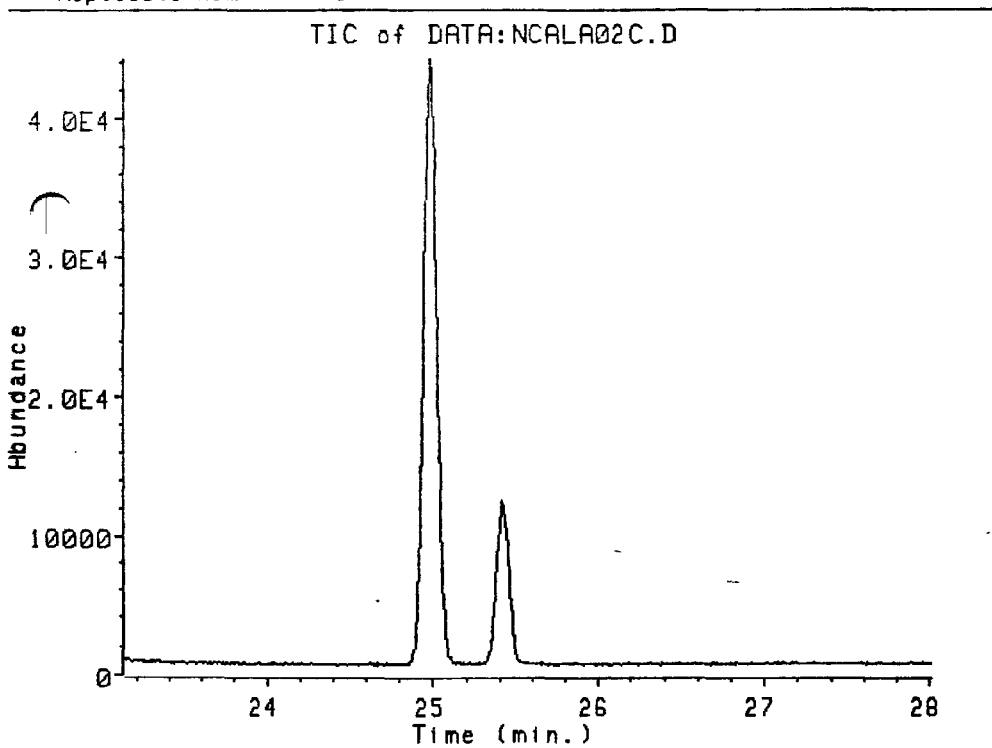
000000020661

Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
ALS bottle num : 2
Replicate num : 3



020662

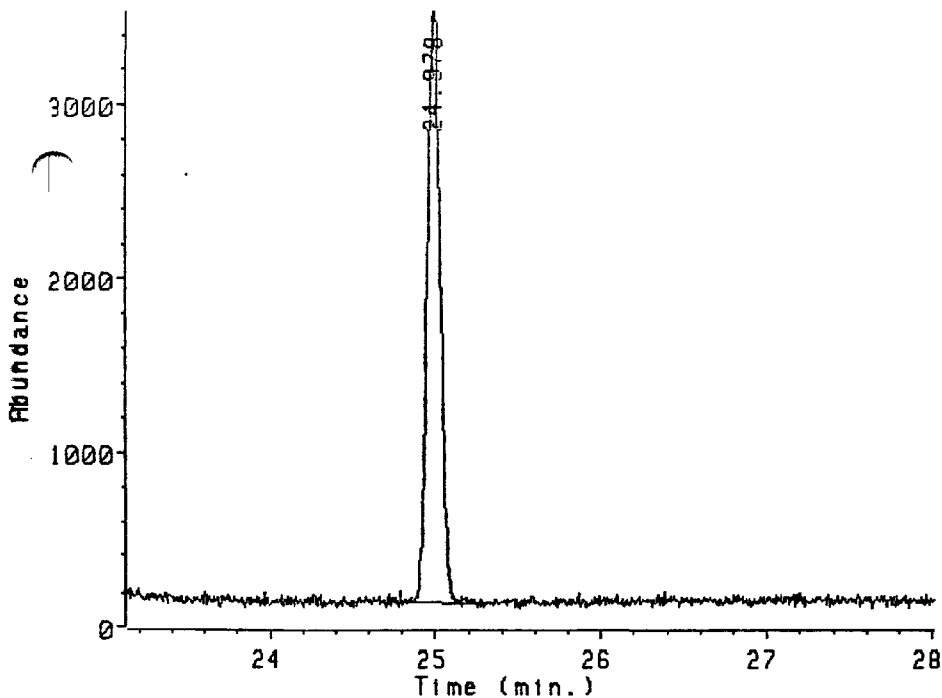
Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

Ion 258.90 amu. from DATA:NCALA02C.D



Ion 258.90 amu. from DATA:NCALA02C.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.130	184844	24.784	25.290

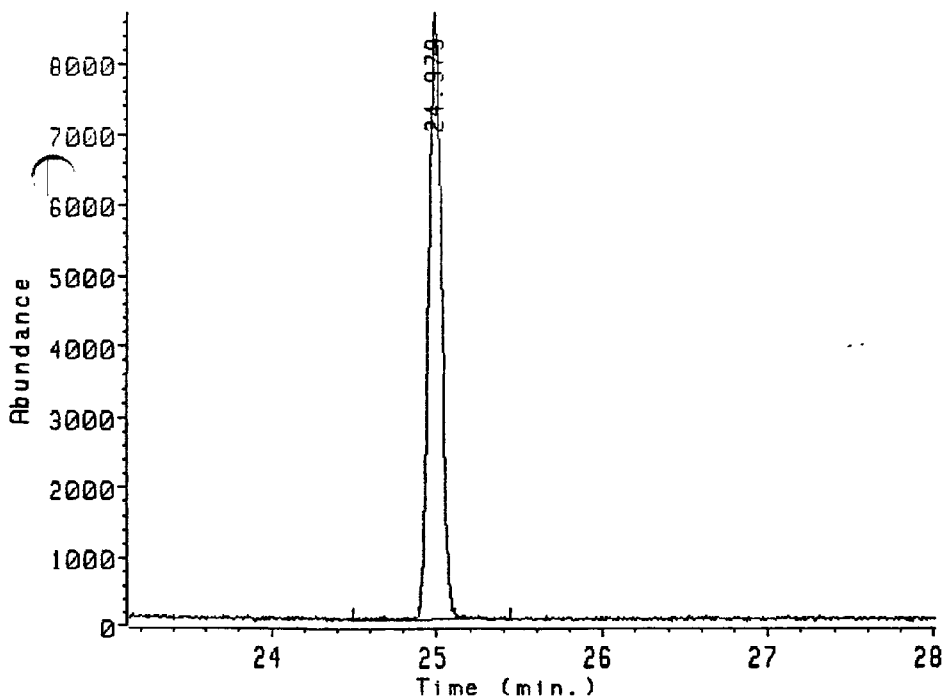
Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

Ion 319.90 amu. from DATA:NCALA02C.D



Ion 319.90 amu. from DATA:NCALA02C.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.149	465248	24.497	25.435

020664

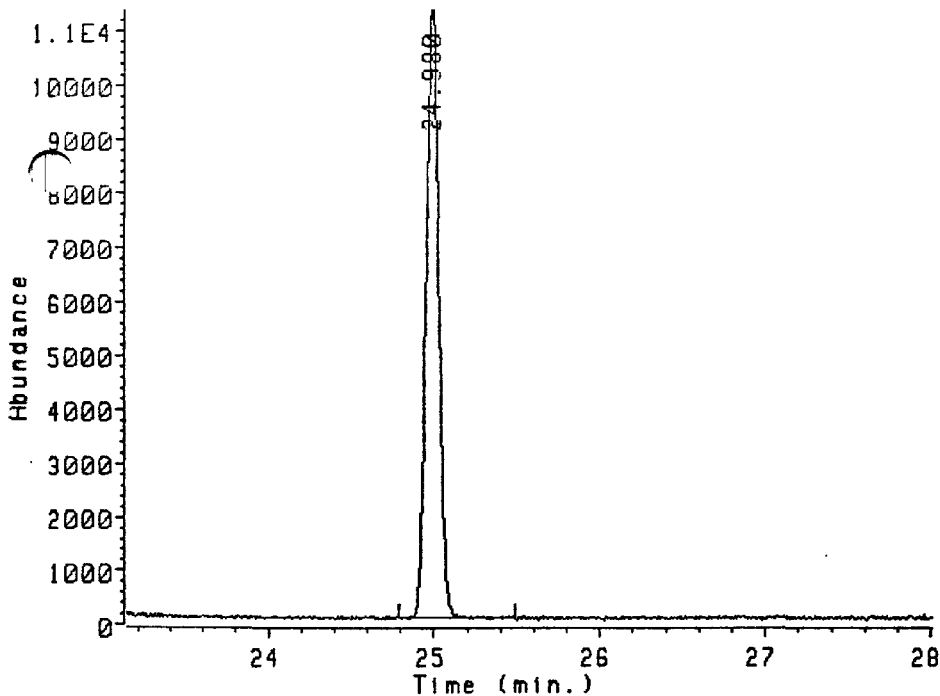
Data file: DATA:NCALA02C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 3

Ion 321.90 amu. from DATA:NCALA02C.D



Ion 321.90 amu. from DATA:NCALA02C.D
 CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.149	597732	24.784	25.483

020665

Data file: DATA:NCALA02C.D
 File type: GC / MS DATA FILE

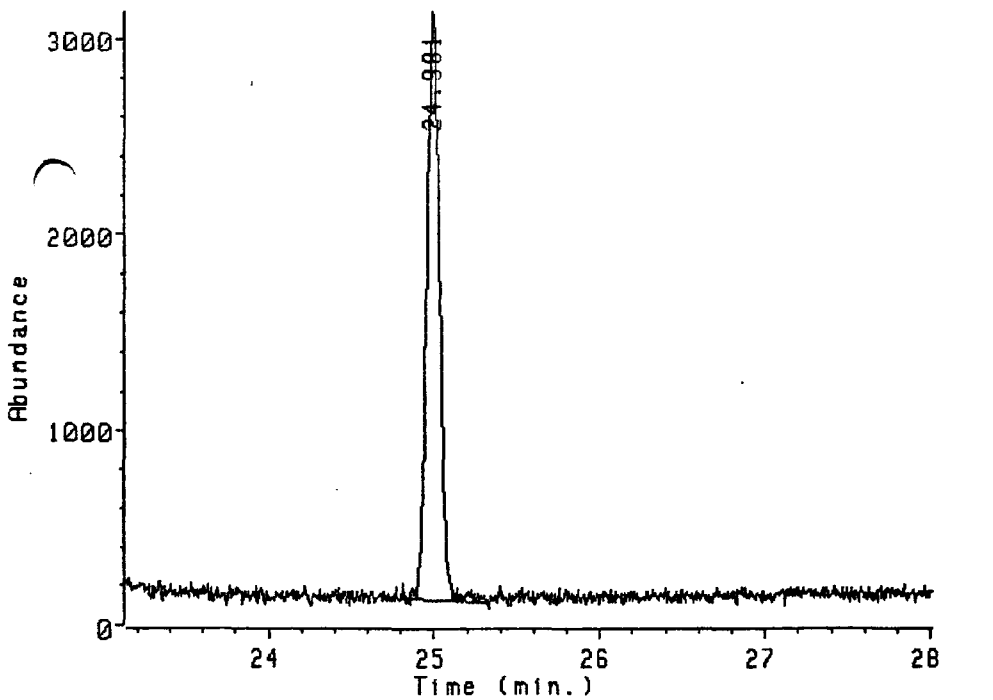
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 3

020666

Ion 327.90 amu. from DATA:NCALA02C.D



Ion 327.90 amu. from DATA:NCALA02C.D
 CLP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.981	BU	0.135	158244	24.808	25.314

03220882

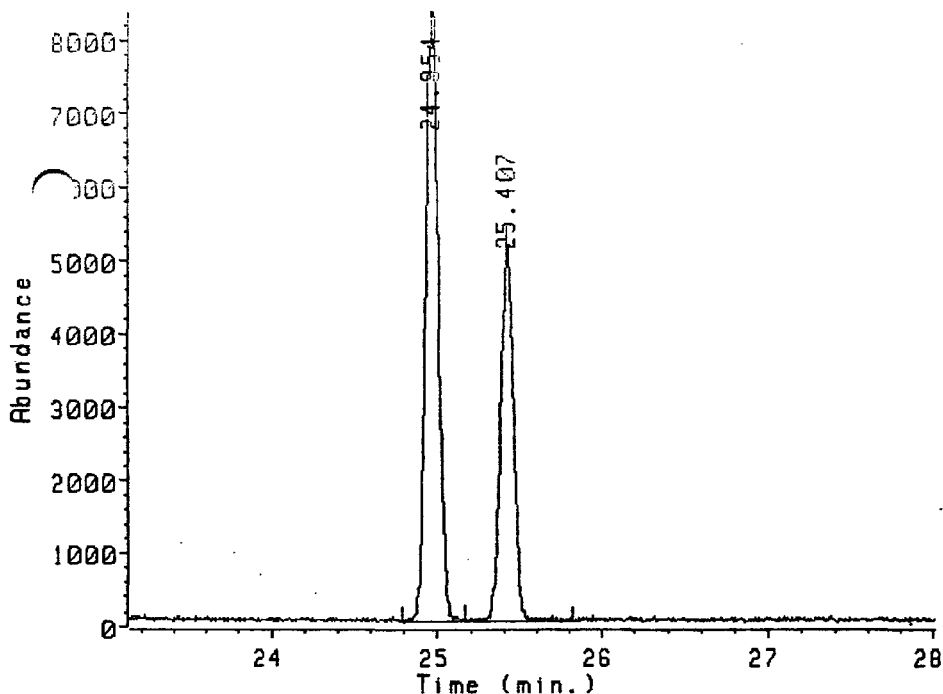
Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

Ion 331.80 amu. from DATA:NCALA02C.D



Ion 331.80 amu. from DATA:NCALA02C.D
CLP CALIBRATION SOLN II

Pe.	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	BU	0.144	436747	24.784	25.170
2	25.407	UB	0.152	270270	25.170	25.821

020667

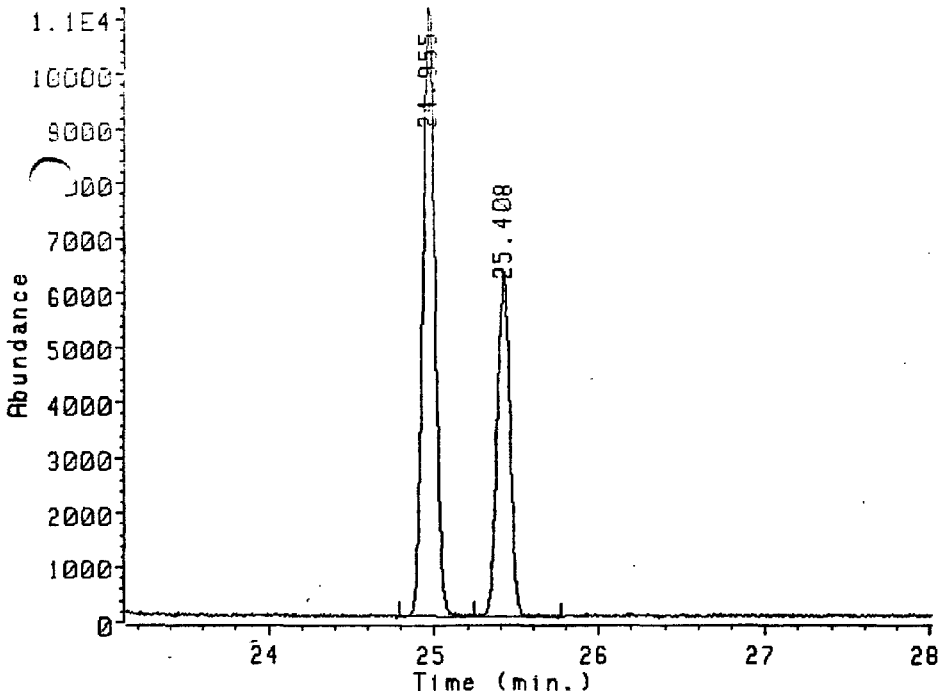
Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

Ion 333.80 amu. from DATA:NCALA02C.D



Ion 333.80 amu. from DATA:NCALA02C.D
CLP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.955	UV	0.145	557568	24.784	25.242
2	25.408	UV	0.137	328103	25.242	25.773

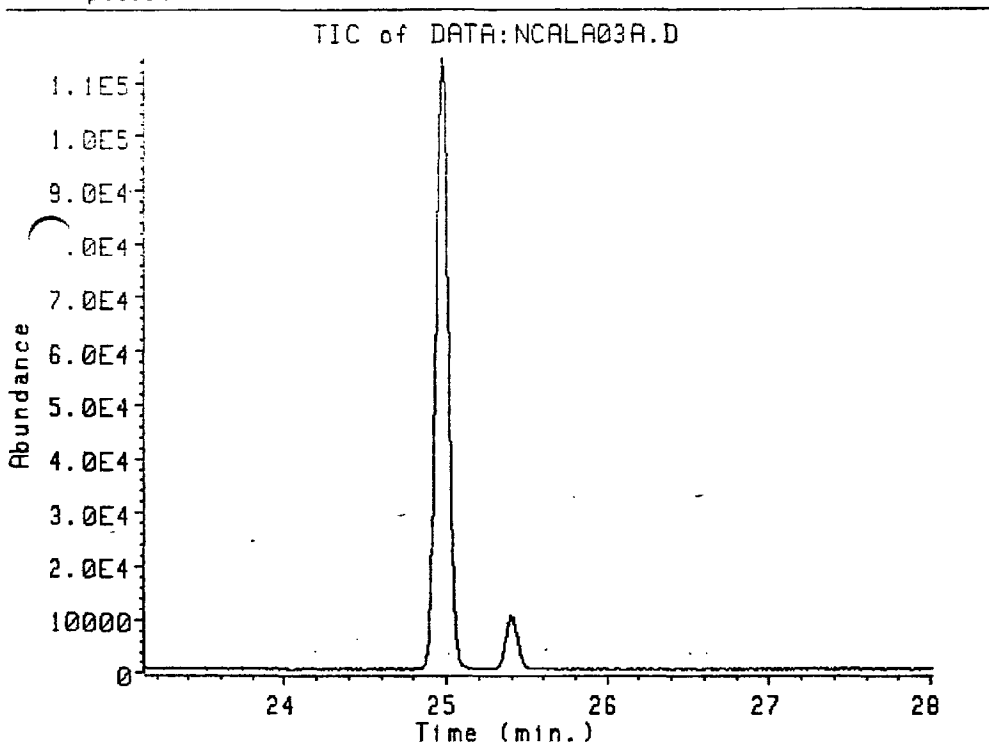
000000020668

Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1



000000020669

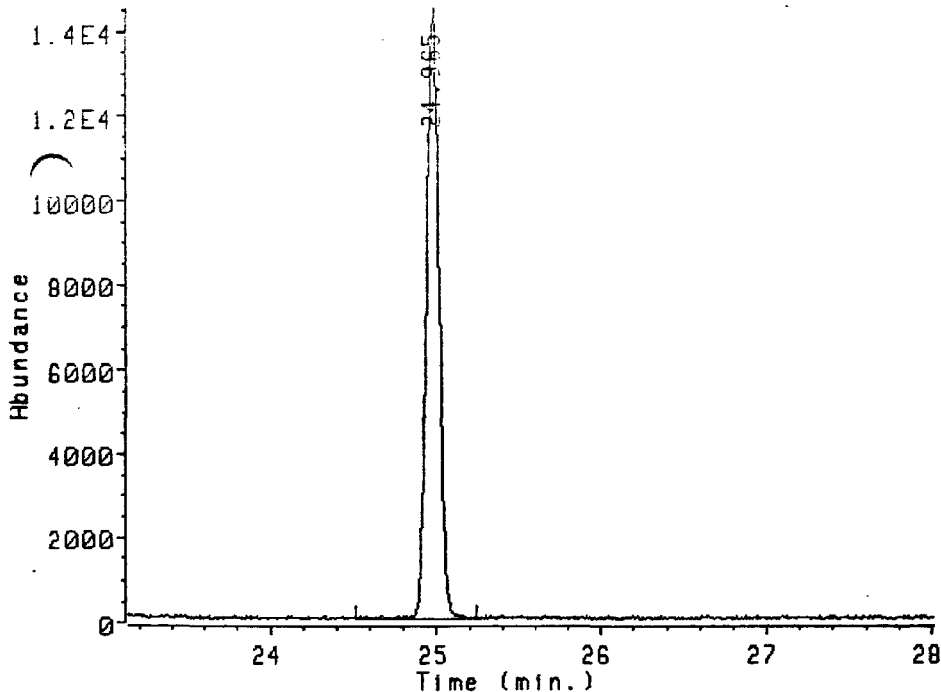
Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

Ion 258.90 amu. from DATA:NCALA03A.D



Ion 258.90 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.965	BU	0.090	761126	24.519	25.242

000000020670

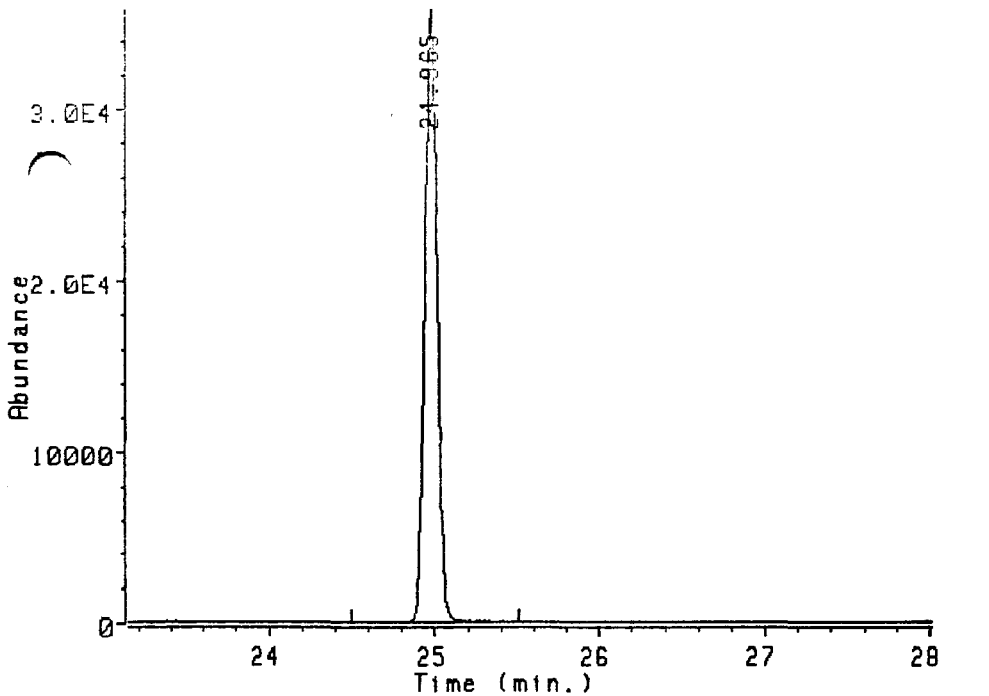
Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

Ion 319.90 amu. from DATA:NCALA03A.D



Ion 319.90 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.965	BB	0.090	1874520	24.497	25.508

03220867

000000020671

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

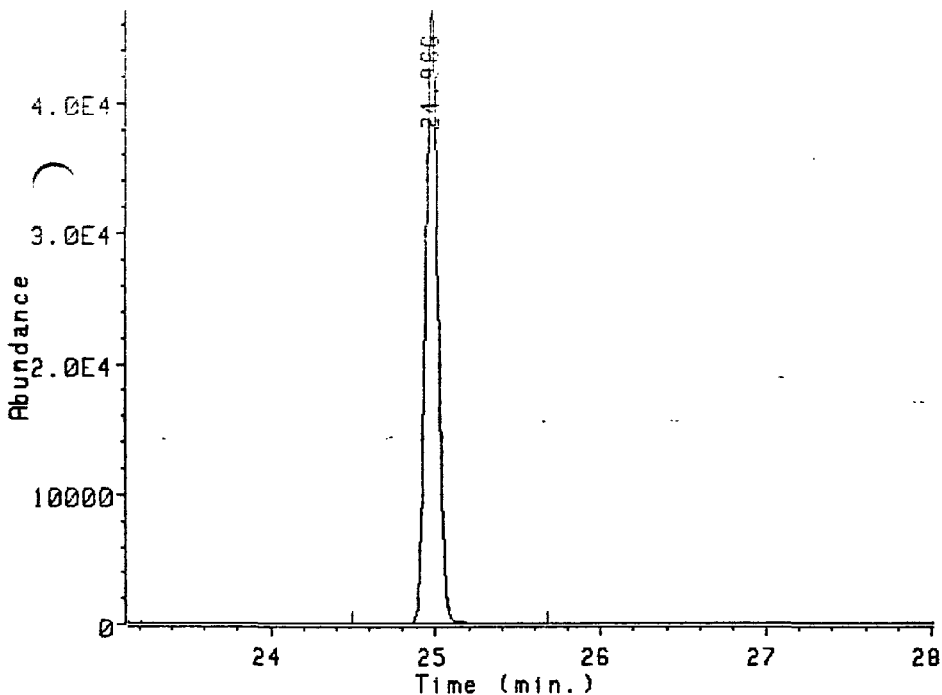
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

000000020672

Ion 321.90 amu. from DATA:NCALA03A.D



Ion 321.90 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.966	BB	0.154	2435132	24.497	25.677

03220868

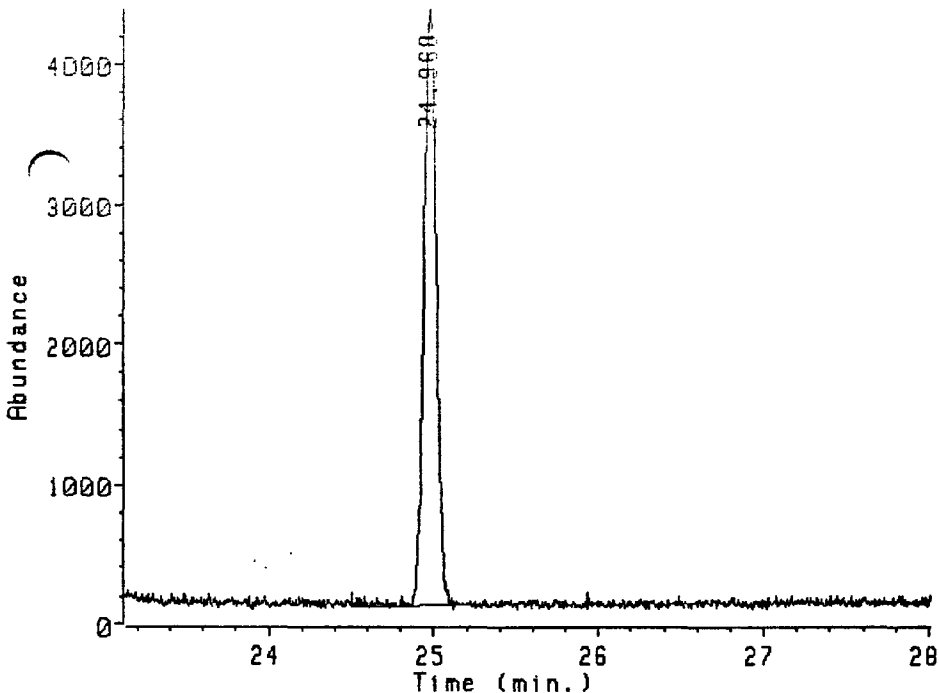
Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1

Ion 327.90 amu. from DATA:NCALA03A.D



Ion 327.90 amu. from DATA:NCALA03A.D
CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.968	BB	0.140	225524	24.507	25.315

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

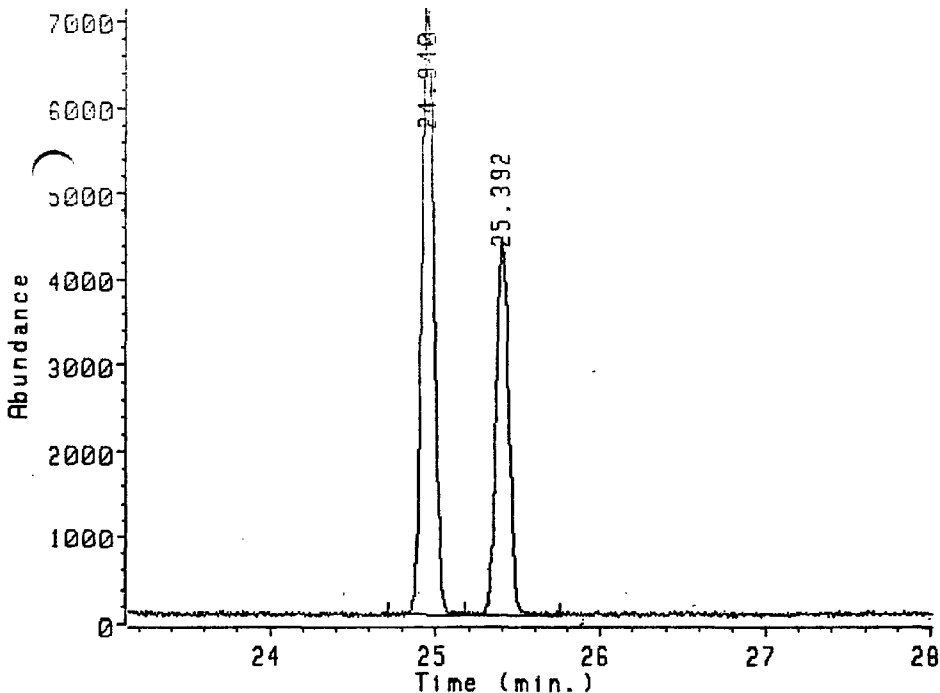
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

00000 1020674

Ion 331.80 amu. from DATA:NCALA03A.D



Ion 331.80 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.940	BU	0.087	365137	24.712	25.177
2	25.392	UB	0.128	228821	25.177	25.749

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

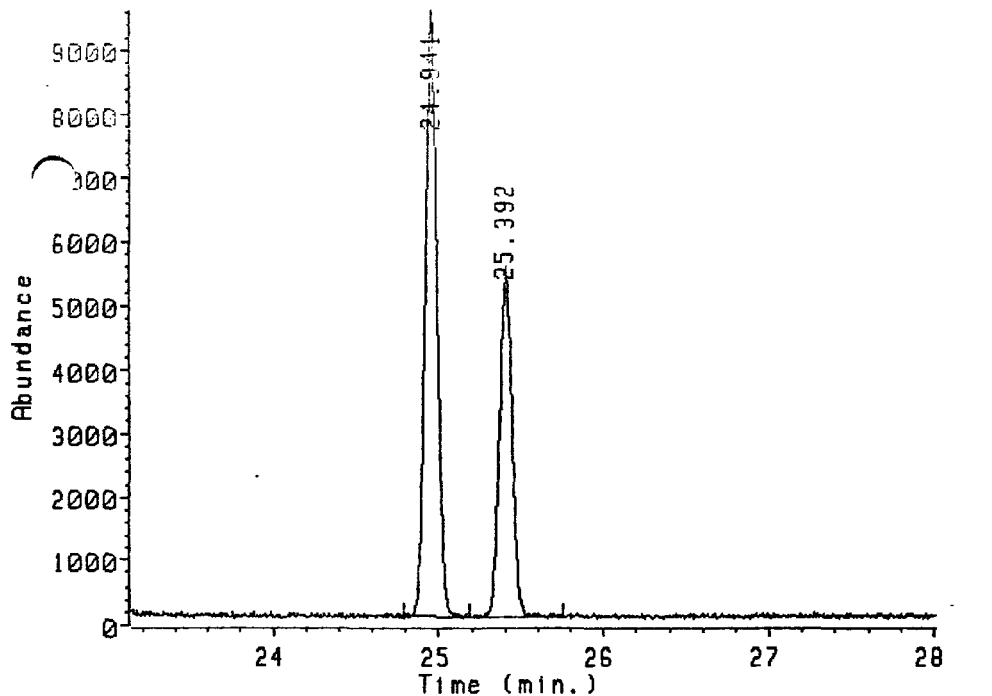
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

020675

Ion 333.80 amu. from DATA:NCALA03A.D



Ion 333.80 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.941	BU	0.155	460954	24.784	25.185
2	25.392	PB	0.131	280484	25.185	25.749

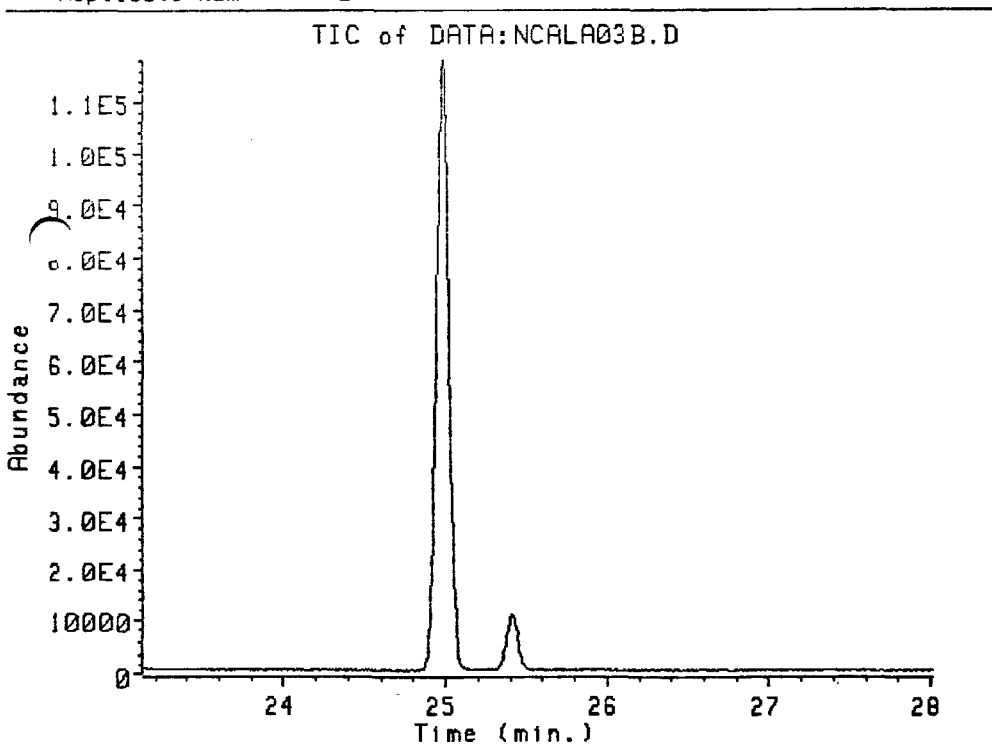
Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

020676



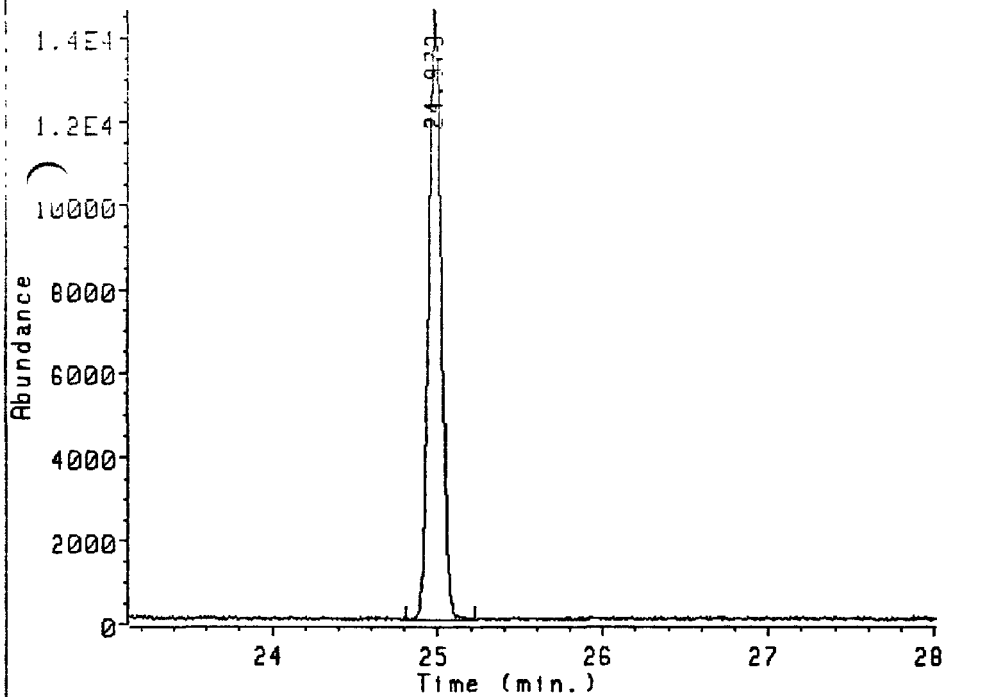
Data file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2

Ion 258.90 amu. from DATA:NCALA03B.D



Ion 258.90 amu. from DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.157	767960	24.808	25.225

03220893

020677

Data file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

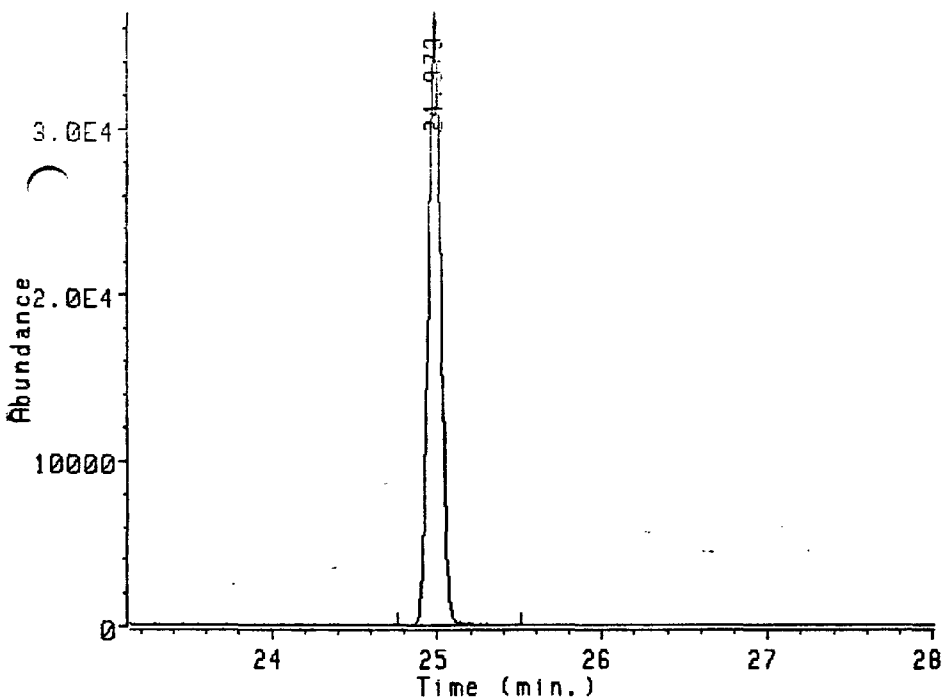
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrment: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2

1020678

Ion 319.90 amu. from DATA:NCALA03B.D



Ion 319.90 amu. from DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Pe #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.141	1930166	24.760	25.508

03220894

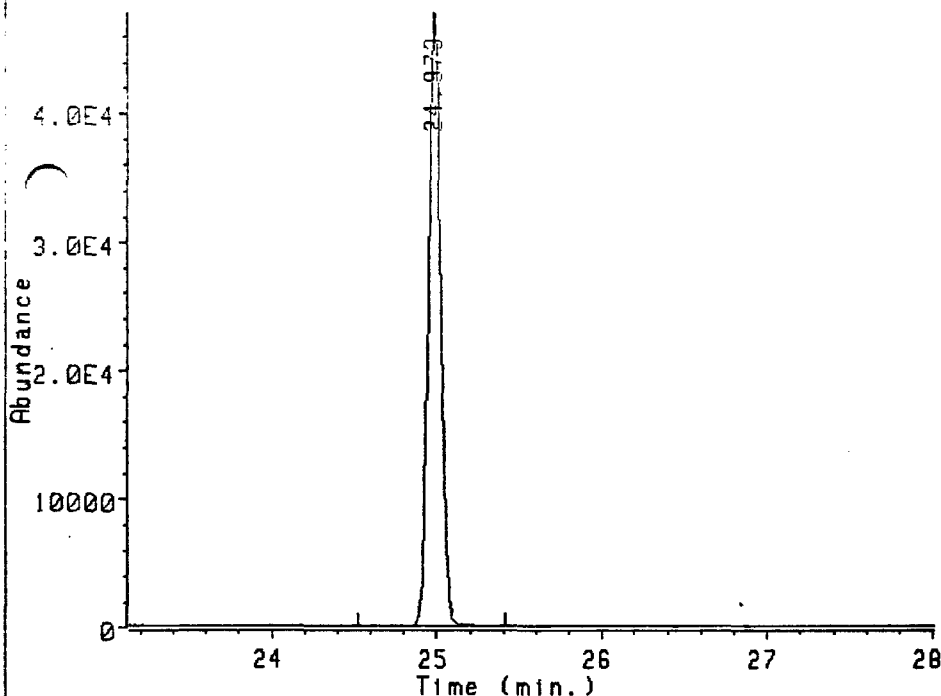
Data file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2

Ion 321.90 amu. from DATA:NCALA03B.D



Ion 321.90 amu. From DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.143	2487902	24.524	25.411

000000020679

Data file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

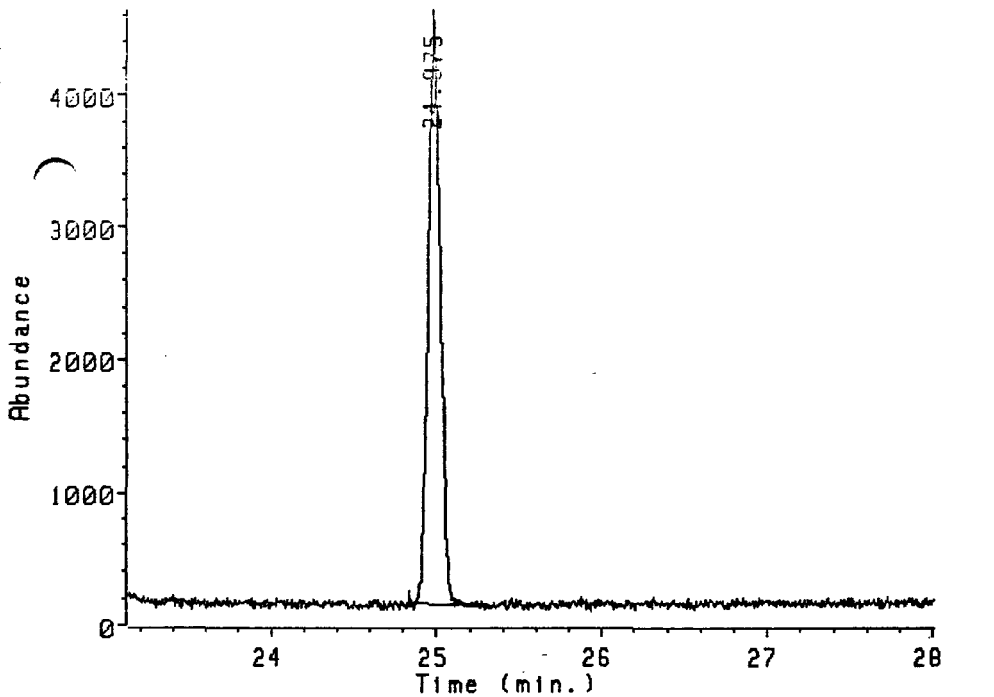
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2

0020680

Ion 327.90 amu. from DATA:NCALA03B.D



Ion 327.90 amu. from DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.143	225238	24.832	25.315

03220896

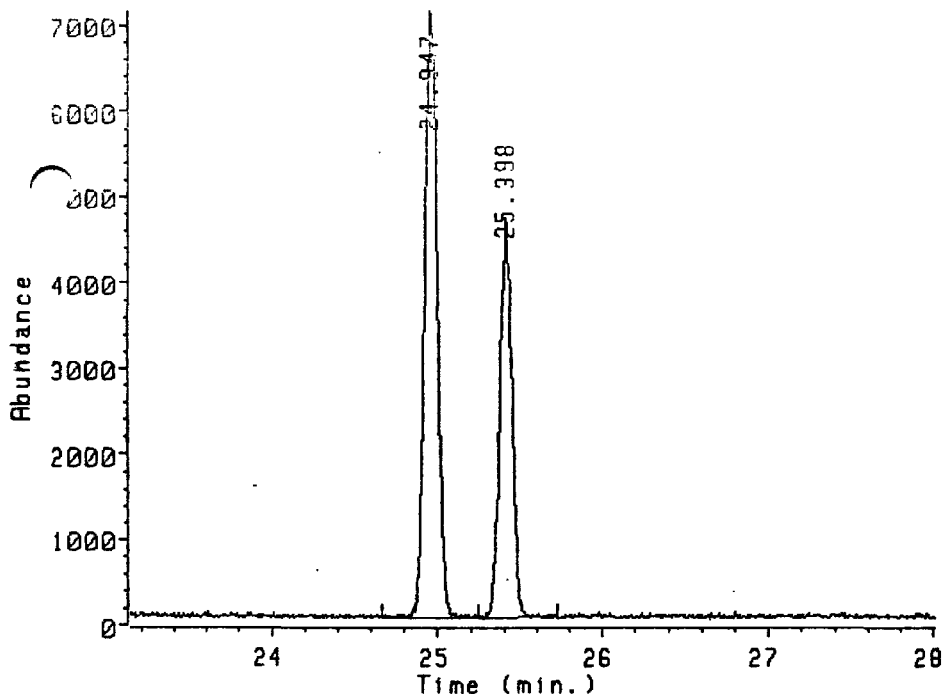
Data file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2

Ion 331.80 amu. from DATA:NCALA03B.D



Ion 331.80 amu. from DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.947	BU	0.147	377126	24.663	25.242
2	25.398	UB	0.086	230121	25.242	25.725

03220897

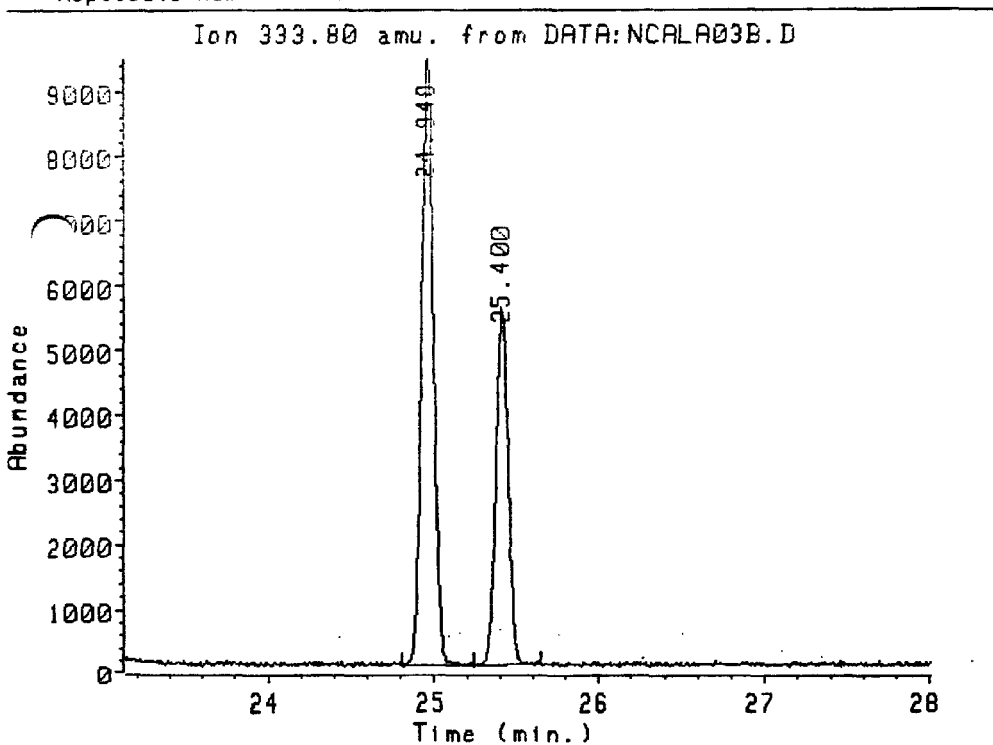
000000020681

Data file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2



Ion 333.80 amu. from DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.948	BU	0.147	477220	24.808	25.242
2	25.400	PB	0.137	283684	25.242	25.652

020682

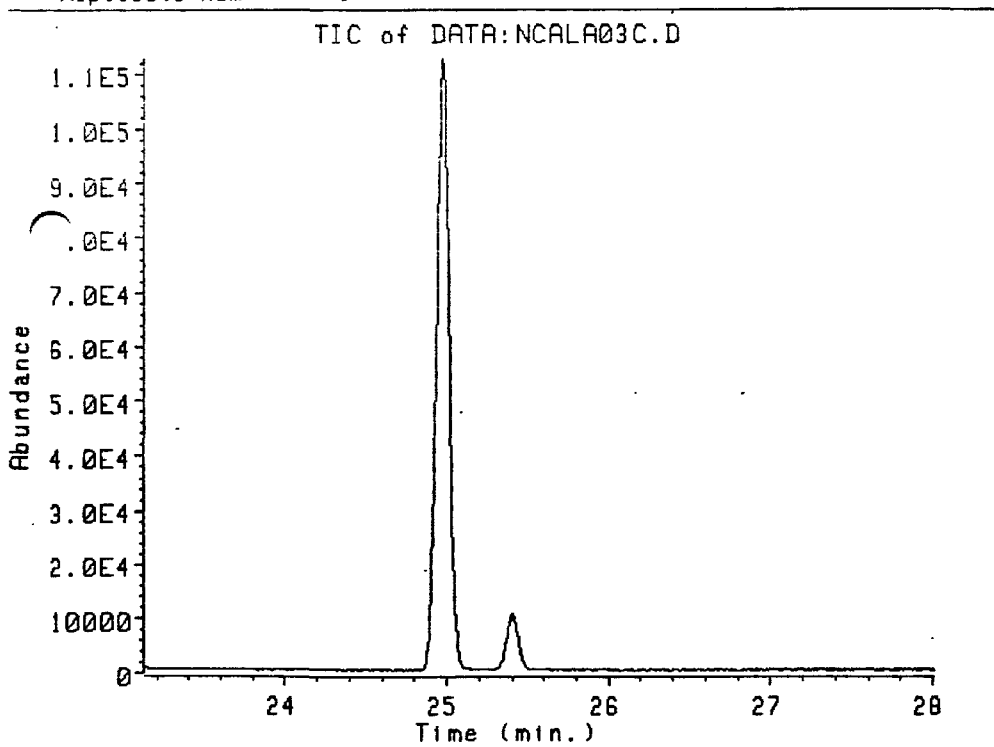
03220898

Data file: DATA:NCALA03C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 3



020683

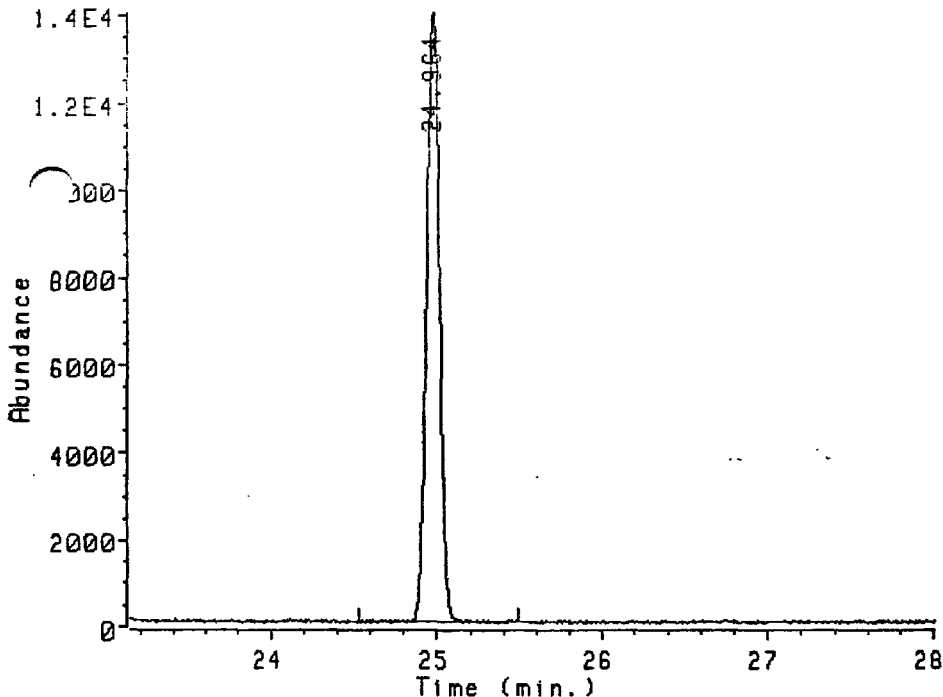
Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

Ion 258.90 amu. from DATA:NCALA03C.D



Ion 258.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.964	BB	0.090	748534	24.531	25.484

020684

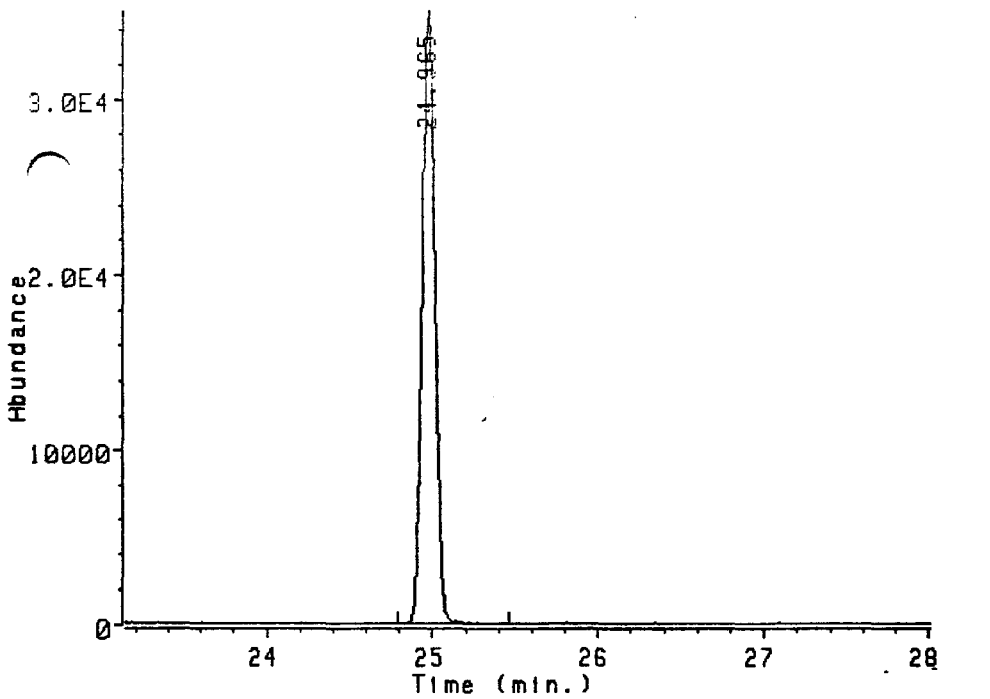
Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

Ion 319.90 amu. from DATA:NCALA03C.D



Ion 319.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.965	BB	0.091	1860633	24.784	25.460

03220901

020685

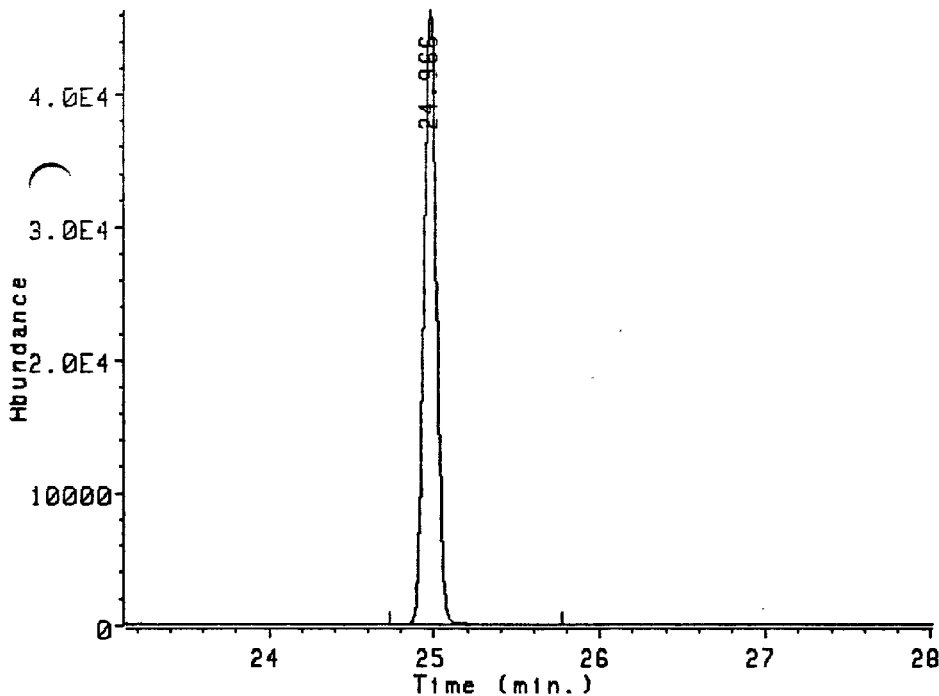
Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

Ion 321.90 amu. from DATA:NCALA03C.D



Ion 321.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.966	BB	0.141	2416488	24.736	25.773

000000020686

Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

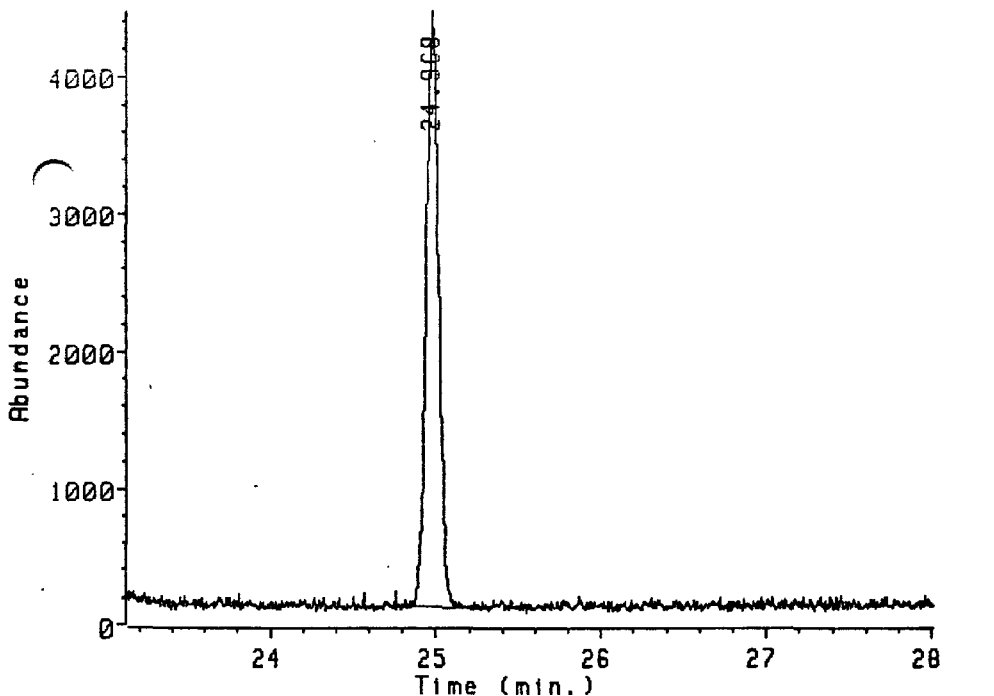
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

000000020687

Ion 327.90 amu. from DATA:NCALA03C.D



Ion 327.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.968	BB	0.152	221614	24.760	25.315

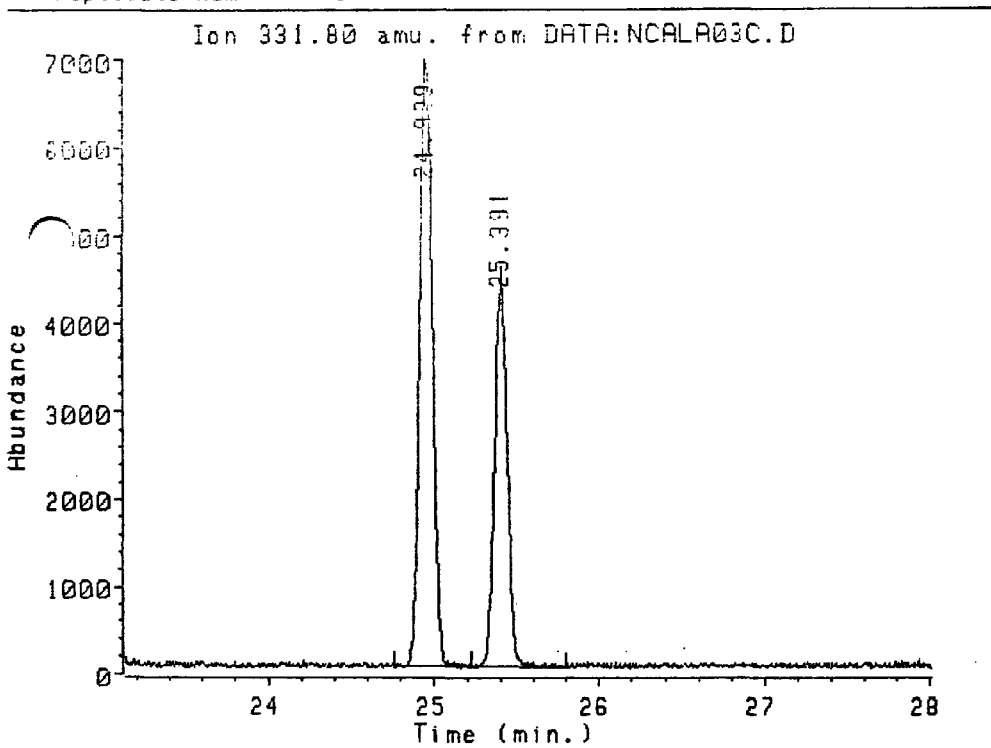
03220903

Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3



Ion 331.80 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.939	UB	0.087	362437	24.760	25.218
2	25.391	UB	0.126	226614	25.218	25.797

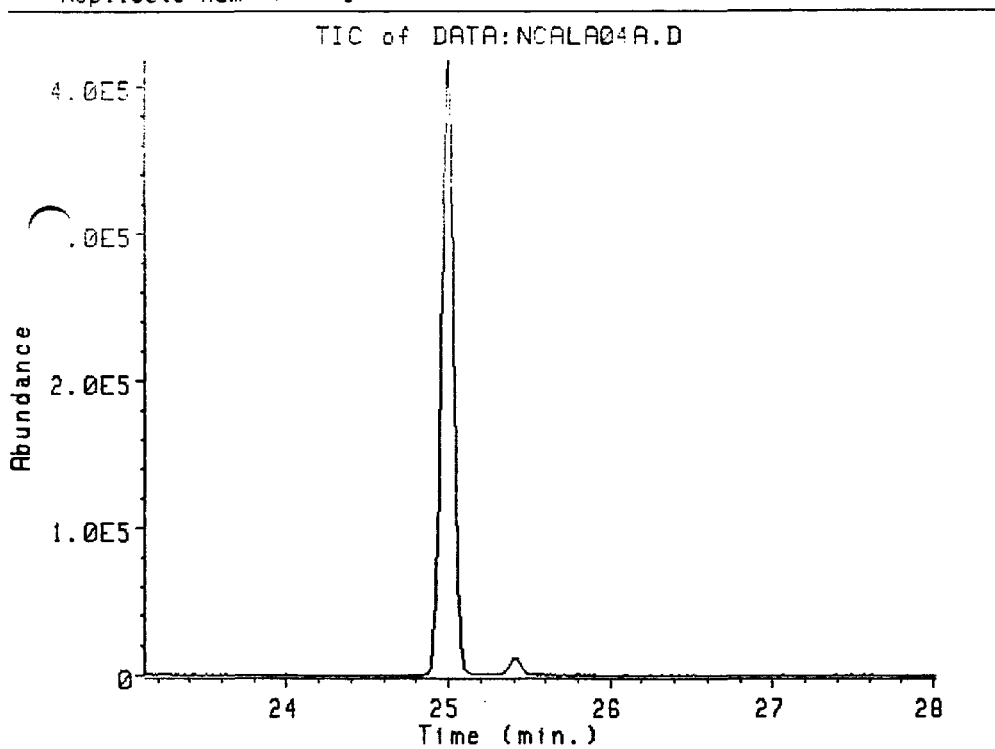
Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

020689



Data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

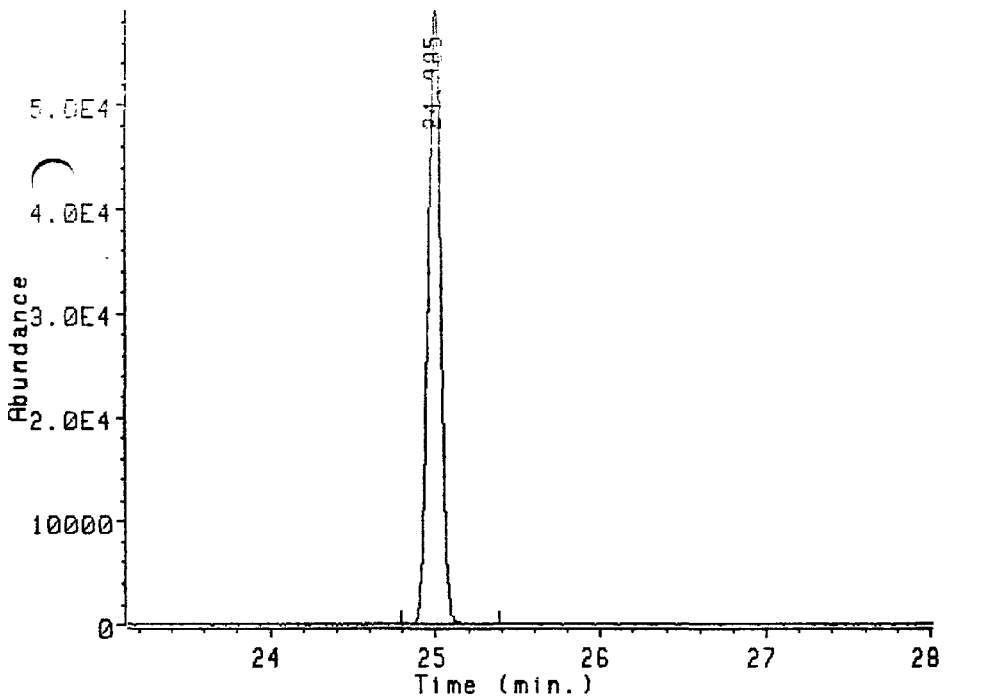
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

020690

Ion 258.90 amu. from DATA:NCALA04A.D



Ion 258.90 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.985	BB	0.090	3186158	24.784	25.387

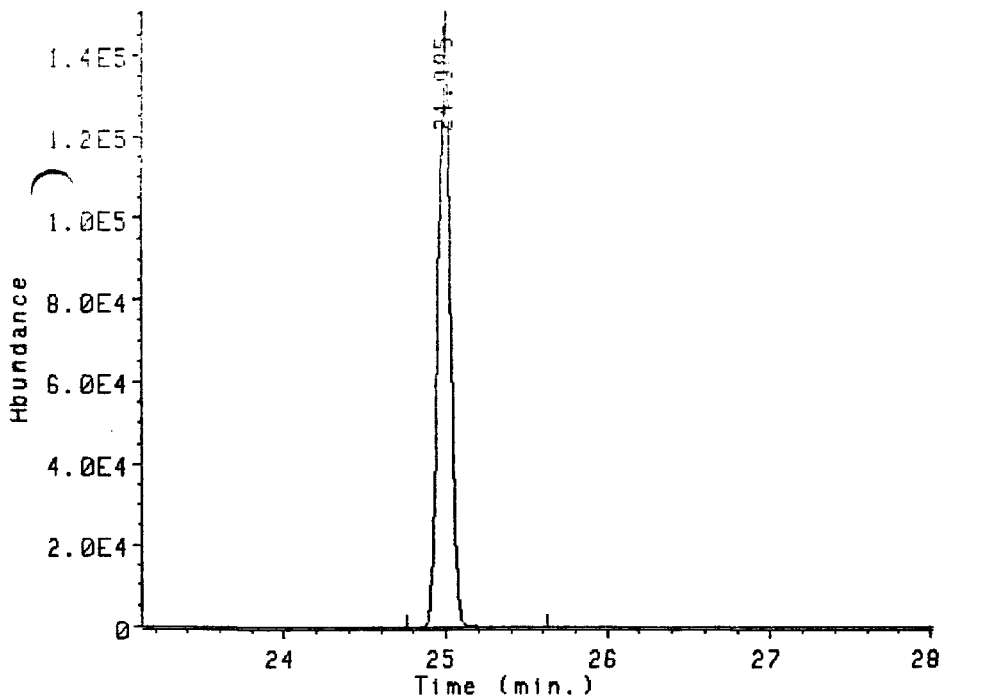
Data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

Ion 319.90 amu. from DATA:NCALA04A.D



Ion 319.90 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

Pe.	Ret Time	Type	Width	Area	Start Time	End Time
1	24.985	BB	0.092	7761312	24.760	25.628

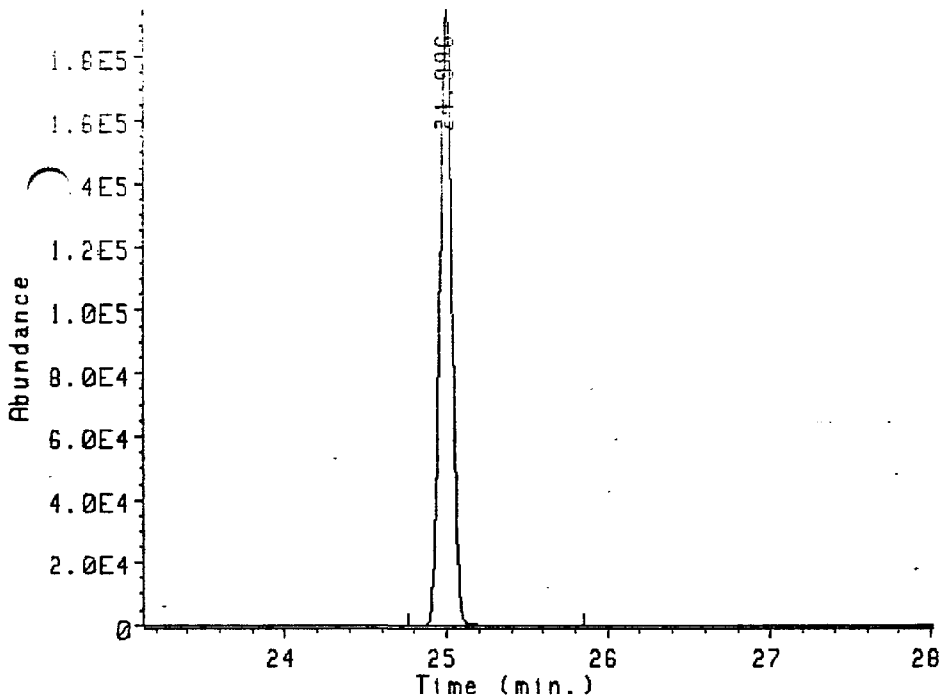
Data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

Ion 321.90 amu. from DATA:NCALA04A.D



Ion 321.90 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

Pe	Ret Time	Type	Width	Area	Start Time	End Time
1	24.986	BB	0.087	10280454	24.760	25.846

020692

Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

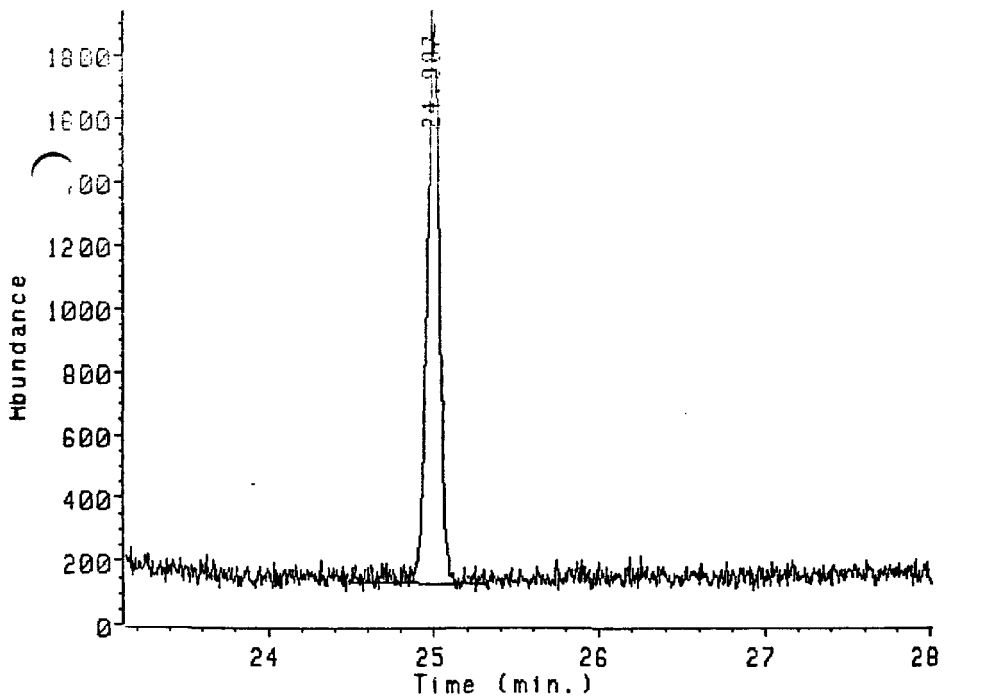
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

000000020693

Ion 327.90 amu. from DATA:NCALA04A.D



on 327.90 amu. from DATA:NCALA04A.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.987	BB	0.091	96269	24.500	25.315

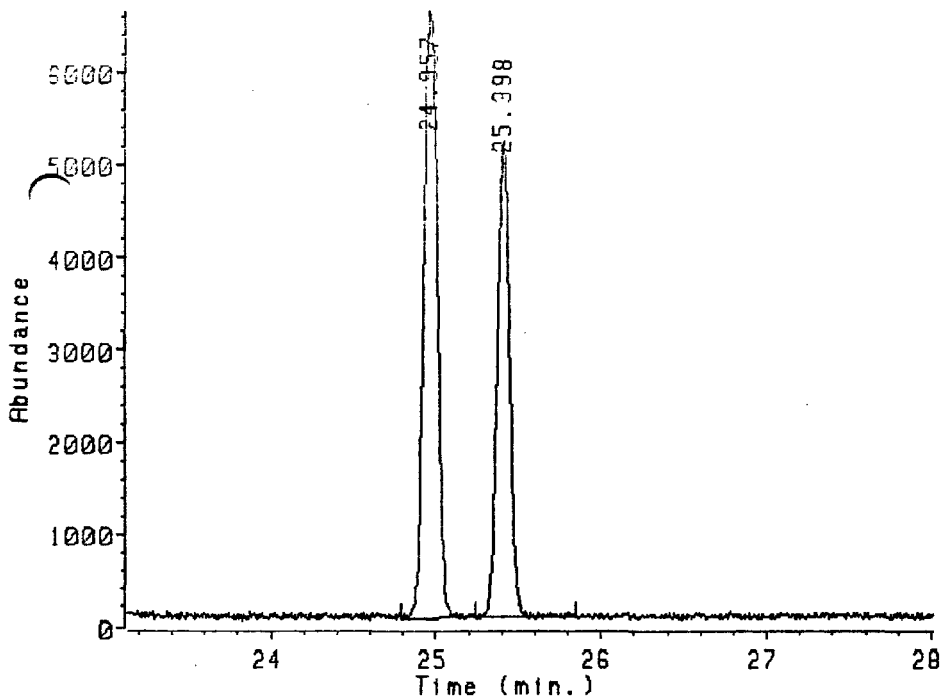
Data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

Ion 331.80 amu. from DATA:NCALA04A.D



Ion 331.80 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

pe	Ret Time	Type	Width	Area	Start Time	End Time
1	24.957	UV	0.096	381115	24.784	25.239
2	25.398	UV	0.087	266939	25.239	25.846

000000020694

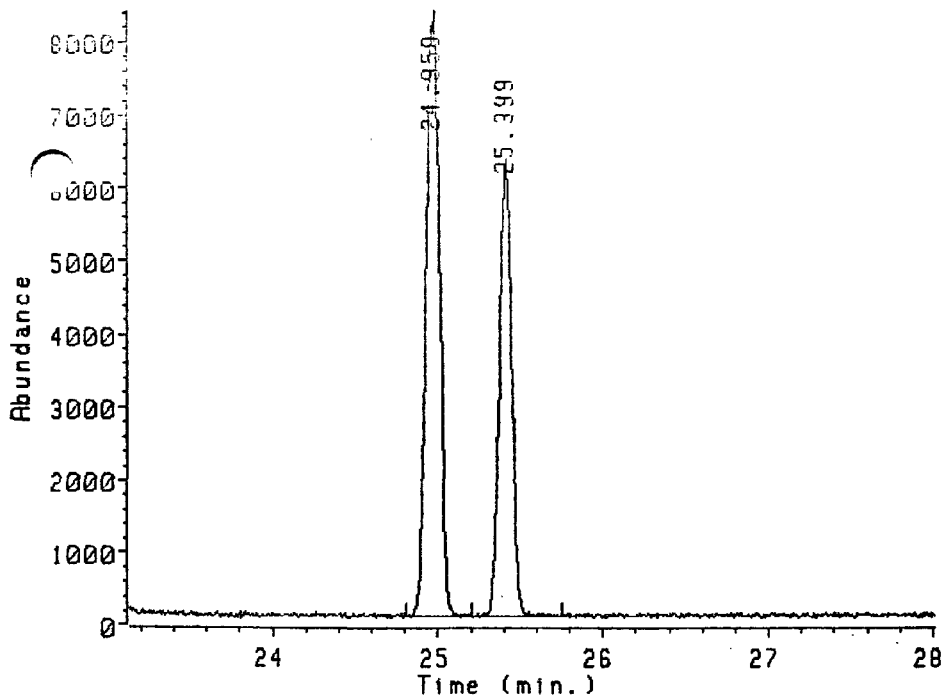
Data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

Ion 333.80 amu. from DATA:NCALA04A.D



Ion 333.80 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

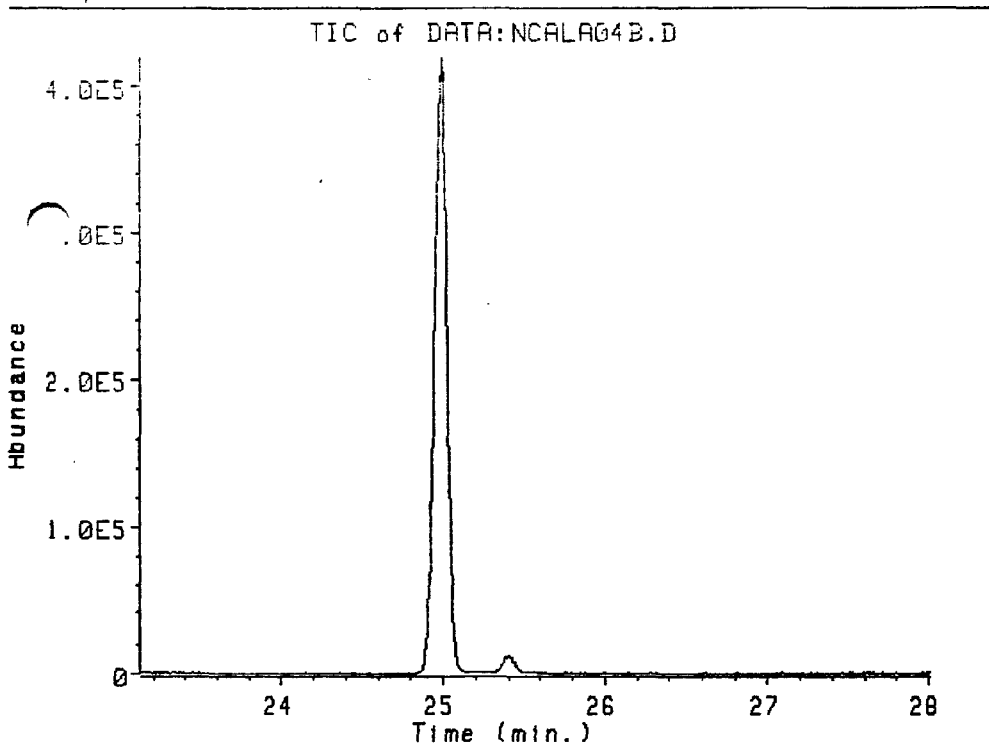
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.958	BU	0.096	473276	24.808	25.208
2	25.399	PB	0.087	322534	25.208	25.749

Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2



0000 020696

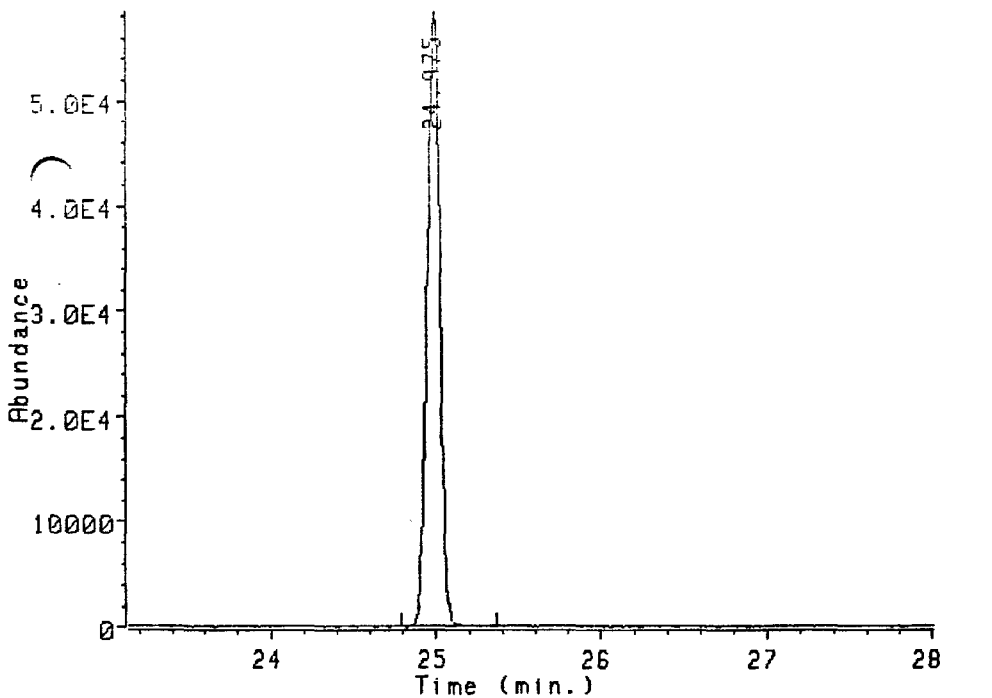
Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

Ion 258.90 amu. from DATA:NCALA04B.D



Ion 258.90 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.174	3159515	24.784	25.363

020697

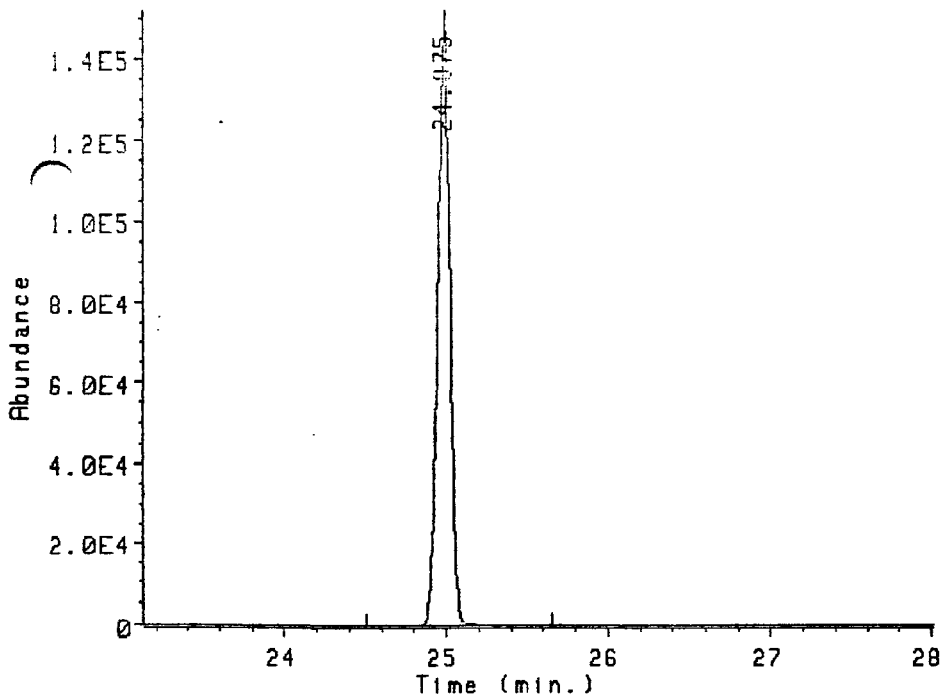
Data file: DATA:NCALA04B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 2

Ion 319.90 amu. from DATA:NCALA04B.D



Ion 319.90 amu. from DATA:NCALA04B.D
 CLP CALIBRATION SOLN IV

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.152	7858218	24.506	25.652

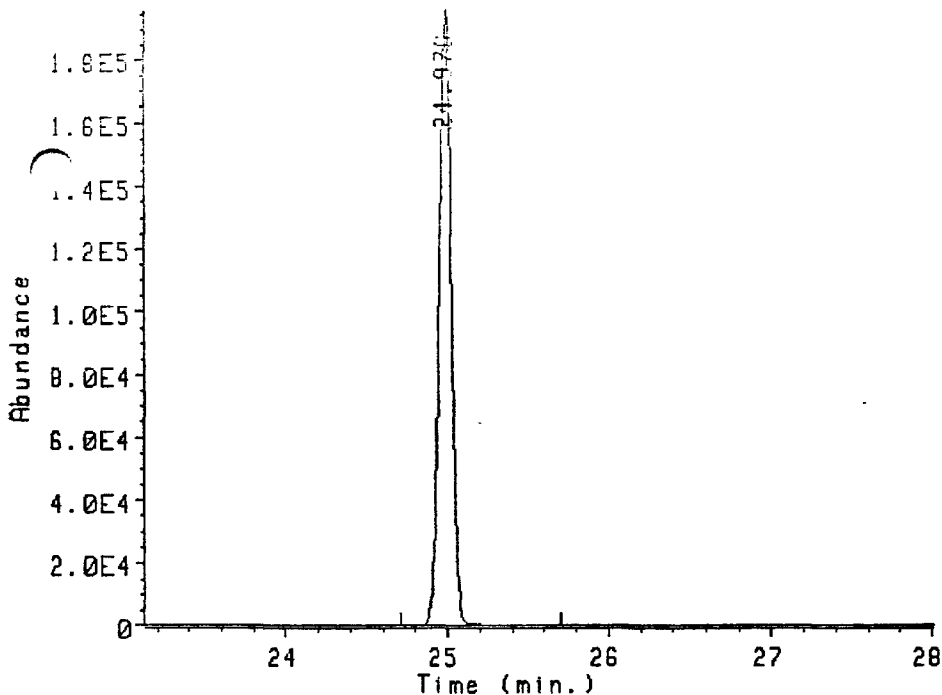
Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

Ion 321.90 amu. from DATA:NCALA04B.D



Ion 321.90 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.161	10355753	24.711	25.700

Data file: DATA:NCALA04B.D
 File type: GC / MS DATA FILE

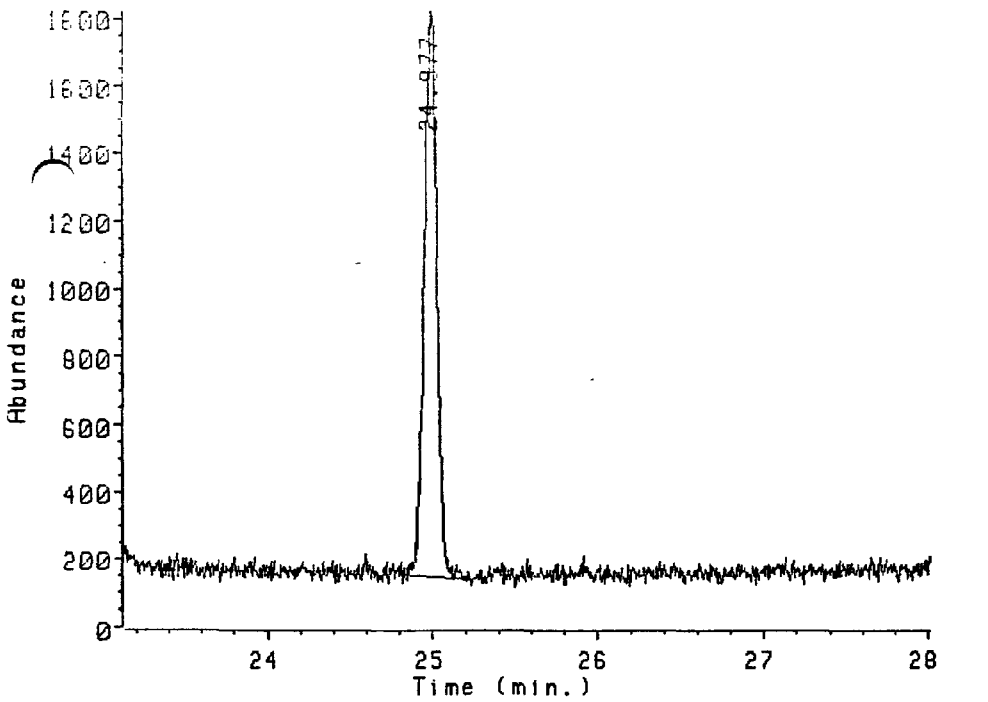
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 2

020700

Ion 327.90 amu. from DATA:NCALA04B.D



Ion 327.90 amu. from DATA:NCALA04B.D
 CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.977	BB	0.124	91642	24.808	25.228

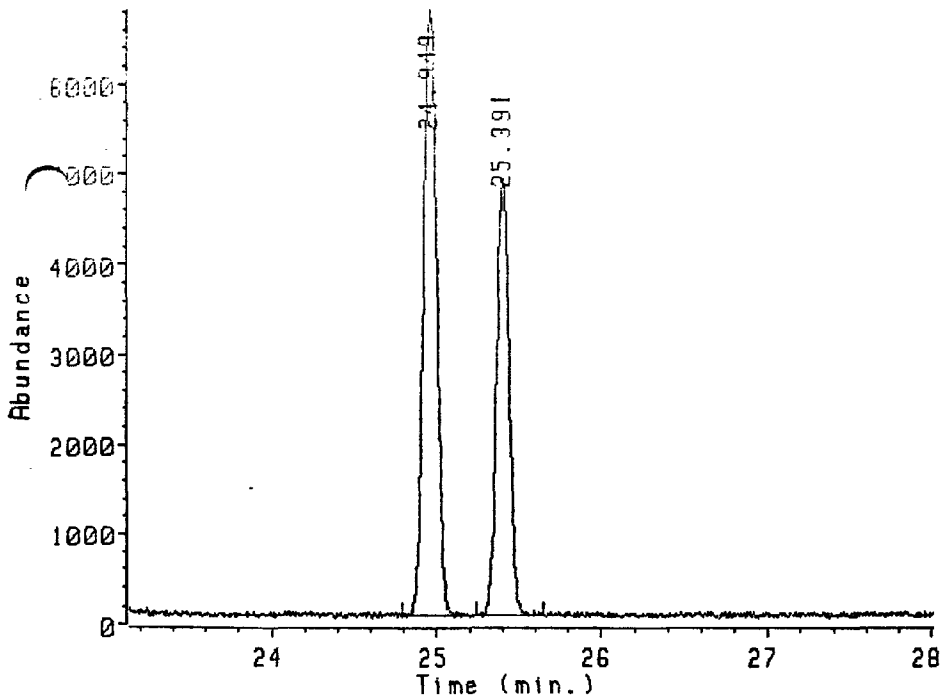
Data file: DATA:NCALA04B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 2

Ion 331.80 amu. from DATA:NCALA04B.D



Ion 331.80 amu. from DATA:NCALA04B.D
 CLP CALIBRATION SOLN IV

Ret Time	Type	Width	Area	Start Time	End Time
1 24.949	BU	0.137	379549	24.784	25.242
2 25.391	PB	0.131	255513	25.242	25.652

020701

Data file: DATA:NCALA04B.D
 File type: GC / MS DATA FILE

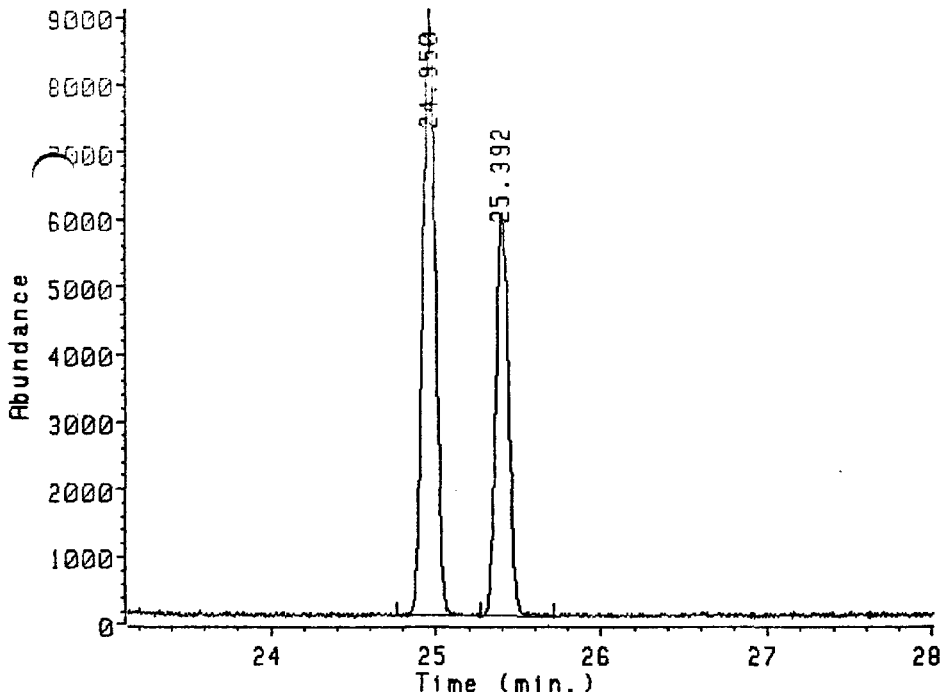
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 2

0000000020702

Ion 333.80 amu. from DATA:NCALA04B.D



Ion 333.80 amu. from DATA:NCALA04B.D
 CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.950	BV	0.150	478280	24.760	25.266
2	25.392	PB	0.127	309835	25.266	25.712

03220918

Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

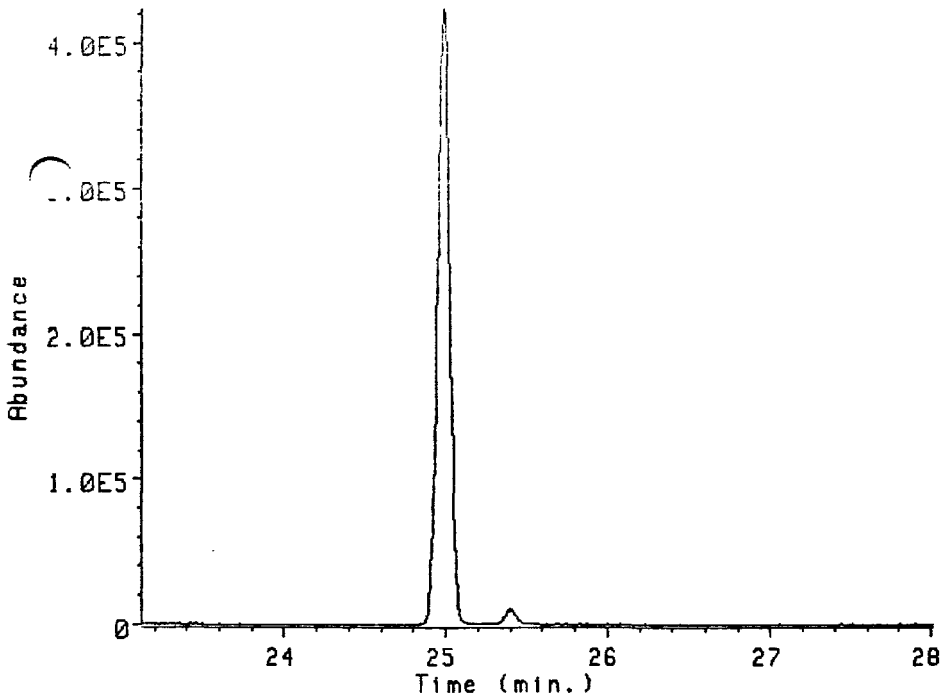
Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

020703

020703

TIC of DATA:NCALA04C.D



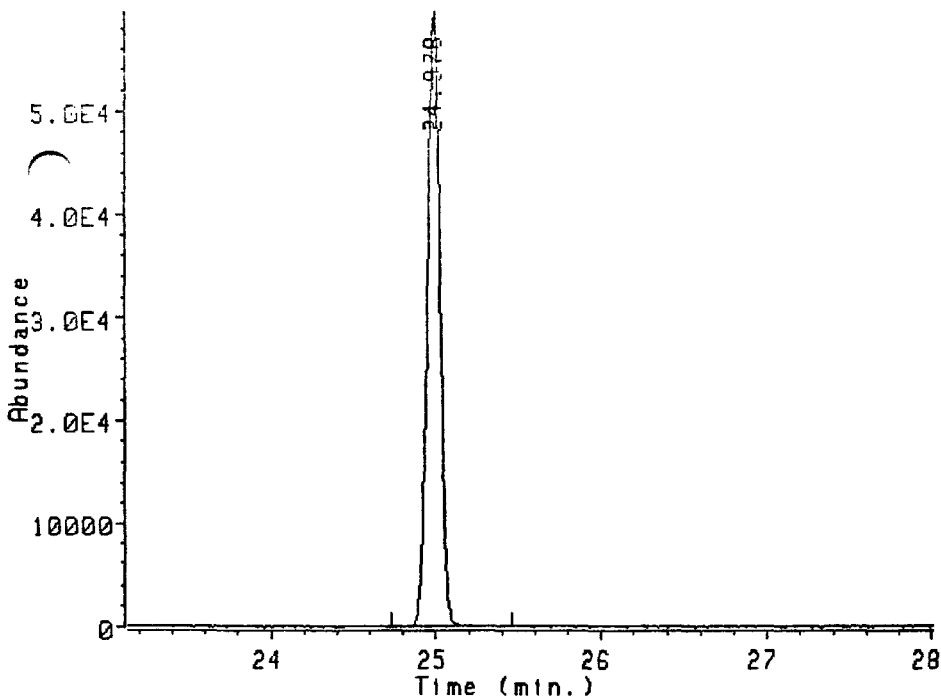
Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

Ion 258.90 amu. from DATA:NCALA04C.D



Ion 258.90 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.151	3178940	24.735	25.459

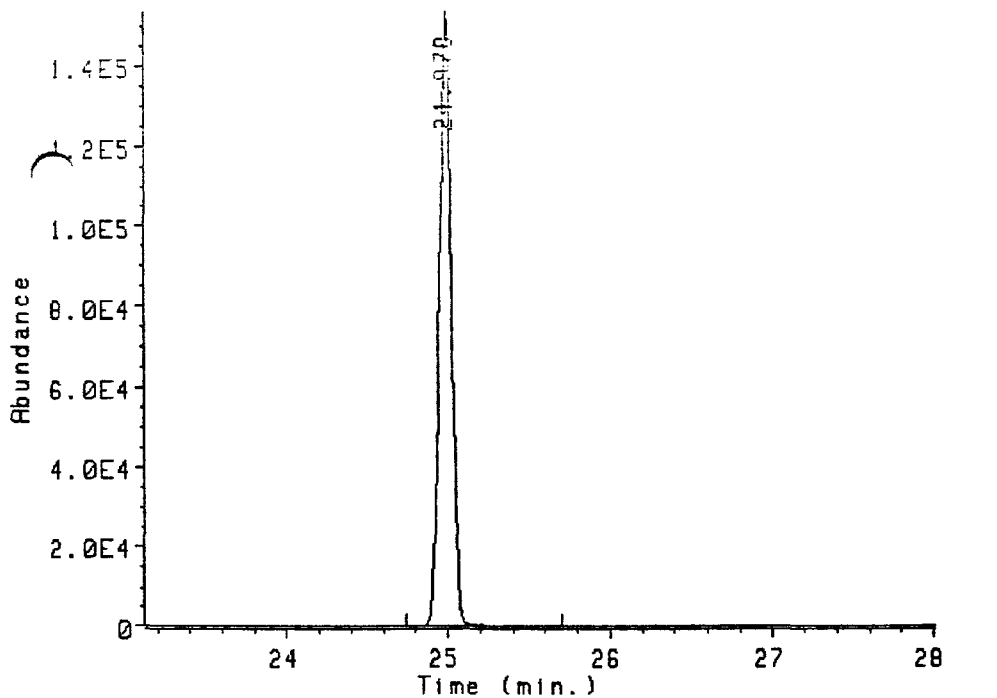
Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

Ion 319.90 amu. from DATA:NCALA04C.D



Ion 319.90 amu. from DATA:NCALA04C.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.171	7911157	24.735	25.700

Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

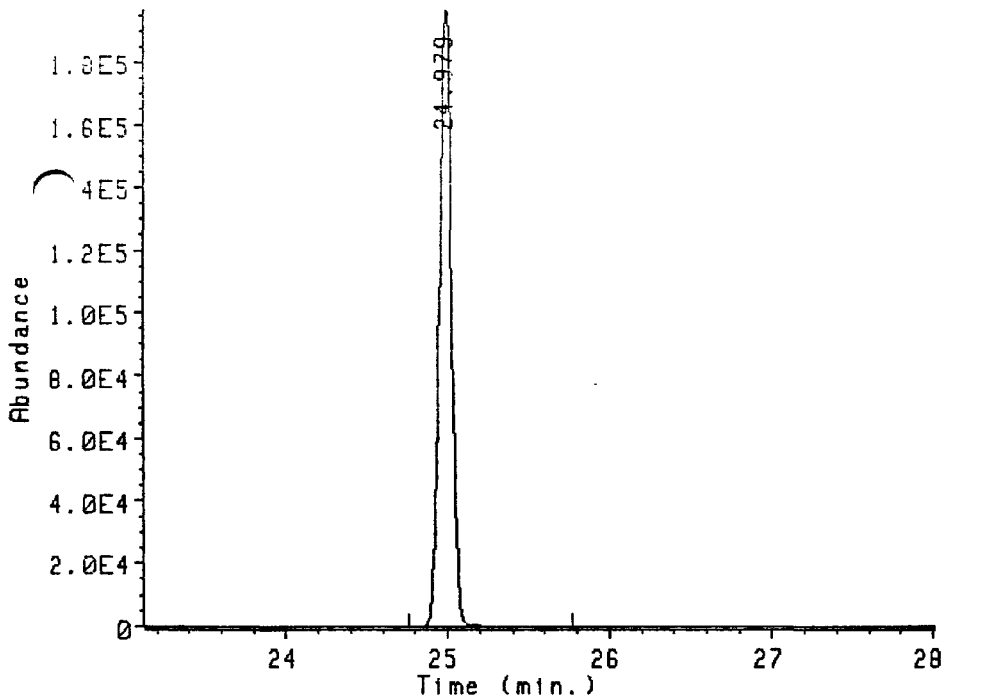
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

020706

Ion 321.90 amu. from DATA:NCALA04C.D



Ion 321.90 amu. from DATA:NCALA04C.D
CLP CALIBRATION SOLN IV

Pe.	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.178	10384749	24.760	25.773

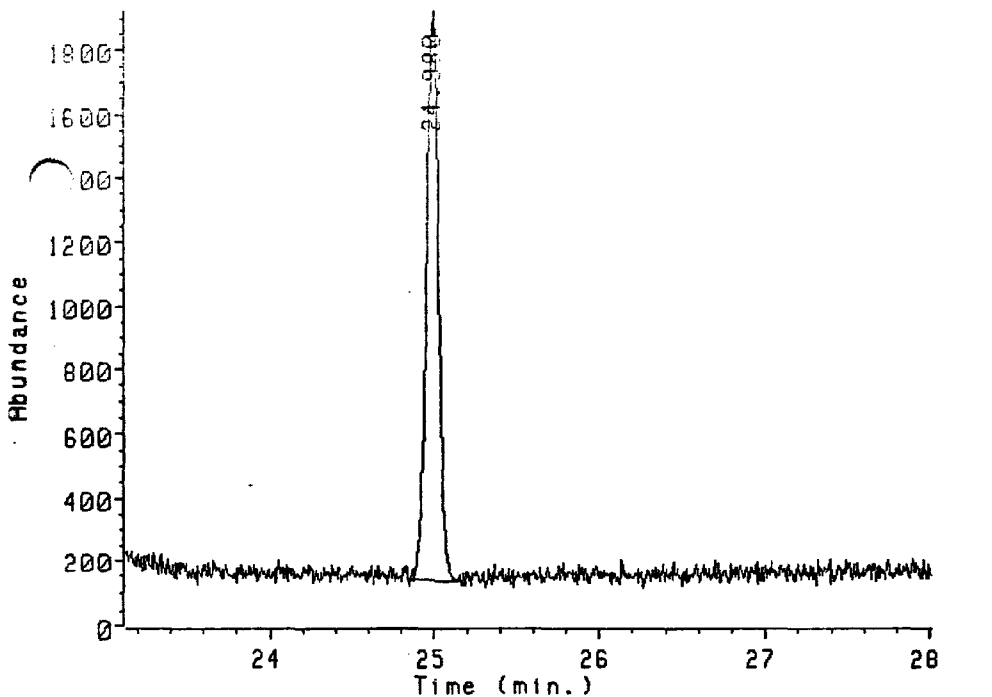
Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

Ion 327.90 amu. from DATA:NCALA04C.D



Ion 327.90 amu. from DATA:NCALA04C.D
CLP CALIBRATION SOLN IV

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.137	94122	24.832	25.170

Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

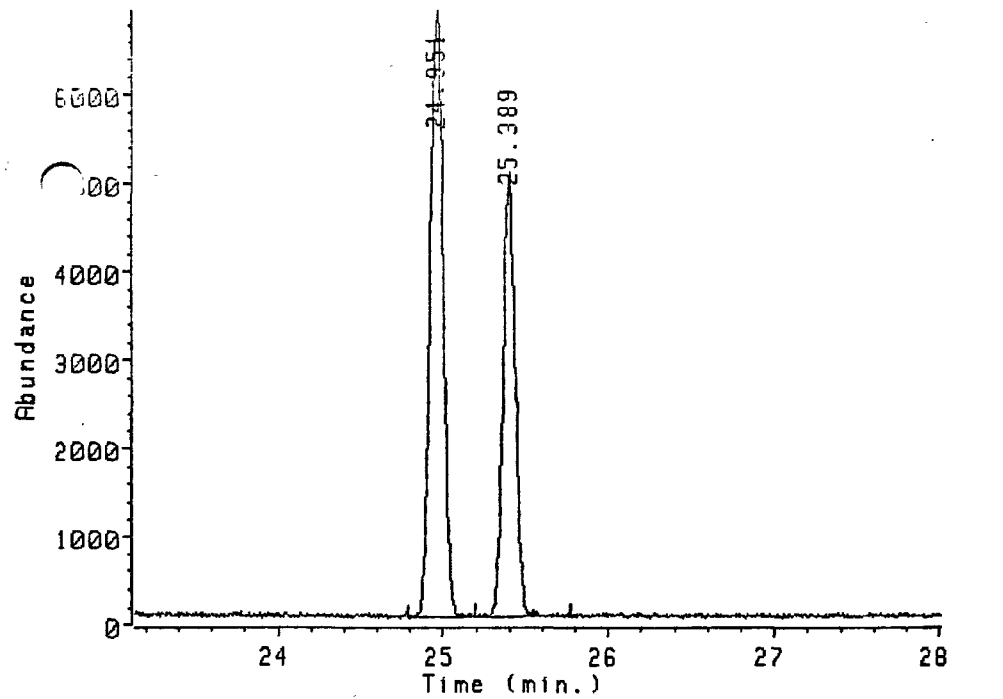
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

000000020708

Ion 331.80 amu. from DATA:NCALA04C.D



Ion 331.80 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

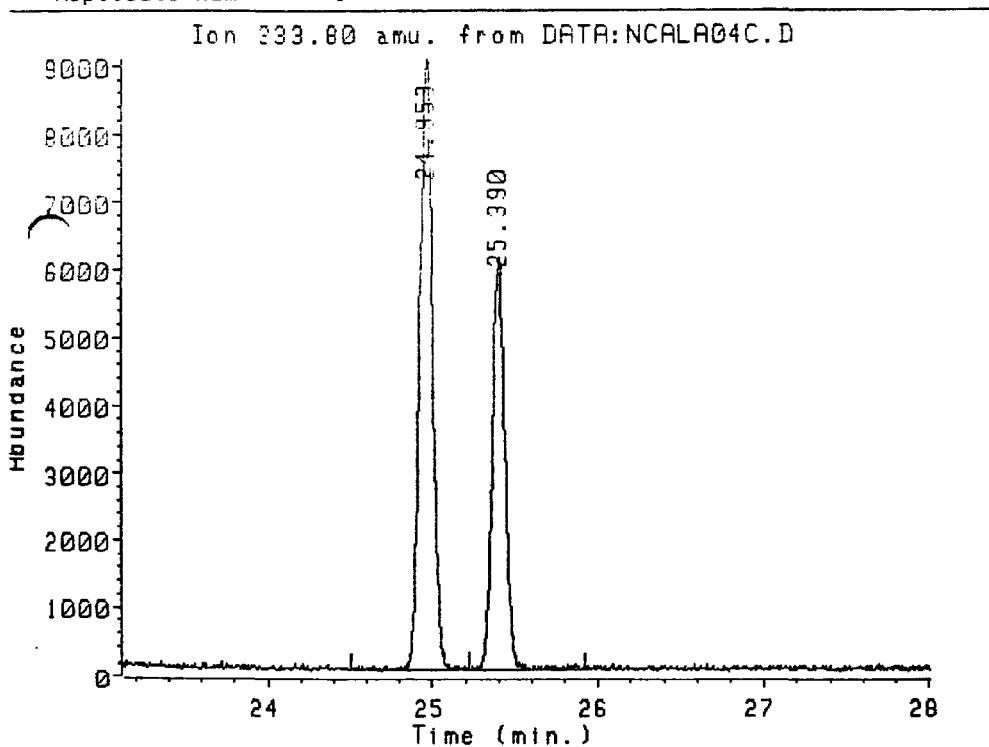
Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.951	BU	0.134	380354	24.784	25.194
2	25.389	UB	0.121	253568	25.194	25.773

Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3



on 333.80 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.953	UB	0.091	486909	24.506	25.218
2	25.390	UB	0.136	315334	25.218	25.918

03220925

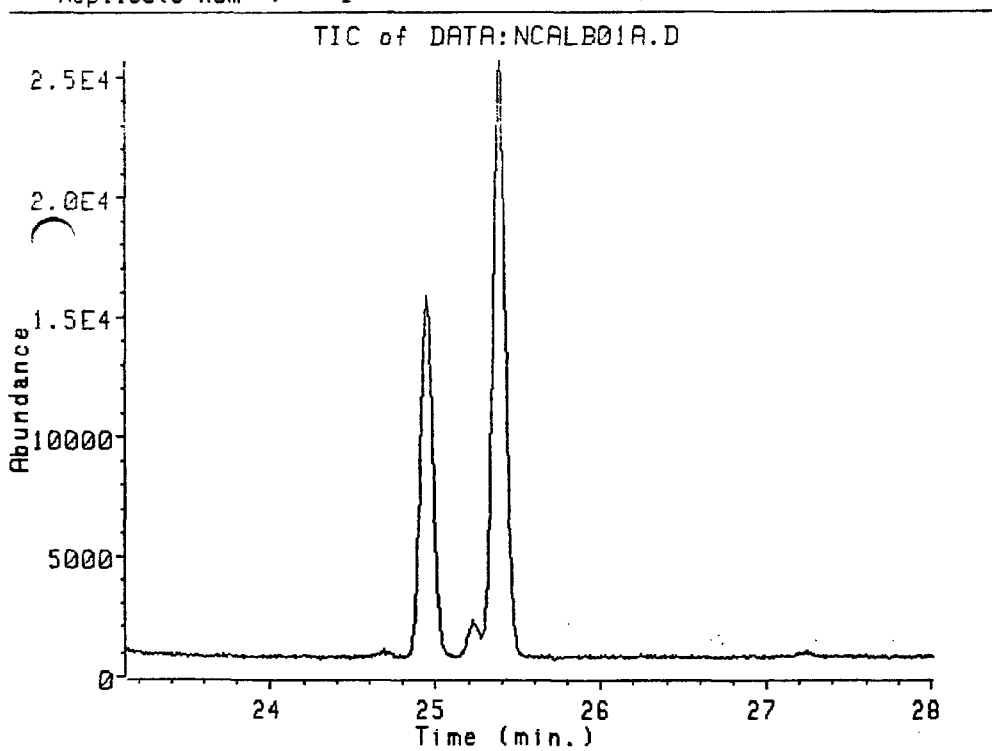
020709

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1



000000020710

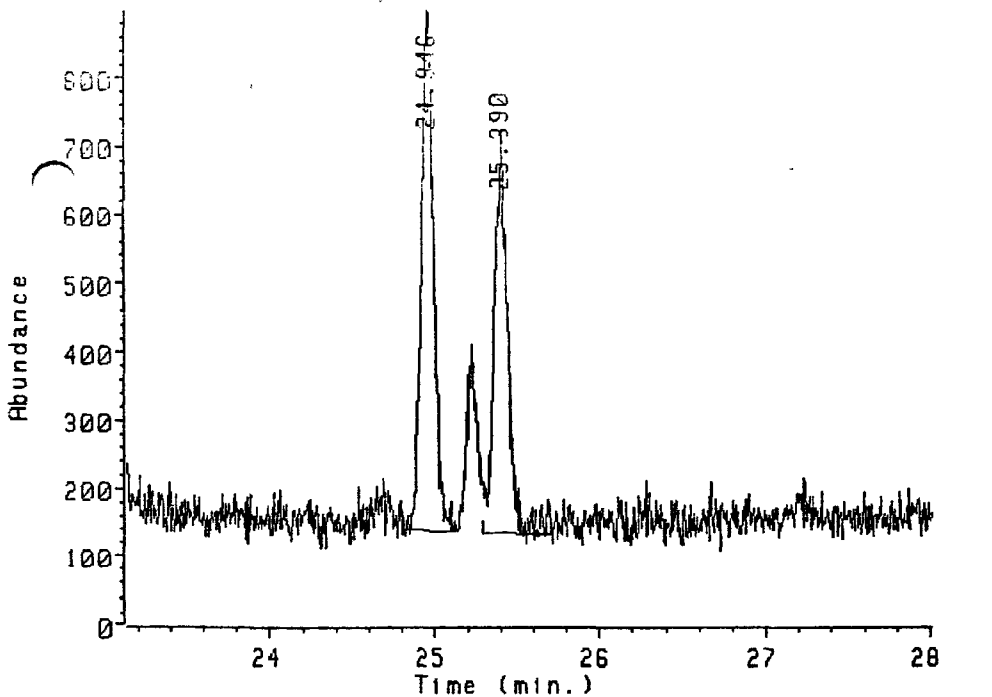
Data file: DATA:NCALB01A.D
 File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 1
 Replicate num : 1

Ion 258.90 amu. from DATA:NCALB01A.D



Ion 258.90 amu. from DATA:NCALB01A.D
 COLUMN PERFORMANCE MIX

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.946	UB	0.091	39870	24.809	25.122
2	25.390	UB	0.101	31957	25.291	25.702

000000020711

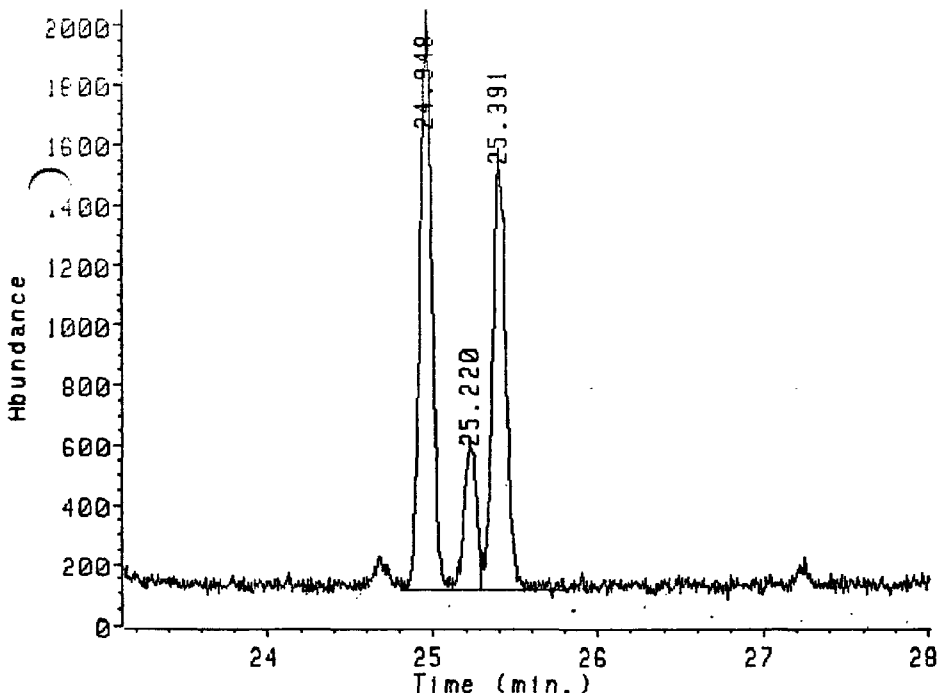
Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

Ion 319.90 amu. from DATA:NCALB01A.D



Ion 319.90 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

Pe.	Ret Time	Type	Width	Area	Start Time	End Time
1	24.948	UV	0.089	98901	24.803	25.122
2	25.220	UV	0.087	25754	25.122	25.290
3	25.391	UV	0.147	81636	25.290	25.798

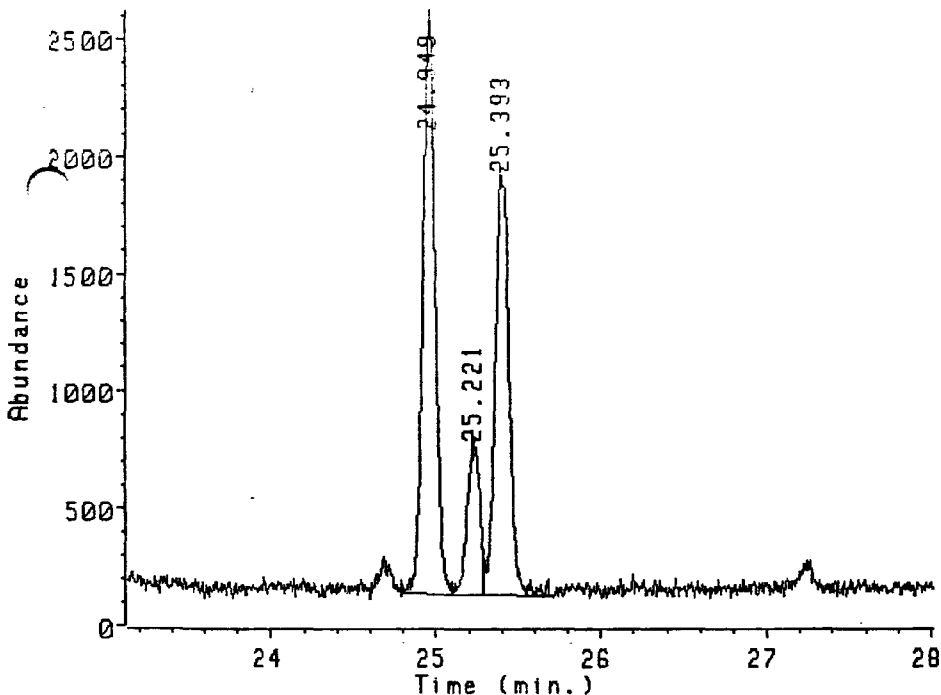
Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

Ion 321.90 amu. from DATA:NCALB01A.D



Ion 321.90 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.949	UU	0.088	128555	24.788	25.102
2	25.221	UU	0.086	34074	25.102	25.291
3	25.393	UU	0.150	105301	25.291	25.702

03220929

000000020713

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

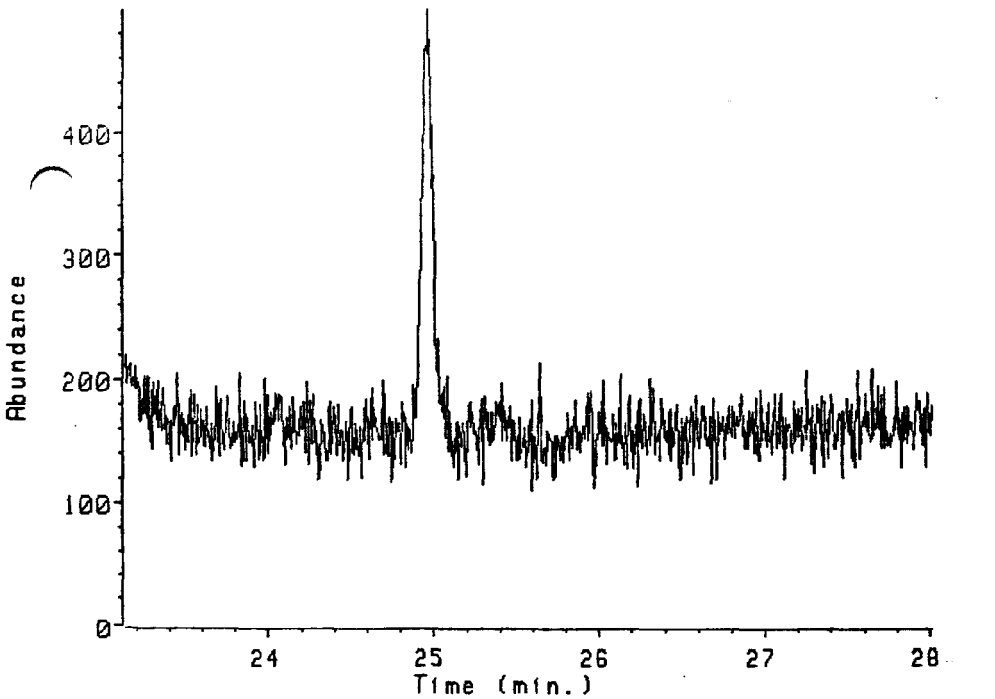
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

020714

Ion 327.90 amu. from DATA:NCALB01A.D



Ion 327.90 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

No peaks detected

Data file: DATA:NCALB01A.D
 File type: GC / MS DATA FILE

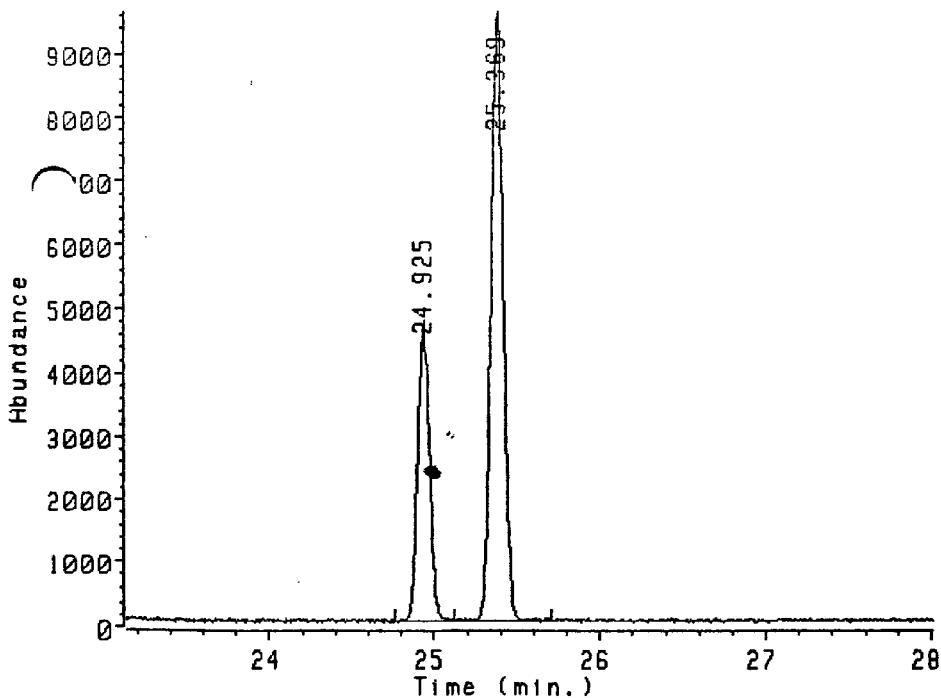
Name Info: COLUMN PERFORMANCE MIX
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 1
 Replicate num : 1

020715

Ion 331.80 amu. from DATA:NCALB01A.D



Ion 331.80 amu. from DATA:NCALB01A.D
 COLUMN PERFORMANCE MIX

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.925	BU	0.139	233907	24.760	25.122
2	25.369	UB	0.130	492927	25.122	25.702

03220931

Data file: DATA:NCALB01A.D
 File type: GC / MS DATA FILE

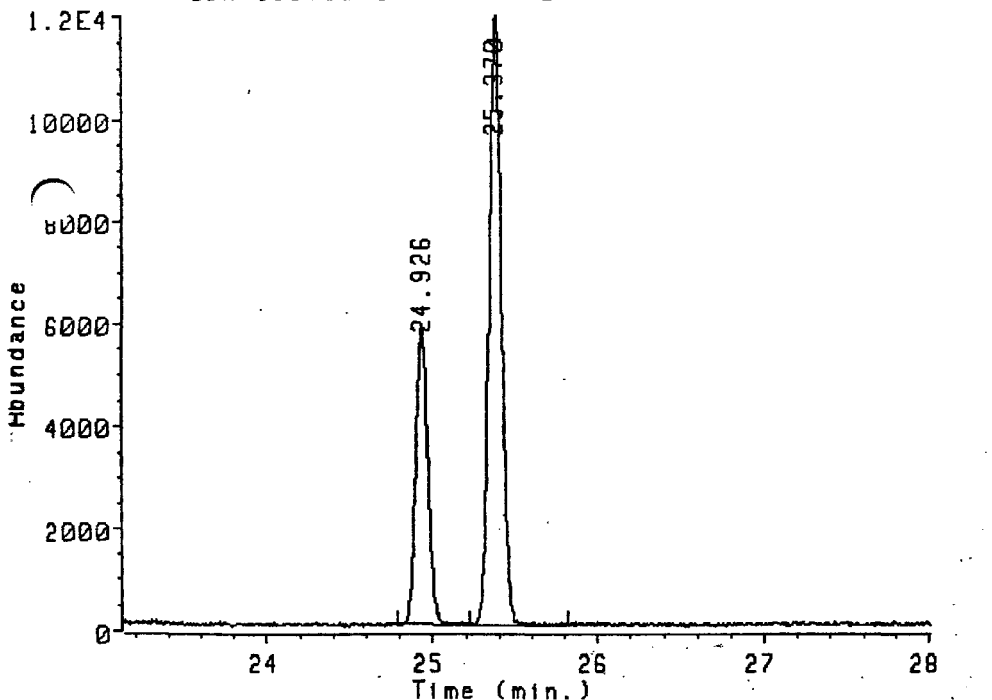
Name Info: COLUMN PERFORMANCE MIX
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 1
 Replicate num : 1

020716

Ion 333.80 amu. from DATA:NCALB01A.D



on 333.80 amu. from DATA:NCALB01A.D
 COLUMN PERFORMANCE MIX

	Ret Time	Type	Width	Area	Start Time	End Time
1	24.926	BU	0.139	289994	24.784	25.219
2	25.370	PB	0.140	611865	25.219	25.822

03220932

ATTACHMENT 5
CHAIN OF CUSTODY, GC/MS/MS LOG, EXTRACTION RECORD

020717



R/A Control No. 52245

C/C Control No. 47143

CHAIN-OF-CUSTODY RECORD

PROJECT NAME/NUMBER Jacksonville Offsite 480078-01-08-02

LAB DESTINATION TMS-Indianapolis, Indiana

SAMPLE TEAM MEMBERS D. Danahy & D. Peay

CARRIER/WAYBILL NO. FEDEX 9088472914

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
WH2110	Jacksonville, Arkansas	07/15/88	Soil	GLASS		
WH2108	Dioxin MFCI COMPLETING & AMORC-CALD	07/15/88	Soil	GLASS		
WH2061		07/15/88				
WH2125		07/16/88				
WH2126		07/16/88				
WH2127		07/16/88				
WH2060		07/17/88				
WH2109		07/15/88				
WH2286		07/26/88				
WH2287		07/26/88				

Special Instructions:

Possible Sample Hazards: Dioxin

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: D. Danahy 07/27/88 0830

Received By:

2. Relinquished By: Federal Express

Received By: Cynthia Krauss 07/28/88 0830

3. Relinquished By:

Received By:

4. Relinquished By:

Received By:

09220934



CHAIN-OF-CUSTODY RECORD

R/A Control No. 52246

C/C Control No. 38235

PROJECT NAME/NUMBER

Jacksonville Office TMS Andersonapolis Prod.

SAMPLE TEAM MEMBERS

D. Delaney, D. Price

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No					
WH2289	Jacksonville Office	07/26/88 1050	Soil	GLASS							
WH2305	MS FOR COMPLETING CHAIN-OF-CUSTODY RECORD	07/26/88 1453	Soil	GLASS							
WH2306		07/26/88 1453									
WH2307		07/26/88 1450									
WH2311		07/26/88 1615									
WH2312		07/26/88 1615									
WH2313		07/26/88 1635									
WH2314		07/26/88 1630									
WH2316		07/26/88 1630									
WH2317		Jacksonville Office					07/27/88 0730	Soil	GLASS		

Special Instructions:

Possible Sample Hazards:

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: Daniel Price 07/27/88 0730

Received By: _____

2. Relinquished By: Federal Express

Received By: Cynthia Ramos 07/28/88 0930

3. Relinquished By: _____

Received By: _____

4. Relinquished By: _____

Received By: _____

3 1571

0322053



REQUEST FOR ANALYSIS

R/A Control No. 5 245
 C/C Control No. 47149

PROJECT NAME Jacksonville Offsite
 PROJECT NUMBER 480078-01-08-02
 PROJECT MANAGER Dana Simerly
 BILL TO Hercules Inc
1313 B Market St
Wilmington DE

DATE SAMPLES SHIPPED 07/27/88
 LAB DESTINATION TMS Analytical
 LABORATORY CONTACT Cindy Kraus
 SEND LAB REPORT TO Fluorene Kinoshita
Medical Dept
Hercules Inc

PURCHASE ORDER NO. _____

DATE REPORT REQUIRED 48 hrs
 PROJECT CONTACT Dana Simerly
 PROJECT CONTACT PHONE NO. 680-321-615-690-3211
2070727

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
WH2110	Soil	≈ 35g	None	2378-TCDD GC/mskms	
WH2108	↓	↓	↓	↓	↓
WH2061					
WH2128					
WH2124					
WH2127					
WH2062	↓	↓	↓	↓	↓
WH2109					
WH2286	Soil	≈ 35g	None	2378-TCDD GC/mskms	
WH2287					

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)

Normal _____ Rush 1 (Subject to rush surcharge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)

Nonhazardous _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____
 (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)

Return to Client Disposal by Lab _____

FOR LAB USE ONLY

Received By Cynthia Kraus

Date/Time 07/28/88 0930

WHITE - Original, to accompany samples
 YELLOW - Field copy

020720

03220936

3 1572



INTERNATIONAL
TECHNOLOGY
CORPORATION

REQUEST FOR ANALYSIS

R/A Control No. 5)46
C/C Control No. 38235

PROJECT NAME Jacksonville Office
PROJECT NUMBER 480078
PROJECT MANAGER Dana Limerly
BILL TO Hercules Inc
1313 N Market St
Wilmington DE
PURCHASE ORDER NO. _____

DATE SAMPLES SHIPPED 07/27/88
LAB DESTINATION TMS Andovergate Ind
LABORATORY CONTACT Cindy Krauss
SEND LAB REPORT TO Hercules Kinoshita
Medical Dept
Hercules Inc
DATE REPORT REQUIRED 48 hr
PROJECT CONTACT Dana Limerly
PROJECT CONTACT PHONE NO. 615-680-3211

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
WH2289	Soil	~35g	None	2378-TEAD GC/MS/MS	
WH2305	↓	↓	↓	↓	↓
WH2306					
WH2307					
WH2311					
WH2312					
WH2317					
WH2314					
WH2316					
WH2317	Soil	~35g	None	2378-TEAD GC/MS/MS	

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)
Normal _____ Rush X (Subject to rush surcharge)
POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)
Nonhazardous _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____
(Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)
Return to Client X Disposal by Lab _____

FOR LAB USE ONLY
Received By Cynthia Krauss Date/Time 07/28/88 930

WHITE - Original, to accompany samples
YELLOW - Field copy

1020721

03220937

3 1573

0322 7541 0322

FEDERAL EXPRESS

QUESTIONS?

DATE: 07/27/88

AIRBILL NUMBER: 3447641551

Shipper's Name: **ETC COLLEGE**

Shipper's Phone Number: 601-640-3211

Receiver's Name: **UNIVERSITY OF MISSISSIPPI**

Receiver's Phone Number: 662-917-8697

Origin: **ETC COLLEGE**

Department/Floor No.: **BLDG 500**

Company: **UNIVERSITY OF MISSISSIPPI**

Department/Floor No.: **217**

Address: **904 E. EXCURSION BLVD**

City: **MEMPHIS**

State: **MS**

Zip: **38152**

Receiver's Address: **UNIVERSITY OF MISSISSIPPI**

City: **UNIVERSITY**

State: **MS**

Zip: **38677**

YOUR BILLING REFERENCE INFORMATION (FIRST 24 CHARACTERS WILL APPEAR ON INVOICE): **428 007 601 00 01**

PAYMENT: Cash Bill Forwarded

SERVICES: **PRIORITY** **STANDARD AIR**

DELIVERY AND SPECIAL HANDLING: **DELIVER WEDNESDAY** **DELIVER SATURDAY**

WEIGHT: **1.31 LBS**

RECEIVED AT: **67772**

DATE/TIME FOR FEDERAL EXPRESS USE: **11/27/88**

SHIPPER'S CERTIFICATION FOR RESTRICTED ARTICLES/DANGEROUS GOODS

CHECK ONE: CFR ICAD

NO. OF PKGS.	PROPER SHIPPING NAME	CLASS OR DIVISION	UN OR ID NO.	SUBSIDIARY RISK	NET QUANTITY	PACKING INSTRUCTIONS	AUTHORIZATION
1	MEXAMINE LIMITED QUANTITY	FLAMMABLE LIQUIDS			2.9	Flammable Liquid	

ADDITIONAL DESCRIPTION REQUIREMENTS FOR RADIOACTIVE MATERIALS (SEE BACK)	RADIOACTIVE MATERIALS	ACTIVITY	CATEGORY OF LABELS	TRANS INDEX	PACKAGE IDENTIFICATION
			<input type="checkbox"/> WHITE <input type="checkbox"/> YELLOW I <input type="checkbox"/> YELLOW II <input type="checkbox"/> NONE		

AIRPORT OF DEPARTURE: _____ AIRPORT OF DESTINATION: _____ SHIPMENT TYPE: **PASSENGER AIRCRAFT** (NON-RADIOACTIVE) **RADIOACTIVE** (DELETE-NONAPPLICABLE)

IF ACCEPTABLE FOR PASSENGER AIRCRAFT THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS OR TREATMENT.

I HEREBY DECLARE THAT THE CONTENTS OF THIS CONTAINER ARE FULLY AND ACCURATELY DESCRIBED ABOVE BY PROPER SHIPPING NAME AND ARE CLASSIFIED, PACKED, MARKED AND LABELED, AND ARE IN ALL RESPECTS IN PROPER CONDITION FOR TRANSPORT BY AIR ACCORDING TO THE APPLICABLE INTERNATIONAL AND NATIONAL GOVERNMENT REGULATIONS.

0322 0938 SEE MARKING

method file name	range dup	method file name	range dup
A DATA:TMSD10.M	1: 1 1 M		:
B DATA:FLUSH.M	2: 2 1 N		:
C DATA:TMSD10.M	3: 20 1 O		:
D DATA:TMSD10.M	1: 1 1 P		:
E DATA:FLUSH.M	2: 2 1 Q		:
F DATA:TMSD10.M	21: 34 1 R		:
G	: S		:
H	: T		:
I	: U		:
J	: V		:
K	: W		:
L	: X		:



- Index Sample Identification
- 1....CALIBRATION SOLN 1
 - 2....1SDOCTANE
 - 3....METHOD BLANK1
 - 4....SOIL BLANK 1
 - 5....SOIL SPIKE 1
 - 6....PE 1
 - 7....2060
 - 8....2061
 - 9....2109
 - 10....2109
 - 11....2110
 - 12....2126
 - 13....2127
 - 14....2128
 - 15....2286
 - 16....2287



- Index Sample Identification
- 17....2289
 - 18....2305
 - 19....2306
 - 20....2307
 - 21....2311
 - 22....2312

020723

24....2314
25....2316
26....MB2
27....SB2
28....SS2
29....PER2
30....2317
31....2318
32....2319

3 1576

Next Page Previous Page More Info [] [] [] []

SAMPLE TABLE _____ DATA:4HER.S

Index Sample Identification

23....2320
34....2063

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Next Page Previous Page More Info [] [] [] []

020724

03220940

TE: 7-28-88

SHIPMENT NUMBER HERO 228A

3 1577

INITIALS JKN/LDS

NO SAMPLE #	EPA SAMPLE #	SAMPLE HEIGHT	EXTRACTION VOLUME	OPTION A CLEANUP	OPTION D CLEANUP	SPIKING SOL'N ADDED	COMMENTS
MRI	Meth blank	5.00g	6.0mL	✓		25ng II	
SBI	OCL34566	5.00				"	
SEI	OCL35569	5.00				25ng I	
TEI	DE-A	5.00				25ng II	
W+2060		5.06				"	Leil
" 2061		5.07				"	
" 2108		5.04				"	
" 2109		5.21				"	
" 2110		5.04				"	
" 2126		5.20				"	
" 2127		5.07				"	
" 2128		5.00				"	
" 2286		5.08				"	
" 2287		5.06				"	
" 2289		5.03				"	
" 2305		5.04				"	
" 2306		5.19				"	
" 2307		5.03		✓		✓	✓

020725

03220941



3 1578
TMS ANALYTICAL SERVICES, INC.

6576 Medical Trail
Wilmington, Delaware 19868
(317)291-5697

August 11, 1988

020726

Dr. Florence K. Kinoshita
Medical Department
Hercules Incorporated
1313 N. Market Street
Wilmington, DE 19894

Dear Dr. Kinoshita:

Enclosed are analytical results for the analysis of 13 samples for 2,3,7,8-TCDD. These samples were analyzed according to the procedures outlined in the USEPA Contract Laboratory Program "Statement of Work for Rapid Turnaround Dioxin Analysis in Multi-Media", November 1986. Sample preparation and analysis procedures from the "Rapid Determination of TCDD In Soil and Sediment Samples, Using Gas Chromatography and Tandem Mass Spectrometry" were used, and analysis of the extracts was by the HRGC/LRMS procedures. These samples were received as Shipment HERCULES for analysis on 07/28/88 at 09:30. The analytical results of Filename ~~HER0803A~~ were sent by FAX at 15:50 on August 4, 1988.
0803

If you should have any questions regarding these data or this report, please feel free to contact me at (317)291-5697.

Very truly yours,

Dennis L. Heuring
Dennis L. Heuring, Ph.D.
President

ENCLOSURES:

03220942

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ATTACHMENT 3	INITIAL CALIBRATION MASS CHROMATOGRAMS
ATTACHMENT 4	BLANK CALIBRATION MASS CHROMATOGRAMS
ATTACHMENT 5	CHAIN OF CUSTODY, GC/MS/MS LOG, EXTRACTION RECORD

020727

FILE RECEIVED DATE:
FILE RECEIVED TIME:

SITE: HER
CASE: 0803
DATE: 08/09/88

AREA #	CLIENT SAMPLE #	ANALYSIS DATE TIME	RATIO 320/322	RATIO 332/334	SURROGATE ACC	TCDD CONC.	RERUN CODE	VALID CODE	UNITS	COMMENTS
METHBLANK	METHBLNK	08/02/88 1054	1.00*	0.79	71.96	0.300 U			NG/GM	
SOILBLANK	SOILBLNK	08/02/88 1127	1.00*	0.79	73.99	0.300 U			NG/GM	
SOILSPIKE	SOILSPKE	08/02/88 1201	0.76	0.80	82.67	0.798			NG/GM	
PEA-2	PEA-2	08/02/88 1234	0.78	0.79	74.17	0.670			NG/GM	
WH2311	WH2311	08/02/88 0806	0.74	0.79	73.33	0.300 U			NG/GM	
WH2312	WH2312	08/02/88 0840	0.61*	0.80	76.06	0.300 U			NG/GM	
WH2313	WH2313	08/02/88 0913	0.70	0.81	71.97	0.519			NG/GM	
WH2314	WH2314	08/02/88 0947	0.76	0.77	76.44	2.849			NG/GM	
WH2316	WH2316	08/02/88 1020	0.77	0.80	71.39	2.814			NG/GM	
WH2317	WH2317	08/02/88 1308	0.76	0.80	72.81	2.875			NG/GM	
WH2318	WH2318	08/02/88 1342	0.79	0.80	74.79	3.183			NG/GM	
WH2319	WH2319	08/02/88 1415	1.00*	0.79	70.23	0.300 U			NG/GM	UNITS OF NG PER SAMPLE
WH2320	WH2320	08/02/88 1609	1.00*	0.81	71.22	0.300 U			NG/GM	UNITS OF NG PER SAMPLE
WH2063	WH2063	08/02/88 1522	0.81	0.77	72.99	1.004			NG/GM	

QUALIFICATION FLAGS:

- * 320/322 OR 332/334 RATIO OUTSIDE OF ACCEPTABLE RANGE
- SURROGATE OUTSIDE OF ACCEPTABLE RANGE
- *** HIGH DETECTION LIMIT

RERUN CODES:

- A AUTOMATIC RERUN
- R REQUESTED RERUN

SPECIAL INSTRUCTIONS (IF ANY):

020727

SITE: HER
CASE: 0803
DATE: 08/09/88

GATE CONC 0.06 RRF NATIVE 1.110
INTERNAL STD CONC 1.05 RRF SURROGATE 1.336

LAB	CLIENT	SAMPLE	IDN 320	IDN 322	IDN 328	IDN 332	IDN 334	RATIO	RATIO	SURR	RAW	
SAMPLE #	AREA #	SAMPLE #	AMOUNT					320/322	332/334	ACC	VALUE	
4HERF26A	METHBLANK	METHBLNK	5.00	1	1	159695	365506	465351	1.00*	0.79	71.96	0.000 NG/GM
4HERF27A	SOILBLANK	SOILBLNK	5.00	1	1	83438	186820	235363	1.00*	0.79	73.99	0.000 NG/GM
4HERF28A	SOILSPIKE	SOILSPKE	5.00	46391	60980	134337	268463	337430	0.76	0.80	82.67	0.798 NG/GM
4HERF29A	PEA-2	PEA-2	5.00	33333	42749	101636	225270	285829	0.78	0.79	74.17	0.670 NG/GM
4HERF21A	WH2311	WH2311	5.07	12739	17131	114987	257797	328453	0.74	0.79	73.33	0.226 NG/GM
4HERF22A	WH2312	WH2312	5.15	6824	11233	57509	125113	157471	0.61*	0.80	76.06	0.279 NG/GM
4HERF23A	WH2313	WH2313	5.03	20801	29847	84270	194982	241966	0.70	0.81	71.97	0.519 NG/GM
4HERF24A	WH2314	WH2314	5.18	78372	102959	57408	120279	156344	0.76	0.77	76.44	2.849 NG/GM
4HERF25A	WH2316	WH2316	5.08	117534	152641	82522	189149	236416	0.77	0.80	71.39	2.814 NG/GM
2HERF30A	WH2317	WH2317	5.15	219649	287752	152631	342208	429255	0.76	0.80	72.81	2.875 NG/GM
4HERF31A	WH2318	WH2318	5.05	139560	177401	90291	197825	246168	0.79	0.80	74.79	3.183 NG/GM
4HERF32A	WH2319	WH2319	1.00	1	1	202797	477660	603333	1.00*	0.79	70.23	0.000 NG/GM
5HERA01A	WH2320	WH2320	1.00	1	1	117866	277020	342550	1.00*	0.81	71.22	0.000 NG/GM
4HERF34A	WH2063	WH2063	5.07	77470	96079	150473	334432	432881	0.81	0.77	72.99	1.004 NG/GM

MEAN NATIVE RF 1.110
 MEAN SURROGATE RF 1.336

NATIVE CONC. 0.20
 SURROGATE CONC. 0.06
 INTERNAL STD. CONC.: 1.05

SITE: HER
 DATE: 08/09/88
 CASE: 0803

ANALYSIS DATE	ANALYSIS TIME	ION 320	ION 322	ION 328	ION 332	ION334	RATIO 320/322	RATIO 332/334	RRF NATIVE	NATIVE RRF %DIFF.	RRF SURROGATE	SURROGATE RRF % DIFFERENCE
08/02/88	0716	54970	73329	46615	288223	362221	0.750	0.796	1.036	6.67	1.236	7.49

* ION RATIO MUST BE WITHIN ACCEPTABLE RANGE OF INITIAL CALIBRATION

** NATIVE % DIFFERENCE MUST BE LESS THAN 10% FROM INITIAL CALIBRATION

020730

TABLE 1 LR/GC/MS INITIAL CALIBRATION

SITE CODE: HEF
CASE NO.: 0803
DATE: 12/10/87

SOLUTION	IDN 320	IDN 322	IDN 328	IDN 332	IDN 334	NATIVE CONC	SURROGATE CONC	INT. STD CONC	RF NATIVE	RF SURROGATE	RATIO 320/322	RATIO 332/334
CC1-1	81667	103594	64544	388540	508121	0.20	0.06	1.05	1.085	1.241	0.788	0.765
CC1-2	55297	69533	44177	270167	334764	0.20	0.06	1.05	1.083	1.260	0.794	0.807
CC1-3	52633	70447	40204	245540	304190	0.20	0.06	1.05	1.175	1.260	0.747	0.807
								MEAN	1.114	1.254		
								STD DEV	0.053	0.011		
								% RSD	4.76	0.88		
CC2-1	421706	555954	147075	401101	515970	1.00	0.11	1.05	1.119	1.479	0.759	0.777
CC2-2	446509	583866	154612	415810	542426	1.00	0.11	1.05	1.129	1.458	0.765	0.767
CC2-3	465248	597732	158244	436747	557568	1.00	0.11	1.05	1.123	1.468	0.778	0.783
								MEAN	1.124	1.478		
								STD DEV	0.005	0.010		
								% RSD	0.44	0.68		
CC3-1	1874520	2435132	225524	365137	460954	5.00	0.20	1.05	1.096	1.294	0.770	0.792
CC3-2	1930166	2487907	225238	377126	477220	5.00	0.20	1.05	1.086	1.247	0.776	0.790
CC3-3	1860633	2416488	221614	362437	455495	5.00	0.20	1.05	1.098	1.283	0.770	0.796
								MEAN	1.093	1.275		
								STD DEV	0.006	0.025		
								% RSD	0.59	1.96		
								RF NATIVE OVERALL MEAN	1.110			
								STD DEV	0.016			
								% RSD	1.399			
								RF SURROGATE OVERALL MEAN	1.336			
								STD DEV	0.124			
								% RSD	9.292			

* RF NATIVE % RELATIVE STANDARD DEVIATION MUST BE LESS THAN 10%
** RATIO OF 320/322 OR RATIO OF 332/334 OUTSIDE OF ACCEPTABLE RANGE

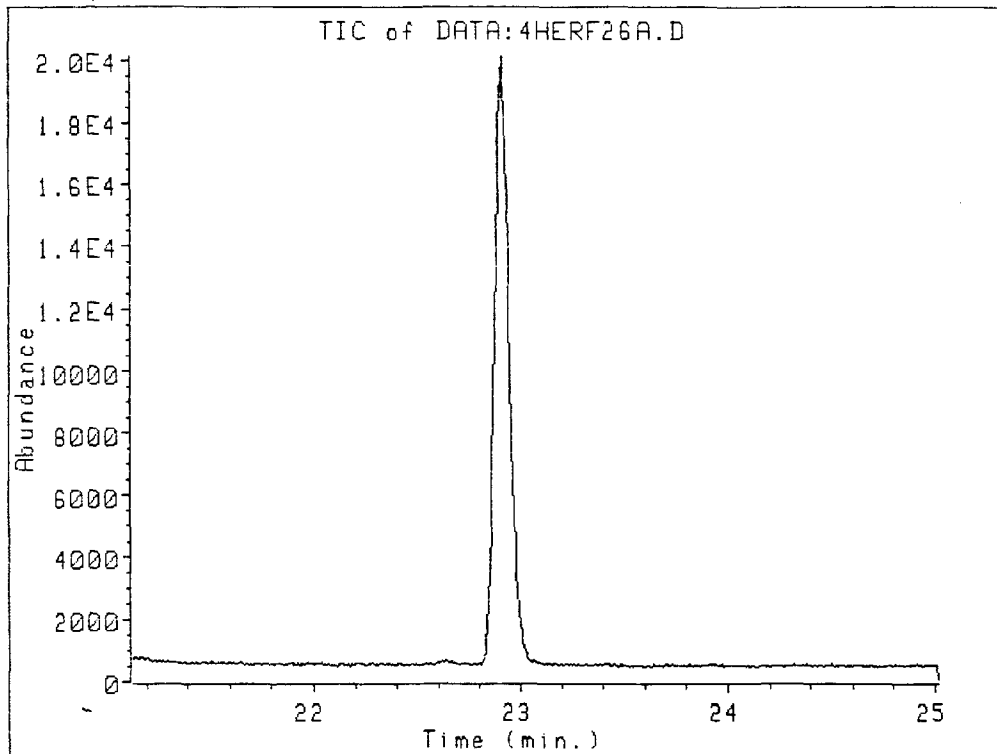
ATTACHMENT 1
SAMPLE MASS CHROMATOGRAMS

020732

Name Info: MB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 10:54 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 26
Replicate num : 1

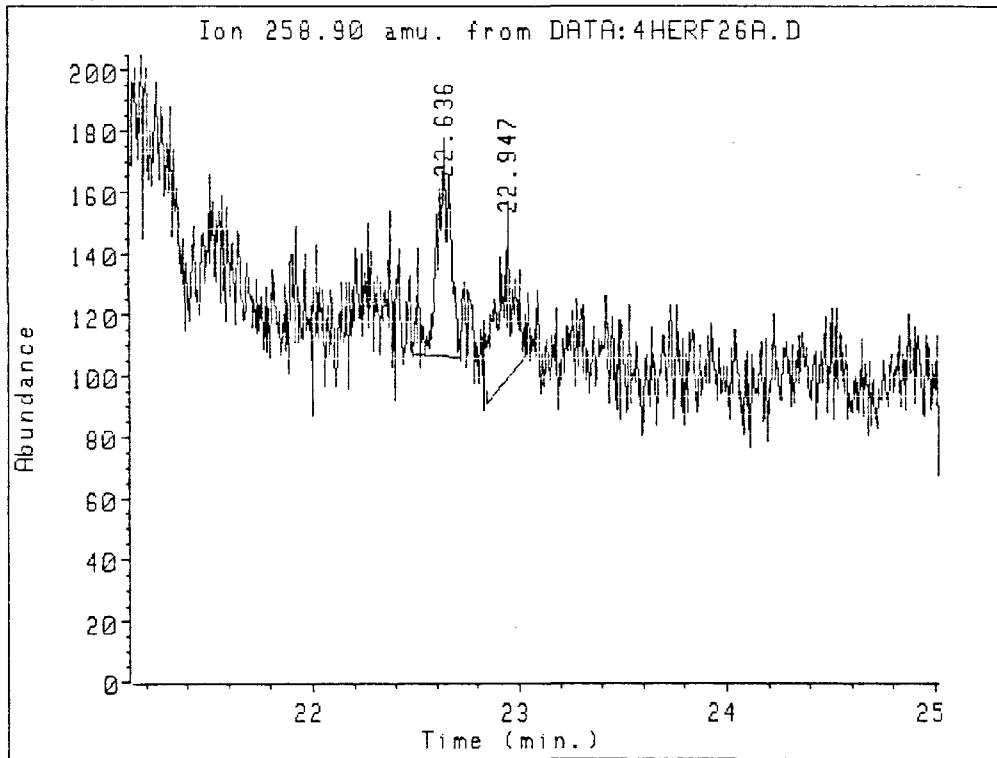


020735

Name Info: MB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 10:54 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 26
Replicate num : 1



Ion 258.90 amu. from DATA:4HERF26A.D
MB2

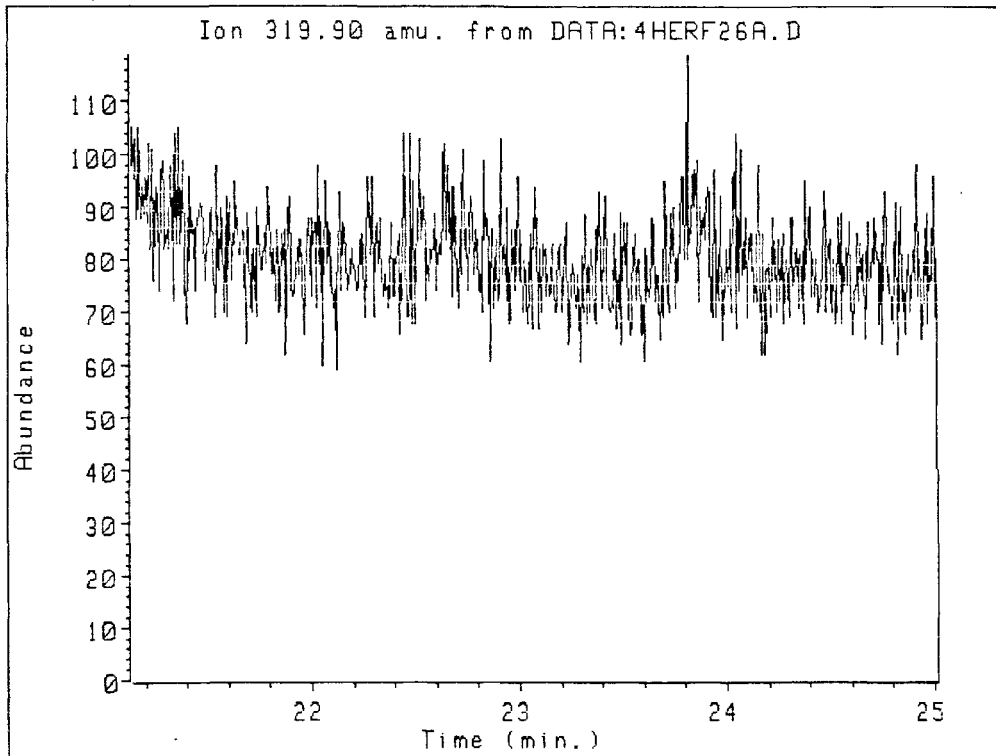
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.636	PV	0.072	3280	22.483	22.712
2	22.947	BB	0.073	2539	22.843	23.035

020754

Name Info: MB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 10:54 am
Instrmt: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 26
Replicate num : 1



Ion 319.90 amu. from DATA:4HERF26A.D
MB2

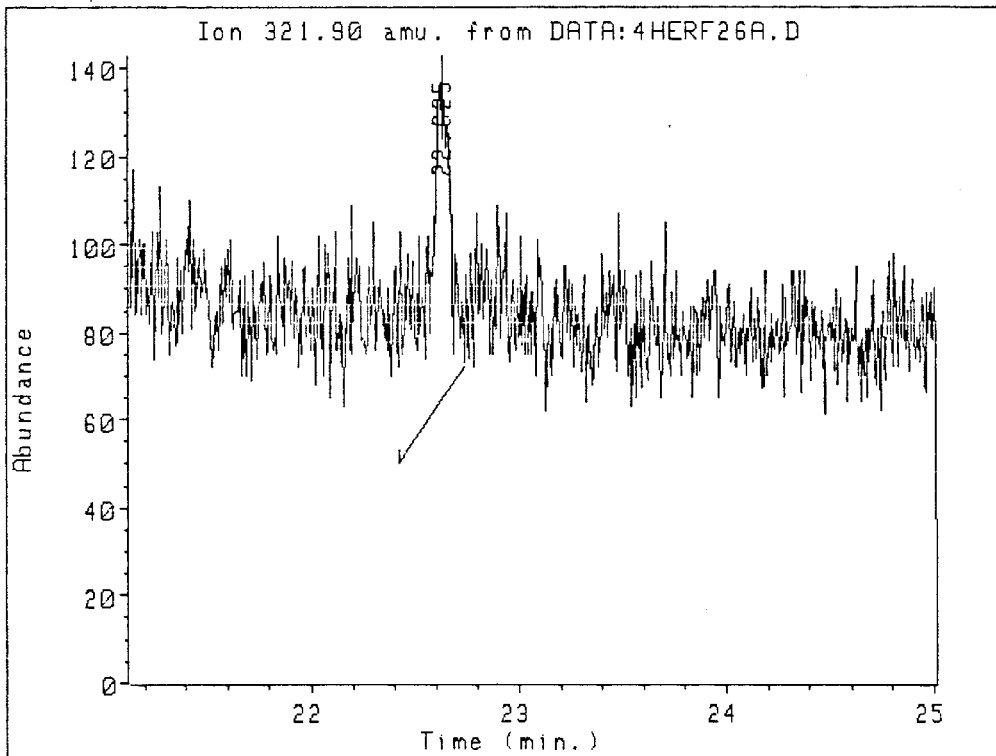
No peaks detected

020735

Name Info: MB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 10:54 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 26
Replicate num : 1



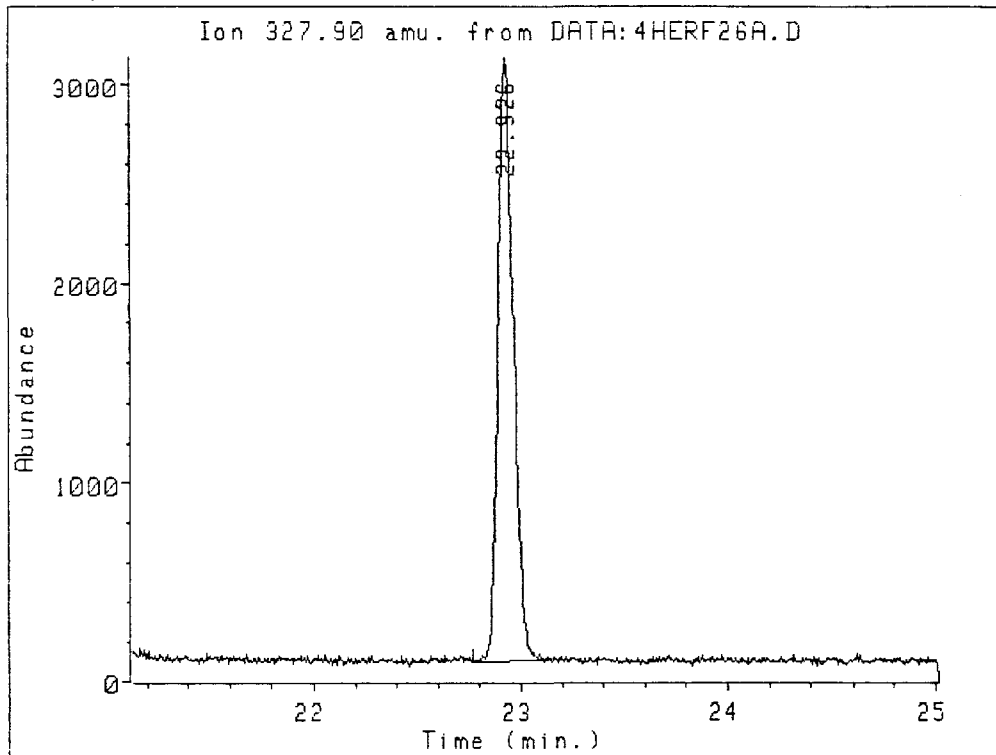
Ion 321.90 amu. from DATA:4HERF26A.D
MB2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.625	UU	0.121	6555	22.418	22.735

Name Info: MB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 10:54 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 26
Replicate num : 1



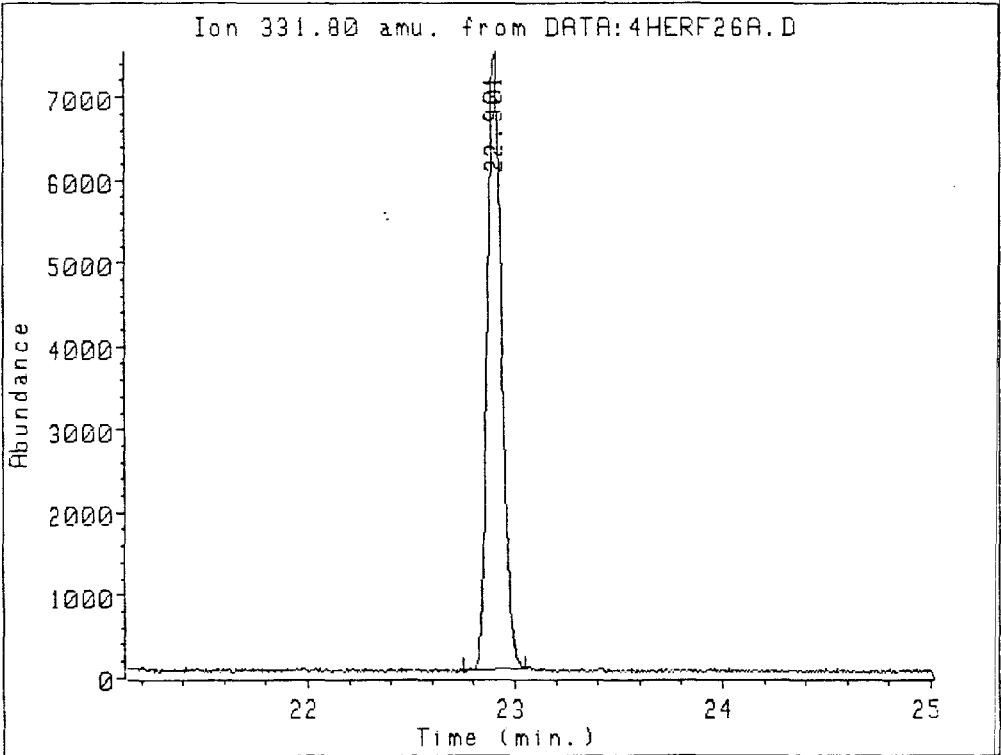
Ion 327.90 amu. from DATA:4HERF26A.D
MB2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.926	PV	0.078	159695	22.768	23.115

Name Info: MB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 10:54 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 26
Replicate num : 1



Ion 331.80 amu. from DATA:4HERF26A.D
MB2

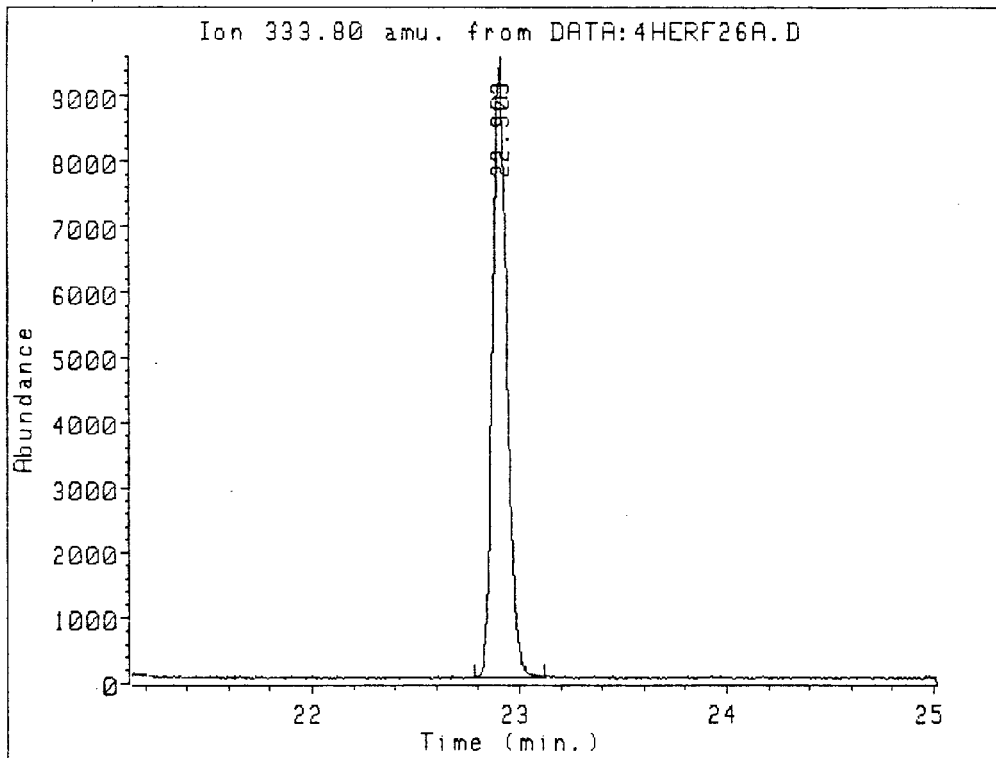
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.901	BV	0.077	365506	22.752	23.053

020750

Name Info: MB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 10:54 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 26
Replicate num : 1



Ion 333.80 amu. From DATA:4HERF26A.D
MB2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.903	BU	0.078	465351	22.779	23.123

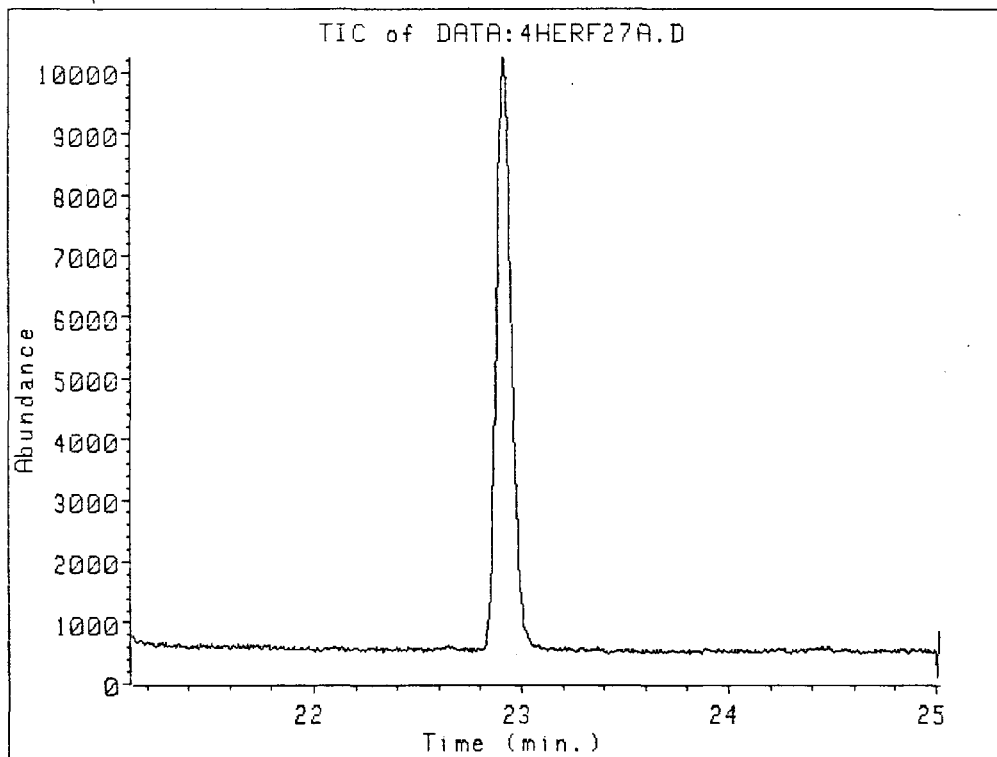
020785

Name Info: SB2
Misc Info:
Operator : TMS

3 1592

Date : 2 Aug 88 11:27 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 27
Replicate num : 1

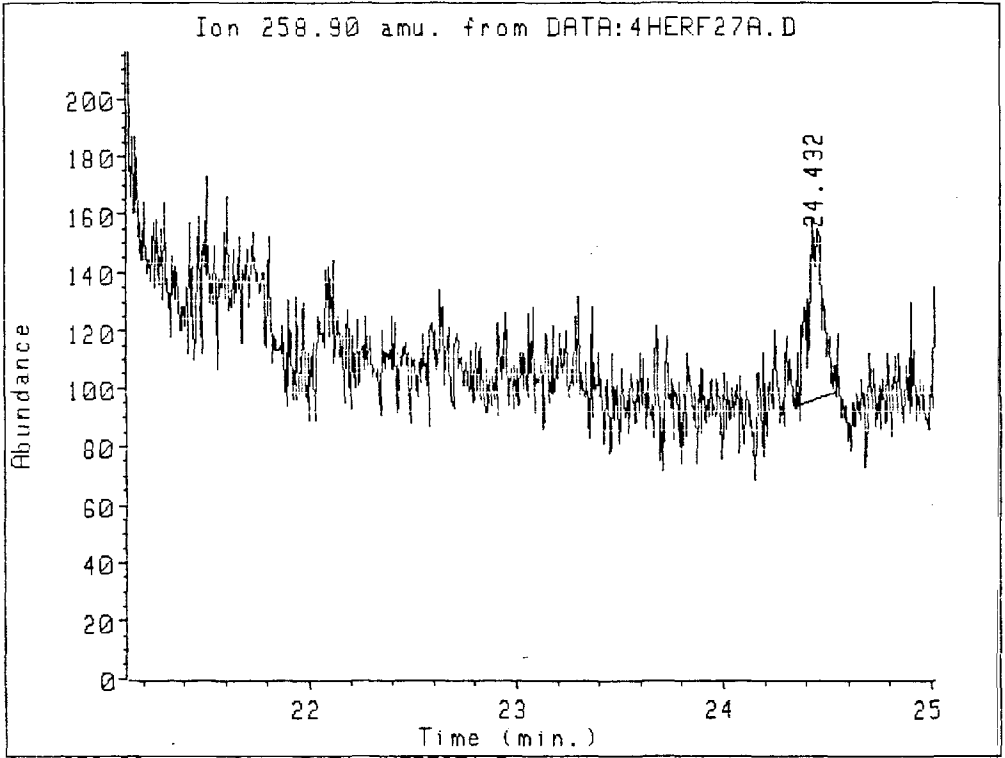


020770

Name Info: SB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 11:27 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 27
Replicate num : 1



020741

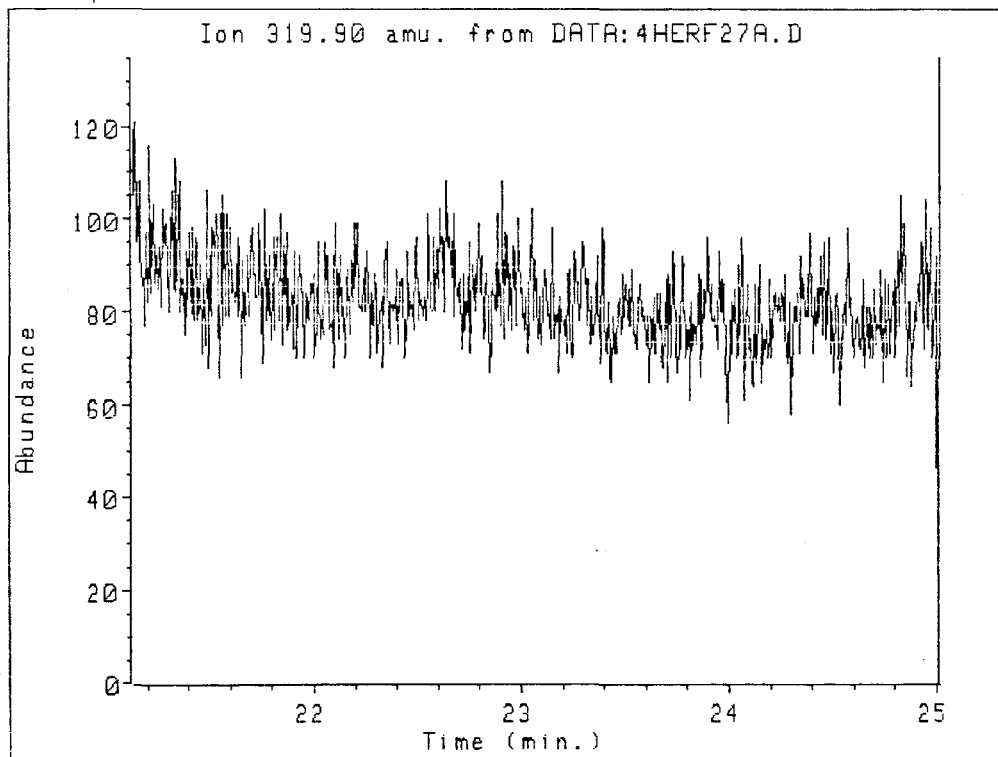
Ion 258.90 amu. from DATA:4HERF27A.D
SB2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.432	BV	0.076	3023	24.364	24.540

Name Info: SB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 11:27 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 27
Replicate num : 1



Ion 319.90 amu. from DATA:4HERF27A.D
SB2

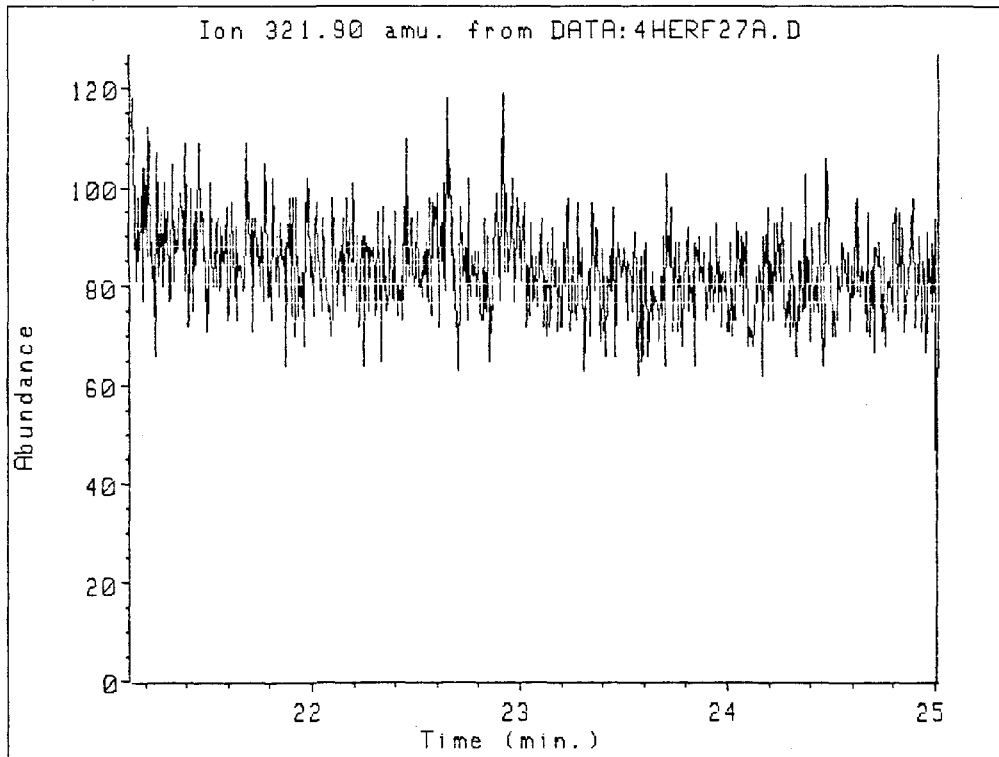
No peaks detected

020702

Name Info: SB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 11:27 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 27
Replicate num : 1



Ion 321.90 amu. from DATA:4HERF27A.D
SB2

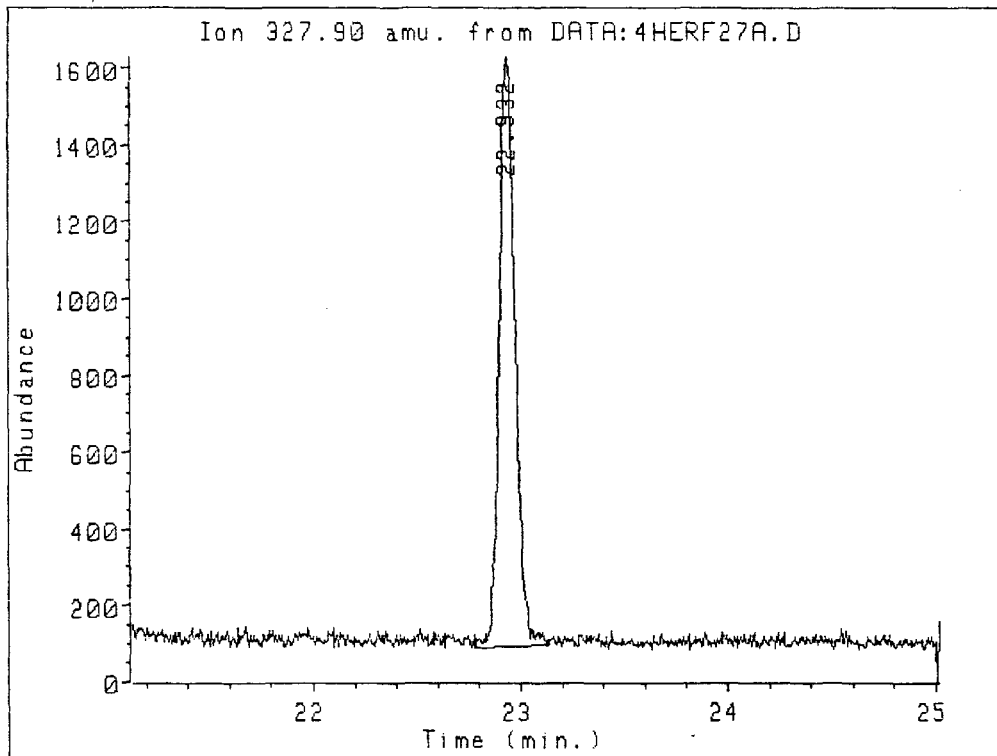
No peaks detected

020743

Name Info: SB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 11:27 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 27
Replicate num : 1



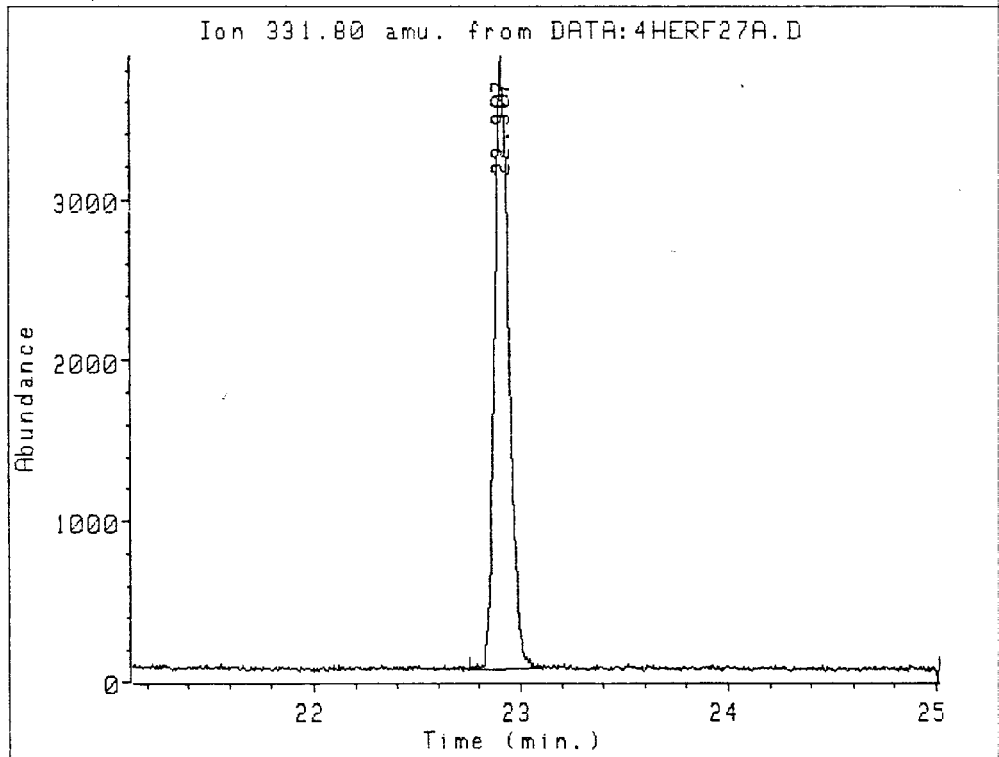
Ion 327.90 amu. from DATA:4HERF27A.D
SB2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.932	PU	0.082	83438	22.773	23.133

Name Info: SB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 11:27 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 27
Replicate num : 1



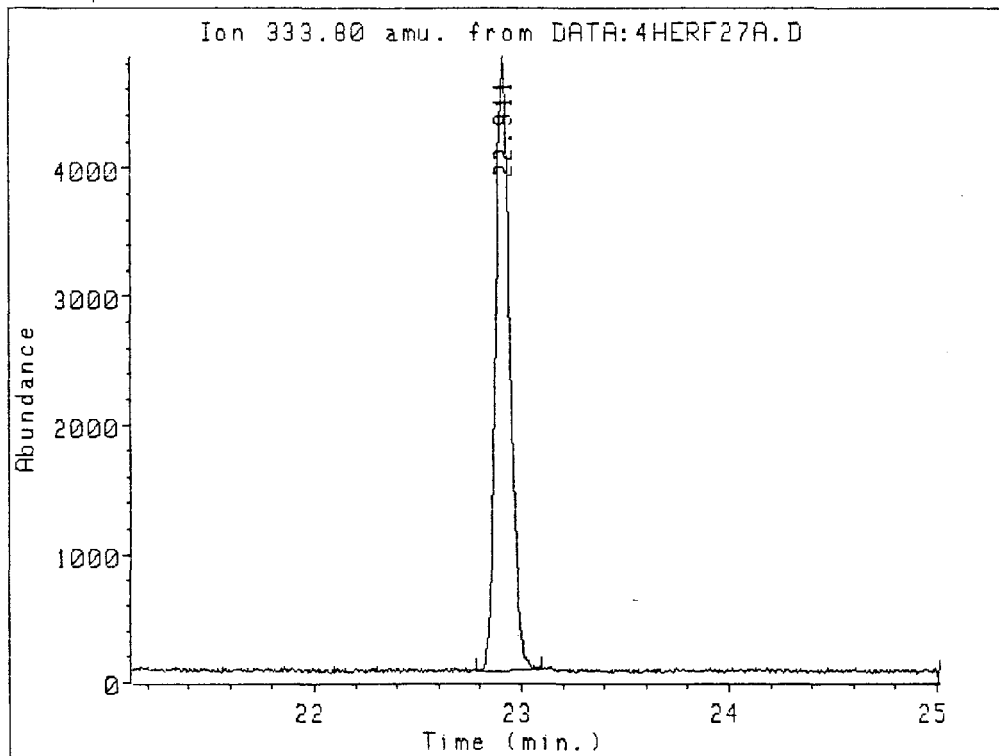
Ion 331.80 amu. from DATA:4HERF27A.D
SB2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.907	PU	0.079	186820	22.755	23.106

Name Info: SB2
Misc Info:
Operator : TMS

Date : 2 Aug 88 11:27 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 27
Replicate num : 1



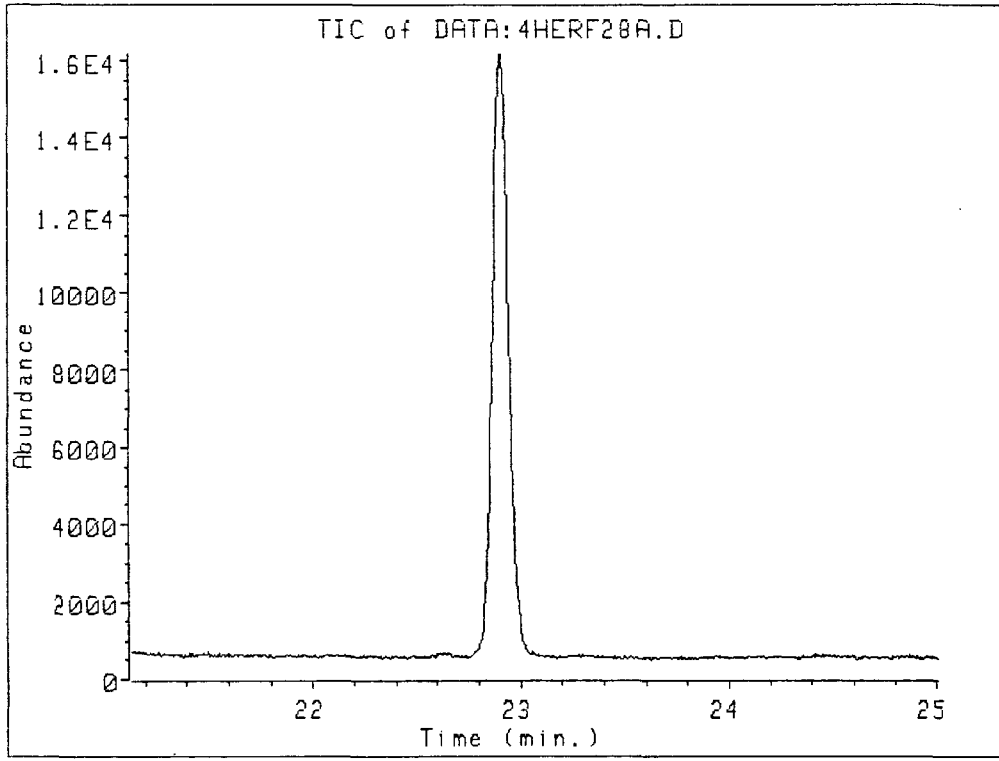
Ion 333.80 amu. from DATA:4HERF27A.D
SB2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.911	PV	0.073	235363	22.780	23.099

Name Info: SS2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:01 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 28
Replicate num : 1

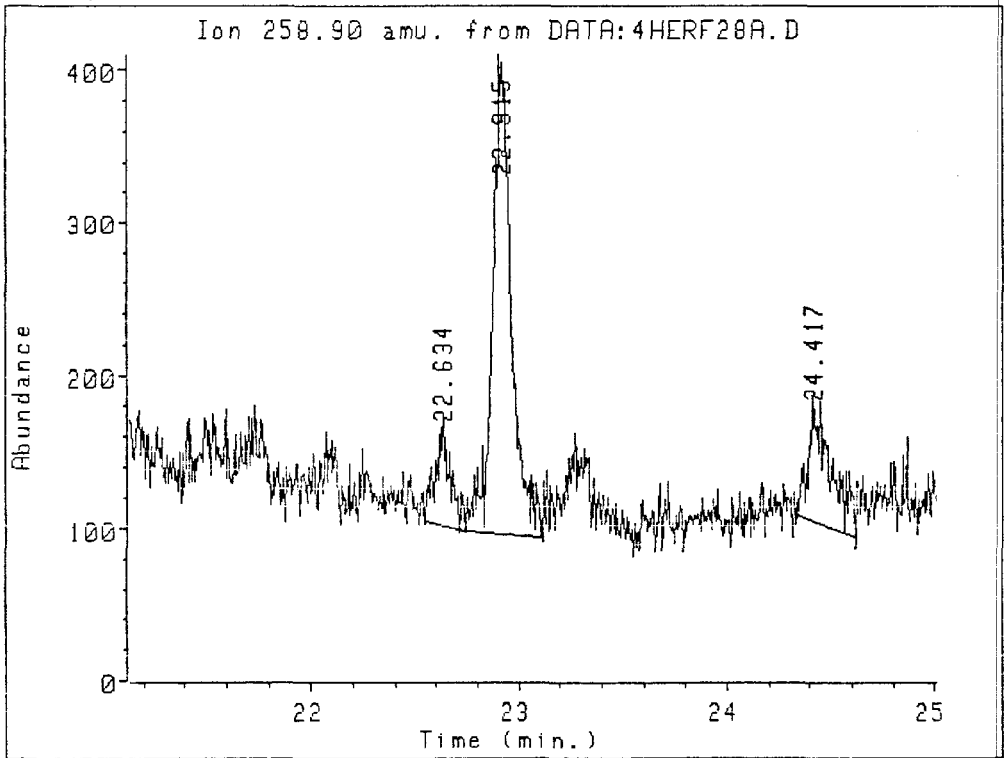


020767

Name Info: SS2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:01 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 28
Replicate num : 1



020710

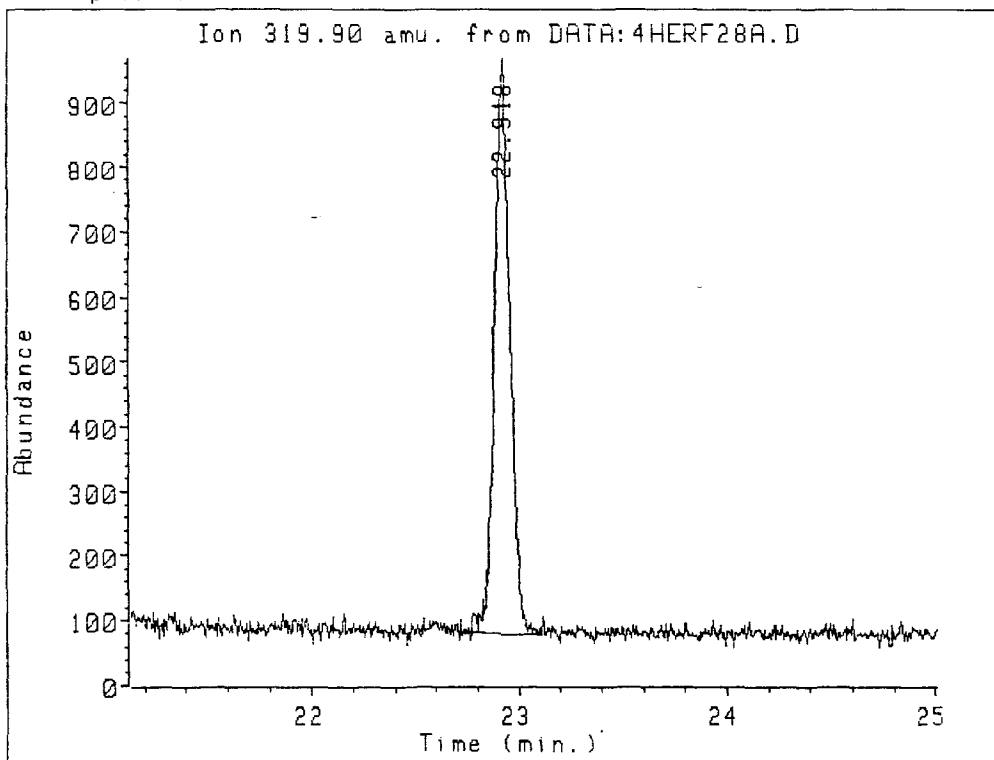
Ion 258.90 amu. from DATA:4HERF28A.D
SS2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.634	BV	0.071	3446	22.545	22.740
2	22.915	PV	0.098	20239	22.740	23.112
3	24.417	BV	0.099	6130	24.334	24.618

Name Info: SS2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:01 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 28
Replicate num : 1



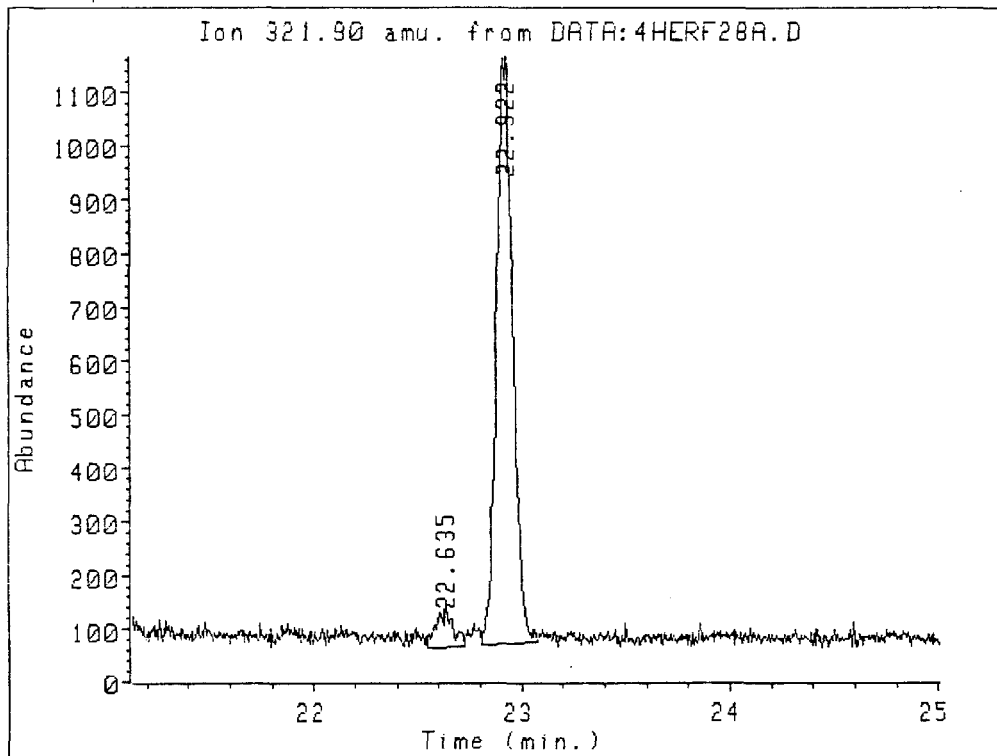
Ion 319.90 amu. from DATA:4HERF28A.D
SS2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.918	BV	0.074	46391	22.719	23.106

Name Info: SS2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:01 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 28
Replicate num : 1



Ion 321.90 amu. from DATA:4HERF28A.D
SS2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.635	UU	0.075	4035	22.542	22.722
2	22.922	UU	0.071	60980	22.804	23.076

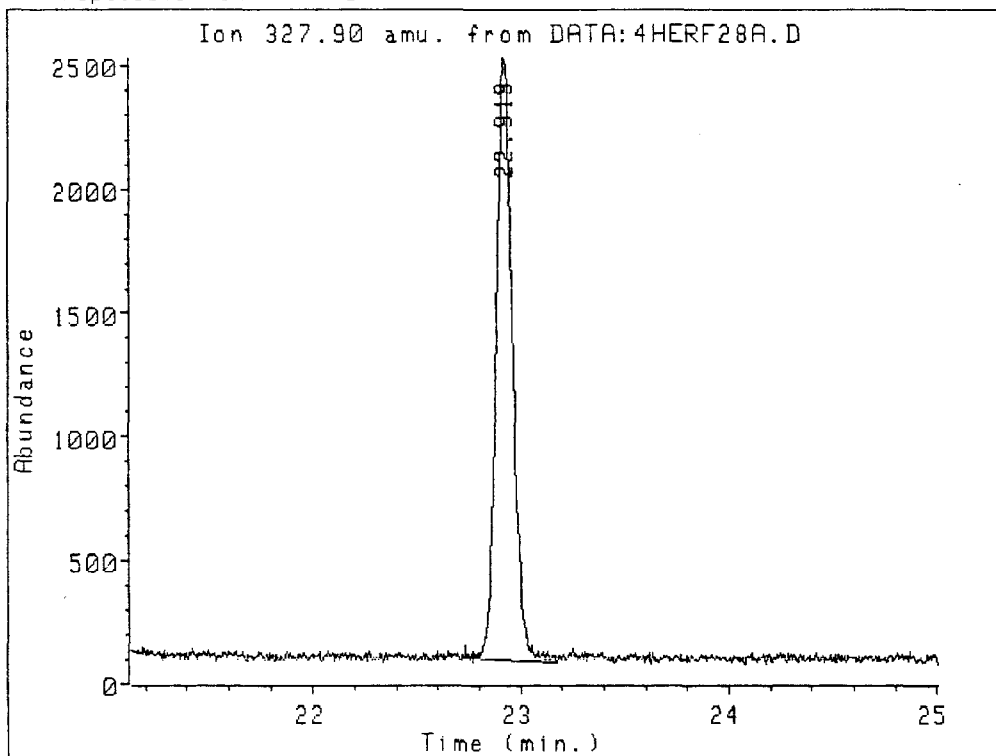
Data file: DATA:4HERF28A.D
File type: GC / MS DATA FILE

3 1603

Name Info: SS2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:01 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 28
Replicate num : 1



020751

Ion 327.90 amu. from DATA:4HERF28A.D
SS2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.919	BU	0.084	134337	22.731	23.173

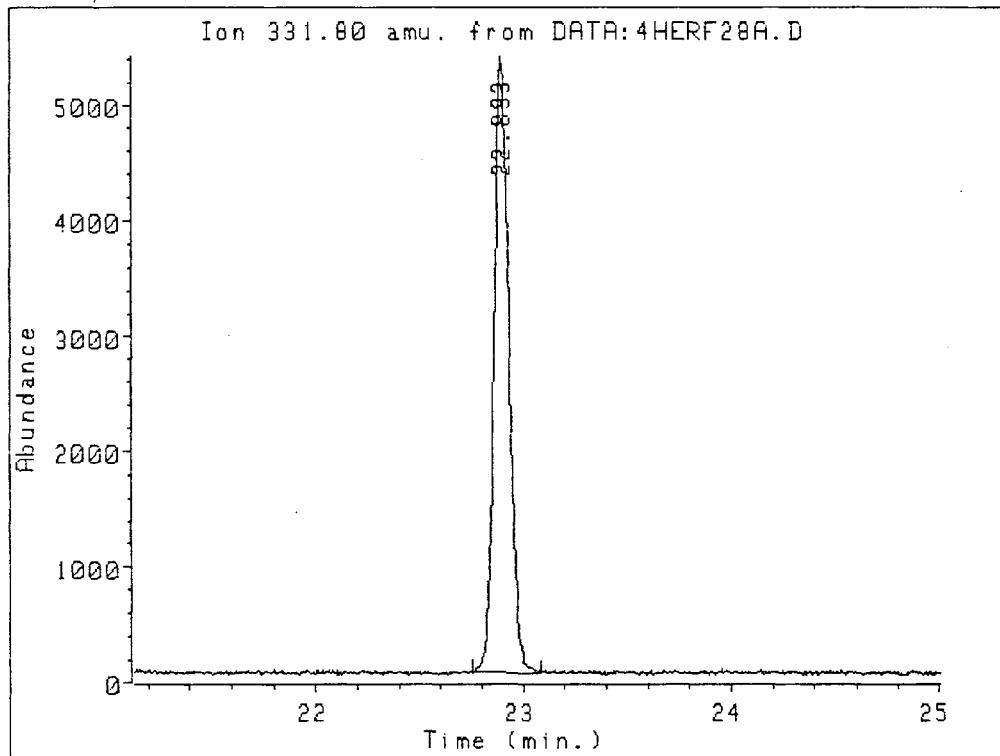
03220967

Name Info: SS2
Misc Info:
Operator : TMS

3 1604

Date : 2 Aug 88 12:01 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 28
Replicate num : 1



Ion 331.80 amu. from DATA:4HERF28A.D
SS2

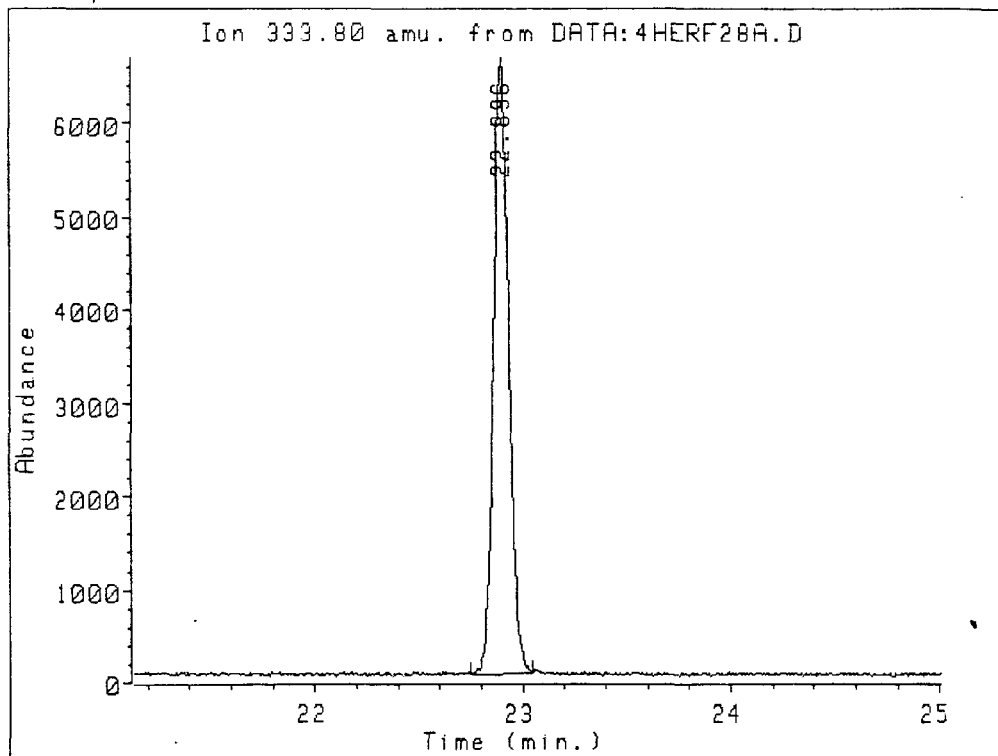
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.893	BU	0.075	268463	22.753	23.082

03220968

Name Info: SS2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:01 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 28
Replicate num : 1



Ion 333.80 amu. from DATA:4HERF28A.D
SS2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.896	PV	0.075	337430	22.750	23.045

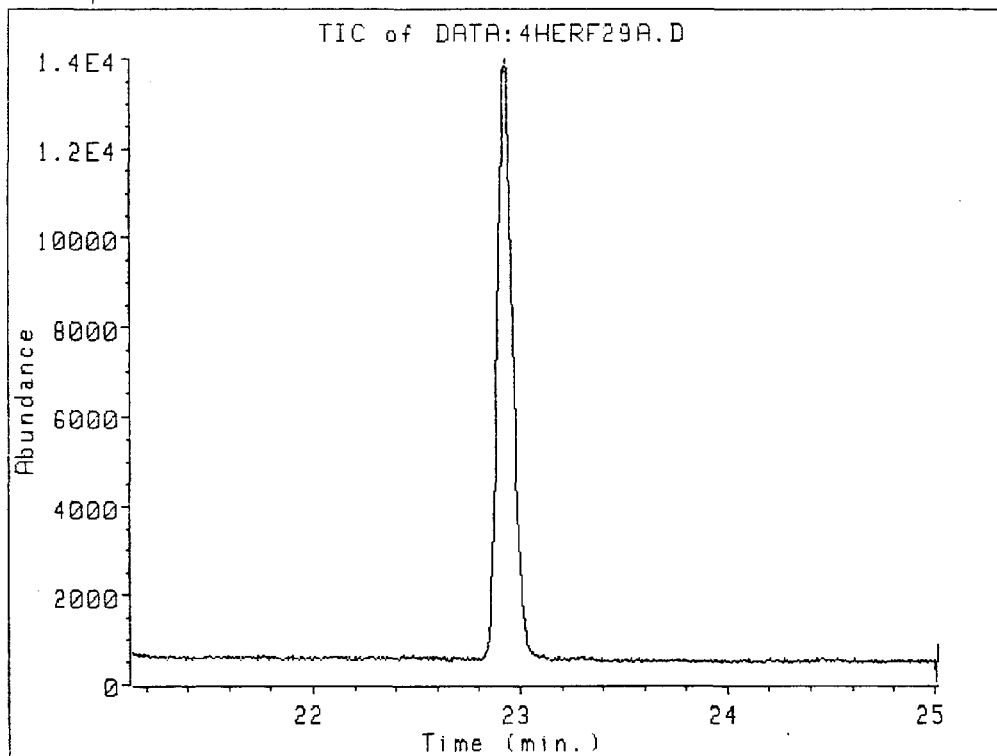
Data file: DATA:4HERF29A.D
File type: GC / MS DATA FILE

Name Info: PEA2
Misc Info:
Operator : TMS

3 1606

Date : 2 Aug 88 12:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 29
Replicate num : 1



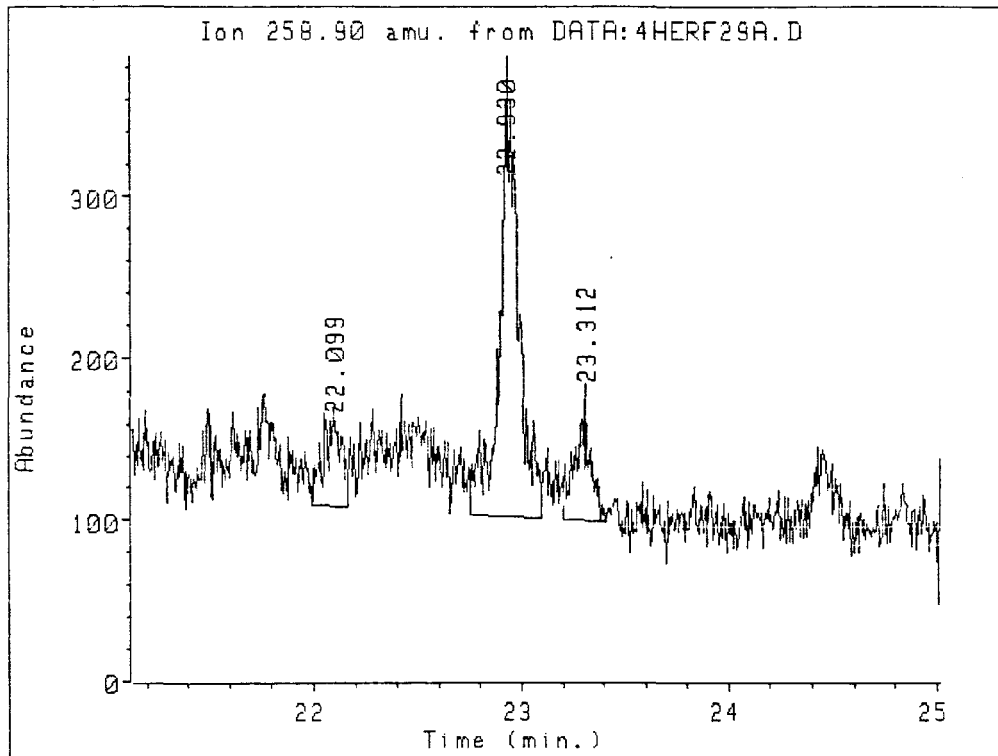
021754

03220970

Name Info: PEA2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 29
Replicate num : 1



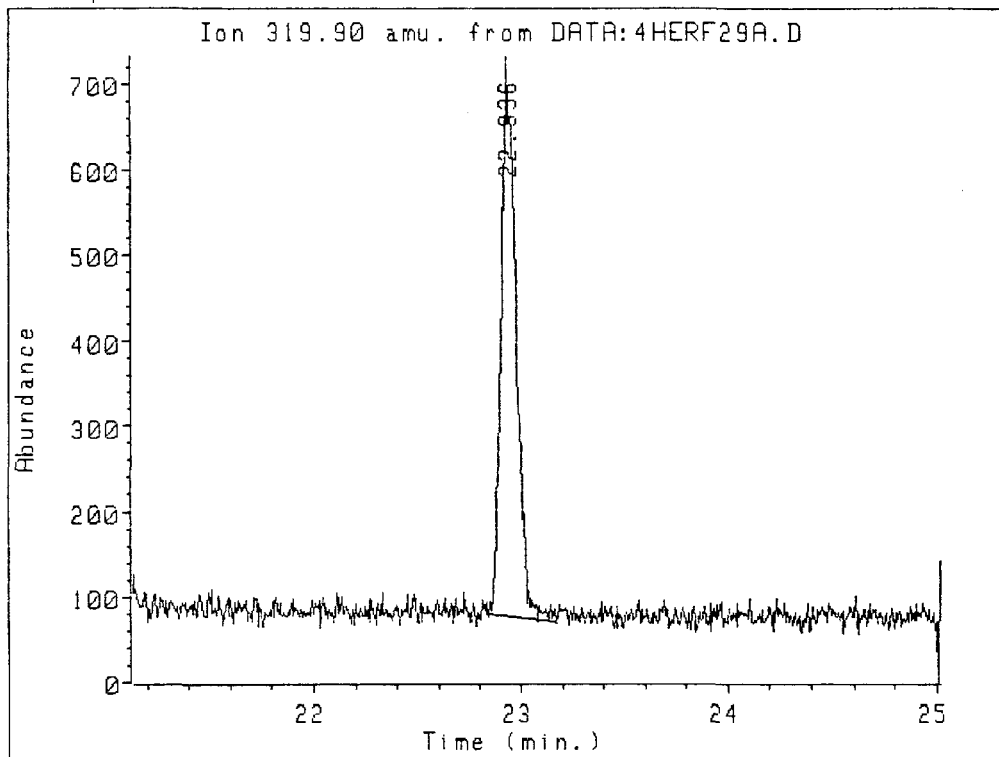
Ion 258.90 amu. from DATA:4HERF29A.D
PEA2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.099	PV	0.090	3483	21.991	22.164
2	22.930	VU	0.086	17300	22.754	23.100
3	23.312	UB	0.074	3795	23.200	23.410

Name Info: PEA2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 29
Replicate num : 1



Ion 319.90 amu. from DATA:4HERF29A.D
PEA2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.936	BV	0.068	33333	22.838	23.173

020750

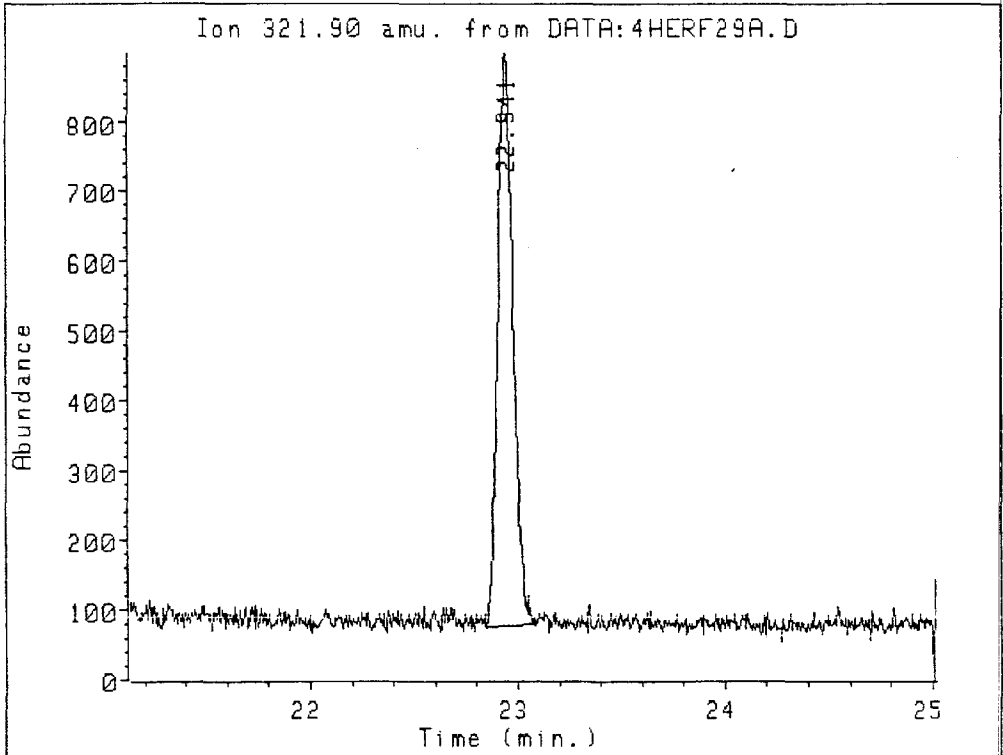
25
Data file: DATA:4HERF29A.D
File type: GC / MS DATA FILE

3 1609

Name Info: PEA2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 29
Replicate num : 1



Ion 321.90 amu. from DATA:4HERF29A.D
PEA2

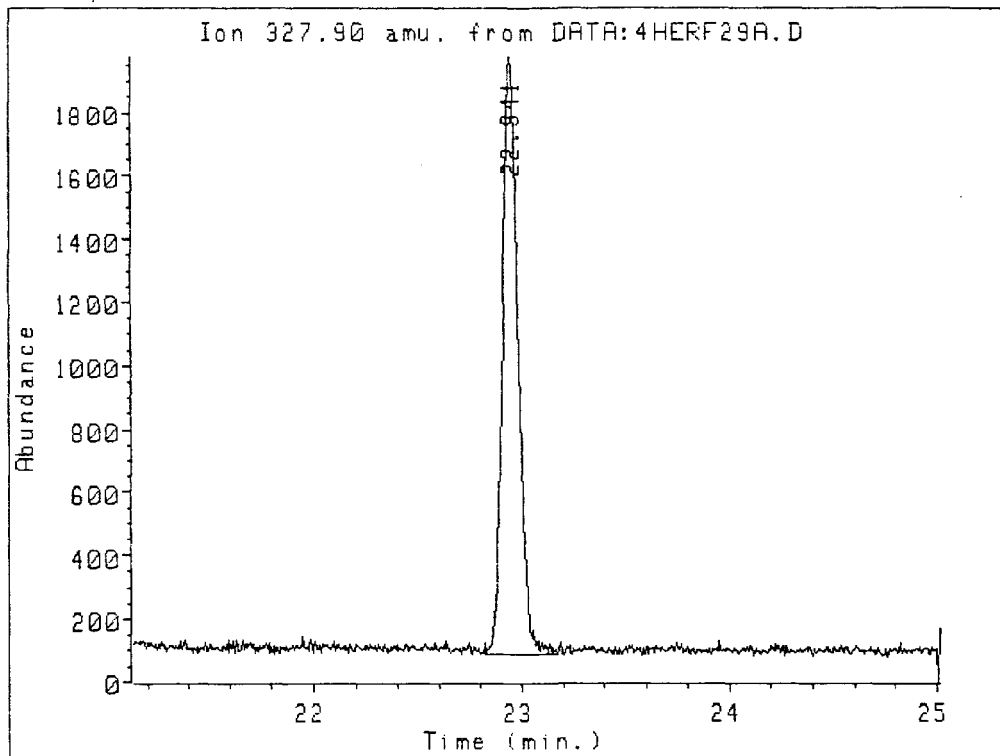
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.941	BU	0.078	42749	22.844	23.094

020757
03220973

Name Info: PEA2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 29
Replicate num : 1



Ion 327.90 amu. from DATA:4HERF29A.D
PEA2

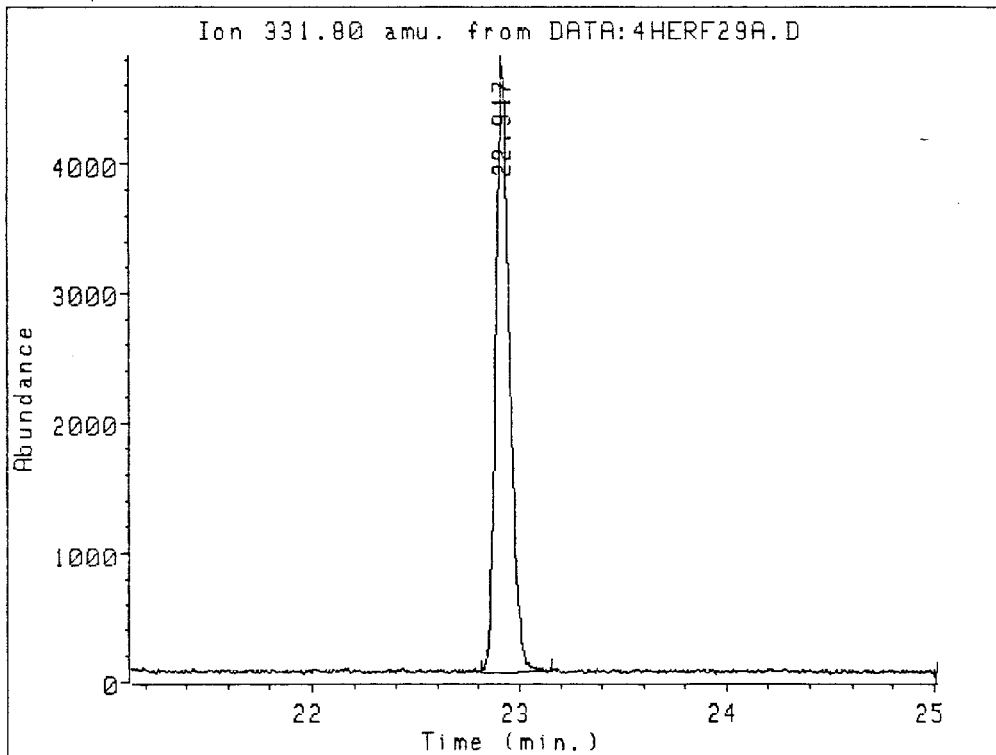
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.941	PV	0.081	101636	22.819	23.173

020750

Name Info: PEA2
Misc Info:
Operator : TMS

Date : 2 Aug 88 12:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 29
Replicate num : 1



Ion 331.80 amu. from DATA:4HERF29A.D
PEA2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.917	PV	0.073	225270	22.810	23.161

020750

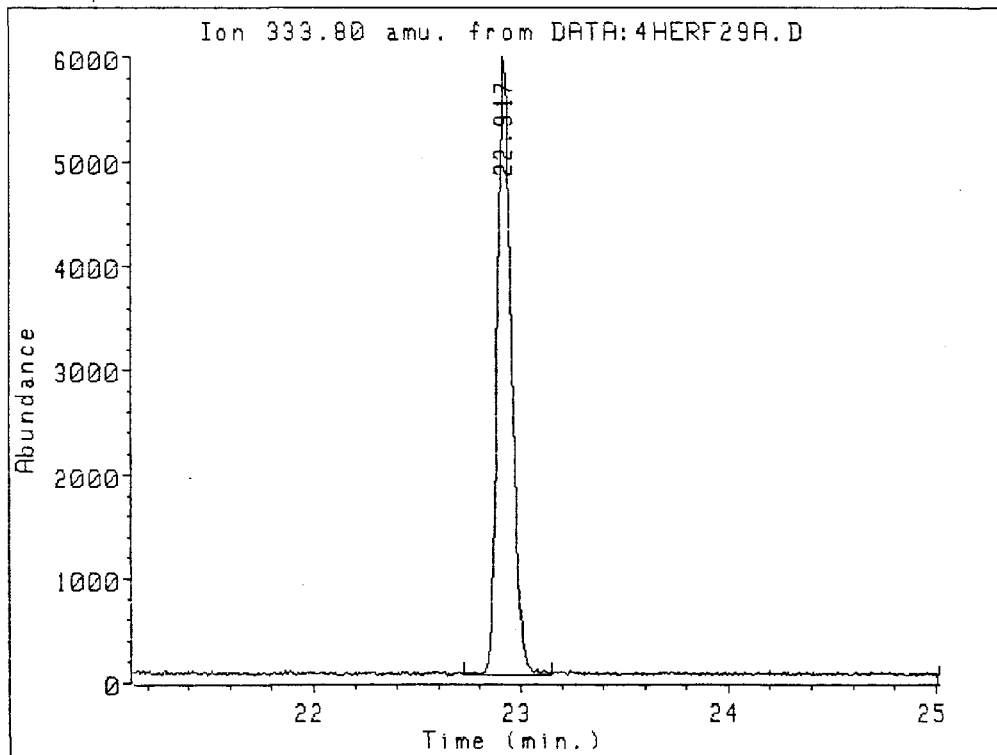
24
Data file: DATA:4HERF29A.D
File type: GC / MS DATA FILE

Name Info: PEA2
Misc Info:
Operator : TMS

3 1612

Date : 2 Aug 88 12:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 29
Replicate num : 1



Ion 333.80 amu. from DATA:4HERF29A.D
PEA2

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.917	PV	0.076	285829	22.723	23.154

03220976

020760

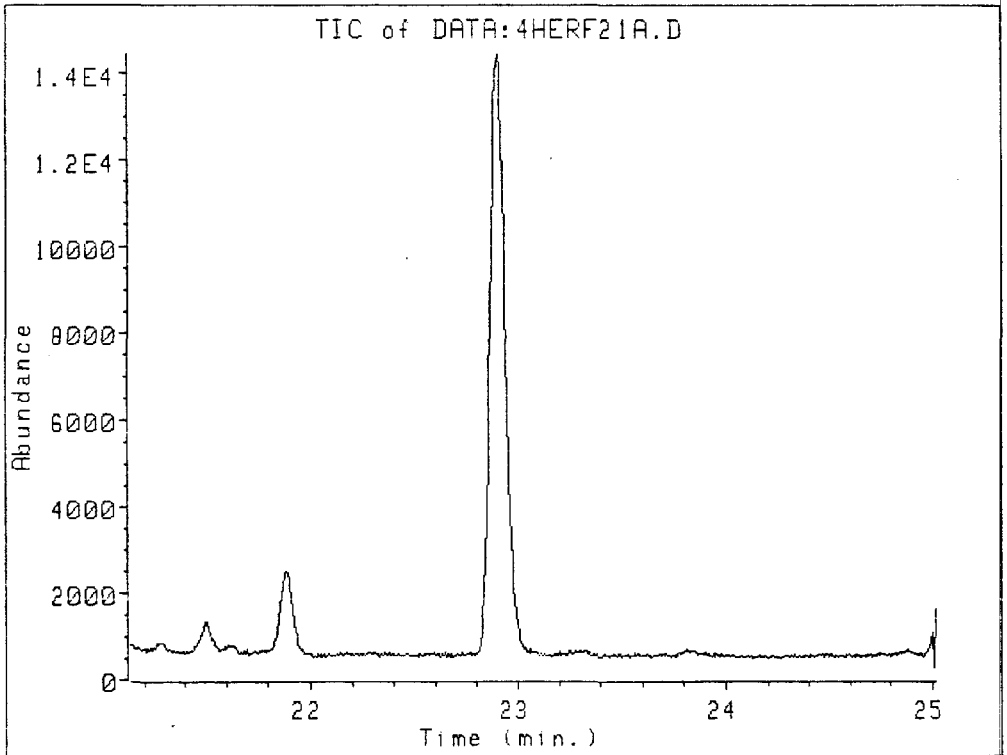
21
Data file: DATA:4HERF21A.D
File type: GC / MS DATA FILE

Name Info: 2311
Misc Info:
Operator : TMS

3 1613

Date : 2 Aug 88 8:06 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 21
Replicate num : 1



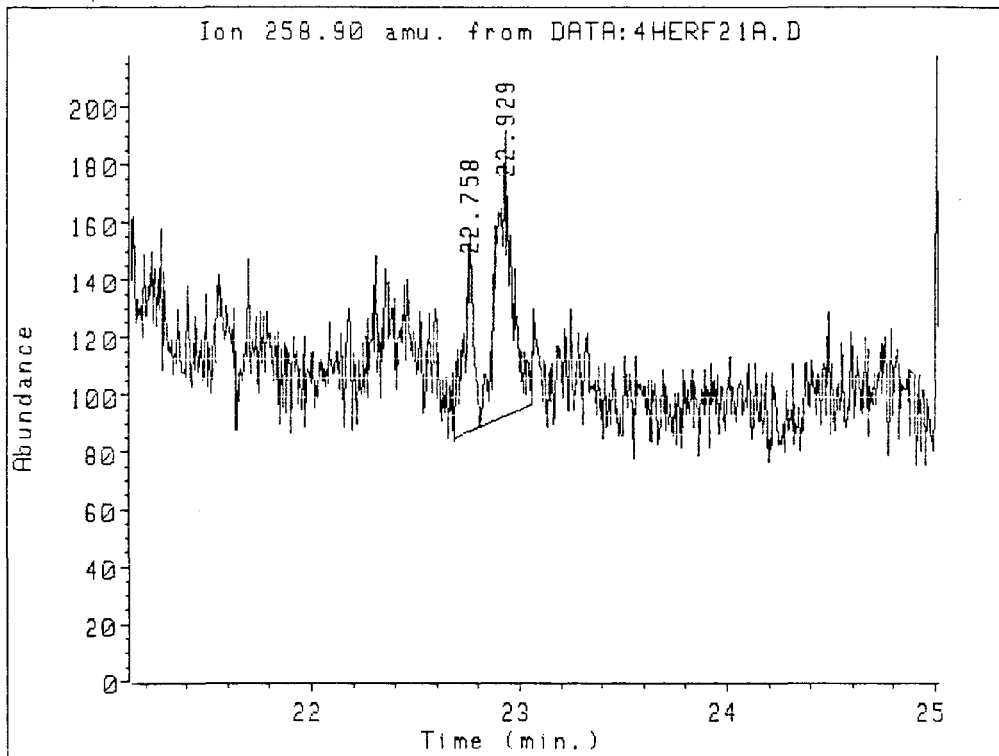
020769

03220977

Name Info: 2311
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:06 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 21
Replicate num : 1



020762

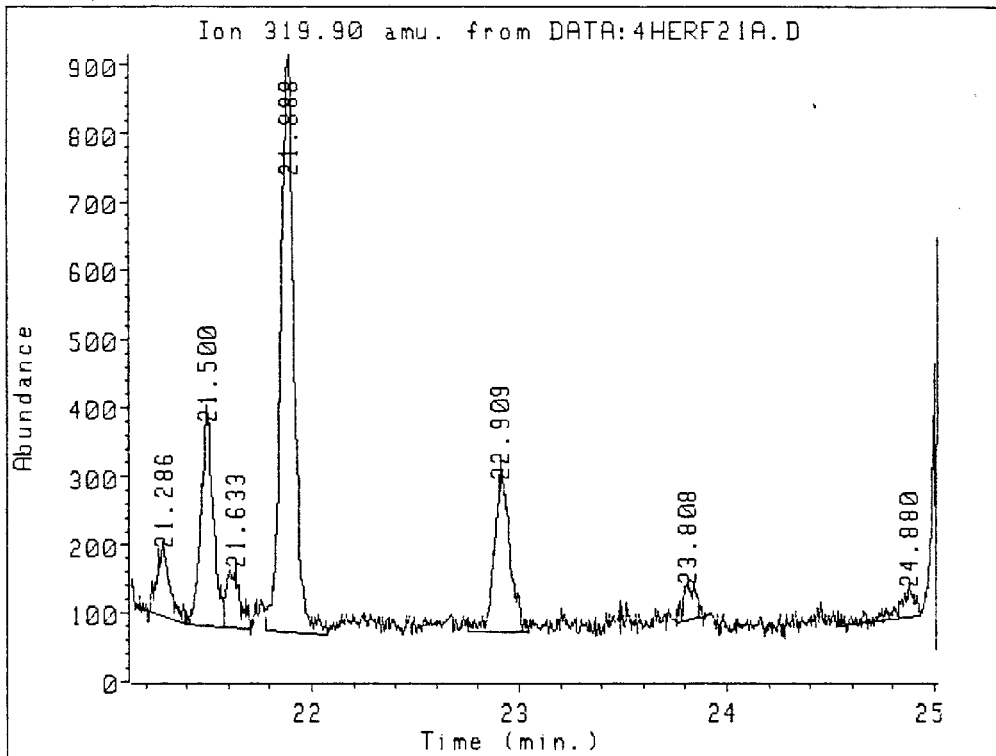
Ion 258.90 amu. from DATA:4HERF21A.D
2311

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.758	BU	0.047	2134	22.685	22.807
2	22.929	UU	0.073	5296	22.807	23.063

Name Info: 2311
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:06 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 21
Replicate num : 1



Ion 319.90 amu. from DATA:4HERF21A.D
2311

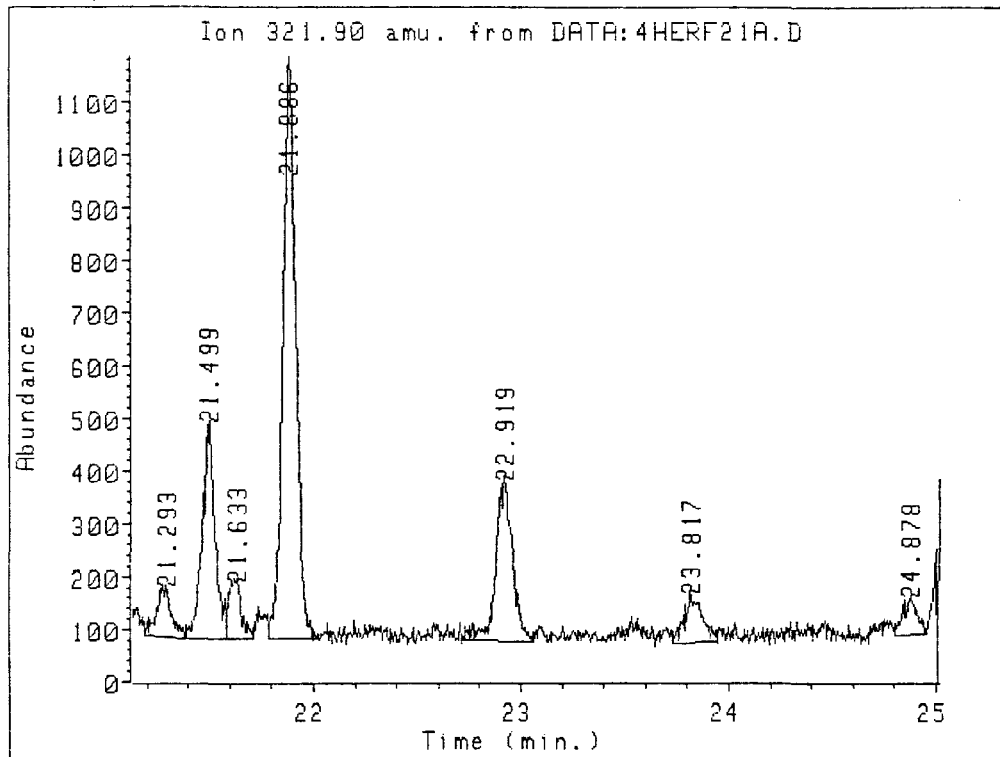
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.286	BV	0.059	4505	21.174	21.398
2	21.500	PV	0.058	12850	21.398	21.579
3	21.633	VV	0.071	3924	21.579	21.708
4	21.888	VV	0.072	38221	21.783	22.076
5	22.909	PV	0.075	12739	22.752	23.044
6	23.808	BB	0.064	2208	23.760	23.904
7	24.880	PV	0.067	2358	24.534	24.936

020763

Name Info: 2311
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:06 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 21
Replicate num : 1



Ion 321.90 amu. from DATA:4HERF21A.D
2311

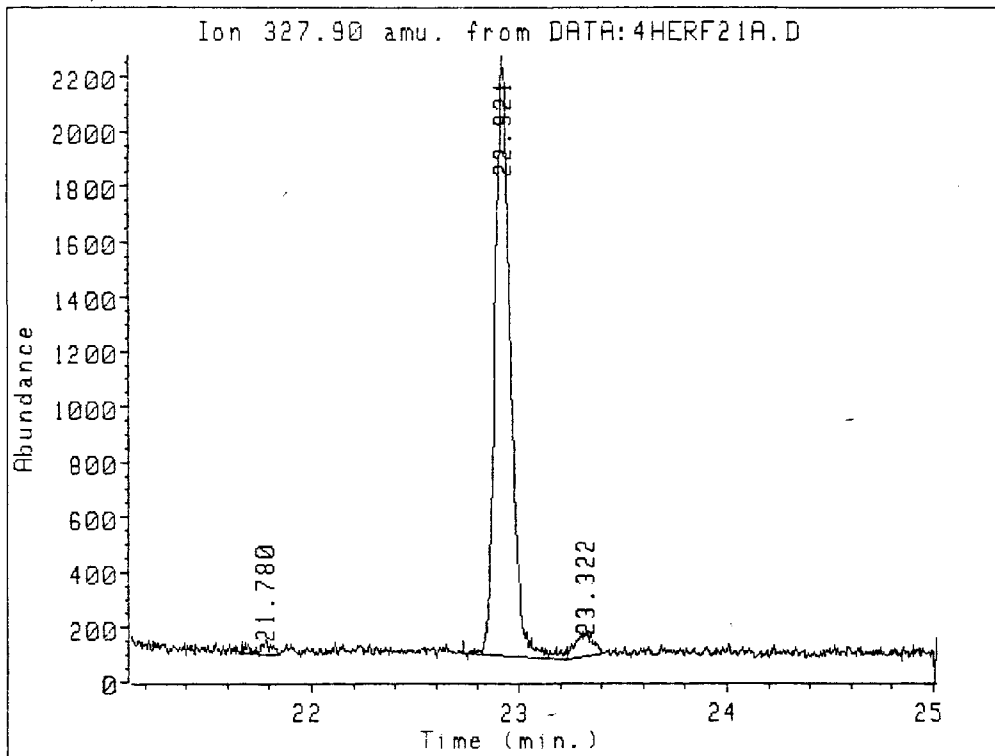
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.293	BV	0.070	4724	21.189	21.387
2	21.499	PV	0.061	17354	21.387	21.585
3	21.633	VV	0.061	4852	21.585	21.716
4	21.886	VV	0.065	47716	21.789	22.033
5	22.919	BV	0.071	17131	22.731	23.063
6	23.817	VV	0.081	5342	23.733	23.944
7	24.878	VV	0.070	3327	24.802	24.952

020766

Name Info: 2311
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:06 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 21
Replicate num : 1



020765

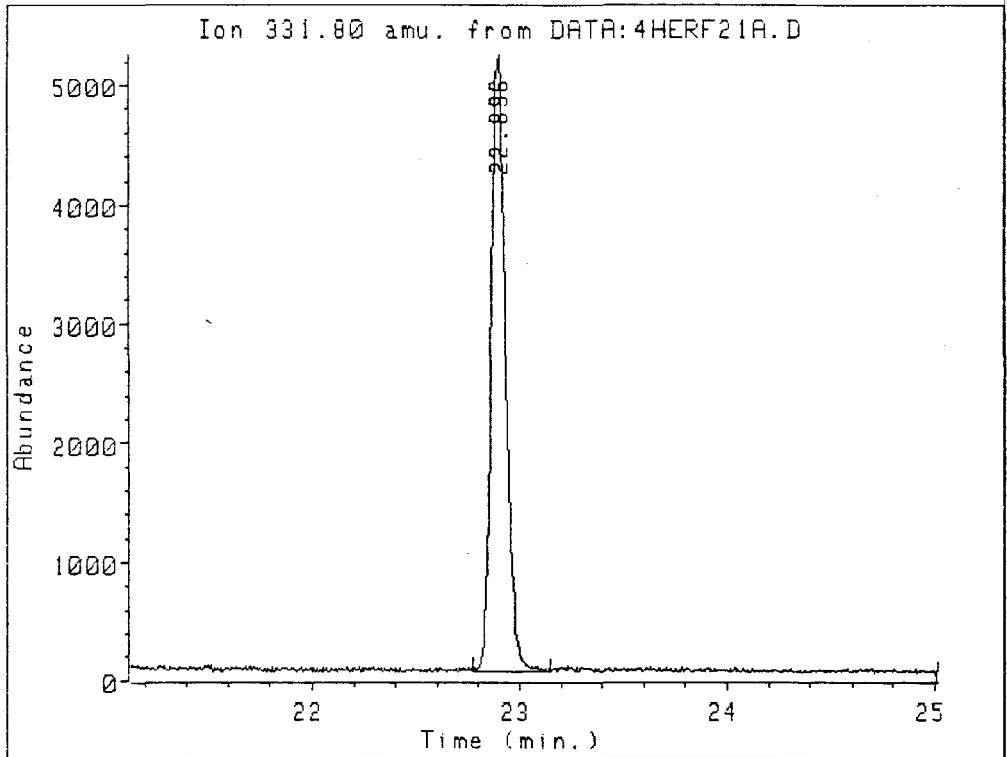
Ion 327.90 amu. from DATA:4HERF21A.D
2311

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.780	UV	0.058	2275	21.671	21.850
2	22.921	BU	0.085	114987	22.728	23.230
3	23.322	PV	0.081	4898	23.230	23.412

Name Info: 2311
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:06 am
Instrment: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 21
Replicate num : 1



Ion 331.80 amu. from DATA:4HERF21A.D
2311

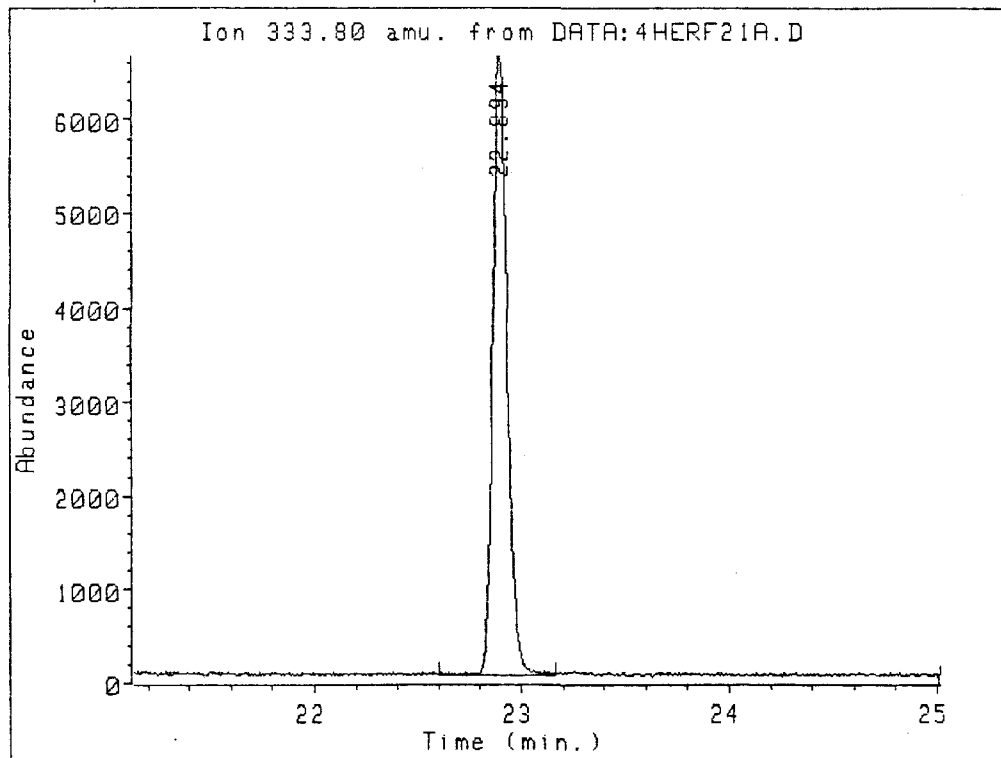
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.896	PV	0.078	257797	22.773	23.154

020776

Name Info: 2311
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:06 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 21
Replicate num : 1



020767

Ion 333.80 amu. from DATA:4HERF21A.D
2311

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.894	UU	0.077	328453	22.600	23.160

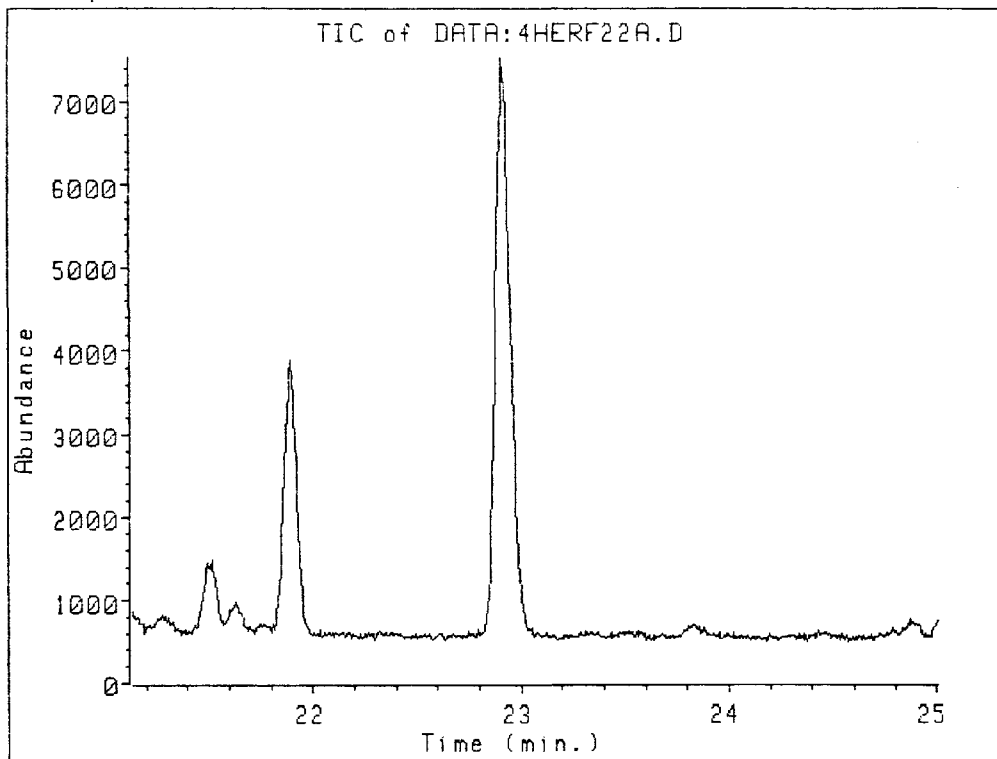
Data file: DATA:4HERF22A.D
File type: GC / MS DATA FILE

Name Info: 2312
Misc Info:
Operator : TMS

3 1620

Date : 2 Aug 88 8:40 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 22
Replicate num : 1



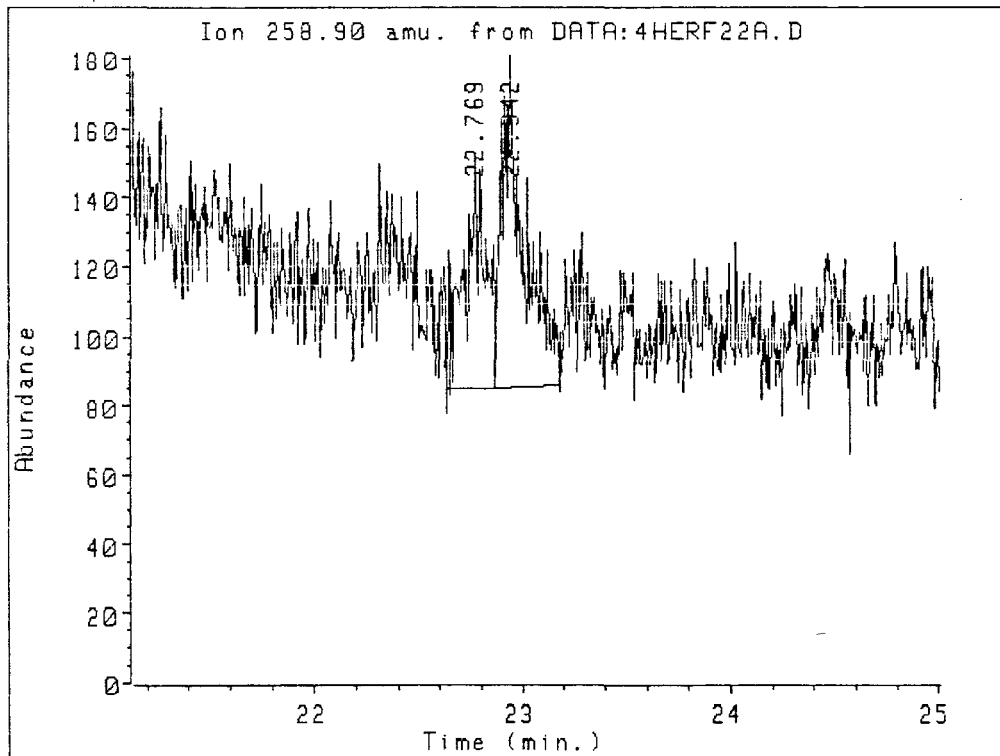
020760

03220984

Name Info: 2312
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:40 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 22
Replicate num : 1



020763

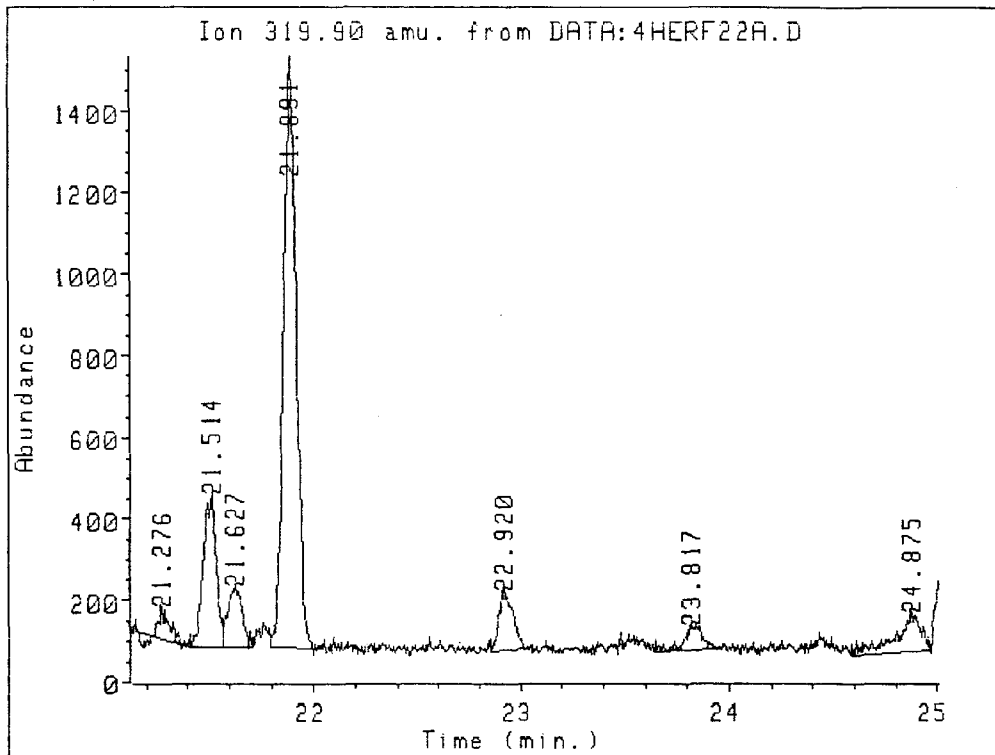
Ion 258.90 amu. from DATA:4HERF22A.D
2312

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.769	PV	0.110	4528	22.635	22.868
2	22.942	UU	0.098	7088	22.868	23.185

Name Info: 2312
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:40 am
Instrment: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 22
Replicate num : 1



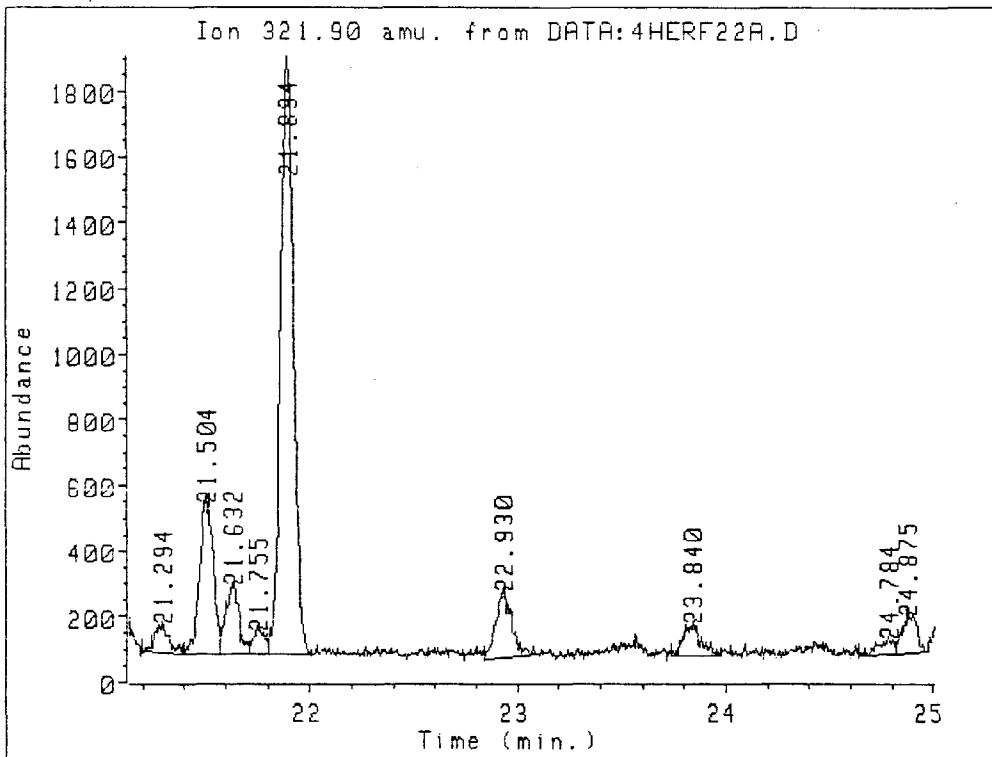
Ion 319.90 amu. from DATA:4HERF22A.D
2312

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.276	BV	0.036	2124	21.147	21.412
2	21.514	PV	0.055	16003	21.412	21.573
3	21.627	VV	0.067	6786	21.573	21.716
4	21.891	VV	0.063	60823	21.797	22.043
5	22.920	BV	0.062	6824	22.853	23.024
6	23.817	PV	0.086	3879	23.646	23.941
7	24.875	PV	0.106	7654	24.583	24.964

Name Info: 2312
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:40 am
Instrment: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 22
Replicate num : 1



Ion 321.90 amu. from DATA:4HERF22A.D
2312

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.294	BV	0.065	4442	21.195	21.400
2	21.504	PV	0.071	21630	21.400	21.573
3	21.632	VU	0.058	9298	21.573	21.711
4	21.755	VU	0.059	3162	21.711	21.805
5	21.894	VU	0.068	79537	21.805	22.014
6	22.930	PV	0.074	11233	22.838	23.106
7	23.840	PV	0.074	5819	23.739	23.972
8	24.784	PV	0.086	2604	24.641	24.816
9	24.875	VU	0.075	5732	24.816	24.968

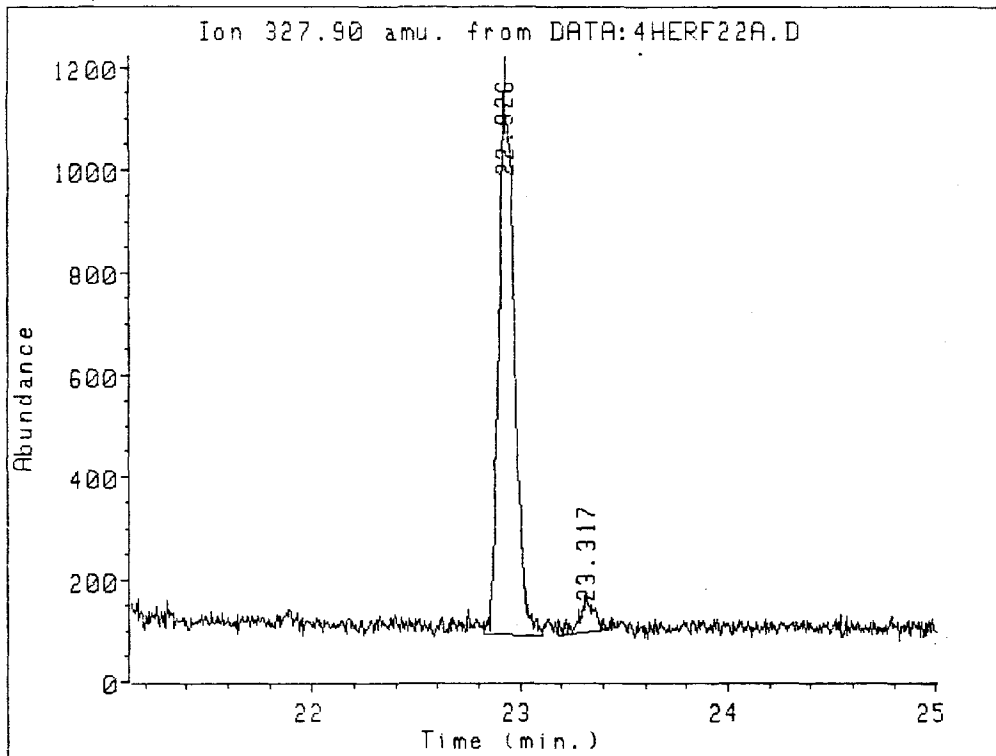
020771

Name Info: 2312
Misc Info:
Operator : TMS

3 1624

Date : 2 Aug 88 8:40 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 22
Replicate num : 1



020772

Ion 327.90 amu. from DATA:4HERF22A.D
2312

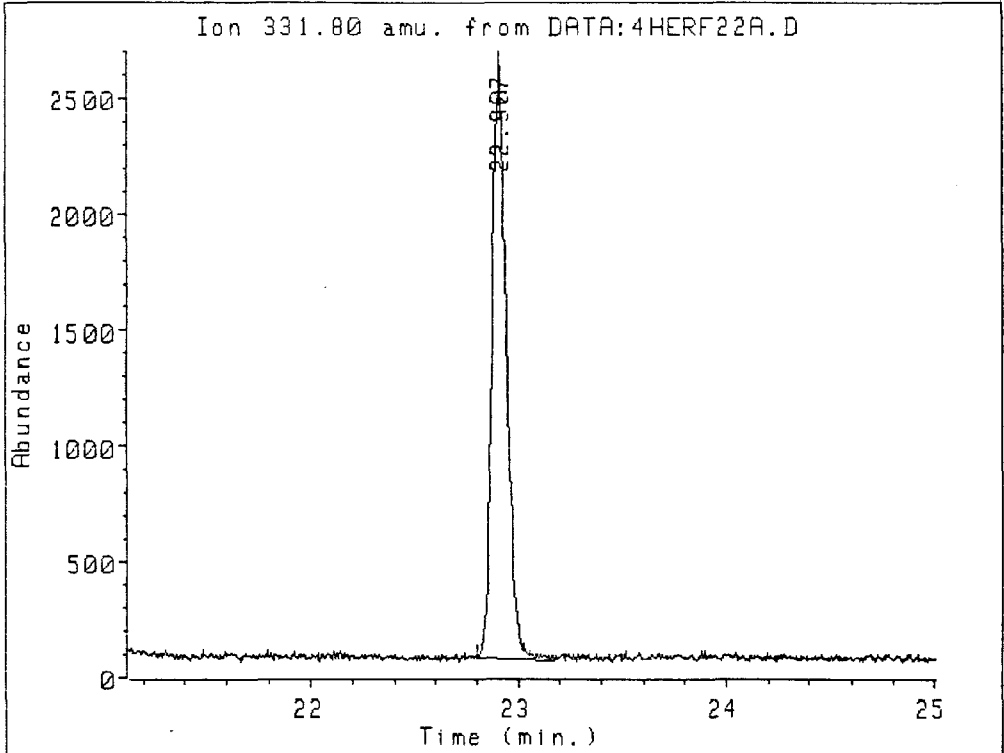
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.926	UU	0.079	57509	22.826	23.106
2	23.317	PU	0.072	3692	23.179	23.423

03220988

Name Info: 2312
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:40 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 22
Replicate num : 1



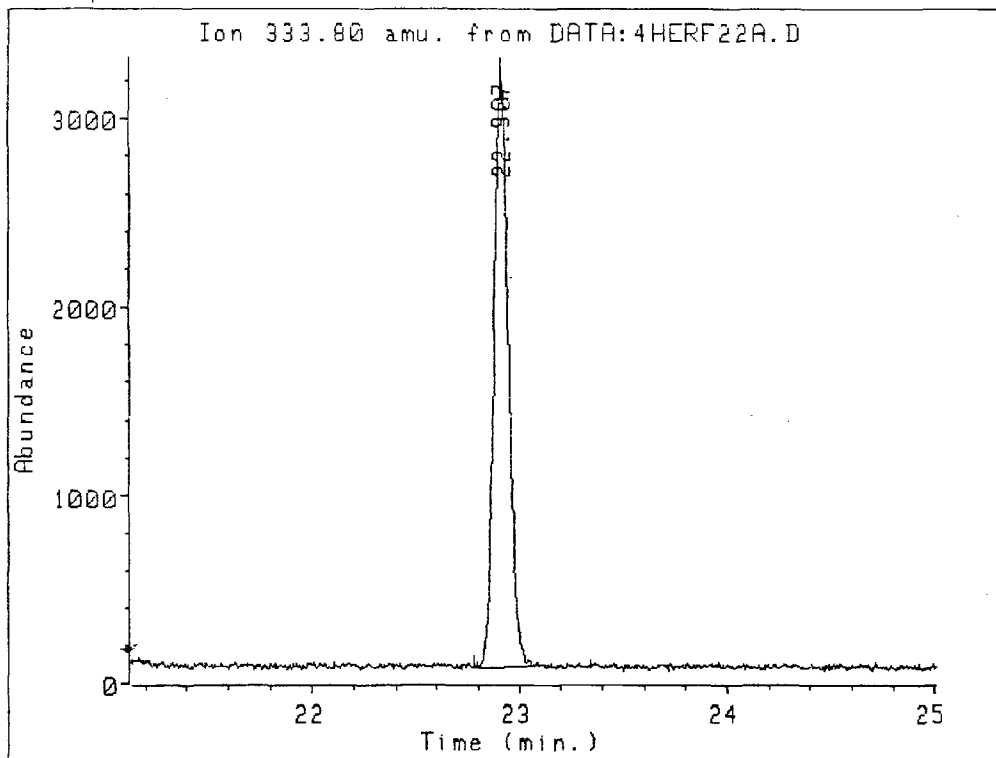
Ion 331.80 amu. from DATA:4HERF22A.D
2312

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.907	BU	0.068	125113	22.798	23.173

Name Info: 2312
Misc Info:
Operator : TMS

Date : 2 Aug 88 8:40 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 22
Replicate num : 1



Ion 333.80 amu. from DATA:4HERF22A.D

2312

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.907	PV	0.075	157471	22.774	23.067

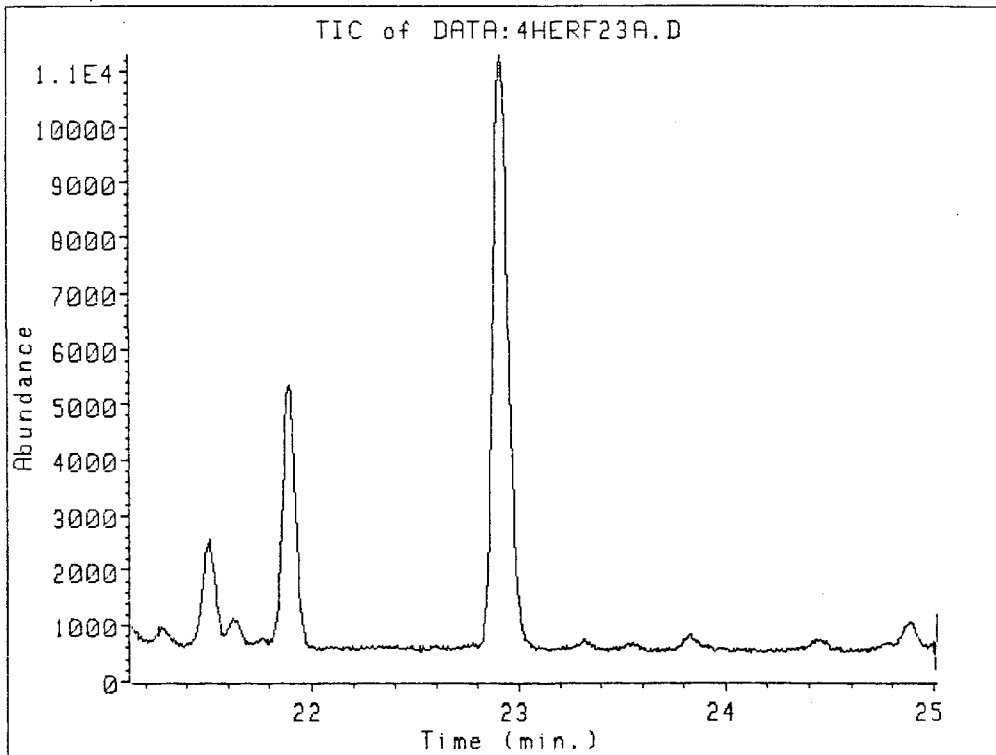
020774

Name Info: 2313
Misc Info:
Operator : TMS

3 1627

Date : 2 Aug 88 9:13 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 23
Replicate num : 1

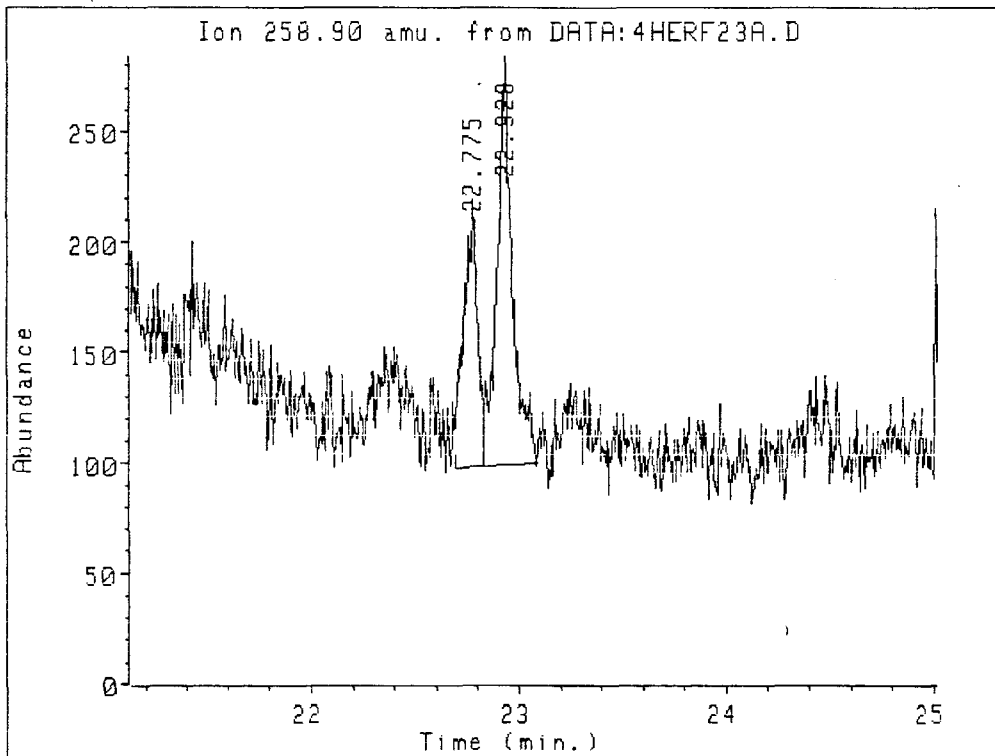


020775

Name Info: 2313
Misc Info:
Operator : TMS

Date : 2 Aug 88 9:13 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 23
Replicate num : 1



Ion 258.90 amu. from DATA:4HERF23A.D
2313

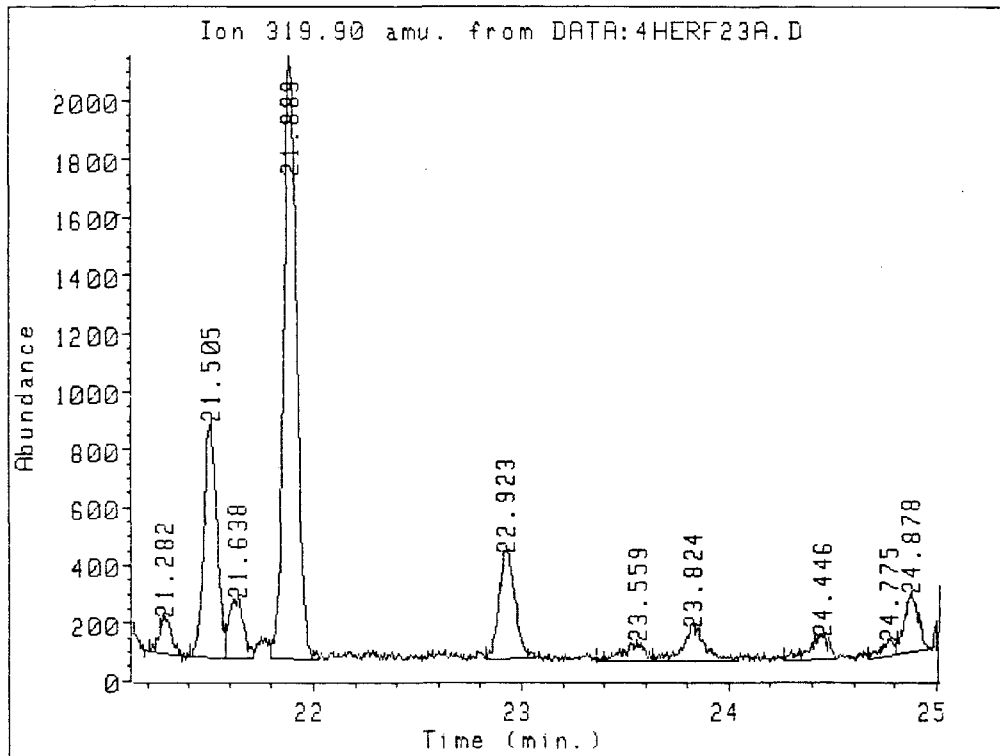
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.775	BU	0.059	5264	22.694	22.827
2	22.928	UU	0.071	9581	22.827	23.087

020776

Name Info: 2313
Misc Info:
Operator : TMS

Date : 2 Aug 88 9:13 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 23
Replicate num : 1



Ion 319.90 amu. from DATA:4HERF23A.D
2313

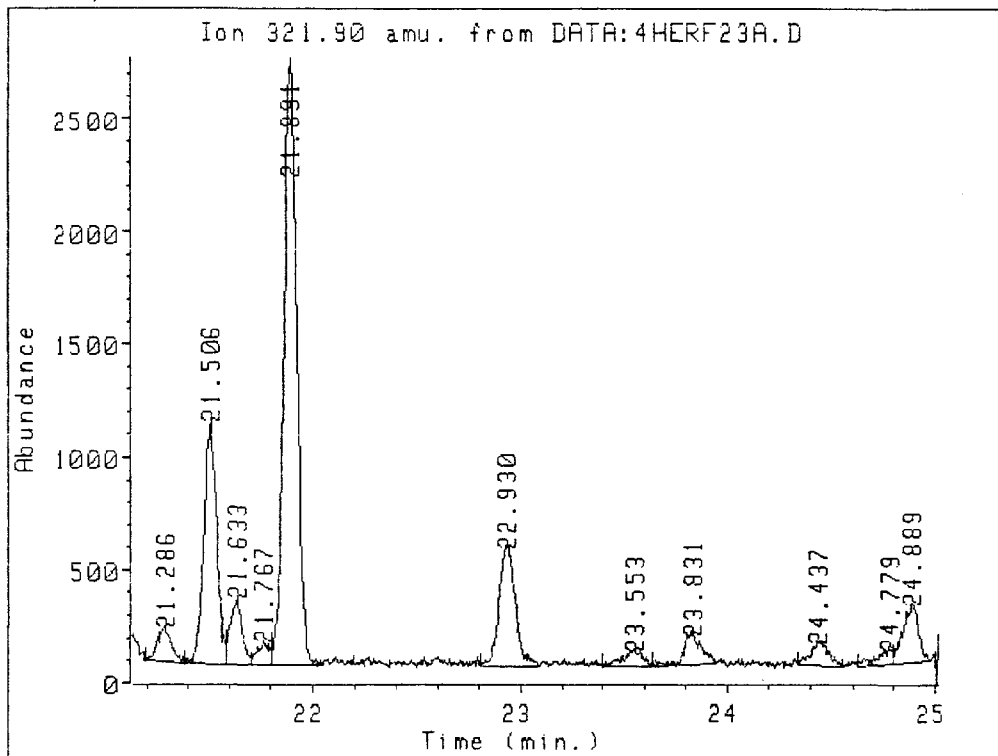
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.282	BV	0.064	5494	21.207	21.407
2	21.505	PV	0.065	35332	21.407	21.579
3	21.638	VU	0.061	10129	21.579	21.716
4	21.889	VU	0.068	91771	21.794	22.024
5	22.923	VU	0.077	20801	22.827	23.069
6	23.559	PV	0.102	4672	23.360	23.636
7	23.824	VU	0.095	9311	23.636	24.047
8	24.446	BV	0.083	5615	24.263	24.519
9	24.775	PV	0.050	2348	24.671	24.806
10	24.878	VU	0.067	9764	24.806	24.976

Name Info: 2313
Misc Info:
Operator : TMS

3 1630

Date : 2 Aug 88 9:13 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 23
Replicate num : 1



Ion 321.90 amu. from DATA:4HERF23A.D
2313

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.286	BU	0.062	7341	21.198	21.381
2	21.506	PV	0.069	46009	21.381	21.585
3	21.633	UU	0.056	11582	21.585	21.709
4	21.767	UU	0.051	3873	21.709	21.802
5	21.891	UU	0.067	116694	21.802	22.048
6	22.930	UU	0.078	29847	22.804	23.093
7	23.553	PV	0.083	4953	23.402	23.642
8	23.831	PV	0.078	8348	23.642	23.950
9	24.437	UU	0.084	6933	24.341	24.559
10	24.779	UU	0.070	3682	24.623	24.801
11	24.889	UU	0.073	13664	24.801	24.976

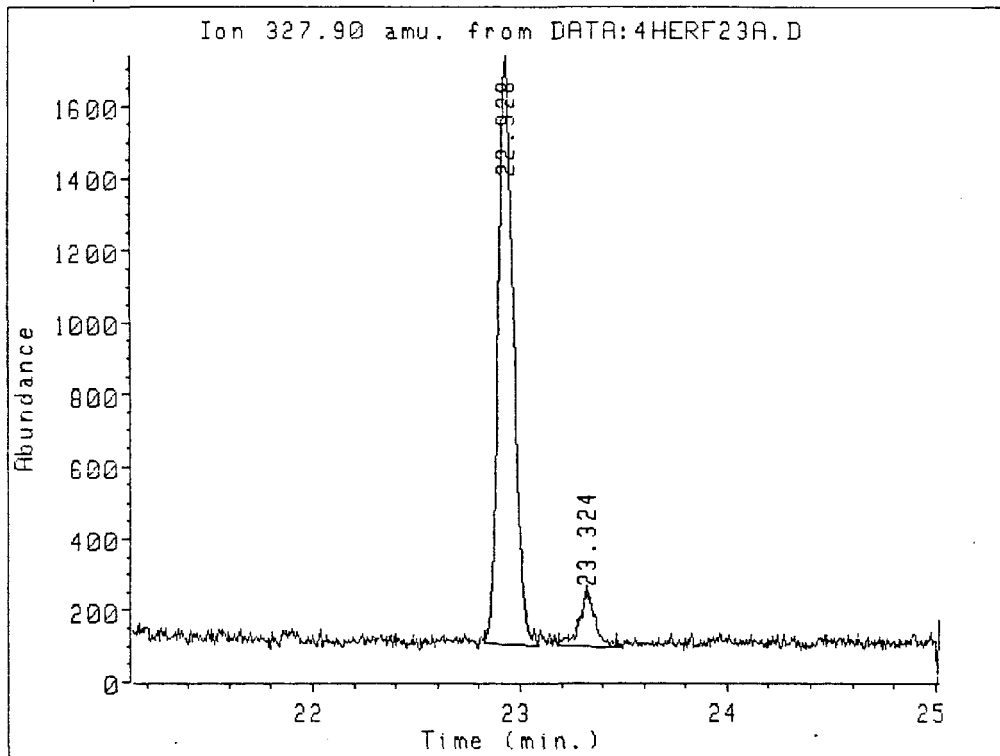
03220994

020770

Name Info: 2313
Misc Info:
Operator : TMS

Date : 2 Aug 88 9:13 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 23
Replicate num : 1



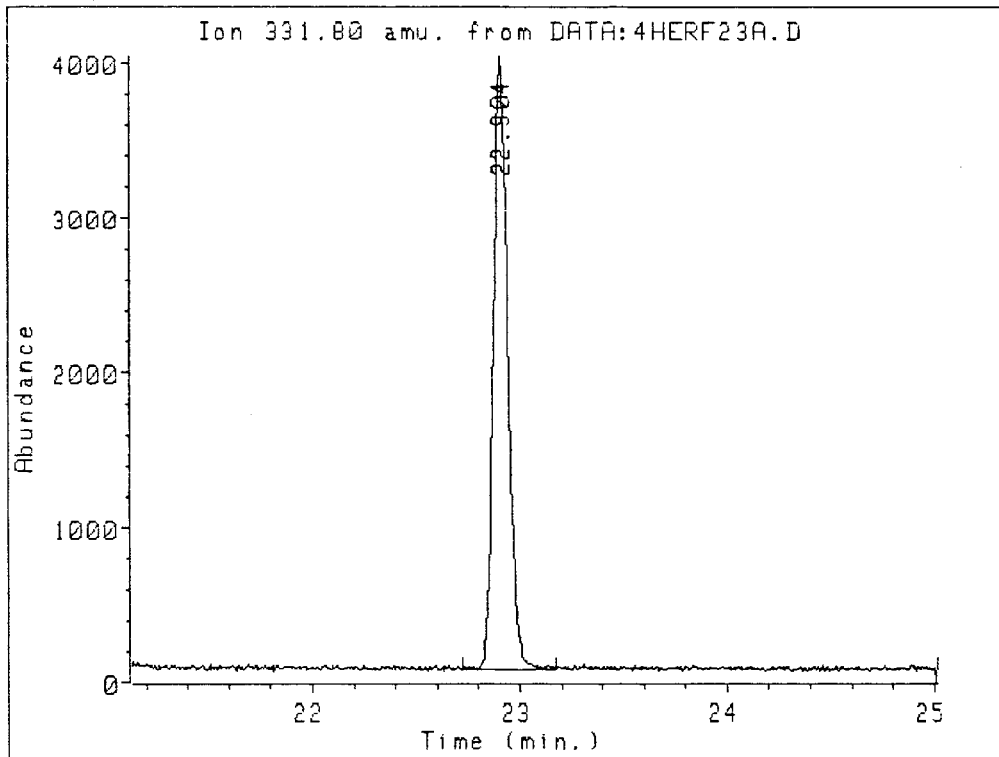
Ion 327.90 amu. from DATA:4HERF23A.D
2313

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.928	BU	0.079	84270	22.825	23.087
2	23.324	VU	0.072	8794	23.185	23.499

Name Info: 2313
Misc Info:
Operator : TMS

Date : 2 Aug 88 9:13 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 23
Replicate num : 1



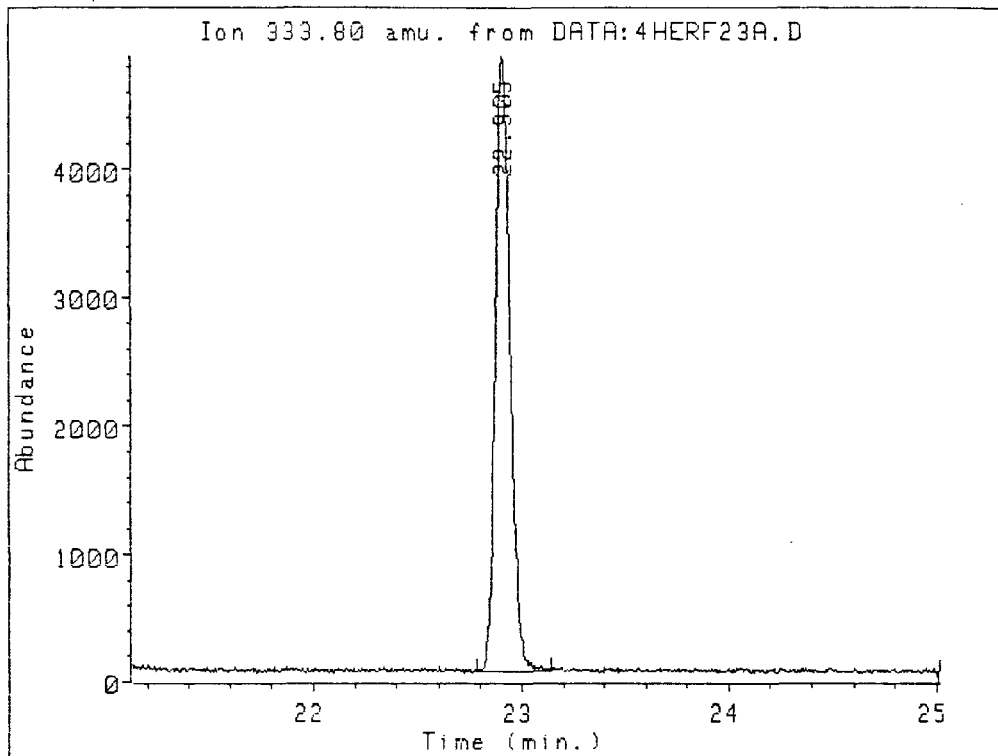
Ion 331.80 amu. from DATA:4HERF23A.D
2313

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.904	PV	0.079	194982	22.725	23.173

Name Info: 2313
Misc Info:
Operator : TMS

Date : 2 Aug 88 9:13 am
Instrment: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 23
Replicate num : 1



Ion 333.80 amu. from DATA:4HERF23A.D

2313

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.905	PV	0.077	241966	22.784	23.142

03220997

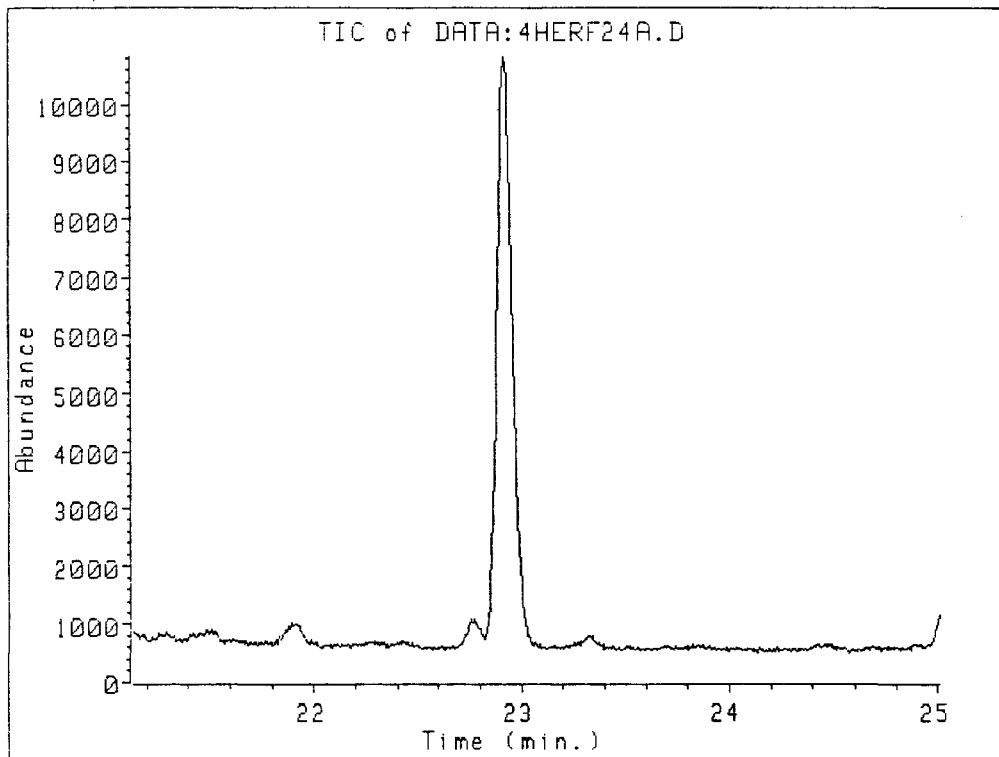
020734

Name Info: 2314
Misc Info:
Operator : TMS

3 1634

Date : 2 Aug 88 9:47 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 24
Replicate num : 1

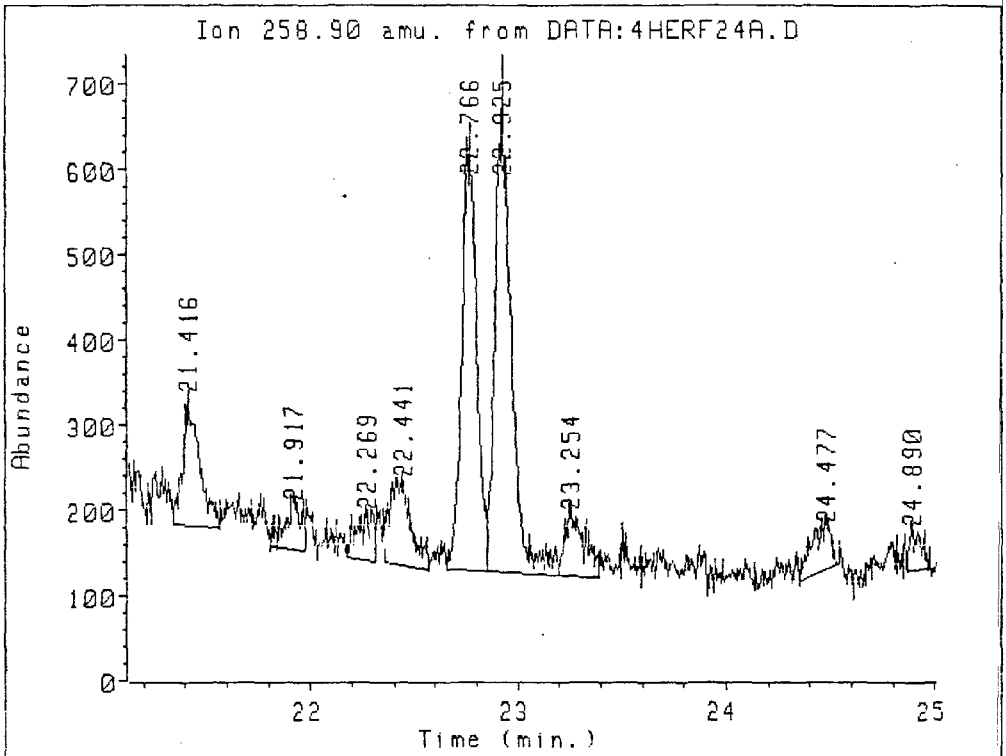


020752

Name Info: 2314
Misc Info:
Operator : TMS

Date : 2 Aug 88 9:47 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
ALS bottle num : 24
Replicate num : 1



Ion 258.90 amu. from DATA:4HERF24A.D
2314

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.416	UB	0.070	8084	21.344	21.567
2	21.917	PV	0.072	3183	21.811	21.972
3	22.269	VV	0.096	3064	22.177	22.311
4	22.441	VV	0.092	7033	22.358	22.563
5	22.766	VV	0.072	25266	22.654	22.853
6	22.925	VV	0.066	30682	22.853	23.197
7	23.254	UB	0.085	5151	23.197	23.395
8	24.477	PV	0.088	3919	24.351	24.532
9	24.890	PBA	0.061	2015	24.867	24.991

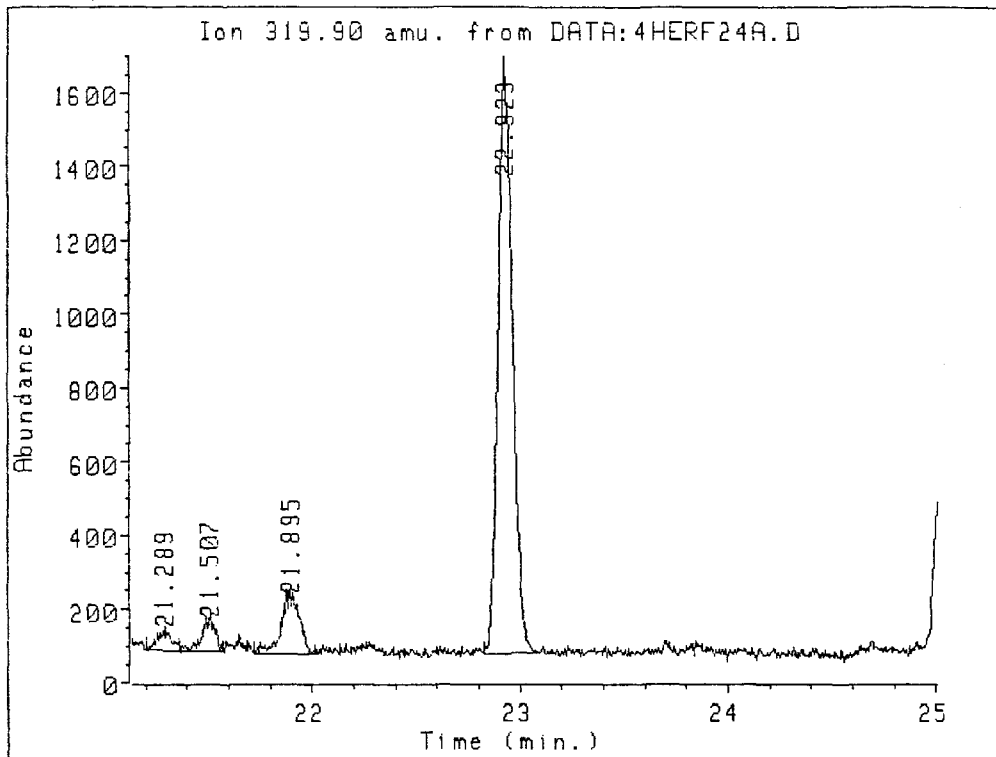
020755

Name Info: 2314
Misc Info:
Operator : TMS

3 1636

Date : 2 Aug 88 9:47 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 24
Replicate num : 1



Ion 319.90 amu. from DATA:4HERF24A.D
2314

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.289	BV	0.058	2804	21.201	21.363
2	21.507	PV	0.067	4367	21.363	21.579
3	21.895	BV	0.088	10339	21.722	22.027
4	22.923	UV	0.071	78372	22.819	23.081

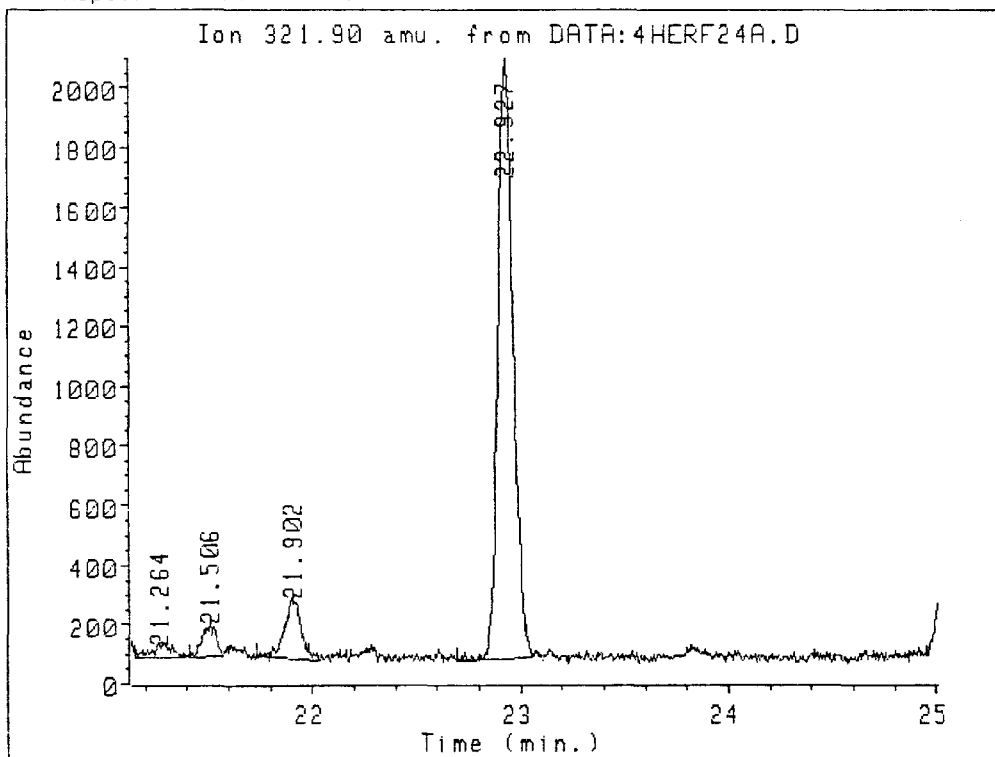
020734

Name Info: 2314
 Misc Info:
 Operator : TMS

3 1637

Date : 2 Aug 88 9:47 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 6
 Als bottle num : 24
 Replicate num : 1



Ion 321.90 amu. from DATA:4HERF24A.D
 2314

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.264	PH	0.091	3030	21.146	21.393
2	21.506	BV	0.058	4767	21.408	21.570
3	21.902	BV	0.073	11904	21.732	22.036
4	22.927	PV	0.075	102959	22.694	23.058

03221001

020709

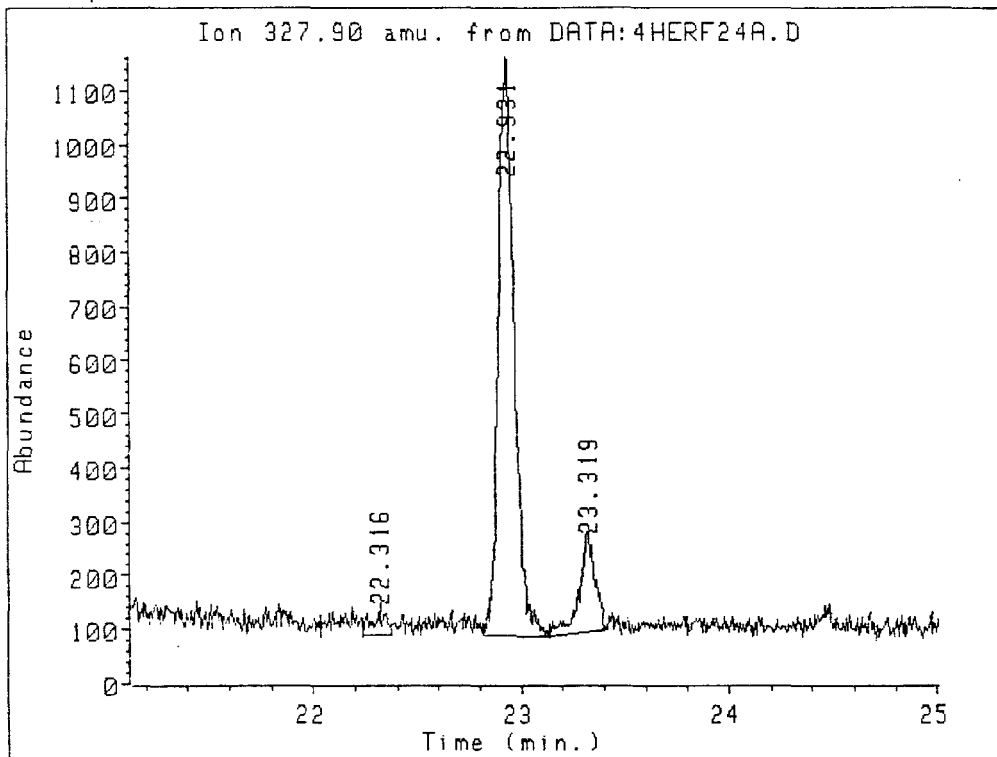
24
Data file: DATA:4HERF24A.D
File type: GC / MS DATA FILE

3 1638

Name Info: 2314
Misc Info:
Operator : TMS

Date : 2 Aug 88 9:47 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 24
Replicate num : 1



Ion 327.90 amu. from DATA:4HERF24A.D
2314

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.316	PV	0.057	2072	22.240	22.369
2	22.931	VV	0.077	57408	22.813	23.136
3	23.319	PV	0.071	9826	23.136	23.417

03221002

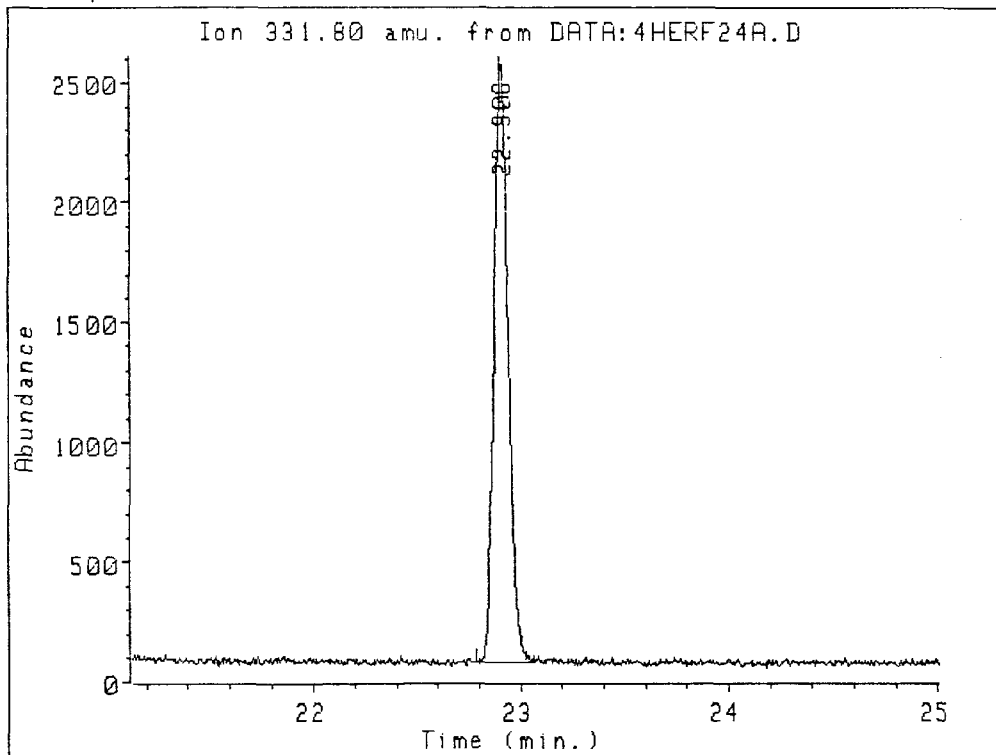
020786

Name Info: 2314
Misc Info:
Operator : TMS

3 1639

Date : 2 Aug 88 9:47 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 24
Replicate num : 1



Ion 331.80 amu. from DATA:4HERF24A.D
2314

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.906	BH	0.072	120279	22.783	23.070

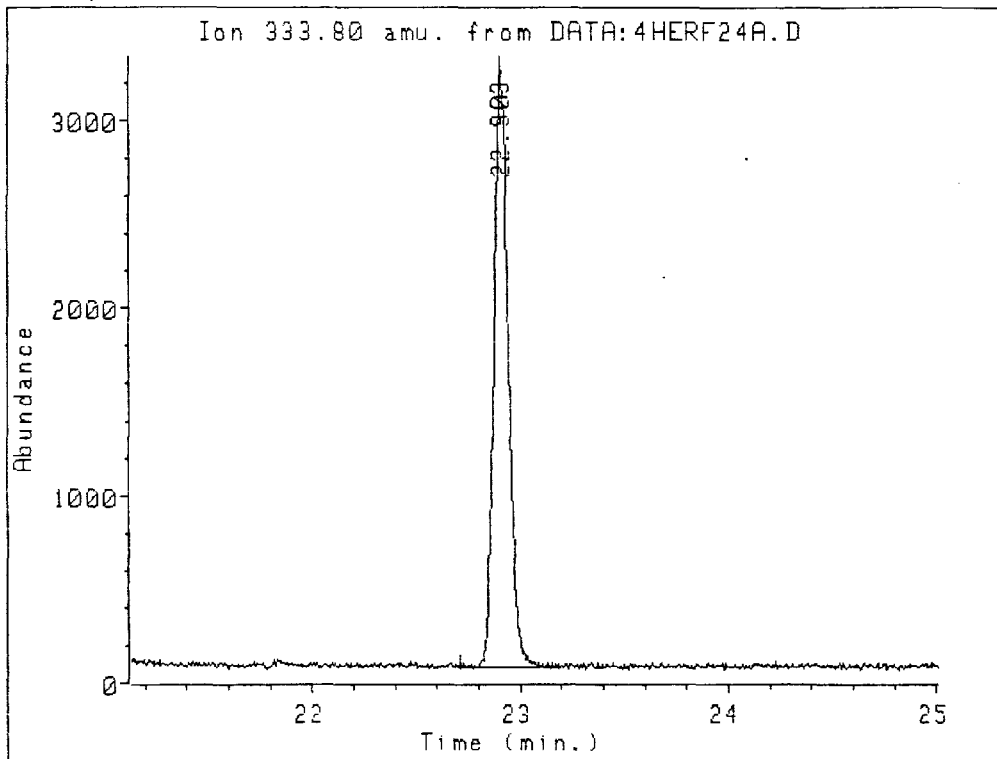
03221003

020757

Name Info: 2314
Misc Info:
Operator : TMS

Date : 2 Aug 88 9:47 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 24
Replicate num : 1



Ion 333.80 amu. from DATA:4HERF24A.D
2314

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.903	PV	0.073	156344	22.708	23.179

Name Info: 2316

Misc Info:

Operator : TMS

3 1641

Date : 2 Aug 88 10:20 am

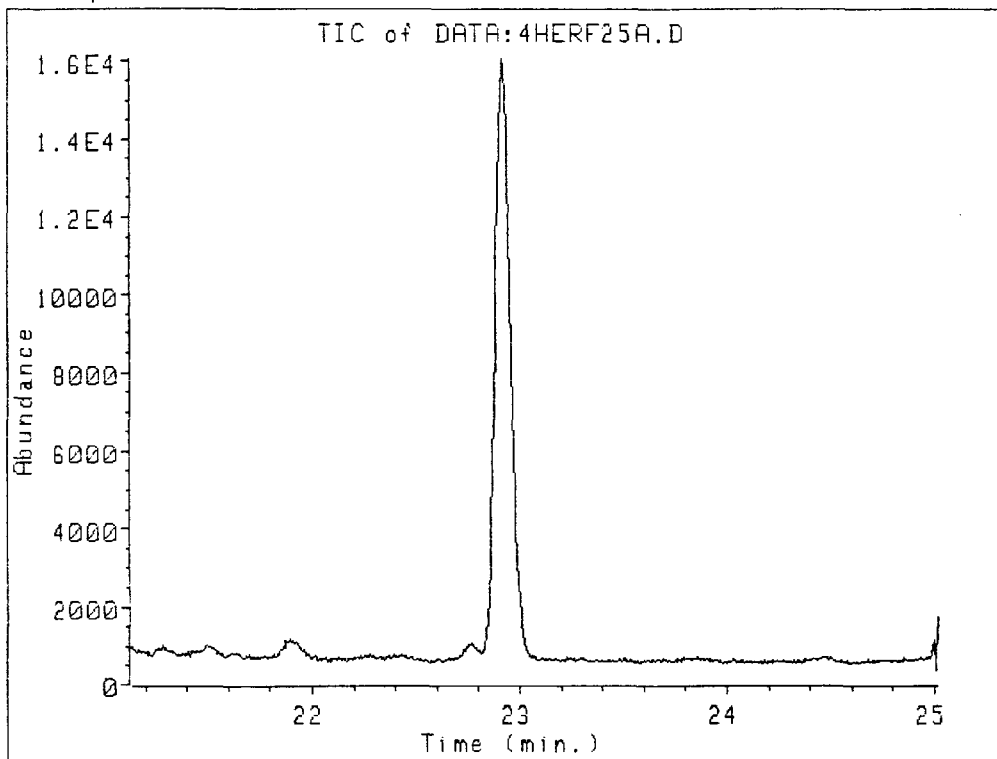
Instrument: MS_5970

Inlet : GC

Sequence index : 6

Als bottle num : 25

Replicate num : 1



020703

Name Info: 2316

Misc Info:

Operator : TMS

Date : 2 Aug 88 10:20 am

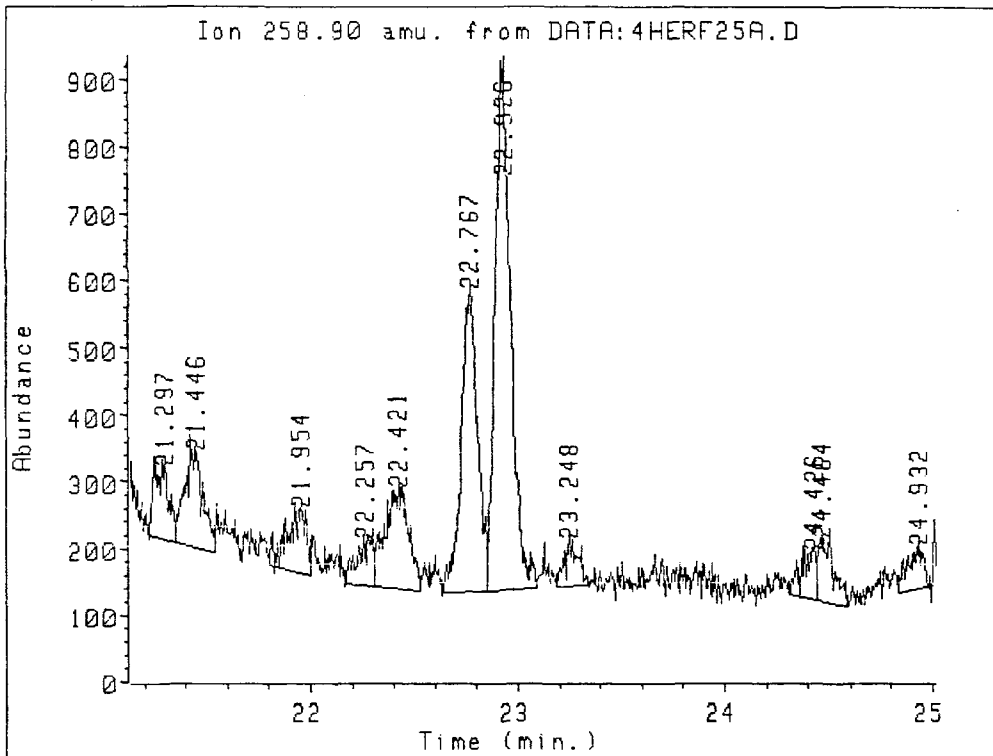
Instrument: MS_5970

Inlet : GC

Sequence index : 6

Als bottle num : 25

Replicate num : 1



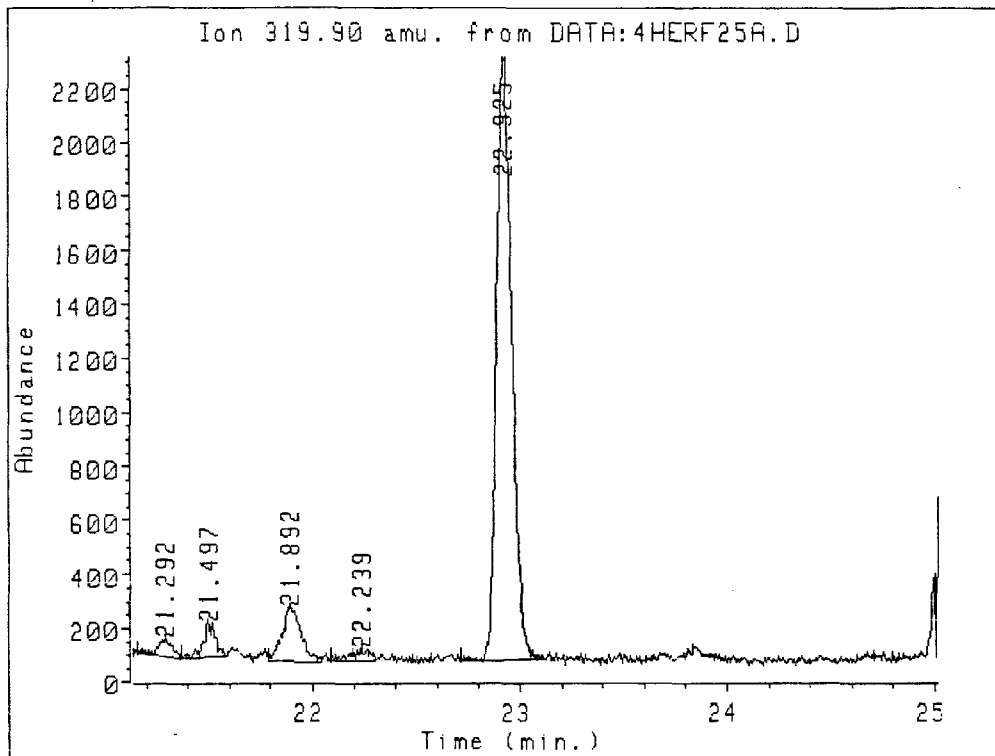
Ion 258.90 amu. from DATA:4HERF25A.D
2316

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.297	BV	0.065	5427	21.226	21.354
2	21.446	VV	0.077	8878	21.354	21.542
3	21.954	VV	0.087	6148	21.801	22.002
4	22.257	PV	0.061	3590	22.167	22.309
5	22.421	VV	0.101	11966	22.309	22.529
6	22.767	PV	0.072	24270	22.635	22.849
7	22.926	VV	0.072	41818	22.849	23.087
8	23.248	VB	0.058	3100	23.191	23.349
9	24.426	PV	0.082	3856	24.309	24.446
10	24.464	VV	0.069	4660	24.446	24.589
11	24.932	VBA	0.073	3422	24.833	24.999

Name Info: 2316
Misc Info:
Operator : TMS

Date : 2 Aug 88 10:20 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 25
Replicate num : 1



Ion 319.90 amu. from DATA:4HERF25A.D
2316

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.292	BV	0.056	3325	21.159	21.364
2	21.497	PV	0.062	5541	21.364	21.589
3	21.892	UV	0.080	12687	21.792	22.043
4	22.239	PV	0.086	2848	22.088	22.298
5	22.925	PV	0.082	117534	22.712	23.123

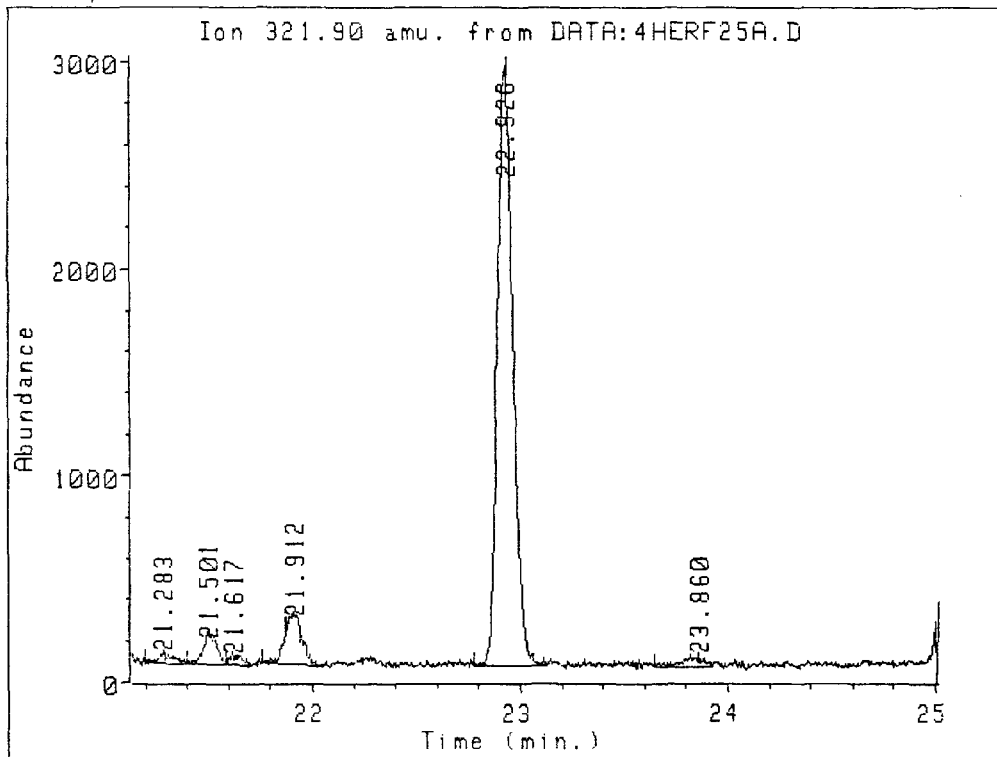
020703

Name Info: 2316
Misc Info:
Operator : TMS

3 1644

Date : 2 Aug 88 10:20 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 25
Replicate num : 1



Ion 321.90 amu. from DATA:4HERF25A.D
2316

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.283	BV	0.050	2428	21.198	21.399
2	21.501	PV	0.069	6997	21.399	21.587
3	21.617	VB	0.056	2057	21.587	21.704
4	21.912	BV	0.076	14217	21.756	22.042
5	22.926	PV	0.082	152641	22.778	23.121
6	23.860	BH	0.088	3508	23.648	23.925

Name Info: 2316

Misc Info:

Operator : TMS

3 1645

Date : 2 Aug 88 10:20 am

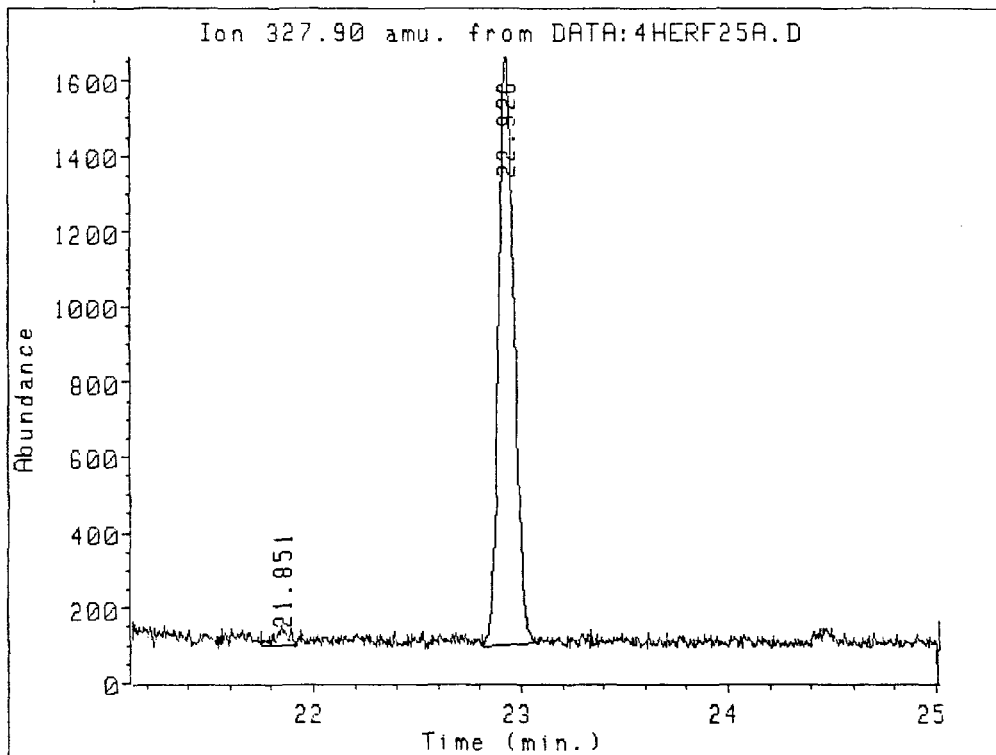
Instrument: MS_5970

Inlet : GC

Sequence index : 6

Als bottle num : 25

Replicate num : 1



Ion 327.90 amu. from DATA:4HERF25A.D
2316

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.851	UU	0.053	2039	21.749	21.914
2	22.926	PV	0.078	82522	22.810	23.079

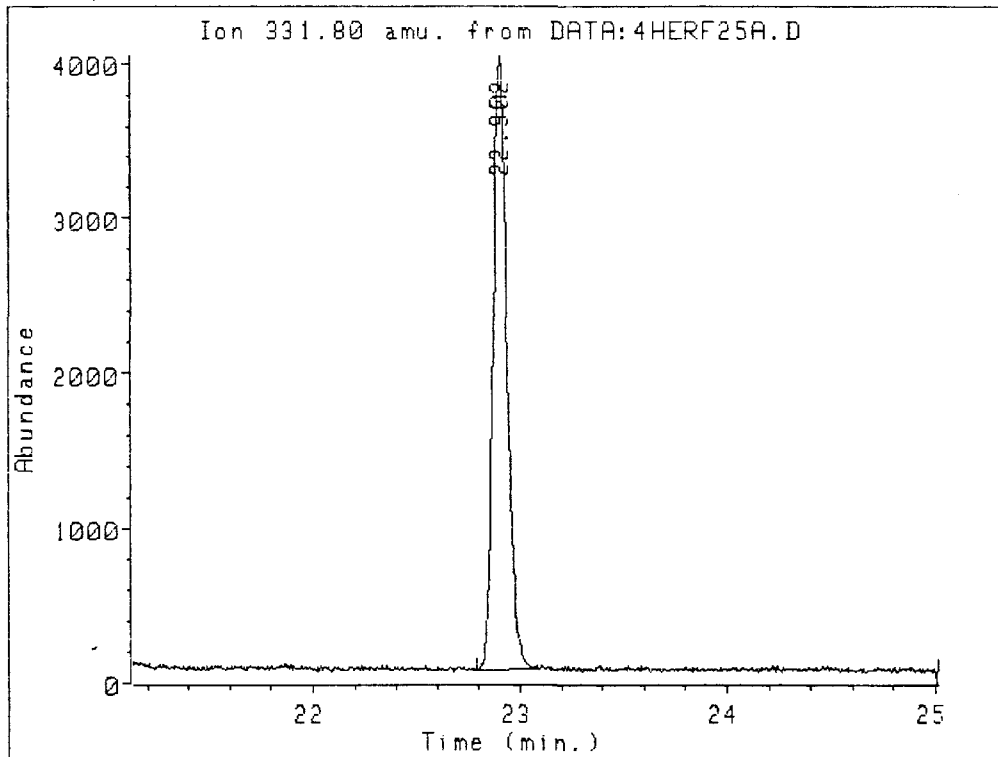
03221009

Name Info: 2316
Misc Info:
Operator : TMS

3 1646

Date : 2 Aug 88 10:20 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 25
Replicate num : 1



Ion 331.80 amu. from DATA:4HERF25A.D
2316

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.902	BV	0.071	189149	22.789	23.093

020704

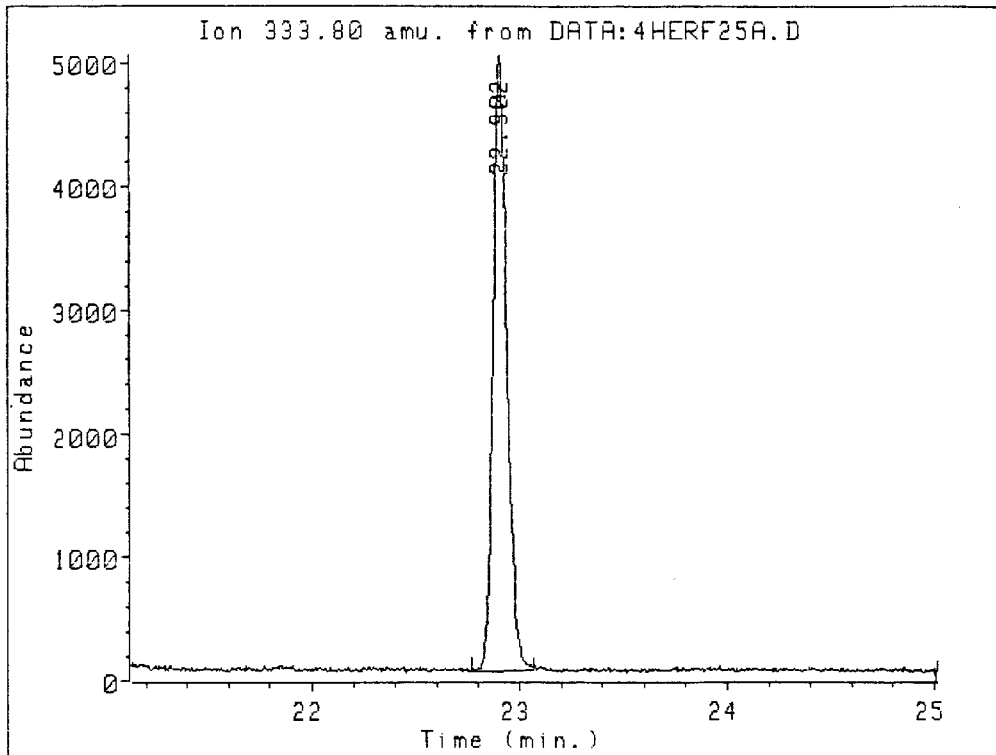
03221010

Name Info: 2316
Misc Info:
Operator : TMS

3 1647

Date : 2 Aug 88 10:20 am
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 25
Replicate num : 1



Ion 333.80 amu. from DATA:4HERF25A.D
2316

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.902	BV	0.077	236416	22.764	23.068

020709

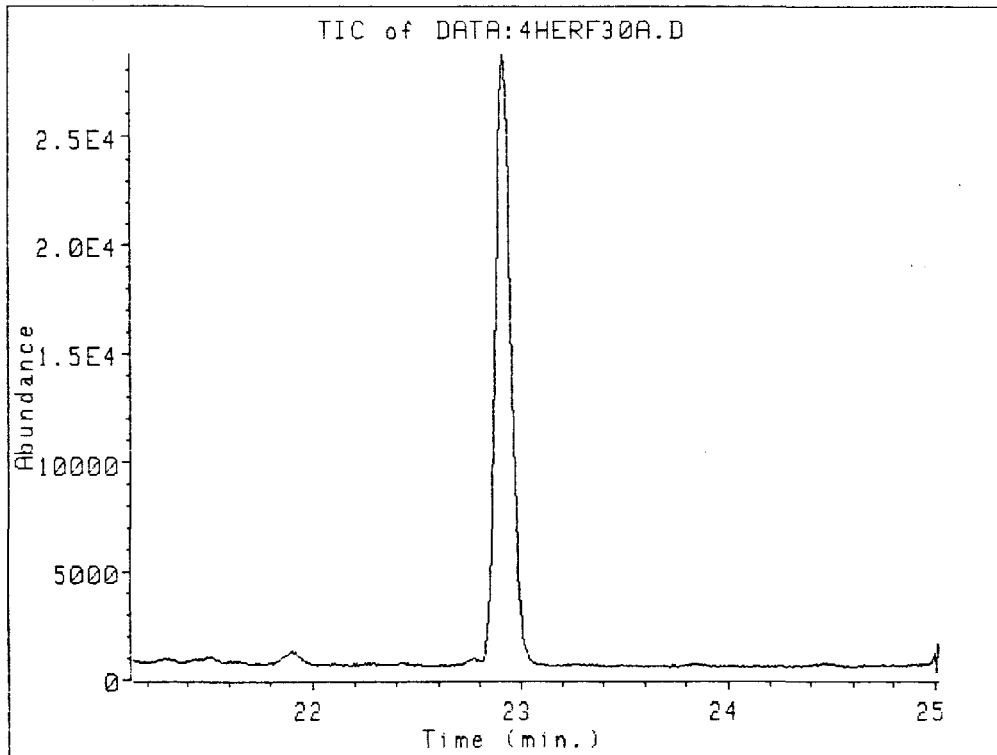
Data file: DATA:4HERF30A.D
File type: GC / MS DATA FILE

Name Info: 2317
Misc Info:
Operator : TMS

3 1648

Date : 2 Aug 88 1:08 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 30
Replicate num : 1



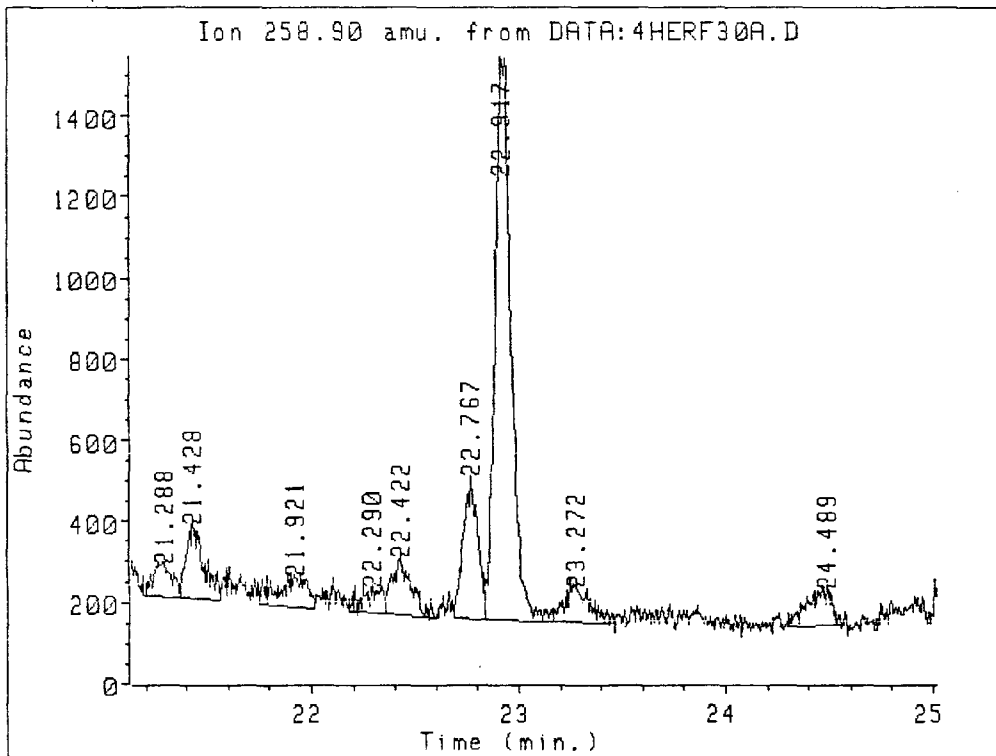
020796

03221012

Name Info: 2317
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:08 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 30
Replicate num : 1



Ion 258.90 amu. from DATA:4HERF30A.D
2317

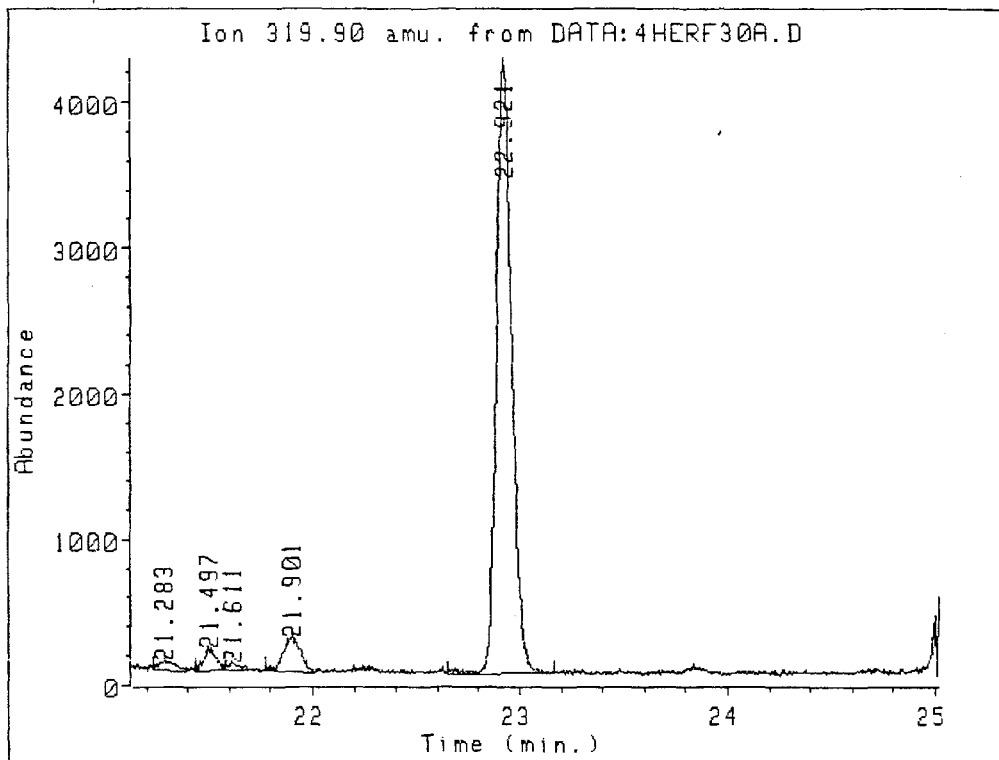
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.288	BV	0.081	5274	21.201	21.366
2	21.428	VV	0.075	10802	21.366	21.567
3	21.921	VV	0.131	7165	21.752	22.018
4	22.290	VV	0.096	3957	22.181	22.351
5	22.422	VV	0.081	9239	22.351	22.606
6	22.767	VV	0.060	16507	22.685	22.831
7	22.917	VV	0.080	77326	22.831	23.167
8	23.272	VB	0.100	7409	23.167	23.440
9	24.489	PV	0.102	7266	24.302	24.564

020797

Name Info: 2317
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:08 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 30
Replicate num : 1



020720

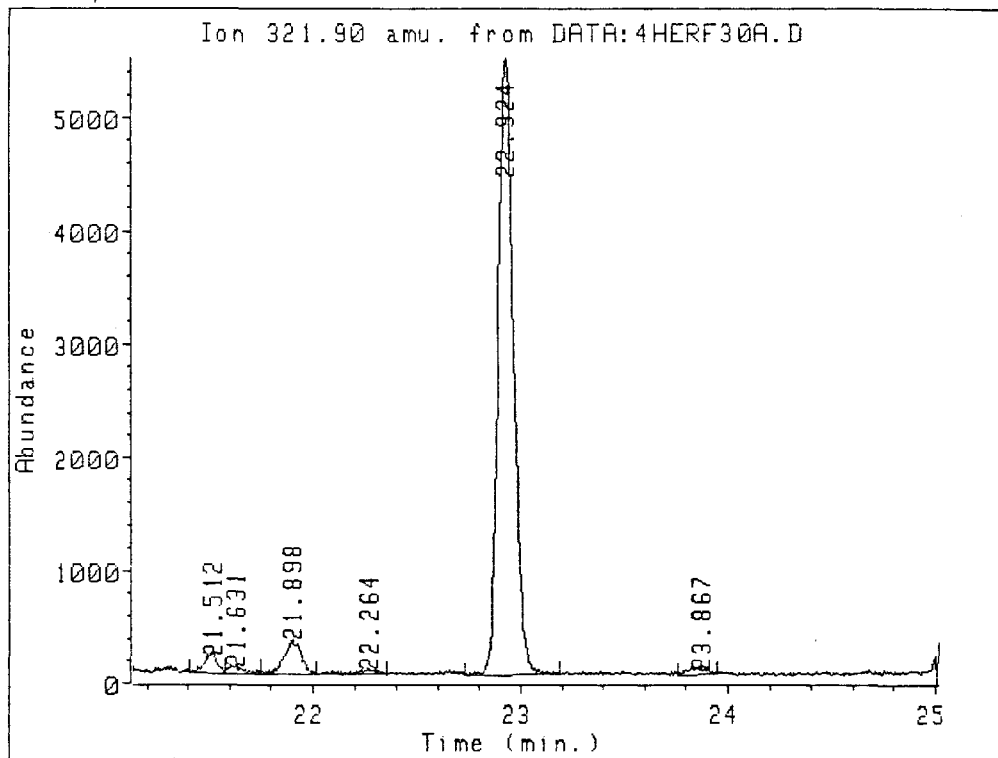
Ion 319.90 amu. from DATA:4HERF30A.D
2317

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.283	BV	0.076	4143	21.229	21.393
2	21.497	PV	0.062	6345	21.432	21.579
3	21.611	VB	0.051	2014	21.579	21.692
4	21.901	BV	0.076	13603	21.771	22.009
5	22.921	PV	0.083	219649	22.645	23.163

Name Info: 2317
 Misc Info:
 Operator : TMS

Date : 2 Aug 88 1:08 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 6
 Als bottle num : 30
 Replicate num : 1



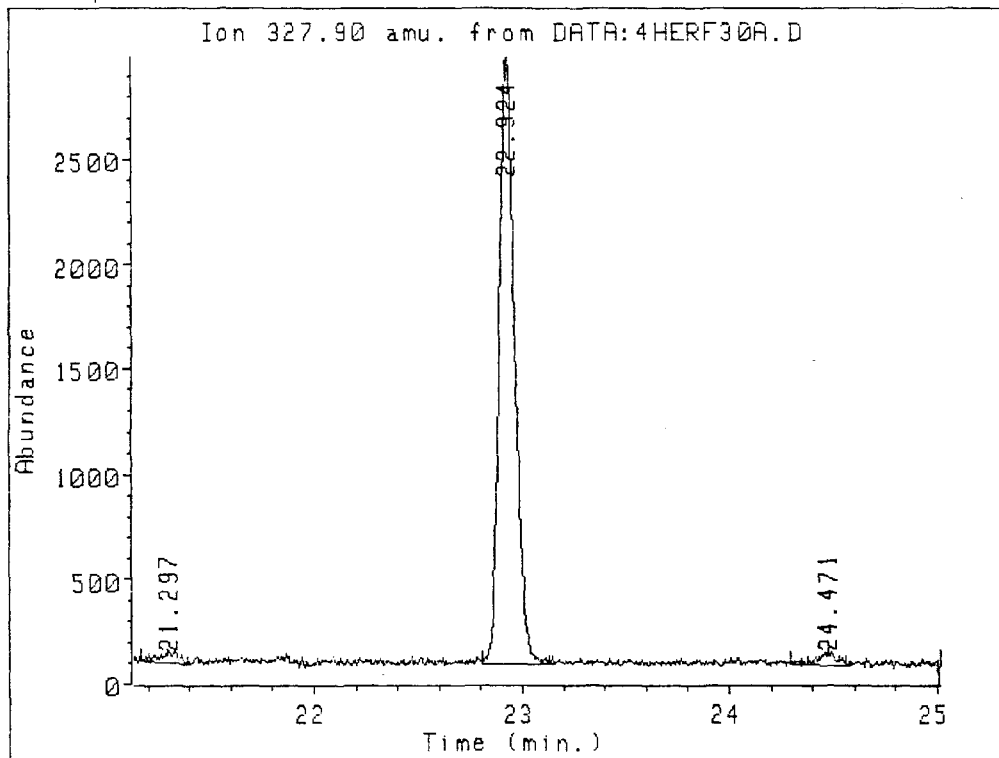
Ion 321.90 amu. from DATA:4HERF30A.D
 2317

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.512	UU	0.063	8062	21.409	21.576
2	21.631	UU	0.061	3450	21.576	21.753
3	21.898	UU	0.078	17350	21.753	22.015
4	22.264	UU	0.091	4139	22.015	22.350
5	22.924	PU	0.082	287752	22.731	23.190
6	23.867	BB	0.084	3933	23.763	23.949

Name Info: 2317
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:08 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 30
Replicate num : 1



Ion 327.90 amu. from DATA:4HERF30A.D
2317

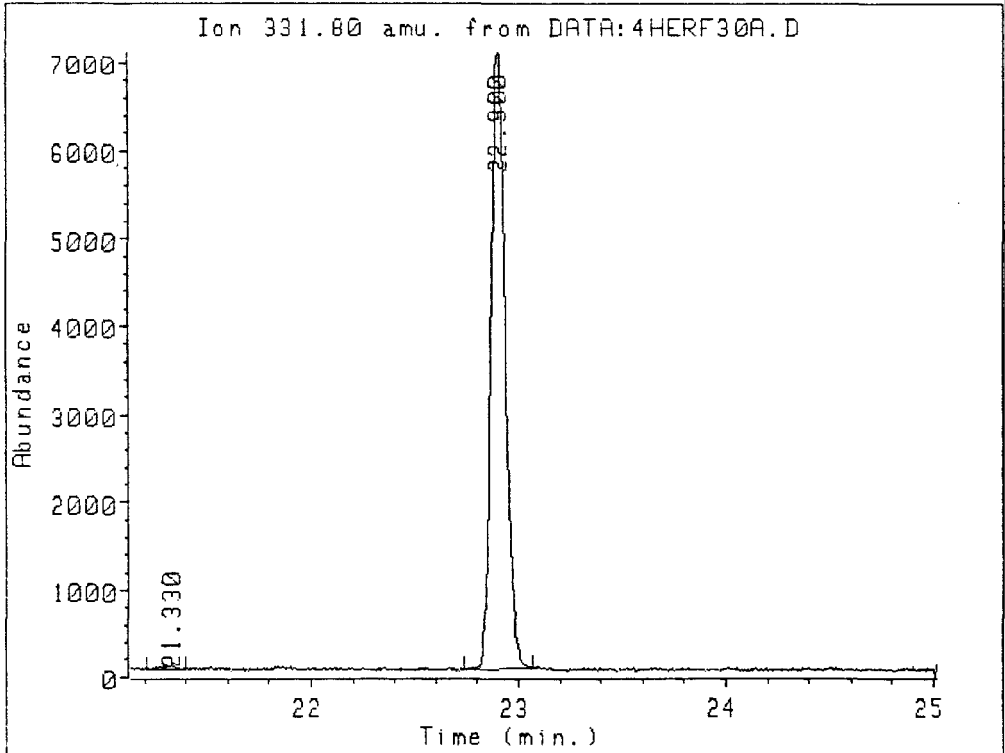
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.297	BV	0.091	3909	21.168	21.405
2	22.924	VV	0.082	152631	22.802	23.154
3	24.471	BV	0.076	4432	24.290	24.583

Name Info: 2317
Misc Info:
Operator : TMS

3 1653

Date : 2 Aug 88 1:08 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 30
Replicate num : 1



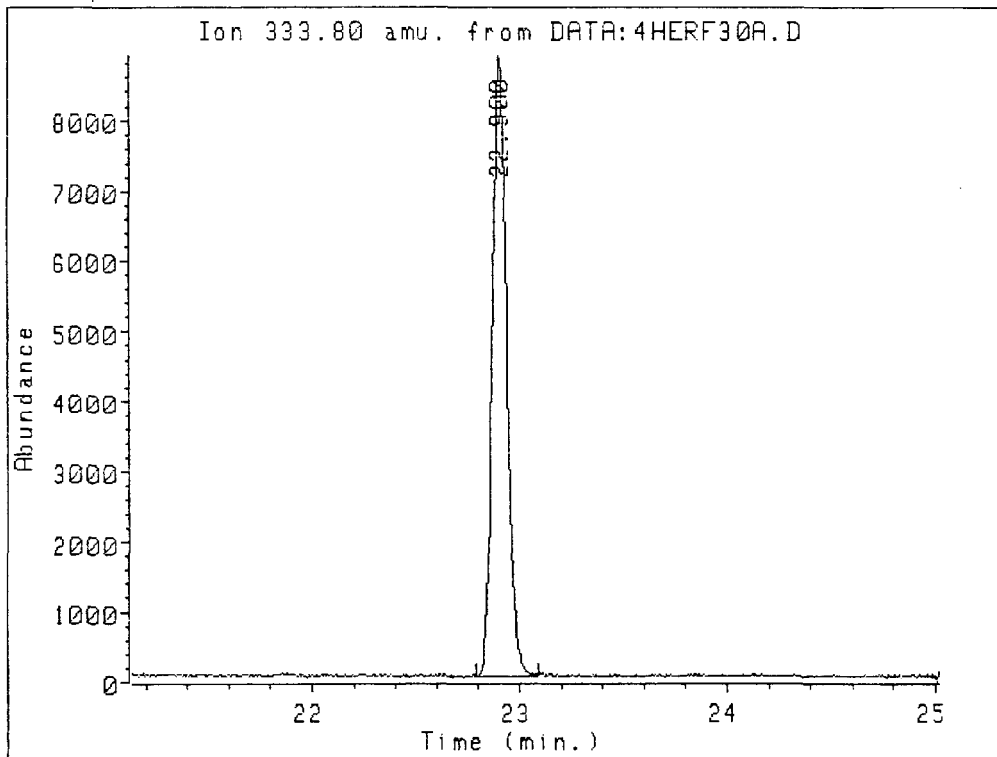
Ion 331.80 amu. from DATA:4HERF30A.D
2317

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.330	BB	0.065	2745	21.211	21.399
2	22.900	BV	0.074	342208	22.740	23.066

Name Info: 2317
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:08 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 30
Replicate num : 1



Ion 333.80 amu. from DATA:4HERF30A.D
2317

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.900	BU	0.078	429255	22.788	23.087

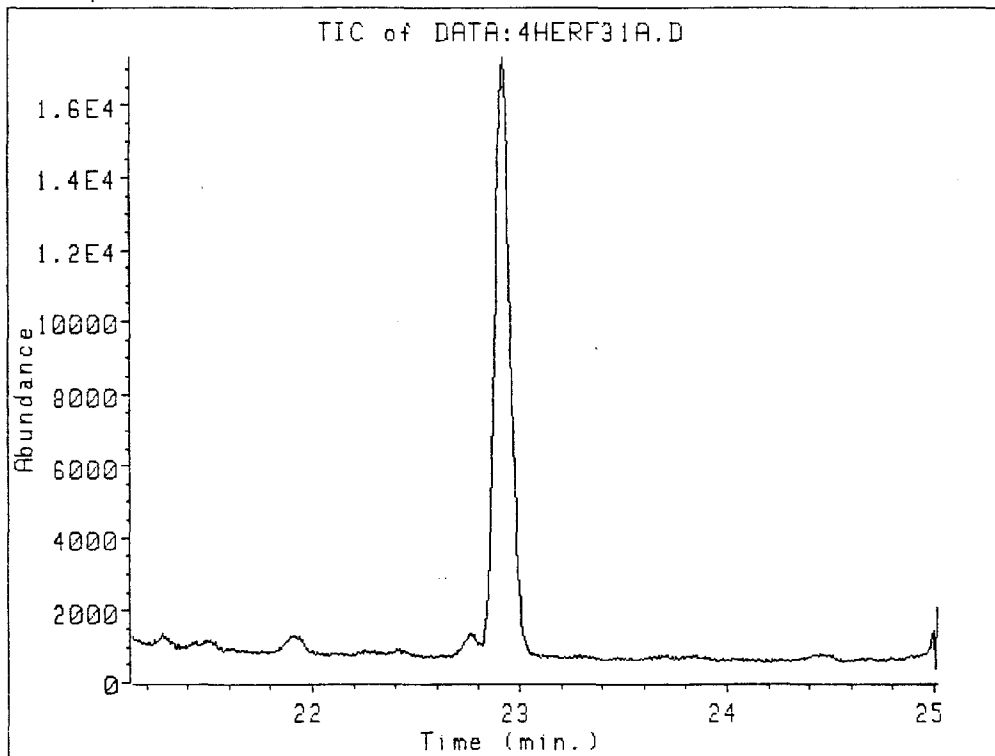
9
Data file: DATA:4HERF31A.D
File type: GC / MS DATA FILE

3 1655

Name Info: 2318
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:42 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
ALS bottle num : 31
Replicate num : 1

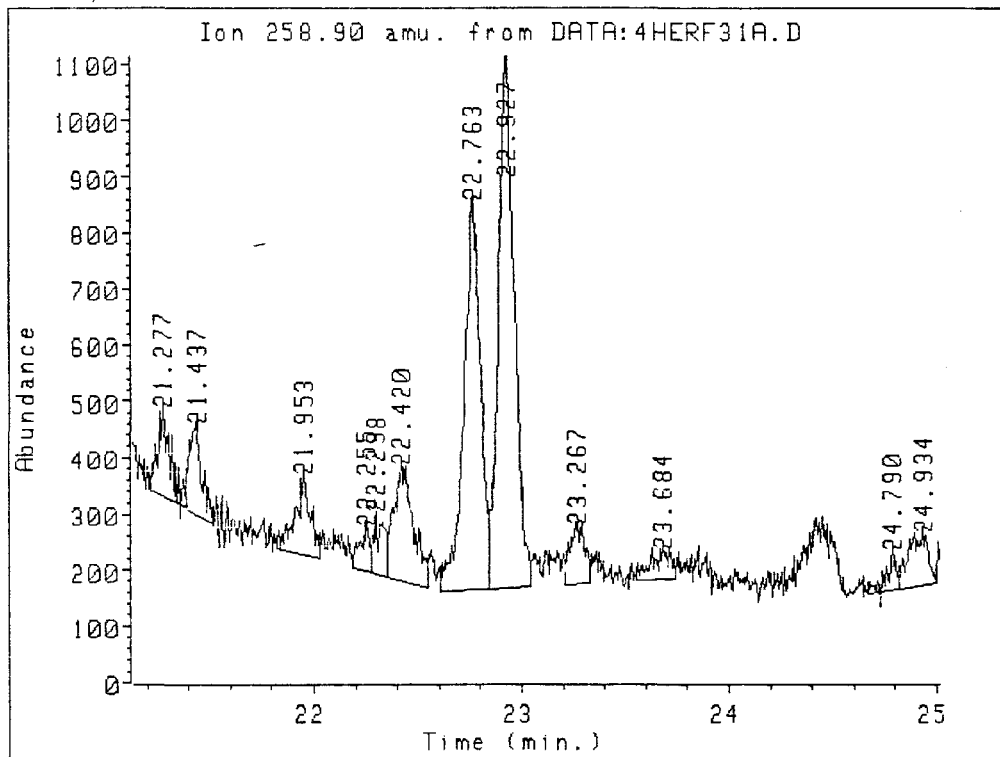


03221019

Name Info: 2318
 Misc Info:
 Operator : TMS

Date : 2 Aug 88 1:42 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 6
 Als bottle num : 31
 Replicate num : 1



Ion 258.90 amu. from DATA:4HERF31A.D
 2318

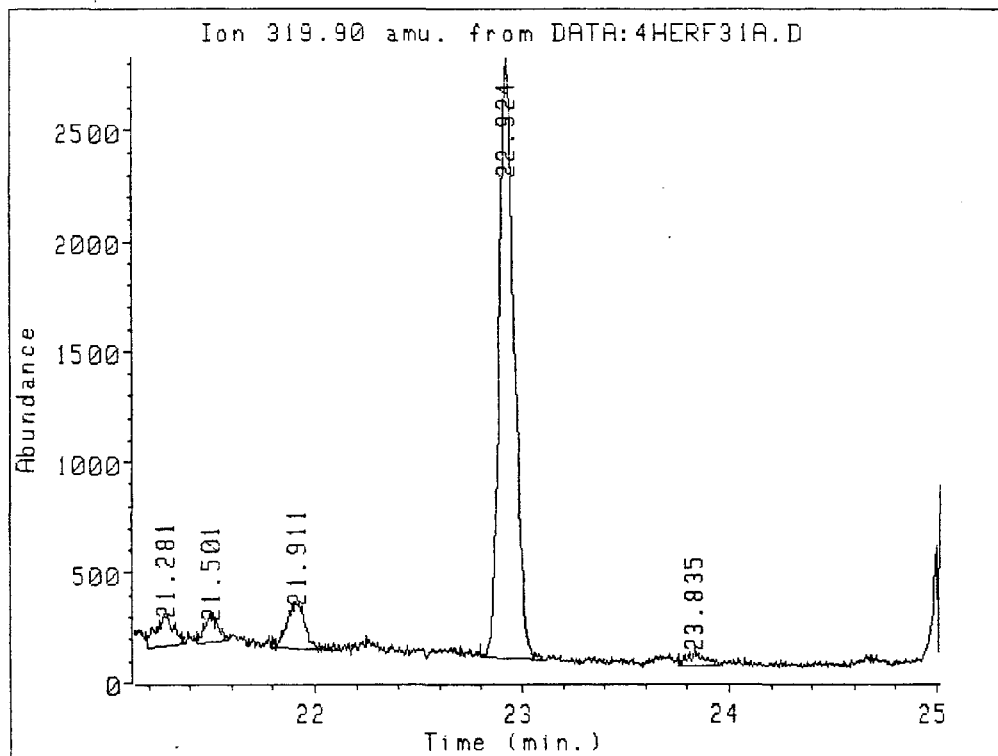
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.277	BU	0.059	6504	21.217	21.387
2	21.437	UU	0.053	6467	21.387	21.515
3	21.953	BU	0.072	7135	21.826	22.027
4	22.255	UU	0.047	2926	22.184	22.278
5	22.298	UU	0.053	3619	22.278	22.356
6	22.420	UU	0.092	13502	22.356	22.548
7	22.763	PV	0.075	38320	22.611	22.843
8	22.927	UU	0.071	51512	22.843	23.047
9	23.267	UU	0.072	5336	23.209	23.331
10	23.684	UU	0.080	3573	23.553	23.745
11	24.790	PV	0.042	2206	24.668	24.823
12	24.934	UBA	0.091	5917	24.823	25.002

Name Info: 2318
Misc Info:
Operator : TMS

3 1657

Date : 2 Aug 88 1:42 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 31
Replicate num : 1



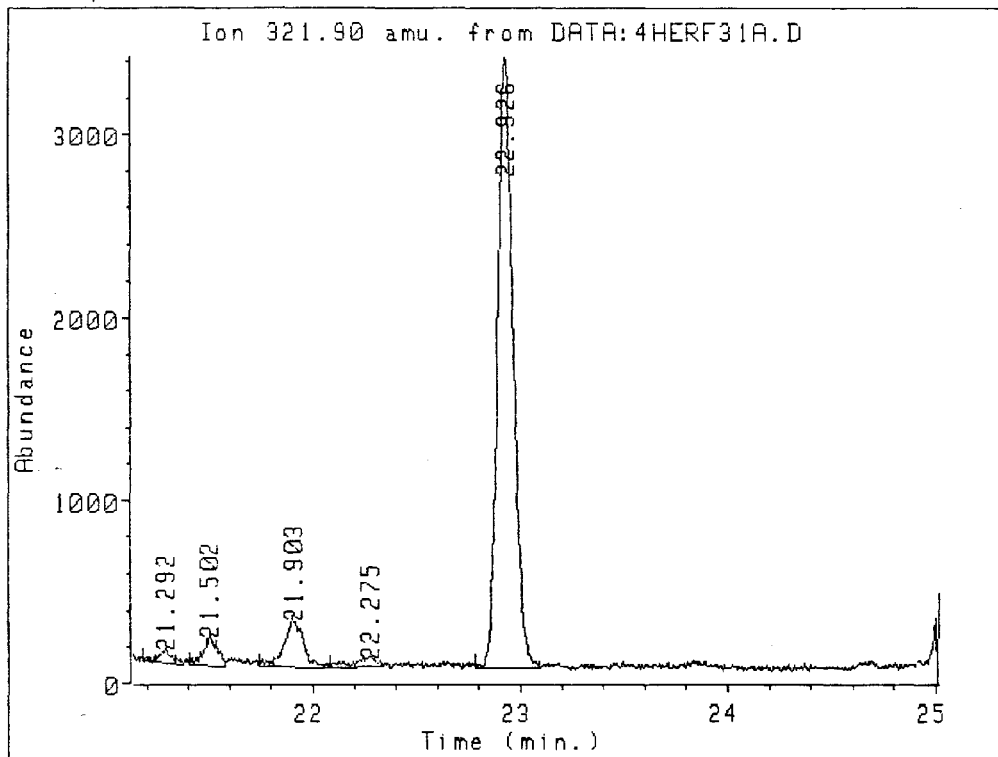
Ion 319.90 amu. from DATA:4HERF31A.D
2318

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.281	UU	0.084	8747	21.196	21.381
2	21.501	UU	0.072	5350	21.436	21.585
3	21.911	PV	0.085	14053	21.798	22.127
4	22.924	UU	0.079	139560	22.799	23.117
5	23.835	UU	0.087	3811	23.760	23.952

Name Info: 2318
 Misc Info:
 Operator : TMS

Date : 2 Aug 88 1:42 pm
 Instrmt: MS_5970
 Inlet : GC

Sequence index : 6
 Als bottle num : 31
 Replicate num : 1



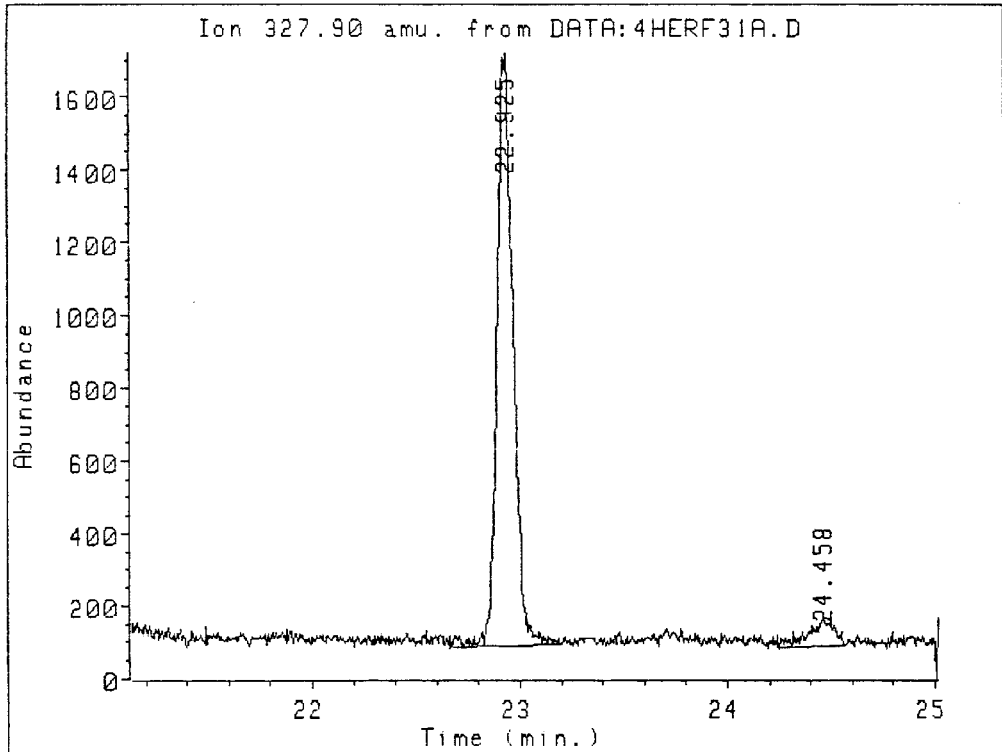
Ion 321.90 amu. from DATA:4HERF31A.D
 2318

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.292	BU	0.057	3096	21.183	21.375
2	21.502	PV	0.065	7759	21.405	21.582
3	21.903	UU	0.086	17218	21.743	22.082
4	22.275	PV	0.106	3891	22.082	22.334
5	22.926	PV	0.083	177401	22.782	23.093

Name Info: 2318
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:42 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 31
Replicate num : 1



Ion 327.90 amu. from DATA:4HERF31A.D
2318

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.925	PU	0.082	90291	22.663	23.197
2	24.458	PU	0.114	6519	24.244	24.561

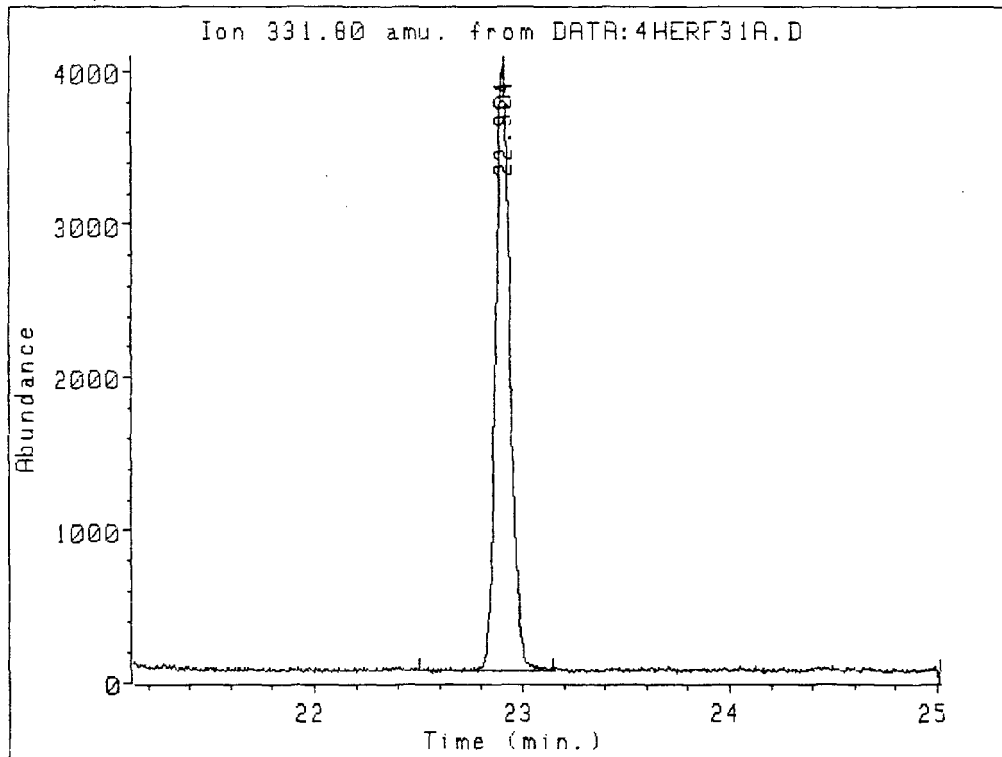
020007

Name Info: 2318
Misc Info:
Operator : TMS

3 1660

Date : 2 Aug 88 1:42 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 31
Replicate num : 1



Ion 331.80 amu. from DATA:4HERF31A.D
2318

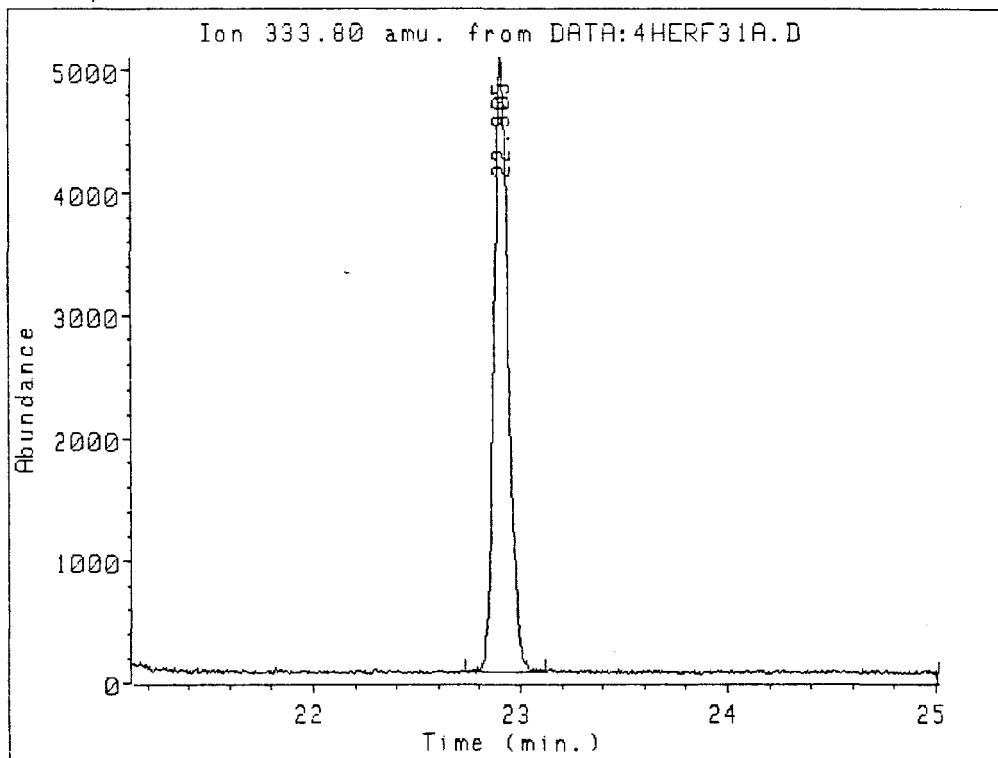
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.904	BU	0.076	197825	22.502	23.151

03221024

Name Info: 2318
Misc Info:
Operator : TMS

Date : 2 Aug 88 1:42 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 31
Replicate num : 1



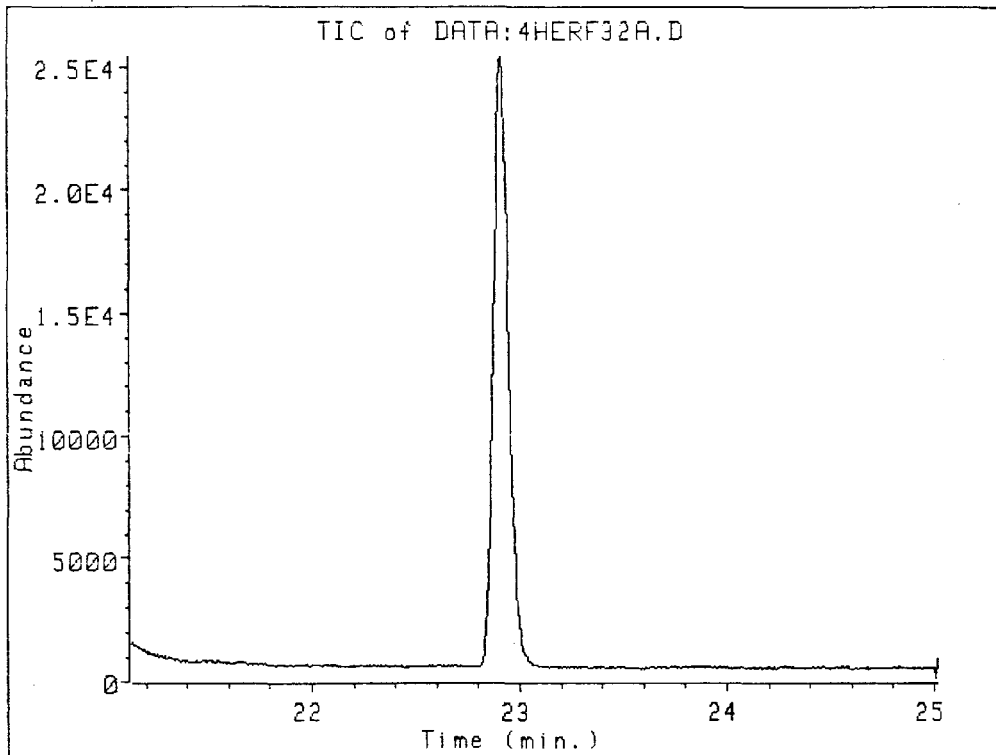
Ion 333.80 amu. from DATA:4HERF31A.D
2318

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.905	BU	0.071	246168	22.728	23.120

Name Info: 2319
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 32
Replicate num : 1

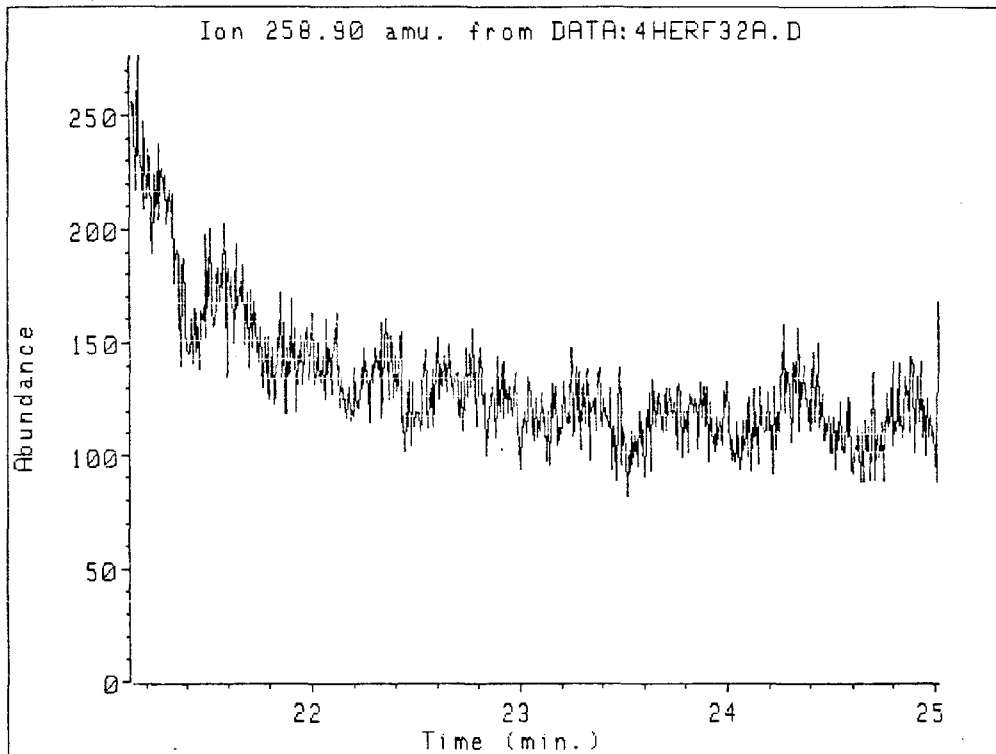


020110

Name Info: 2319
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 32
Replicate num : 1



Ion 258.90 amu. from DATA:4HERF32A.D
2319

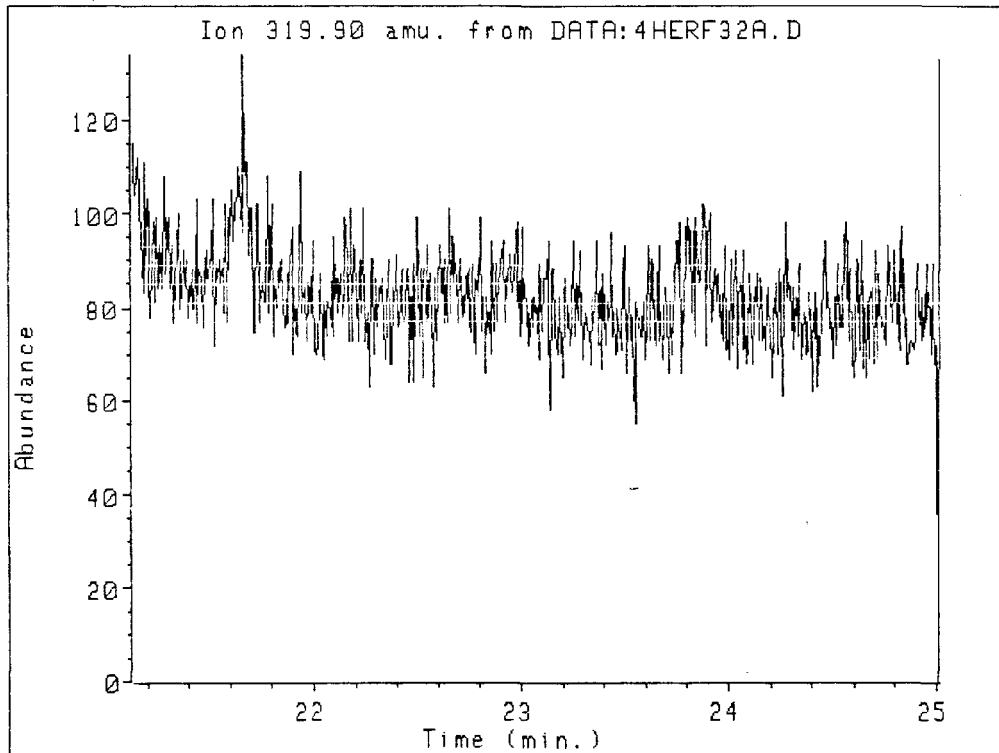
No peaks detected

020977

Name Info: 2319
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:15 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 32
Replicate num : 1



Ion 319.90 amu. from DATA:4HERF32A.D
2319

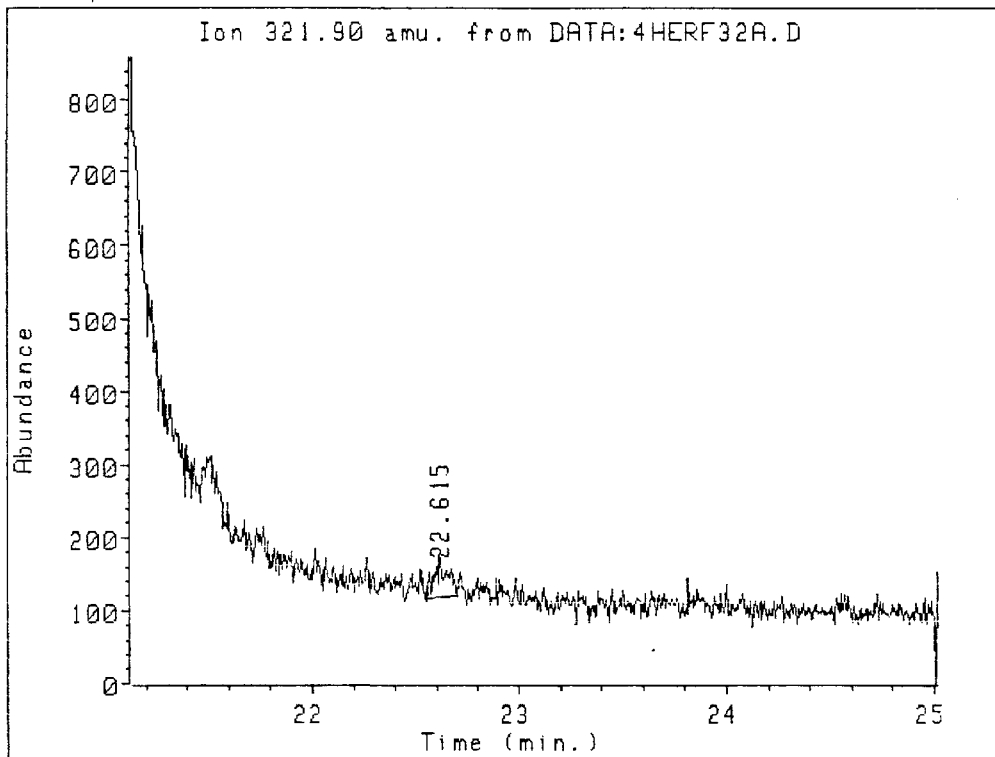
No peaks detected

Name Info: 2319
Misc Info:
Operator : TMS

3 1665

Date : 2 Aug 88 2:15 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 32
Replicate num : 1



Ion 321.90 amu. from DATA:4HERF32A.D
2319

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.615	PV	0.057	2193	22.551	22.697

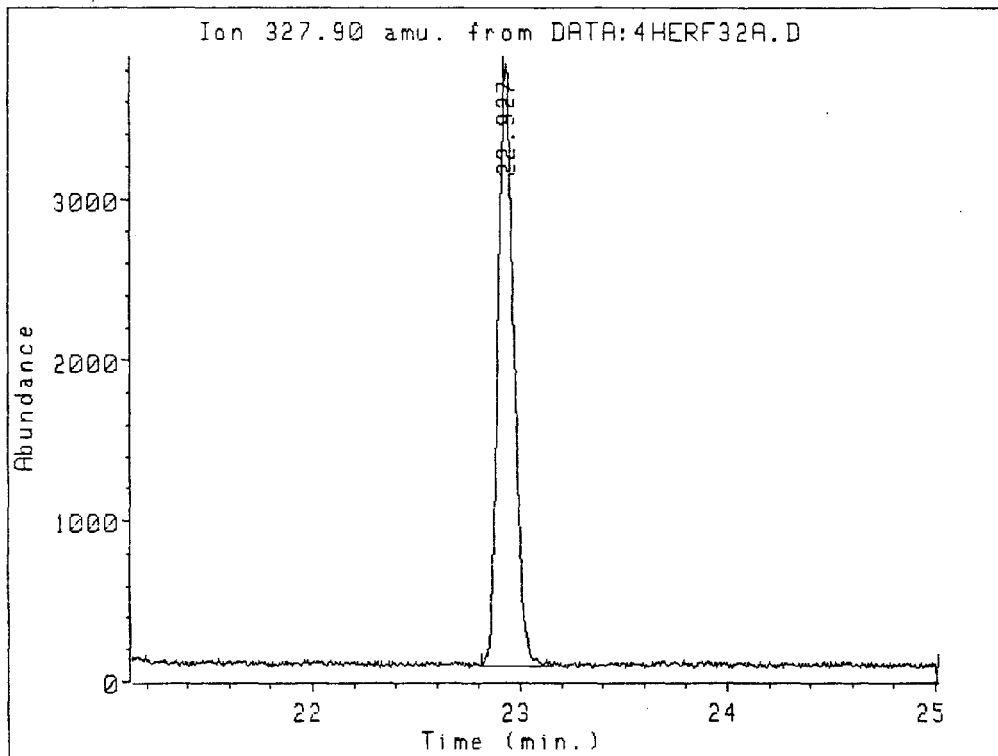
020015

Name Info: 2319
Misc Info:
Operator : TMS

3 1666

Date : 2 Aug 88 2:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 32
Replicate num : 1



Ion 327.90 amu. from DATA:4HERF32A.D

2319

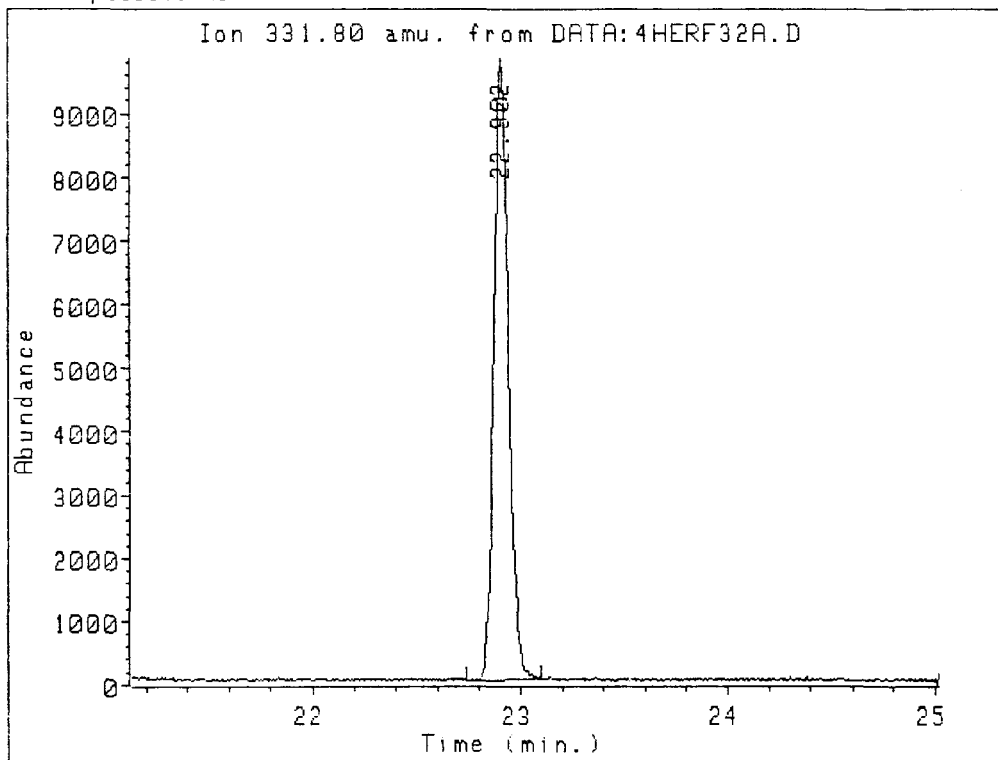
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.927	PU	0.086	202797	22.813	23.151

020874

Name Info: 2319
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
ALS bottle num : 32
Replicate num : 1



020000

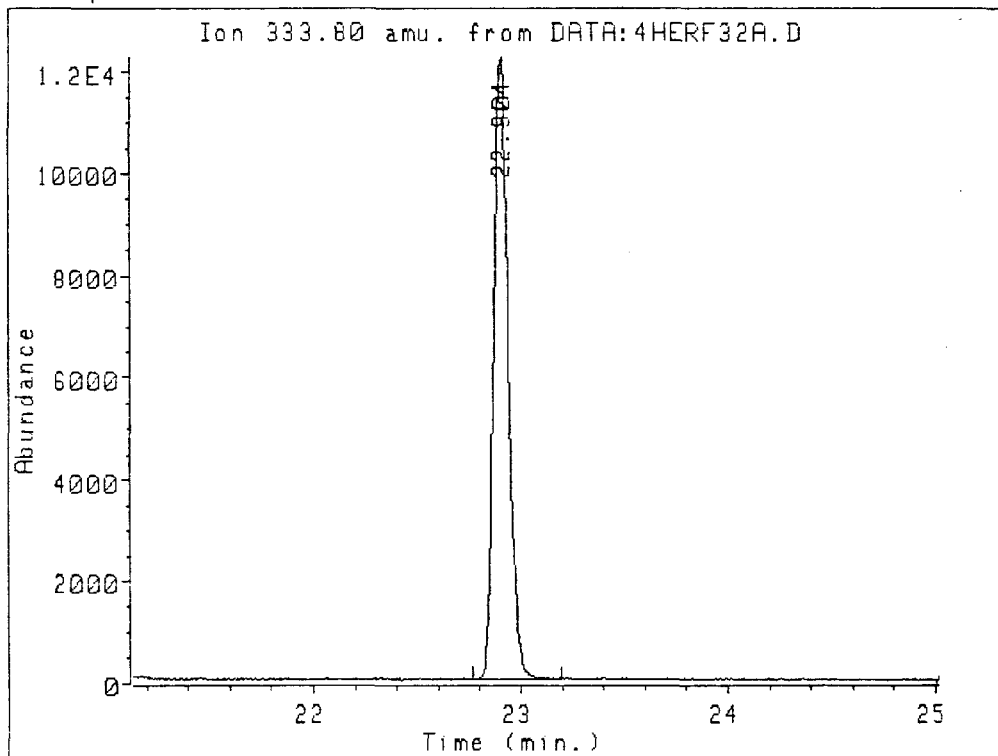
Ion 331.80 amu. from DATA:4HERF32A.D
2319

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.902	PV	0.074	477660	22.738	23.096

Name Info: 2319
Misc Info:
Operator : TMS

Date : 2 Aug 88 2:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 32
Replicate num : 1



Ion 333.80 amu. from DATA:4HERF32A.D
2319

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.904	PV	0.077	603333	22.767	23.197

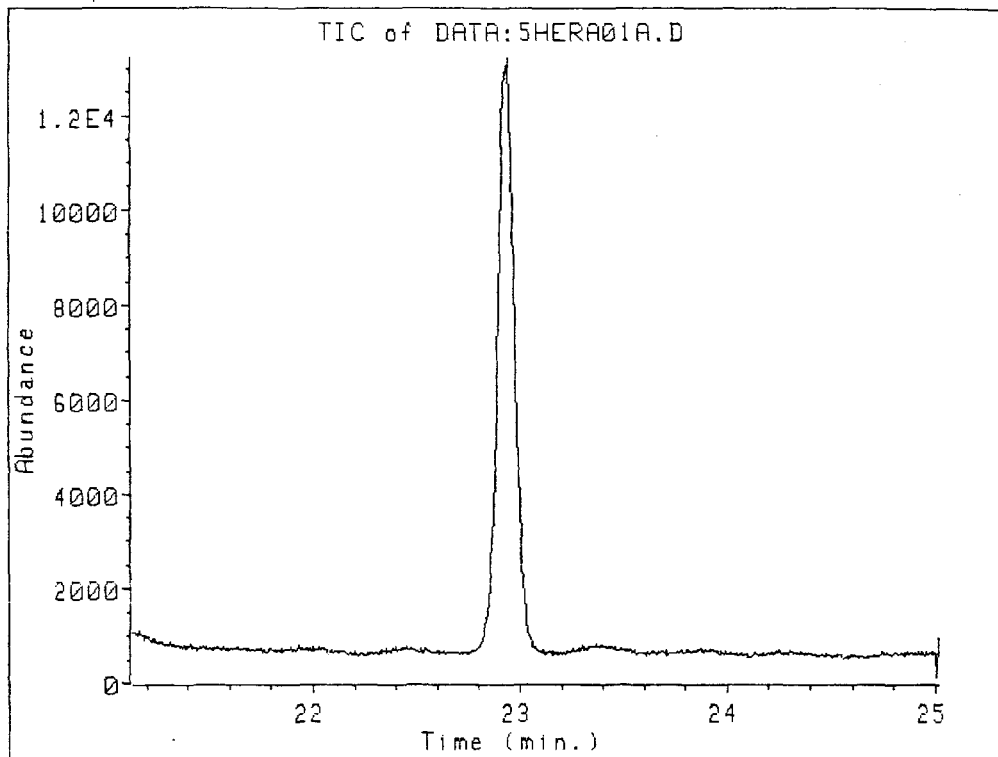
53
Data file: DATA:5HERA01A.D
File type: GC / MS DATA FILE

Name Info: 2320
Misc Info:
Operator : TMS

3 1669

Date : 2 Aug 88 4:09 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



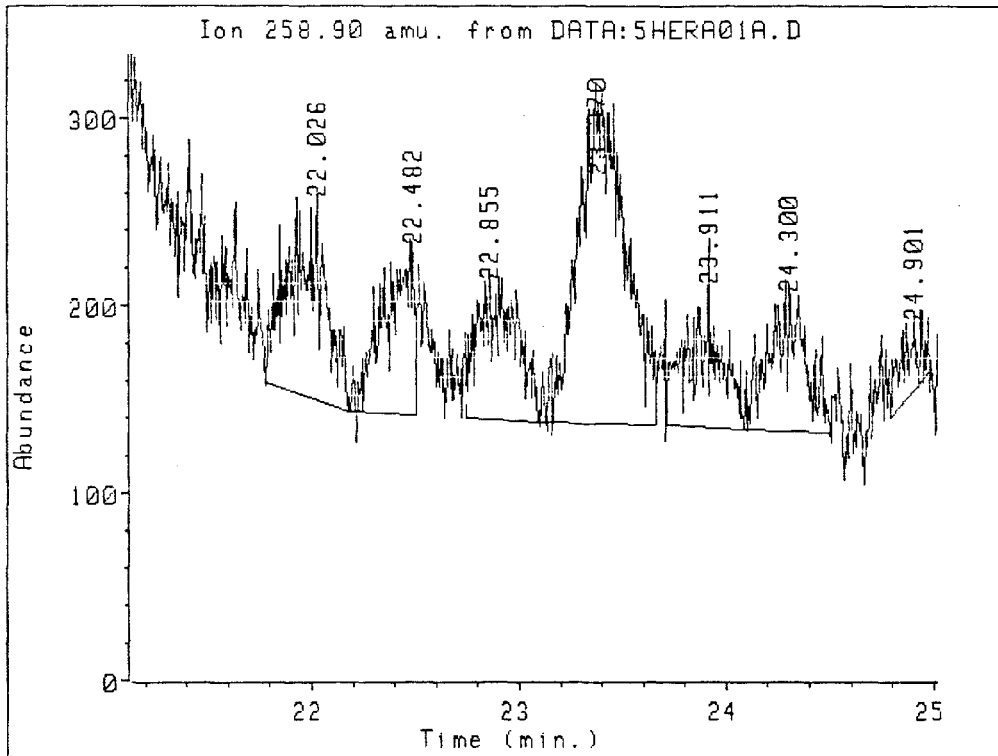
020517

03221033

Name Info: 2320
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:09 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



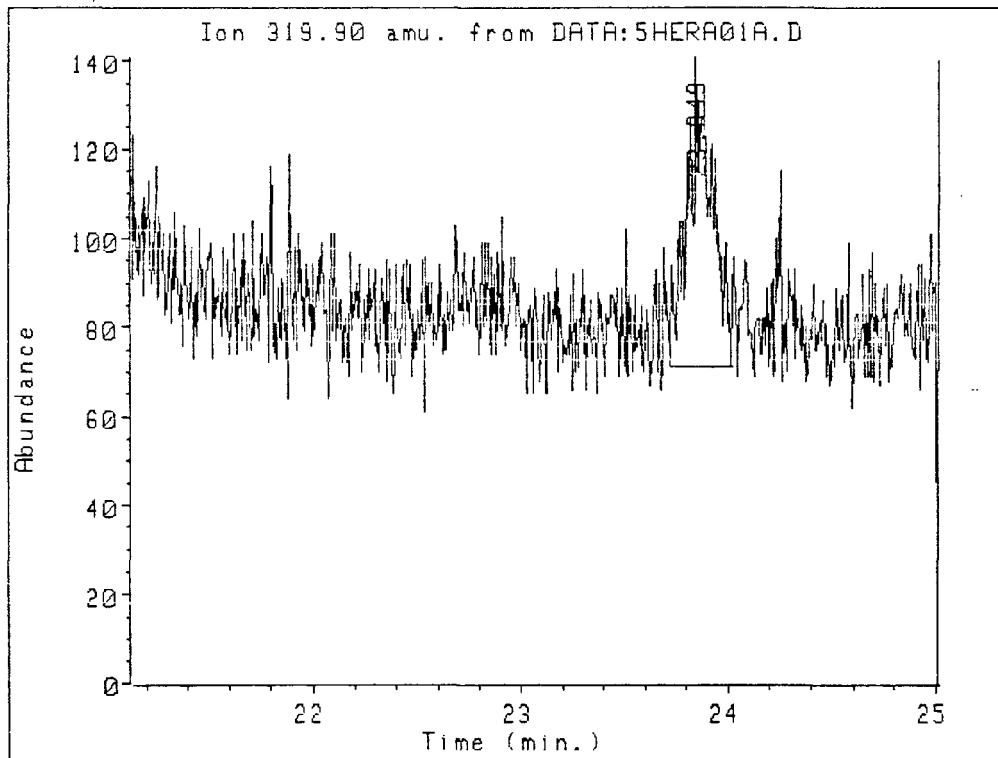
Ion 258.90 amu. from DATA:5HERA01A.D
2320

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.026	UU	0.176	12155	21.781	22.184
2	22.482	PV	0.152	8436	22.184	22.502
3	22.855	UU	0.211	9192	22.745	23.100
4	23.370	PV	0.203	28079	23.100	23.662
5	23.911	UU	0.161	7517	23.714	24.081
6	24.300	UU	0.157	8622	24.081	24.495
7	24.901	UBA	0.094	2127	24.787	24.988

Name Info: 2320
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:09 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



02001

Ion 319.90 amu. from DATA:5HERA01A.D
2320

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	23.849	UU	0.121	5730	23.721	24.020

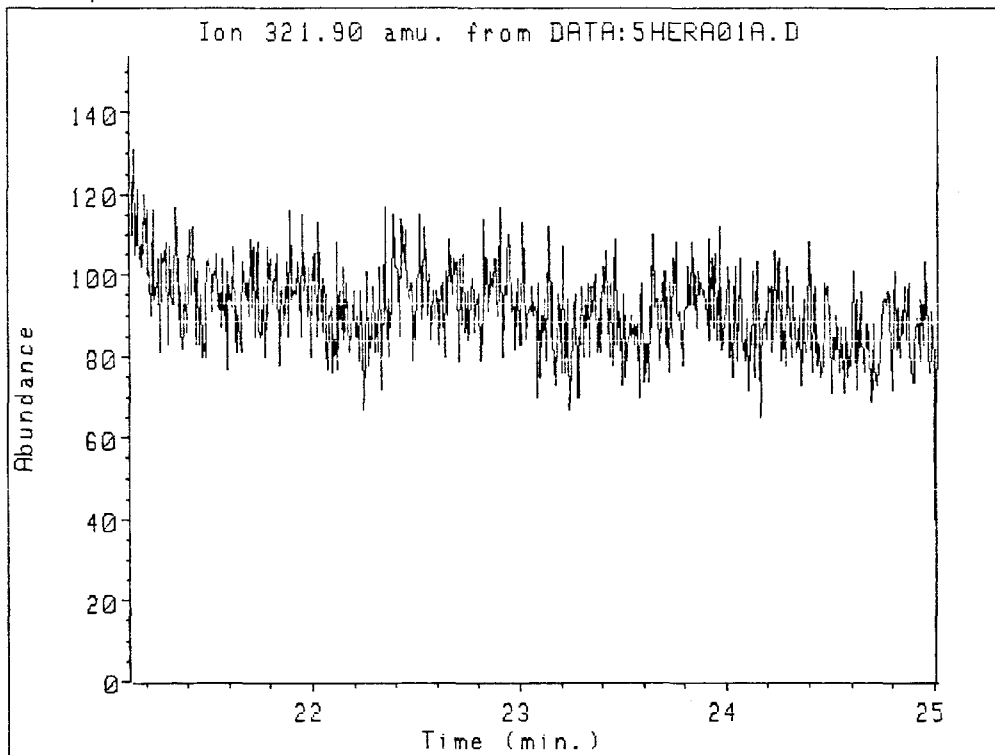
Data file: DATA:5HERA01A.D
File type: GC / MS DATA FILE

3 1672

Name Info: 2320
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:09 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



Ion 321.90 amu. from DATA:5HERA01A.D
2320

No peaks detected

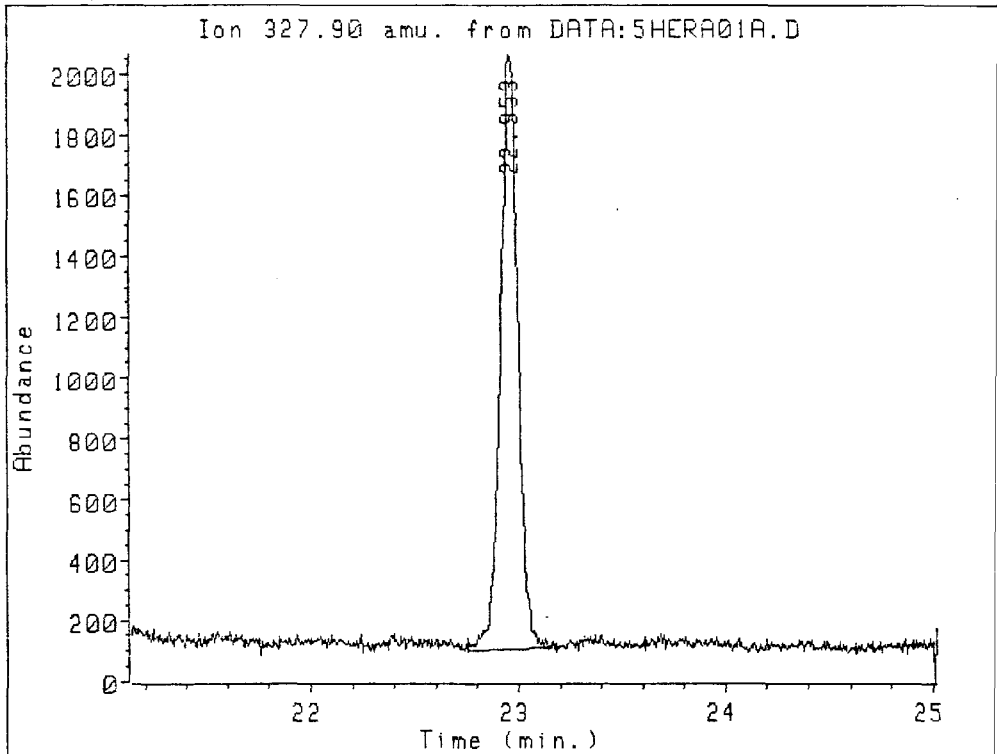
020020

03221036

Name Info: 2320
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:09 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



020123

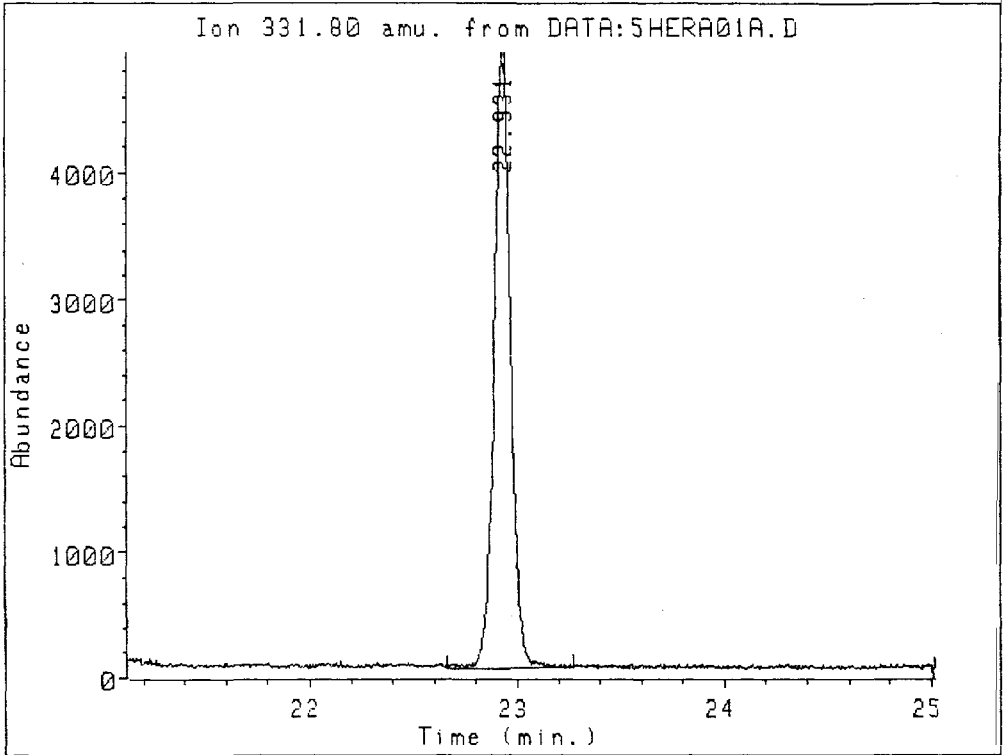
Ion 327.90 amu. from DATA:SHERA01A.D
2320

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.953	PU	0.083	117866	22.755	23.146

Name Info: 2320
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:09 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



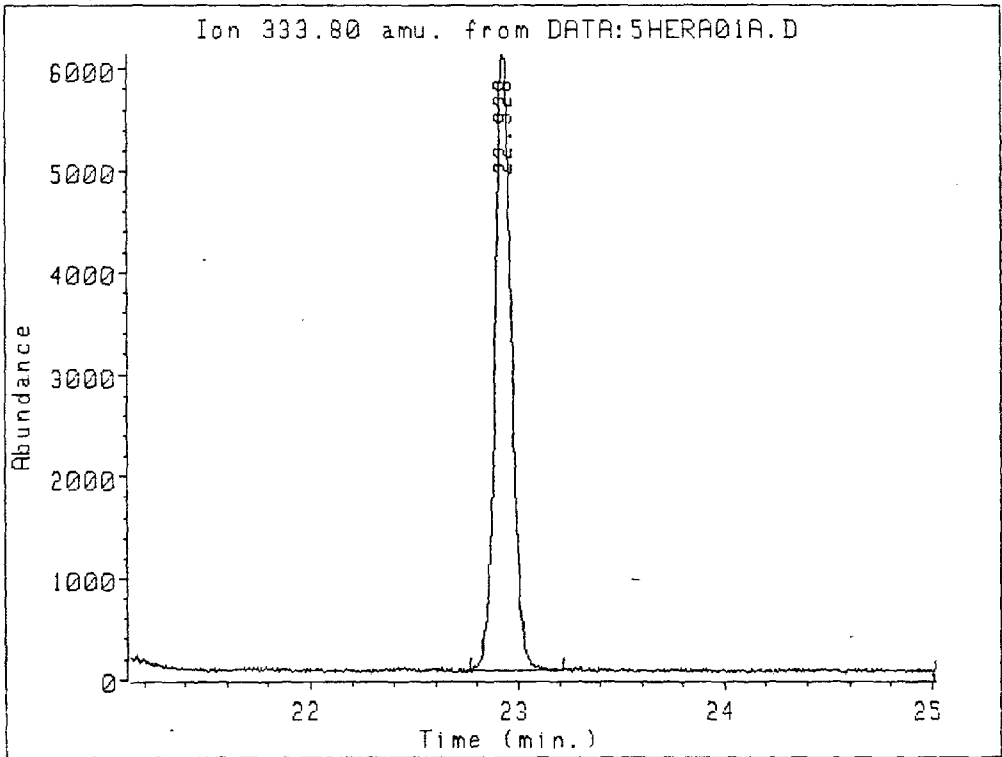
Ion 331.80 amu. from DATA:5HERA01A.D
2320

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.931	PU	0.089	277020	22.660	23.270

Name Info: 2320
Misc Info:
Operator : TMS

Date : 2 Aug 88 4:09 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1



0.20125

Ion 333.80 amu. from DATA:5HERA01A.D
2320

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.928	BU	0.087	342550	22.764	23.218

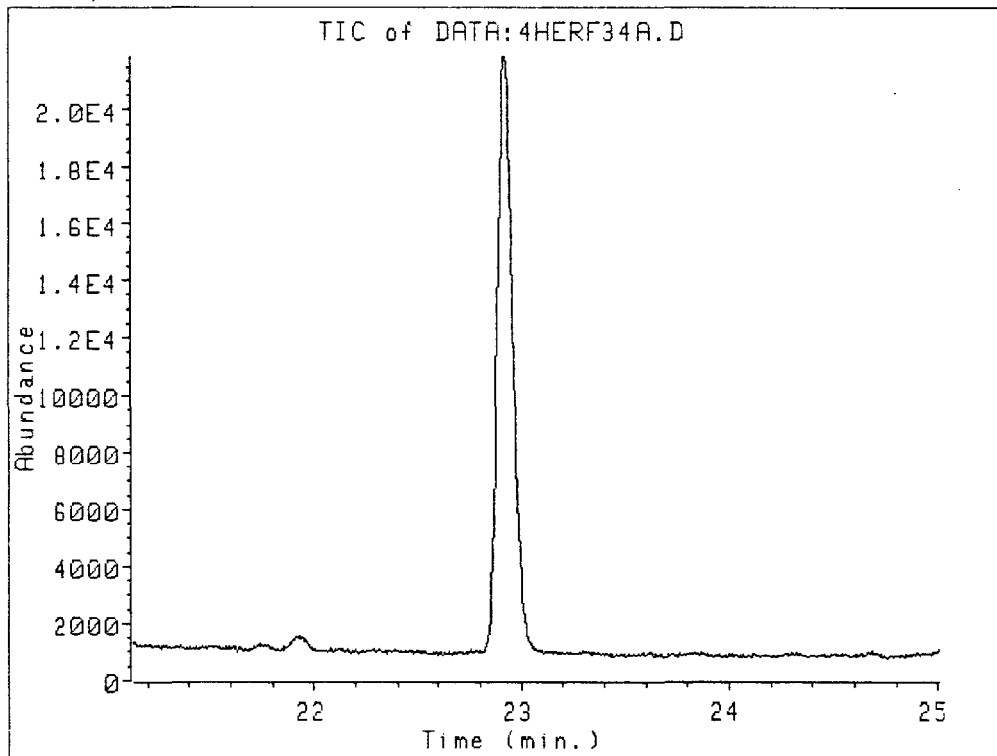
Data file: DATA:4HERF34A.D
File type: GC / MS DATA FILE

Name Info: 2063
Misc Info:
Operator : TMS

3 1676

Date : 2 Aug 88 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 34
Replicate num : 1



020025

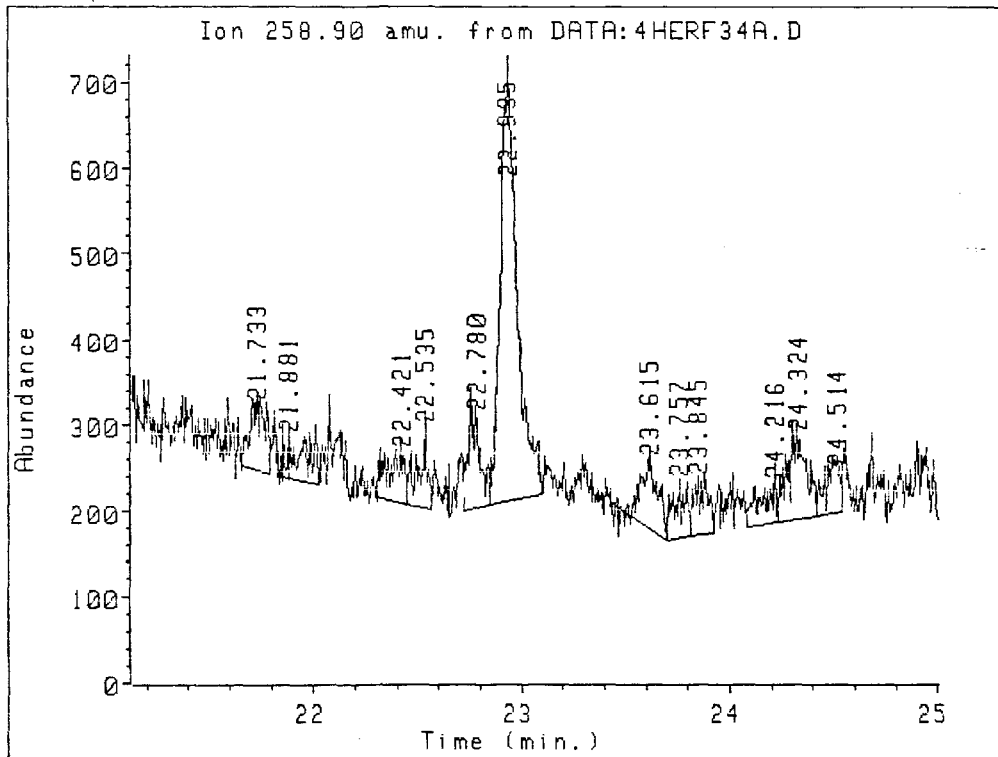
03221040

Name Info: 2063
Misc Info:
Operator : TMS

3 1677

Date : 2 Aug 88 3:22 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 34
Replicate num : 1



020725

Ion 258.90 amu. from DATA:4HERF34A.D
2063

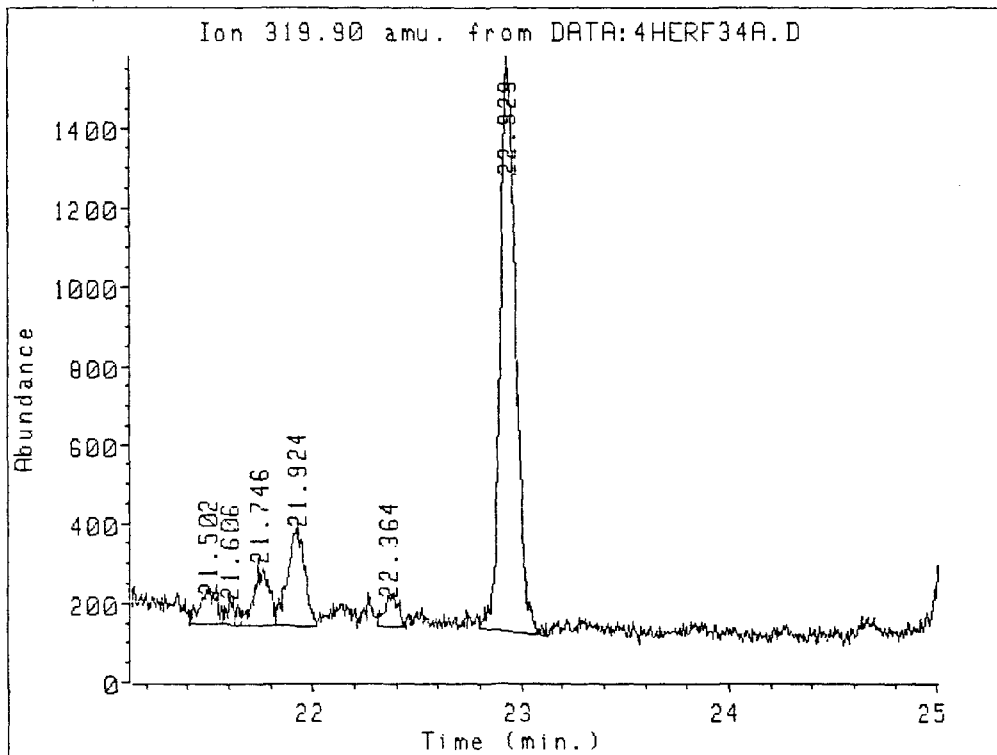
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.733	PV	0.081	4263	21.658	21.798
2	21.881	PV	0.102	3024	21.850	22.030
3	22.421	PV	0.079	3176	22.302	22.448
4	22.535	UU	0.048	2930	22.448	22.568
5	22.780	UU	0.063	4476	22.722	22.847
6	22.935	UU	0.071	28527	22.847	23.100
7	23.615	BU	0.067	4509	23.432	23.700
8	23.757	PV	0.068	2582	23.700	23.810
9	23.845	UU	0.065	2883	23.810	23.923
10	24.216	UU	0.063	2556	24.084	24.234
11	24.324	UU	0.087	6268	24.234	24.419
12	24.514	UU	0.085	2976	24.419	24.539

03221041

Name Info: 2063
Misc Info:
Operator : TMS

Date : 2 Aug 88 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 34
Replicate num : 1



020026

Ion 319.90 amu. from DATA:4HERF34A.D
2063

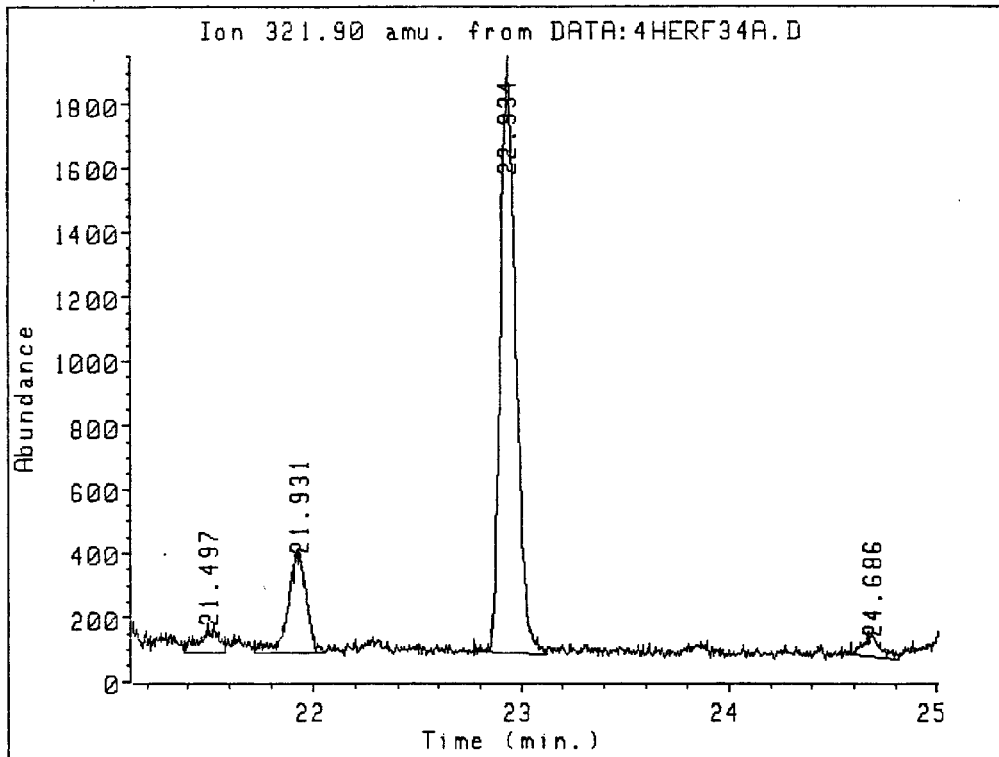
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.502	PV	0.080	4920	21.412	21.573
2	21.606	UU	0.053	2206	21.573	21.659
3	21.746	UU	0.073	7406	21.659	21.822
4	21.924	UU	0.073	14195	21.822	22.020
5	22.364	UU	0.060	3829	22.311	22.442
6	22.929	UU	0.079	77470	22.803	23.131

Name Info: 2063
Misc Info:
Operator : TMS

3 1679

Date : 2 Aug 88 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 34
Replicate num : 1



020827

Ion 321.90 amu. from DATA:4HERF34A.D
2063

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.497	UU	0.083	4994	21.382	21.579
2	21.931	UU	0.077	19113	21.722	22.055
3	22.934	BV	0.074	96079	22.768	23.121
4	24.686	BV	0.080	4092	24.587	24.819

03221043

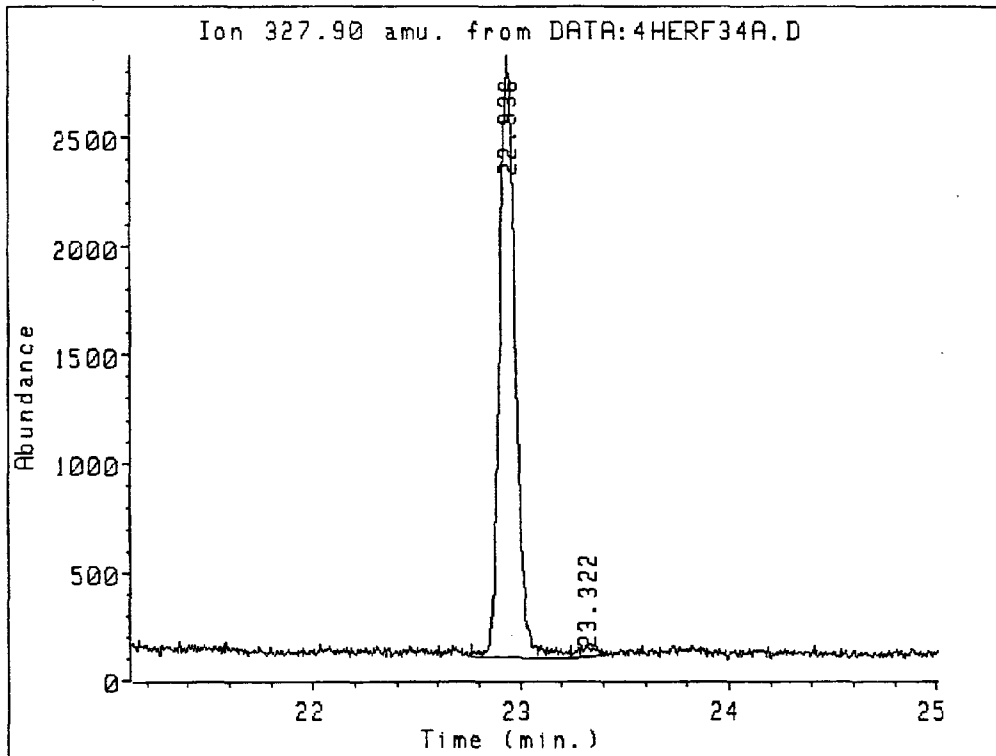
Data file: DATA:4HERF34A.D
File type: GC / MS DATA FILE

Name Info: 2063
Misc Info:
Operator : TMS

3 1680

Date : 2 Aug 88 3:22 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 34
Replicate num : 1



Ion 327.90 amu. from DATA:4HERF34A.D
2063

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.936	UU	0.086	150473	22.762	23.243
2	23.322	PB	0.079	2961	23.243	23.411

020828

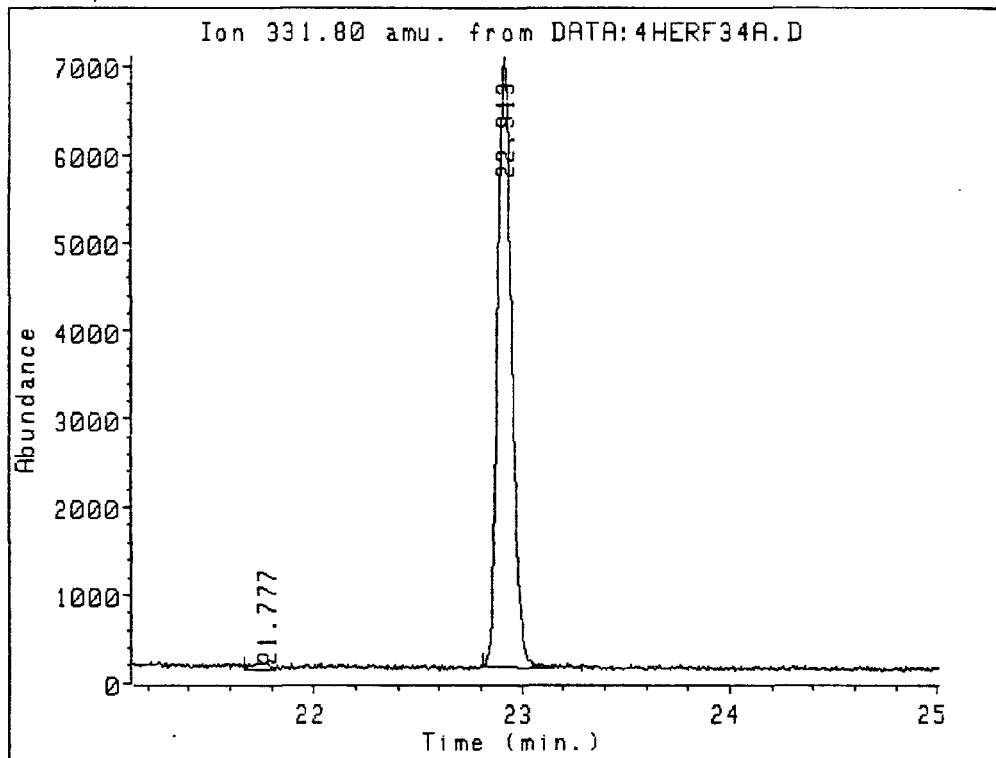
03221044

Name Info: 2063
Misc Info:
Operator : TMS

3 1631

Date : 2 Aug 88 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 34
Replicate num : 1



020829

Ion 331.80 amu. from DATA:4HERF34A.D
2063

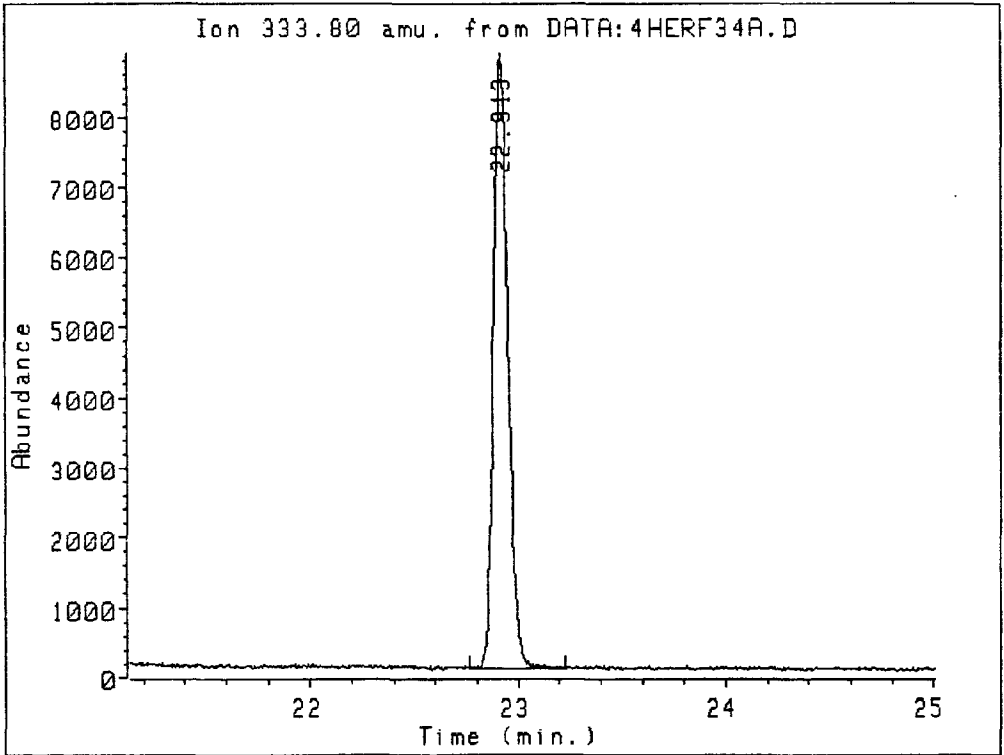
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.777	UV	0.076	4220	21.667	21.814
2	22.913	BV	0.078	334432	22.804	23.149

03221045

Name Info: 2063
Misc Info:
Operator : TMS

Date : 2 Aug 88 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 6
Als bottle num : 34
Replicate num : 1



020830

Ion 333.80 amu. from DATA:4HERF34A.D
2063

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.913	UV	0.075	432881	22.764	23.231

ATTACHMENT 2
DAILY CALIBRATION MASS CHROMATOGRAMS

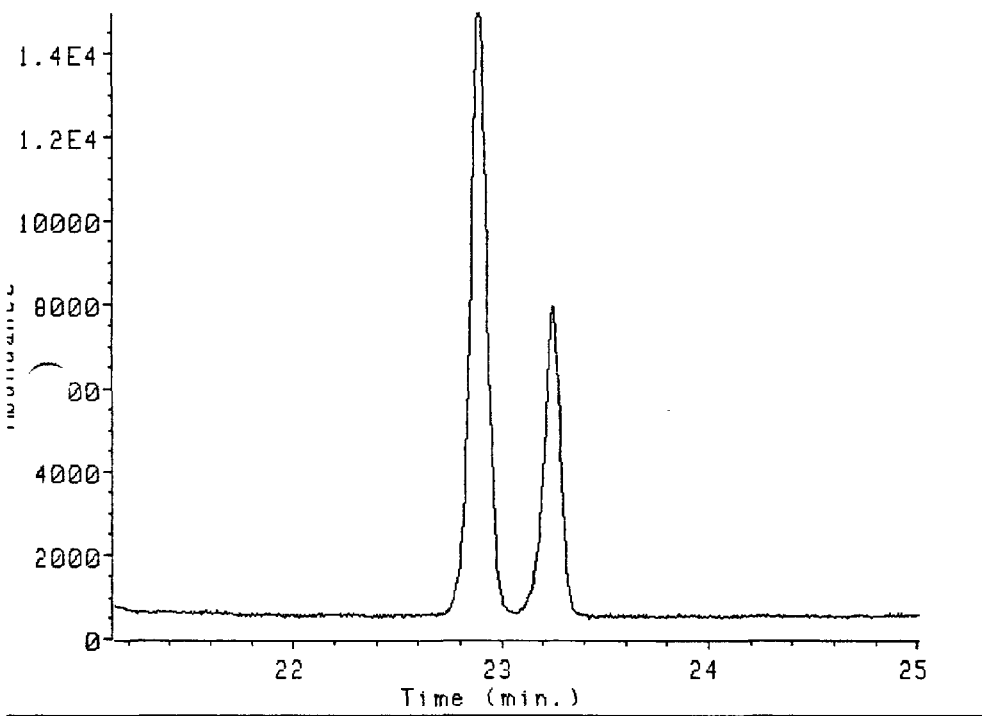
020331

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
Als bottle num : 1
Replicate num : 1

TIC of DATA:4HERD01A.D



020632

DATA FILE: DATA:4HERD01A.D
File type: GC / MS DATA FILE

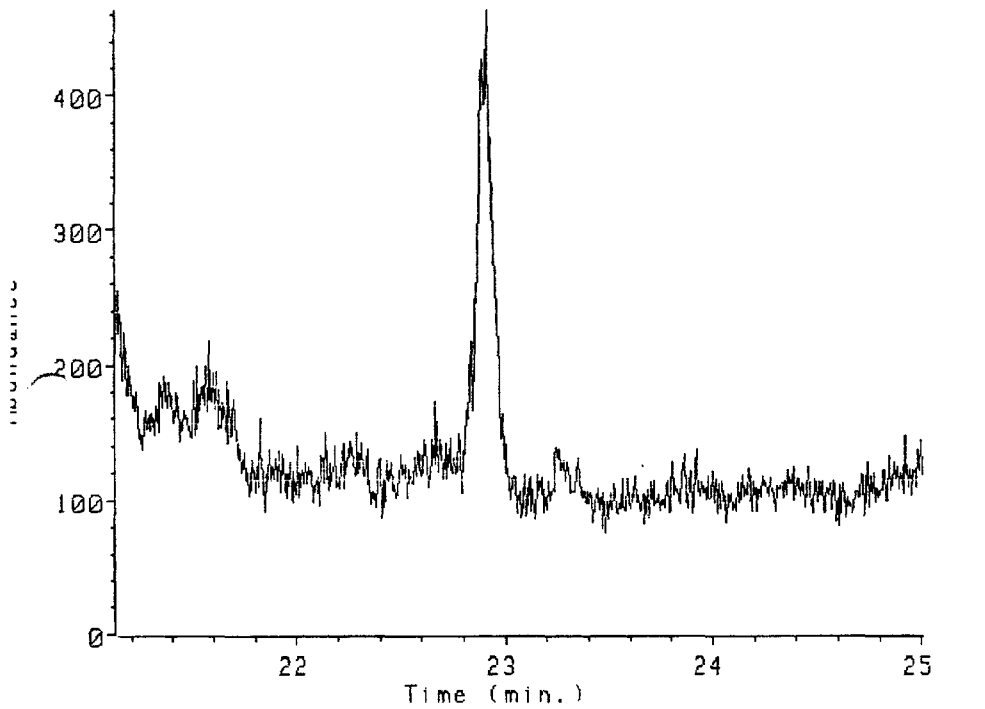
3 1685

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
ALS bottle num : 1
Replicate num : 1

Ion 258.90 amu. from DATA:4HERD01A.D



Ion 258.90 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

0 peaks detected

020633

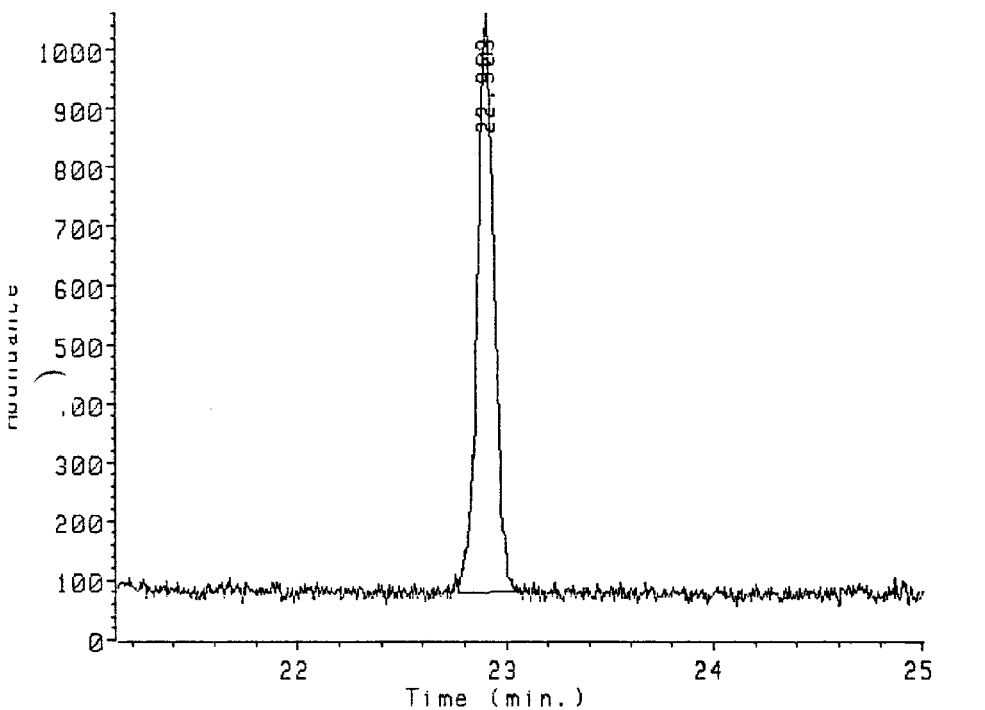
03221049

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
ALS bottle num : 1
Replicate num : 1

Ion 319.90 amu. from DATA:4HERD01A.D



020854

Ion 319.90 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

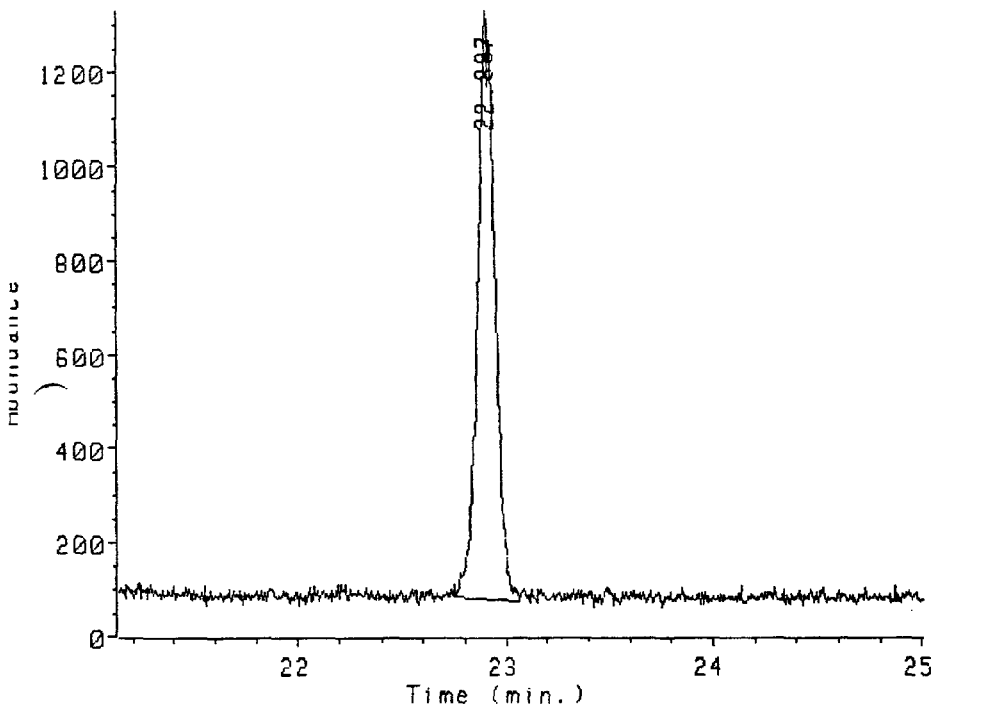
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.903	BB	0.083	54970	22.768	23.054

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Experiment: MS_5970
Inlet : GC

Sequence index : 4
ALS bottle num : 1
Replicate num : 1

Ion 321.90 amu. from DATA:4HERD01A.D



020655

Ion 321.90 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.897	BB	0.085	73329	22.746	23.063

Data file: DATA:4HERD01A.D
File type: GC / MS DATA FILE

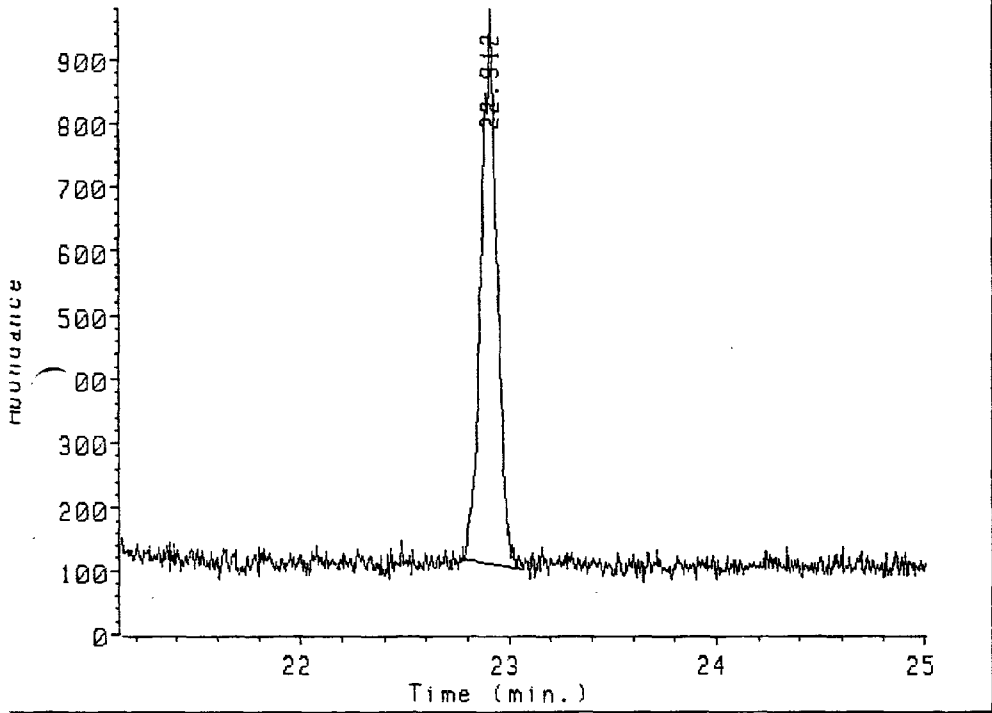
3 1688

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

te : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
Als bottle num : 1
Replicate num : 1

Ion 327.90 amu. from DATA:4HERD01A.D



020036

on 327.90 amu. from DATA:4HERD01A.D
ALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.912	BB	0.073	46615	22.774	23.069

03221052

Data file: DATA:4HERD01A.D
File type: GC / MS DATA FILE

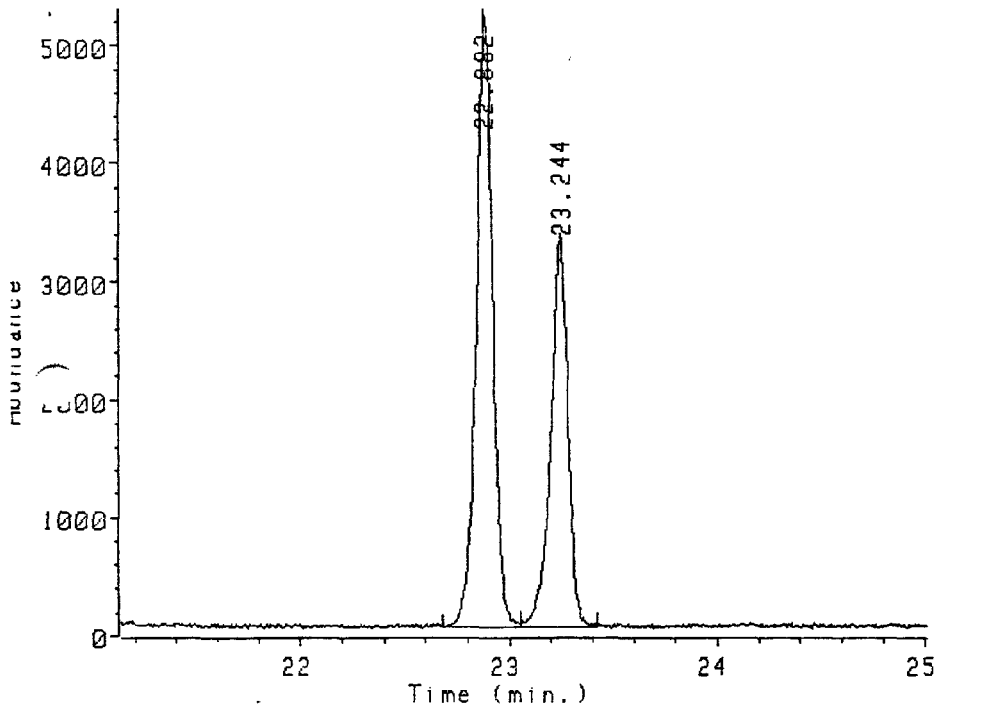
Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

3 1689

te : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
Als bottle num : 1
Replicate num : 1

Ion 331.80 amu. from DATA:4HERD01A.D



Ion 331.80 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.882	UV	0.081	288223	22.682	23.057
2	23.244	UV	0.083	189736	23.057	23.423

020837

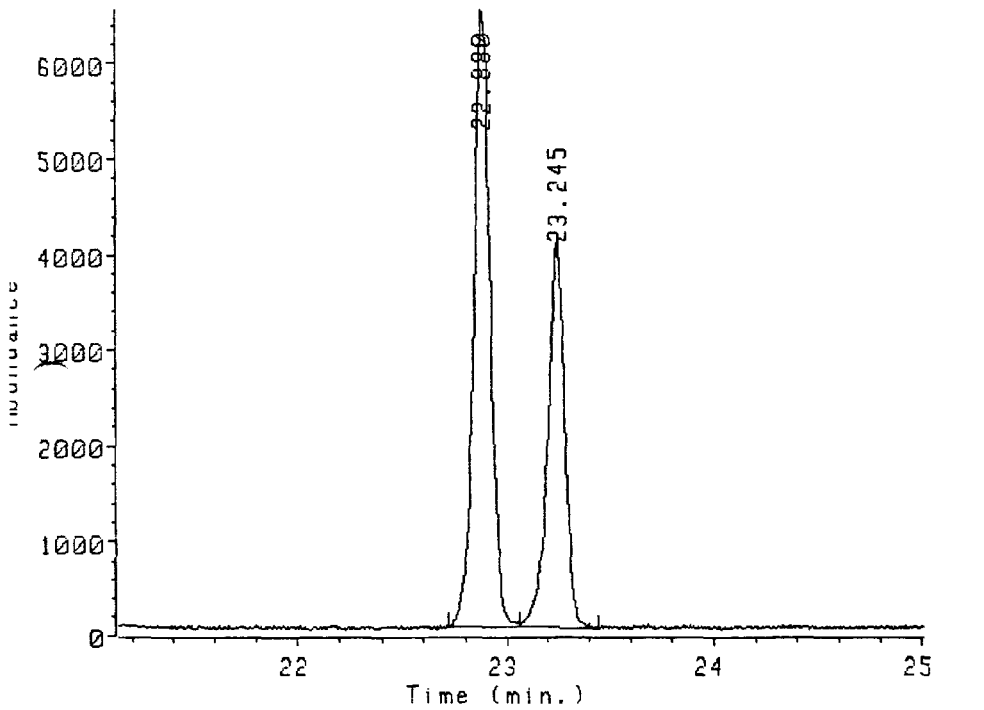
03221053

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 2 Aug 88 7:16 am
Instrument: MS_5970
Inlet : GC

Sequence index : 4
ALS bottle num : 1
Replicate num : 1

Ion 333.80 amu. from DATA:4HERD01A.D



020053

Ion 333.80 amu. from DATA:4HERD01A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.880	UV	0.083	362221	22.719	23.063
2	23.245	UV	0.083	234261	23.063	23.447

ATTACHMENT 3
INITIAL CALIBRATION MASS CHROMATOGRAMS

020839

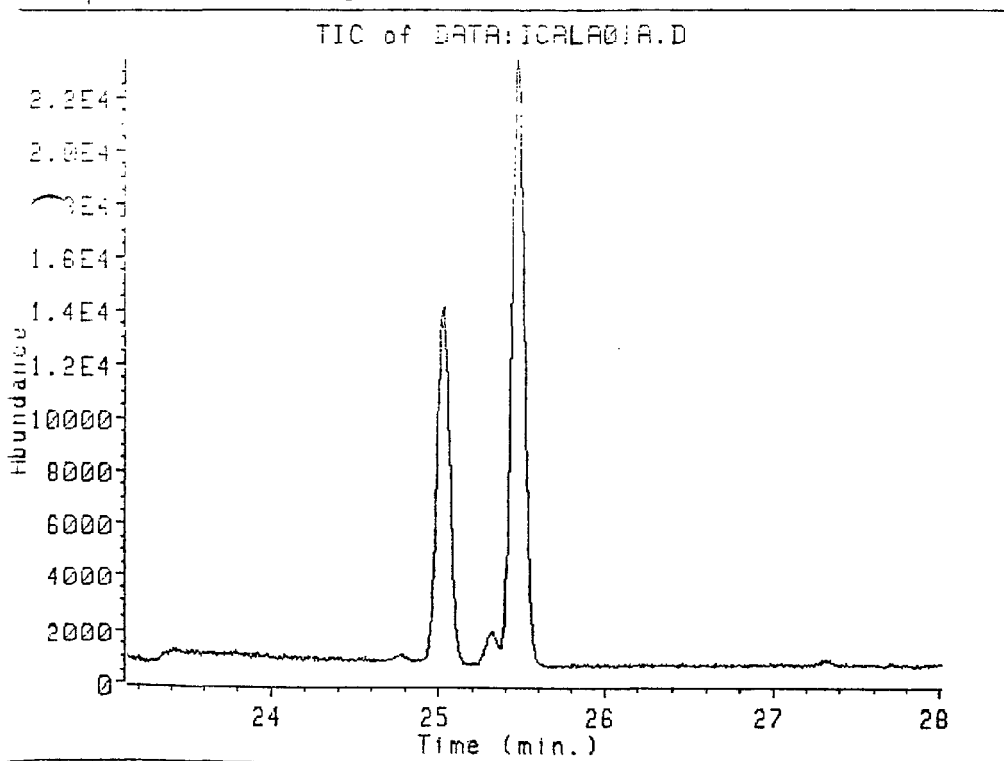
Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

020340



Data file: DATA:ICALA01A.D
 File type: GC / MS DATA FILE

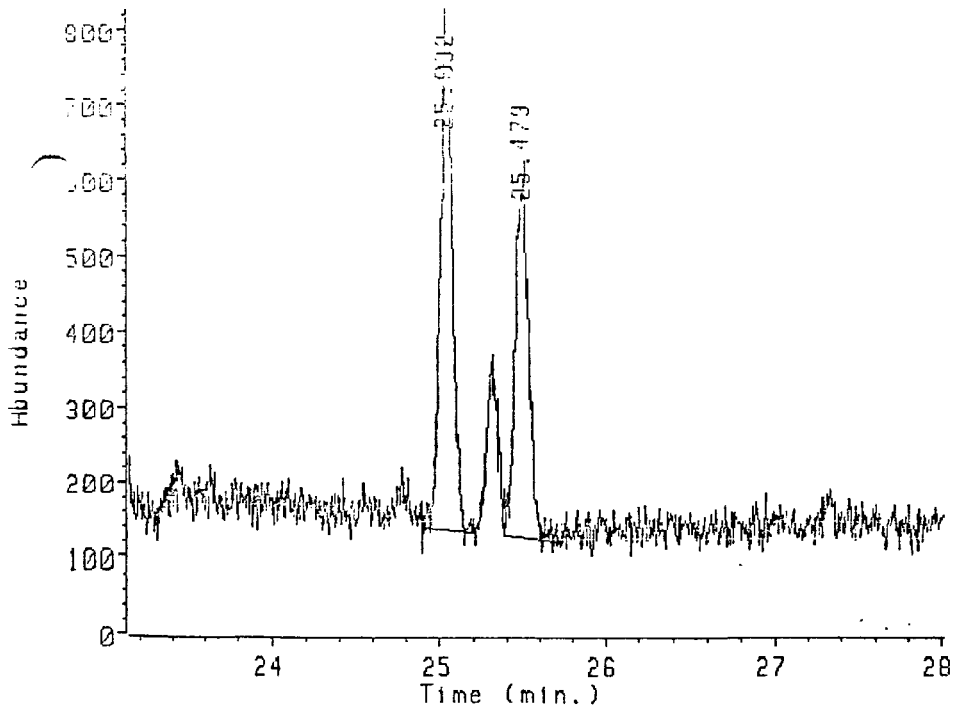
Name Info: COLUMN PERFORMANCE MIX
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 1
 Replicate num : 1

020641

Ion 258.90 amu. from DATA:ICALA01A.D



Ion 258.90 amu. from DATA:ICALA01A.D
 COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.032	UV	0.091	33237	24.902	25.210
2	25.479	VB	0.099	27499	25.380	25.708

03221057

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

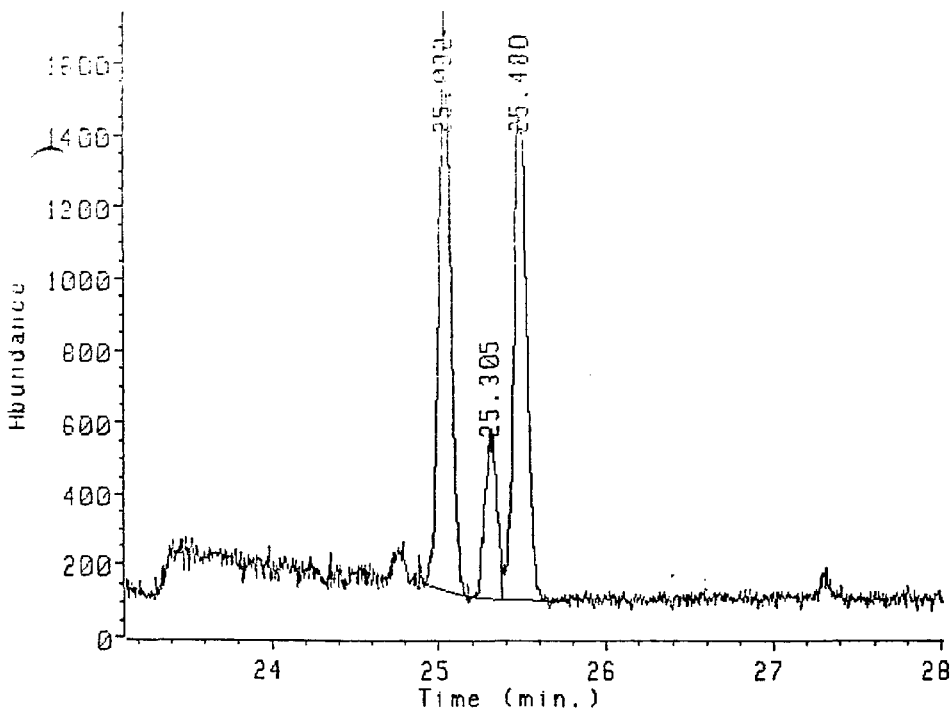
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

020542

Ion 319.90 amu. from DATA:ICALA01A.D



Ion 319.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.032	BV	0.085	78063	24.902	25.180
2	25.305	PV	0.083	22626	25.180	25.379
3	25.480	VB	0.088	73270	25.379	25.755

03221058

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

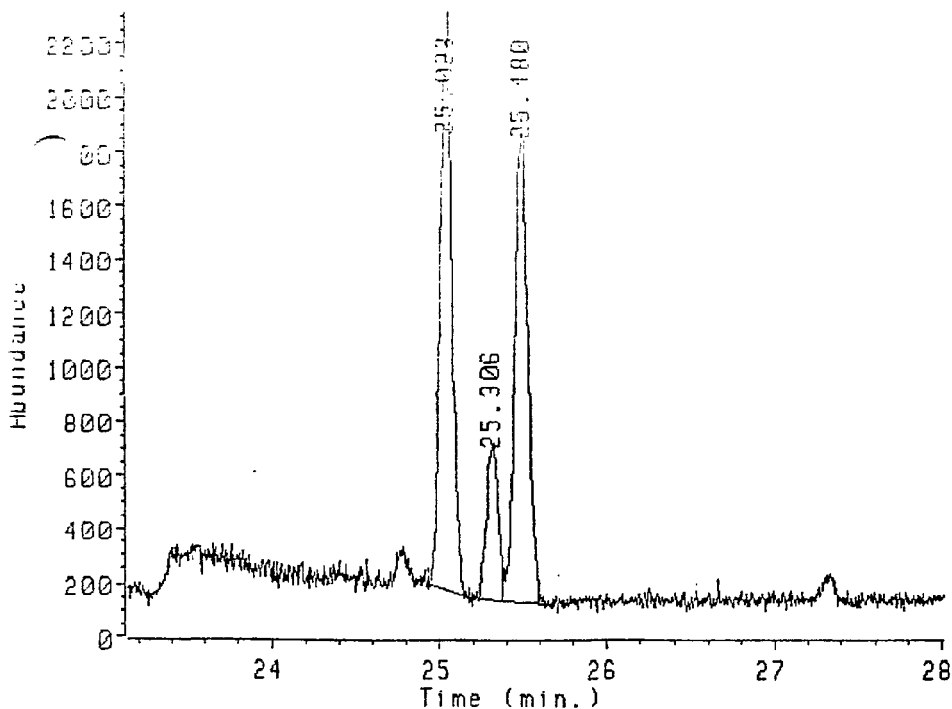
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

020343

Ion 321.90 amu. from DATA:ICALA01A.D



Ion 21.90 amu. from DATA:ICALA01A.D
CL MN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.033	BV	0.086	102390	24.926	25.179
2	25.306	PV	0.084	28766	25.179	25.378
3	25.480	VB	0.091	95712	25.378	25.665

03221059

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

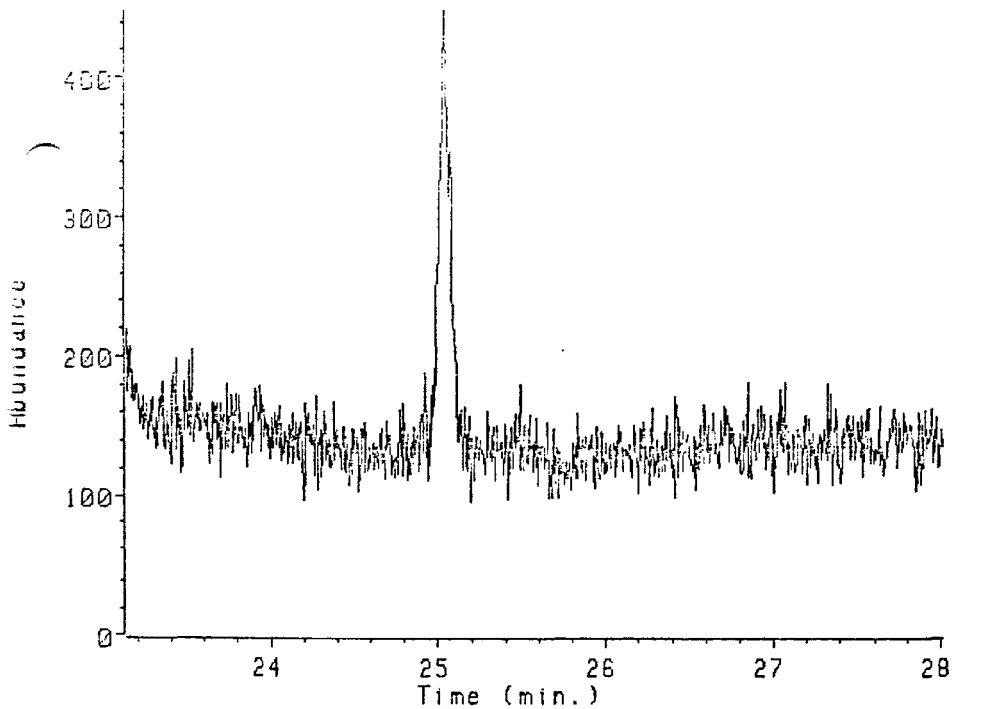
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
ALS bottle num : 1
Replicate num : 1

020344

Ion 327.90 amu. from DATA:ICALA01A.D



Ion 327.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

0 peaks detected

03221060

Data file: DATA:ICALA01A.D
 File type: GC / MS DATA FILE

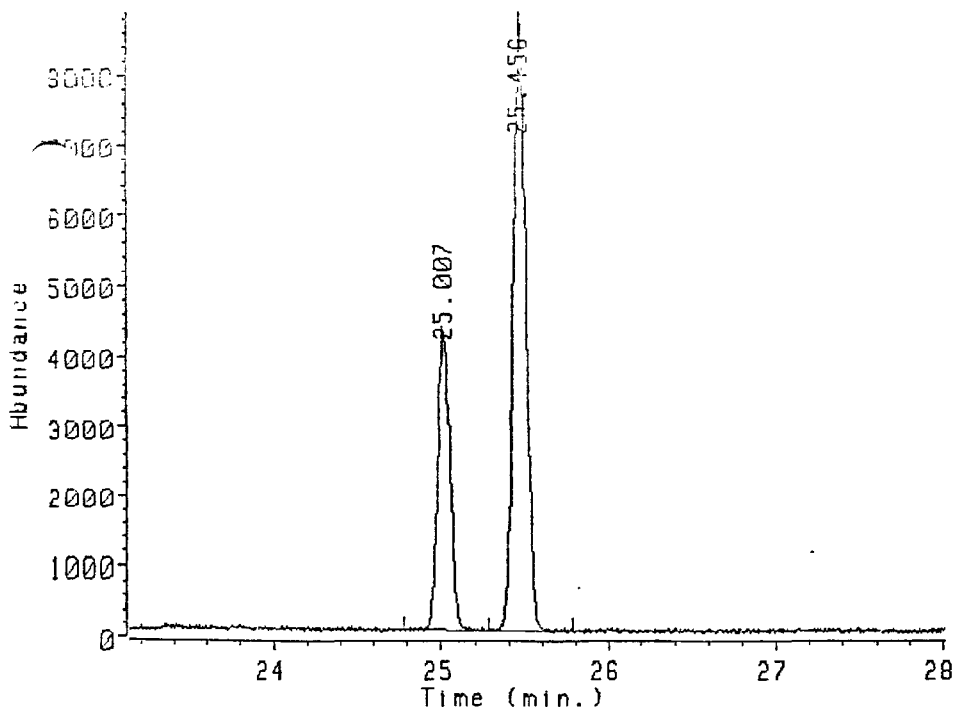
Name Info: COLUMN PERFORMANCE MIX
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 1
 Replicate num : 1

020345

Ion 331.80 amu. from DATA:ICALA01A.D



Ion 331.80 amu. from DATA:ICALA01A.D
 C COLUMN PERFORMANCE MIX

03221061

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.007	BV	0.087	218250	24.784	25.281
2	25.456	VB	0.090	455837	25.281	25.779

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

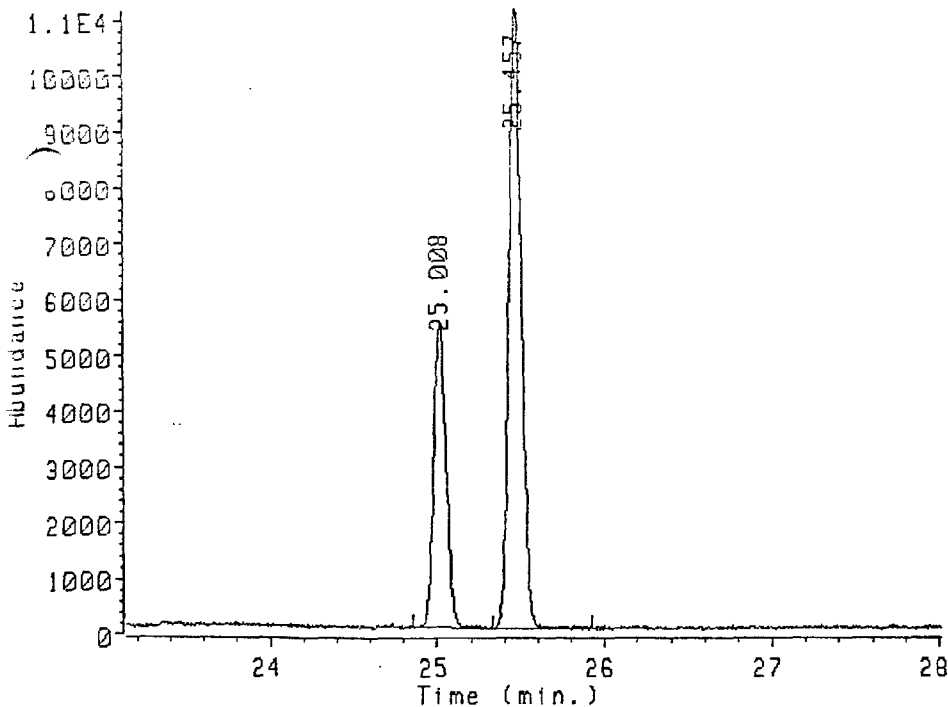
Name Info: - COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
ALS bottle num : 1
Replicate num : 1

020046

Ion 333.80 amu. from DATA:ICALA01A.D



Ion 333.80 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

03221062

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.008	BV	0.087	279885	24.855	25.329
2	25.457	PB	0.086	573510	25.329	25.921

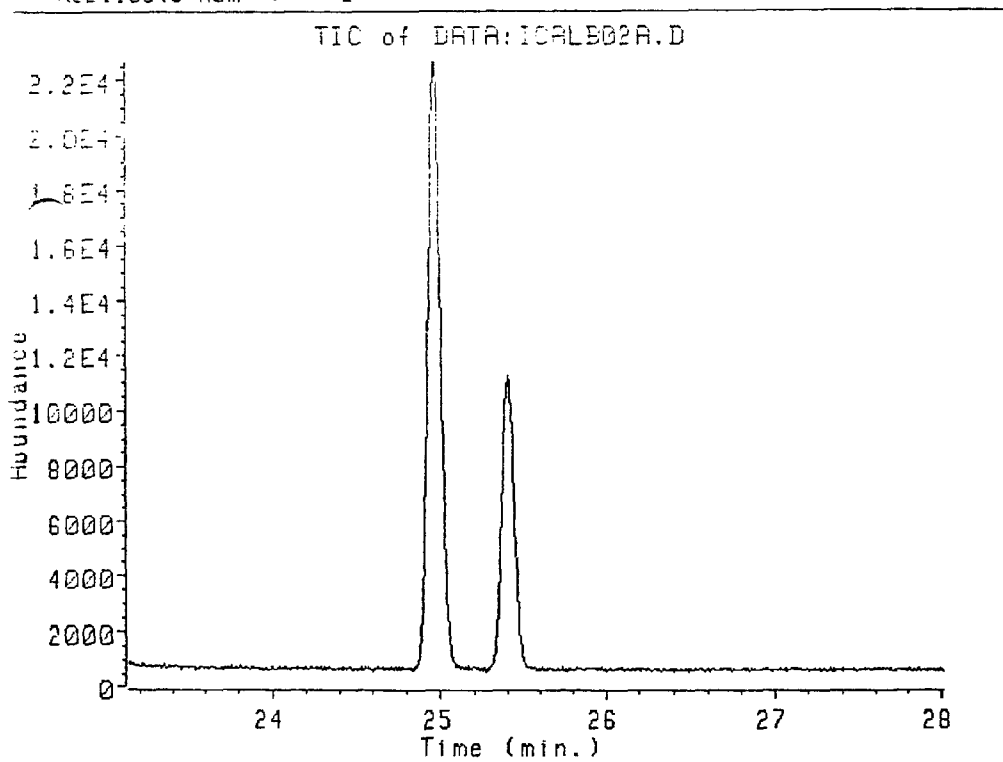
Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
ALS bottle num : 2
Replicate num : 1

020347



Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

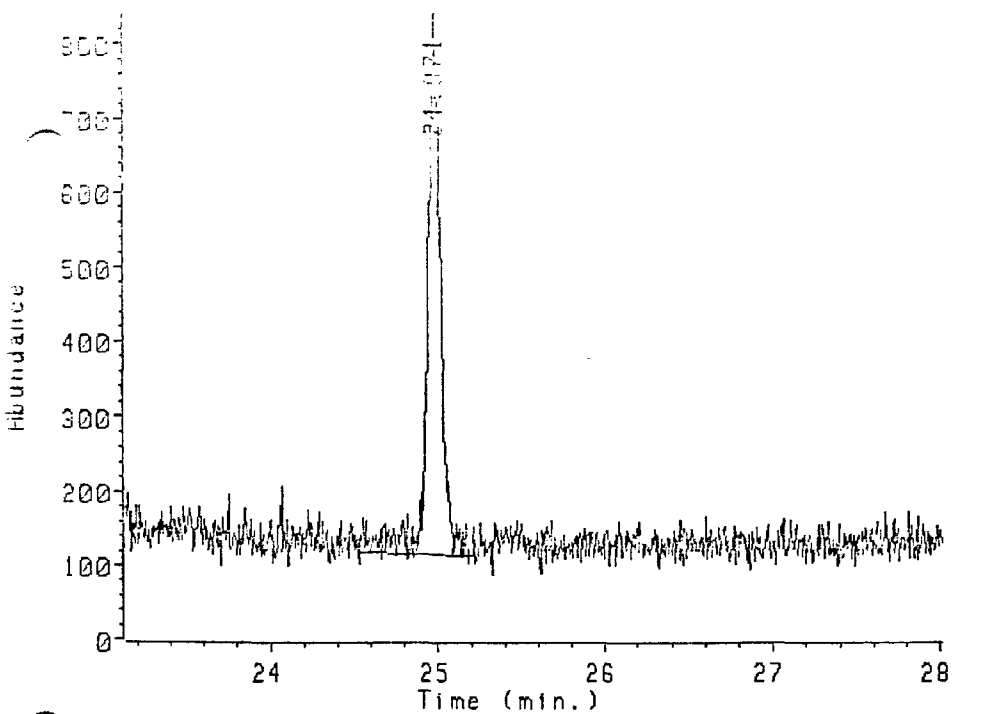
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Vials bottle num : 2
Replicate num : 1

020243

Ion 258.90 amu. from DATA:ICALB02A.D



Ion 258.90 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

03221064

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.971	BU	0.140	41228	24.525	25.218

Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

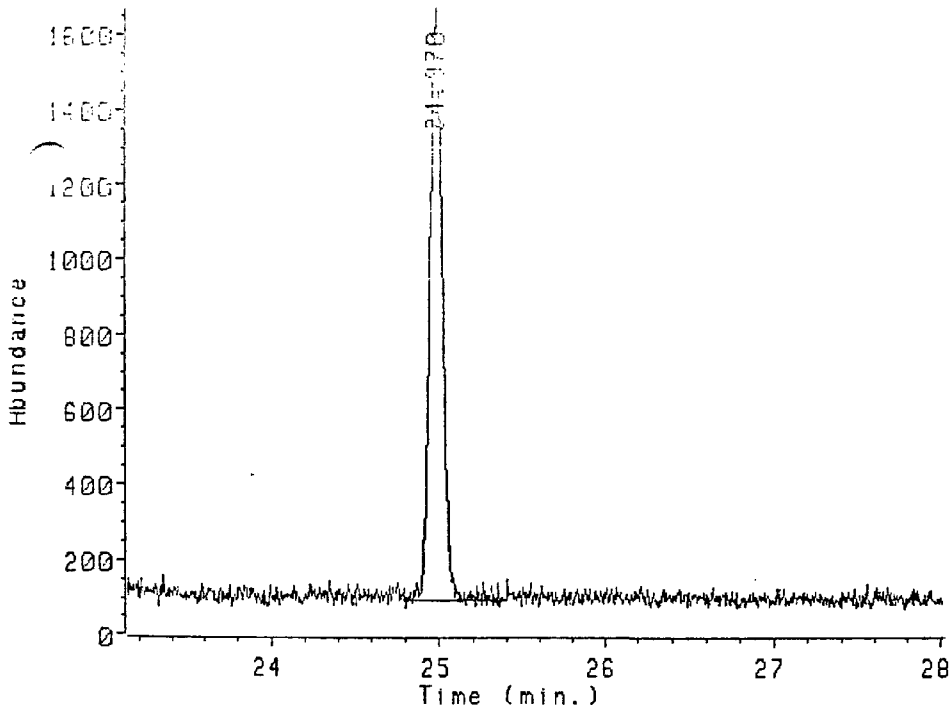
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

020049

Ion 319.90 amu. from DATA:ICALB02A.D



Ion 319.90 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

03221065

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.970	BB	0.132	81667	24.784	25.315

Data file: DATA:ICALB02A.D
 File type: GC / MS DATA FILE

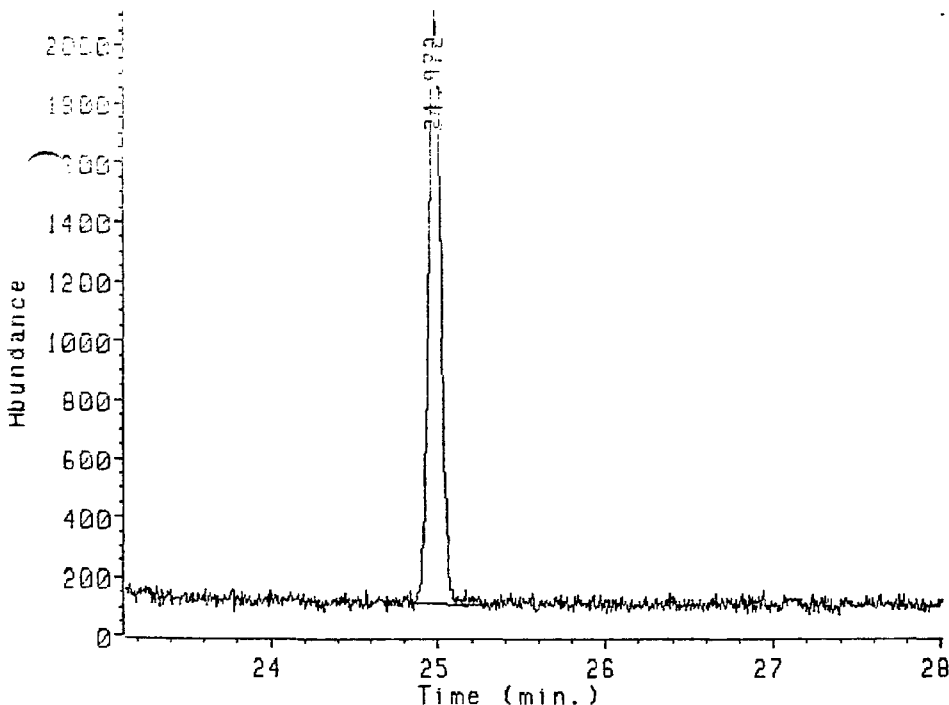
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 1

020050

Ion 321.90 amu. from DATA:ICALB02A.D



Ion 321.90 amu. from DATA:ICALB02A.D
 CLP CALIBRATION SOLN I

03221066

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.972	BB	0.127	103594	24.832	25.291

Data file: DATA:ICALB02A.D
 File type: GC / MS DATA FILE

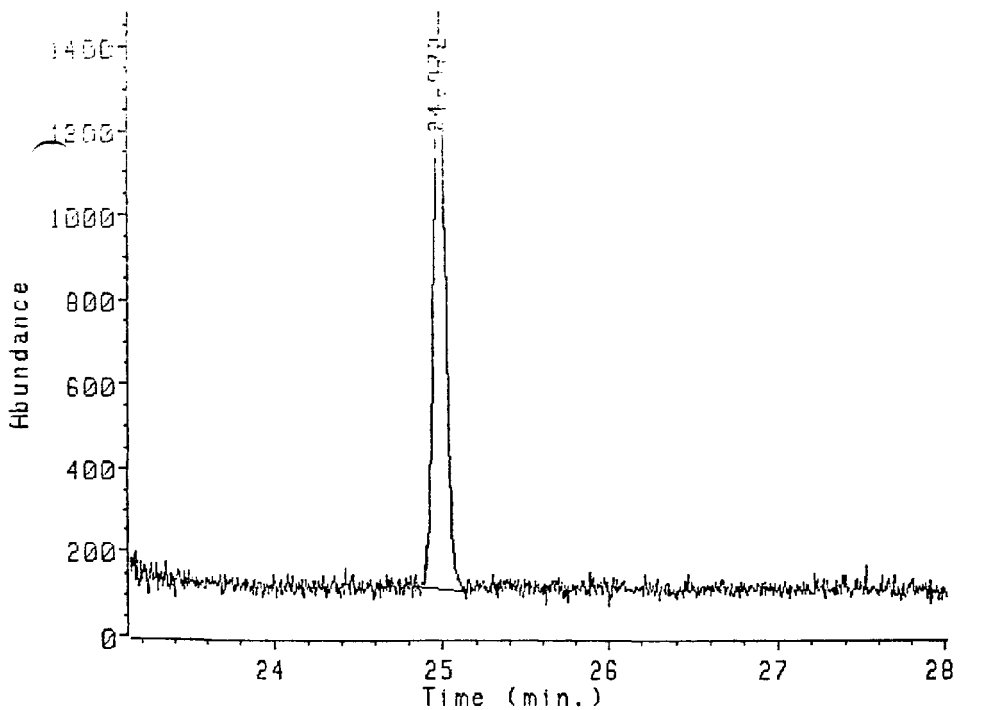
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 1

020351

Ion 327.90 amu. from DATA:ICALB02A.D



Ion 327.90 amu. from DATA:ICALB02A.D
 CL CALIBRATION SOLN I

03221067

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.972	BB	0.123	64544	24.832	25.122

Data file: DATA:ICALB02A.D
 File type: GC / MS DATA FILE

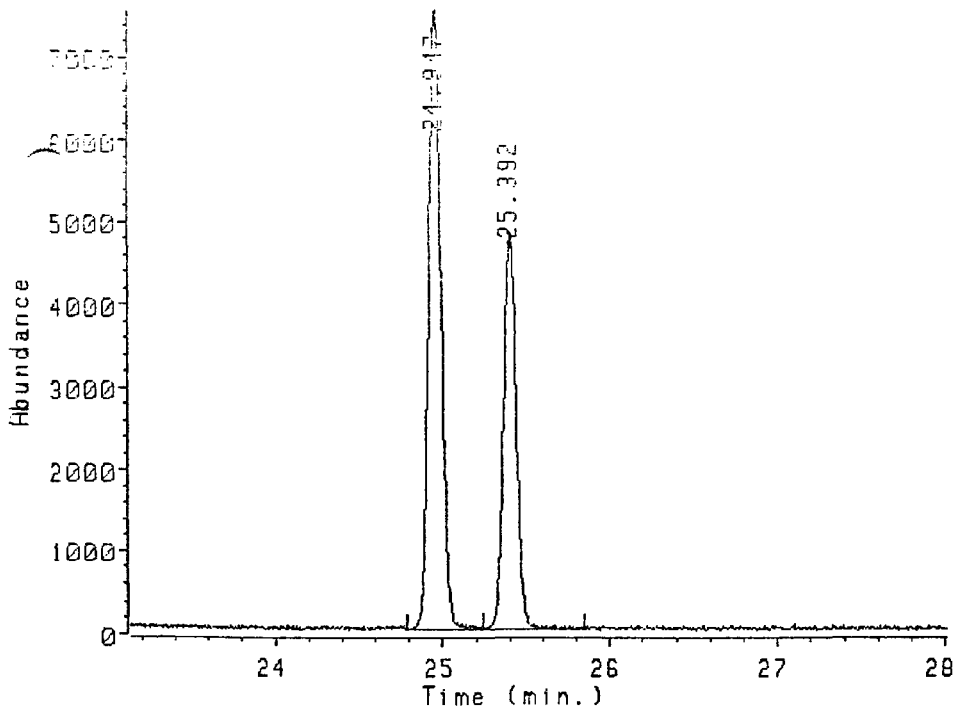
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 1

020152

Ion 331.80 amu. from DATA:ICALB02A.D



Ion 331.80 amu. from DATA:ICALB02A.D
 CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.947	UB	0.148	388540	24.784	25.242
2	25.392	UB	0.136	246363	25.242	25.845

03221068

Data file: DATA:ICALB02A.D
 File type: GC / MS DATA FILE

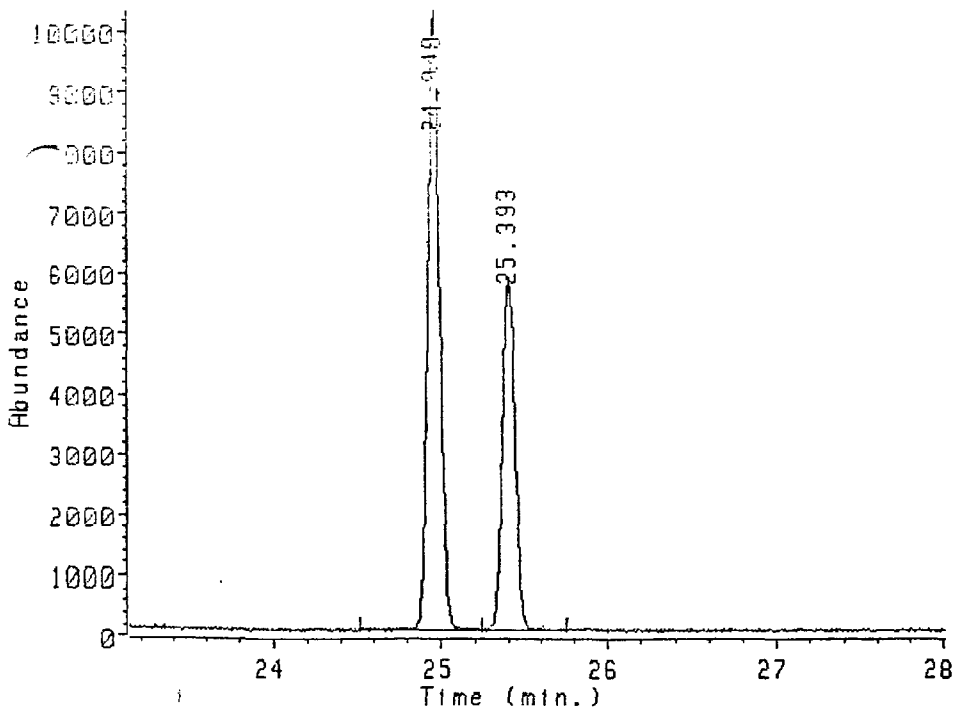
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 1

020055

Ion 333.80 amu. from DATA:ICALB02A.D



Ion 333.80 amu. from DATA:ICALB02A.D
 CL CALIBRATION SOLN I

03221079

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.948	BU	0.139	508121	24.512	25.242
2	25.393	UB	0.130	303039	25.242	25.749

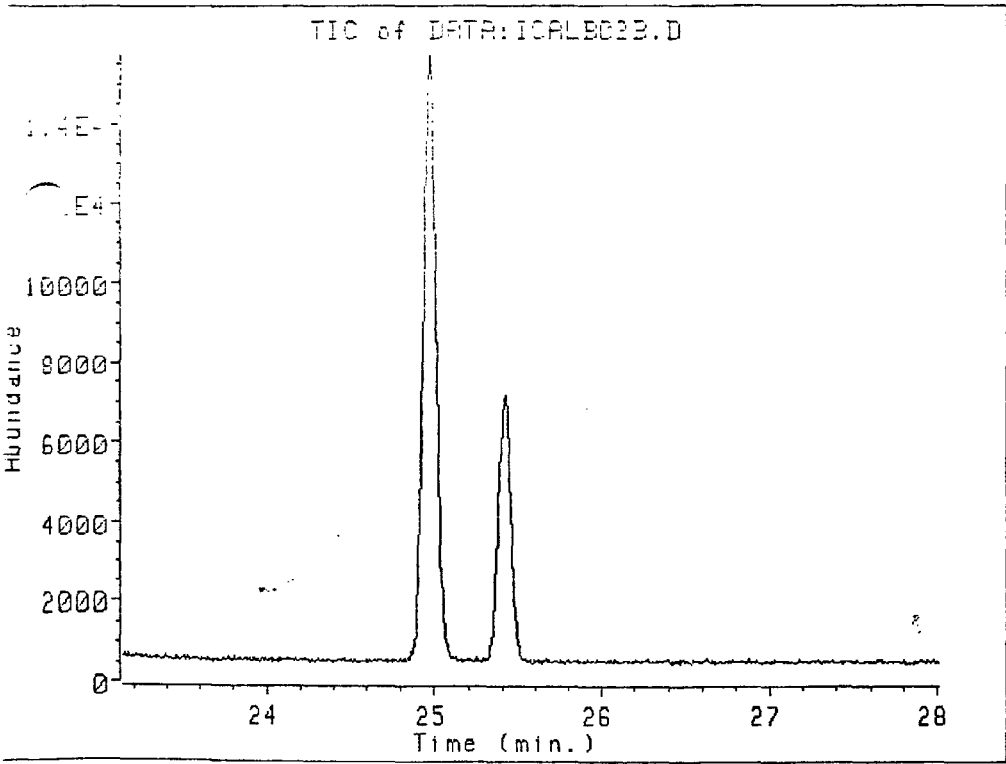
Data file: DATA:ICALE02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : NS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

020054



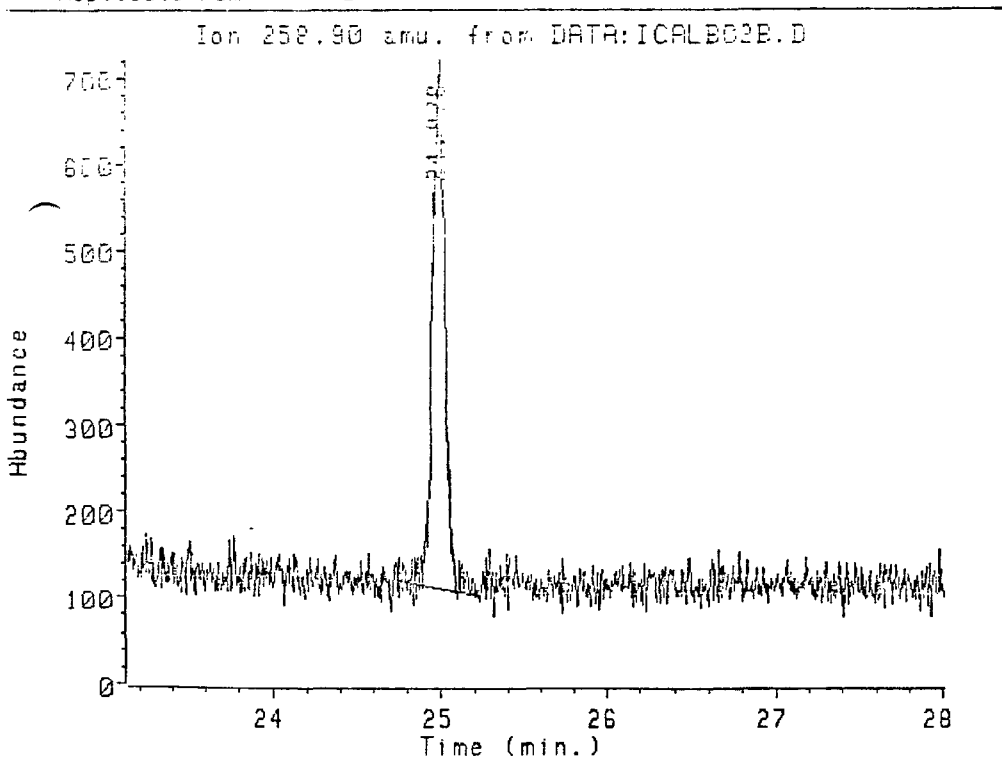
Data file: DATA:ICALB02B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 97 12:11 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 2

020315



Ion 258.90 amu. from DATA:ICALB02B.D
 CLP CALIBRATION SOLN I

03221071

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.119	31638	24.784	25.218

Data file: DATA:ICALB02B.D
 File type: GC / MS DATA FILE

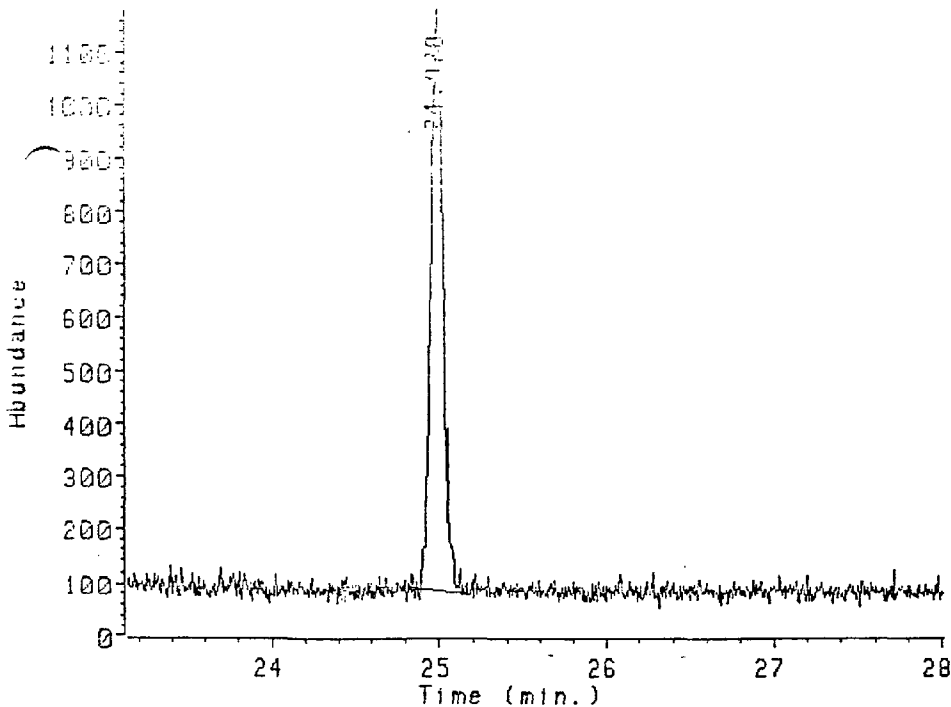
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 2

020356

Ion 319.90 amu. from DATA:ICALB02B.D



Ion 319.90 amu. from DATA:ICALB02B.D
 CLP CALIBRATION SOLN I

03221072

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.136	55207	24.832	25.168

Data file: DATA:ICALB02B.D
 File type: GC / MS DATA FILE

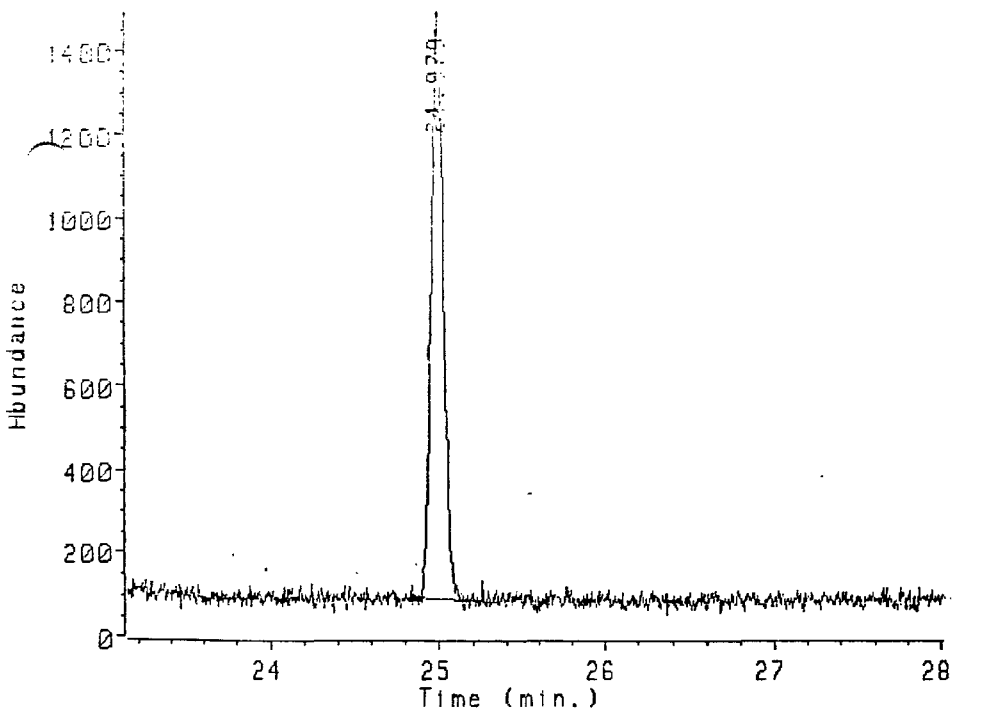
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 2

020557

Ion 321.90 amu. from DATA:ICALB02B.D



Ion 321.90 amu. from DATA:ICALB02B.D
 CL CALIBRATION SOLN I

03221073

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.135	69533	24.832	25.339

Data file: DATA:ICALB02B.D
 File type: GC / MS DATA FILE

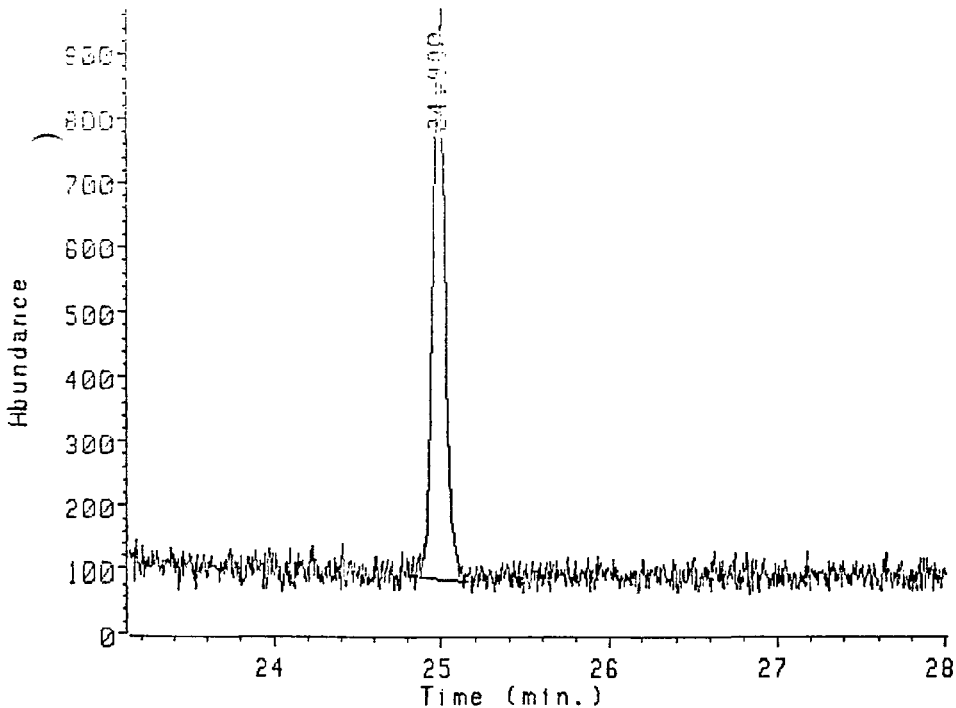
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 3
 Als bottle num : 2
 Replicate num : 3

020058

Ion 327.90 amu. from DATA:ICALB02B.D



Ion 327.90 amu. from DATA:ICALB02B.D
 CL CALIBRATION SOLN I

03221074

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.142	44177	24.808	25.170

Data file: DATA:ICALB029.D
 File type: GC / MS DATA FILE

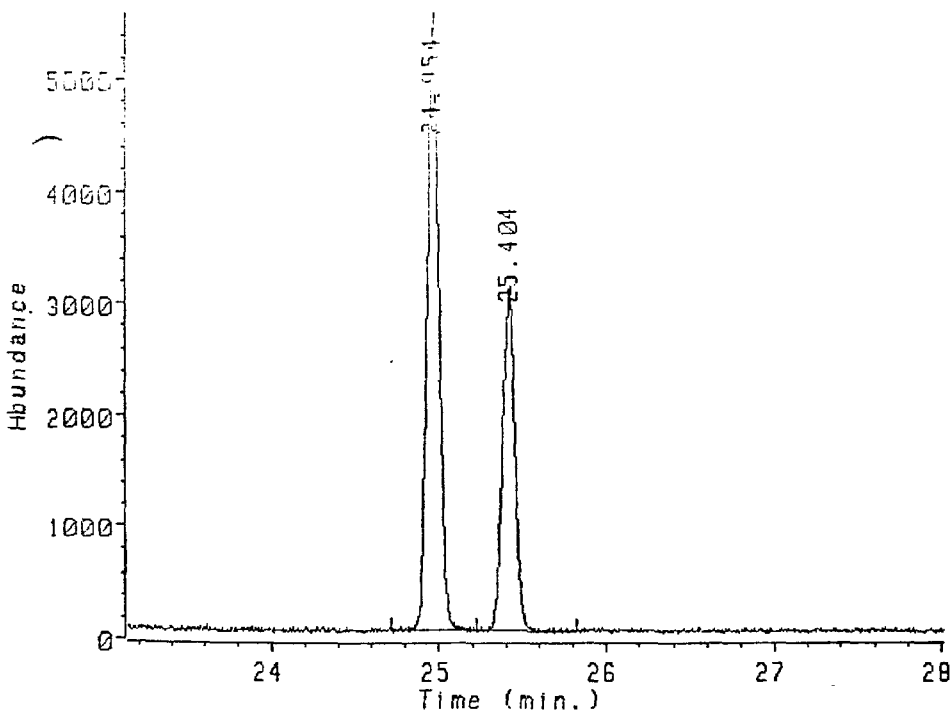
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
 Instrument: MS_F970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 2

020359

Ion 331.80 amu. from DATA:ICALB02B.D



Ion 331.80 amu. from DATA:ICALB02B.D
 CL CALIBRATION SOLN I

03221075

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	BV	0.084	270067	24.712	25.218
2	25.404	VB	0.147	199714	25.218	25.822

Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

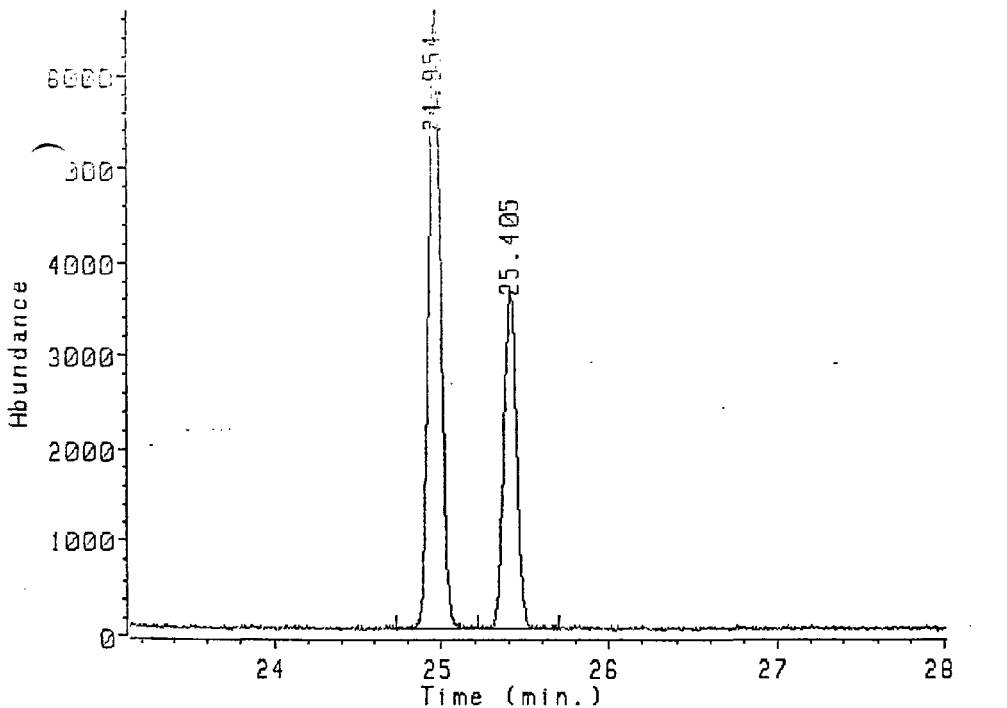
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

020060

Ion 333.60 amu. from DATA:ICALB02B.D



Ion 333.80 amu. from DATA:ICALB02B.D
CLP CALIBRATION SOLN I

03221076

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	UB	0.138	334764	24.736	25.218
2	25.405	UB	0.137	190294	25.218	25.701

Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

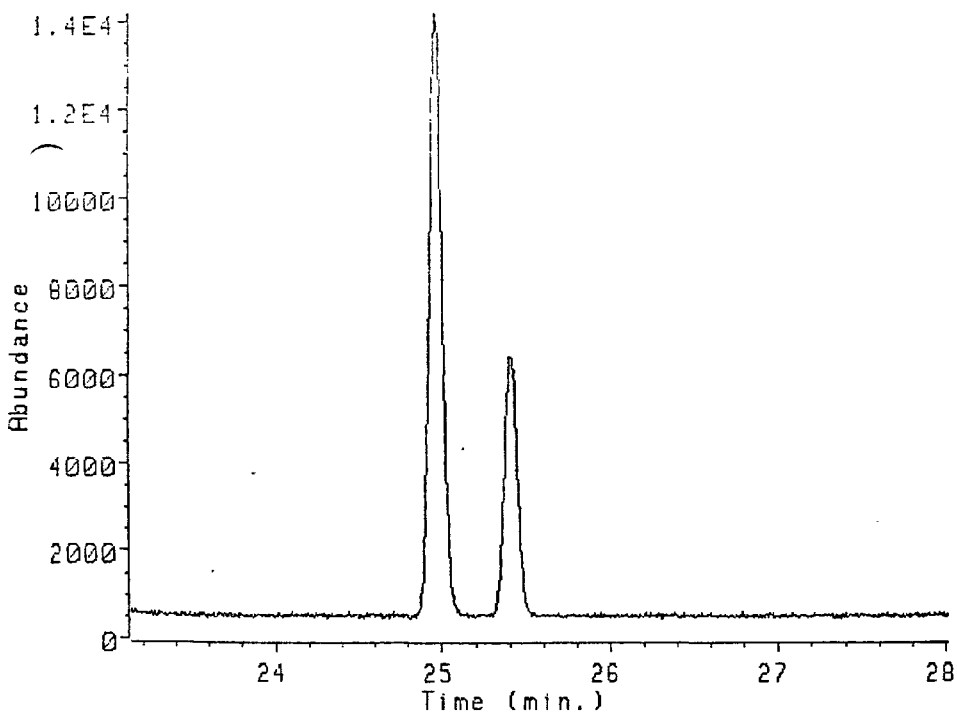
Name Info: CLP CALIARATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

020361

TIC of DATA:ICALB02C.D



03221077

Data file: DATA:ICALB02C.D
 File type: GC / MS DATA FILE

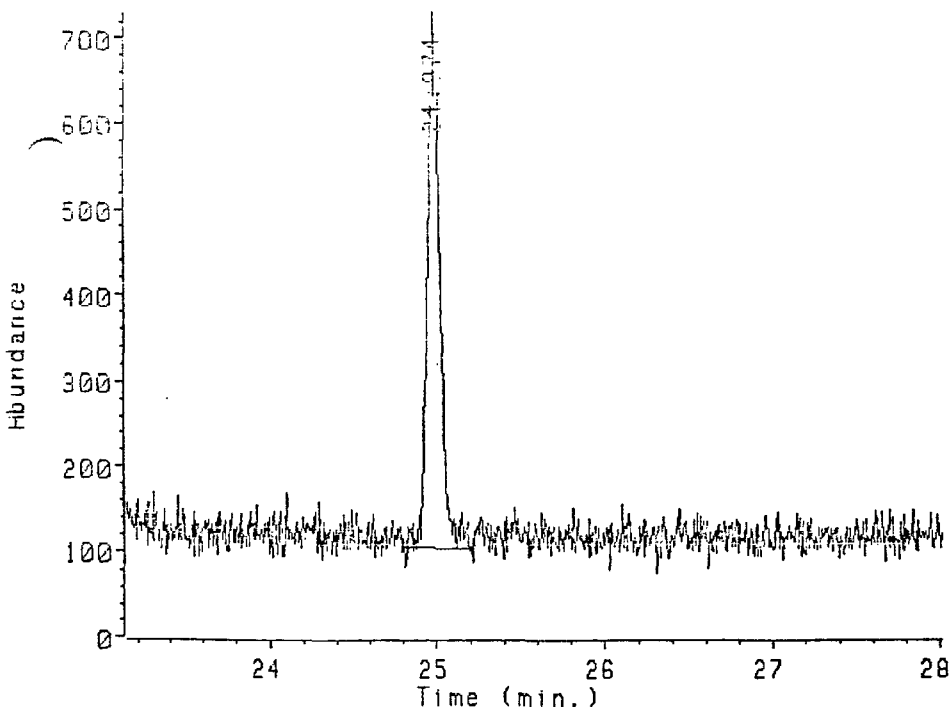
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 3

020:62

Ion 258.90 amu. from DATA:ICALB02C.D



Ion 258.90 amu. from DATA:ICALB02C.D
 CLP CALIBRATION SOLN I

03221078

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.974	BB	0.124	32393	24.784	25.194

Date file: DATA:ICALB02C.D
 File type: GC / MS DATA FILE

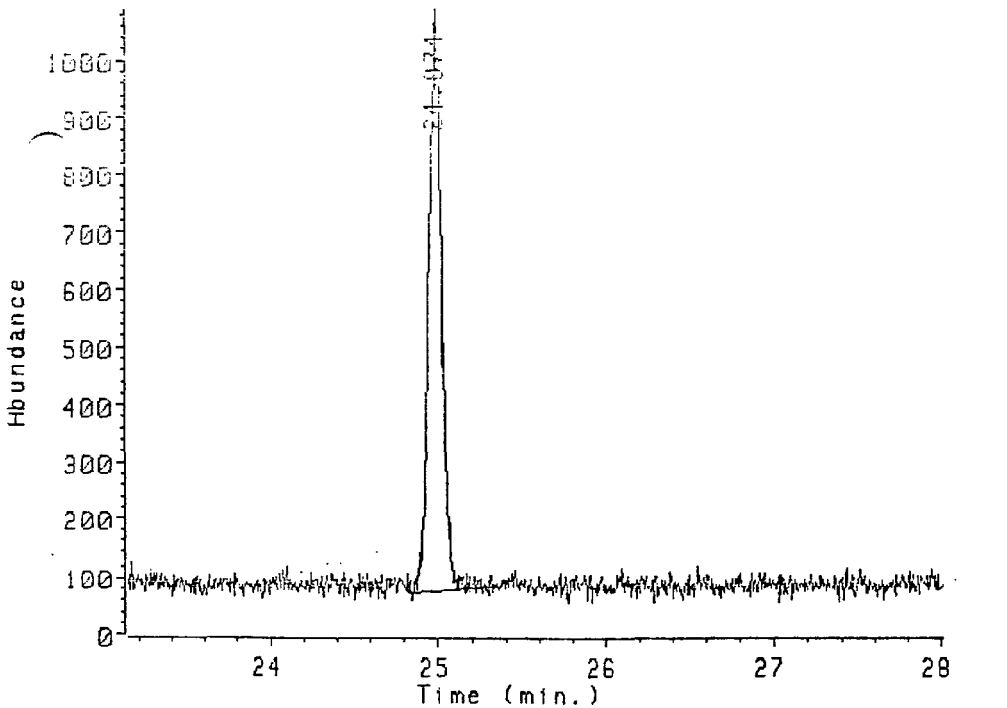
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 3

020063

Ion 319.90 amu. from DATA:ICALB02C.D



Ion 319.90 amu. from DATA:ICALB02C.D
 CLP CALIBRATION SOLN I

03221079

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.974	BU	0.135	52633	24.832	25.314

Data file: DATA:ICALB02C.D
 File type: GC / MS DATA FILE

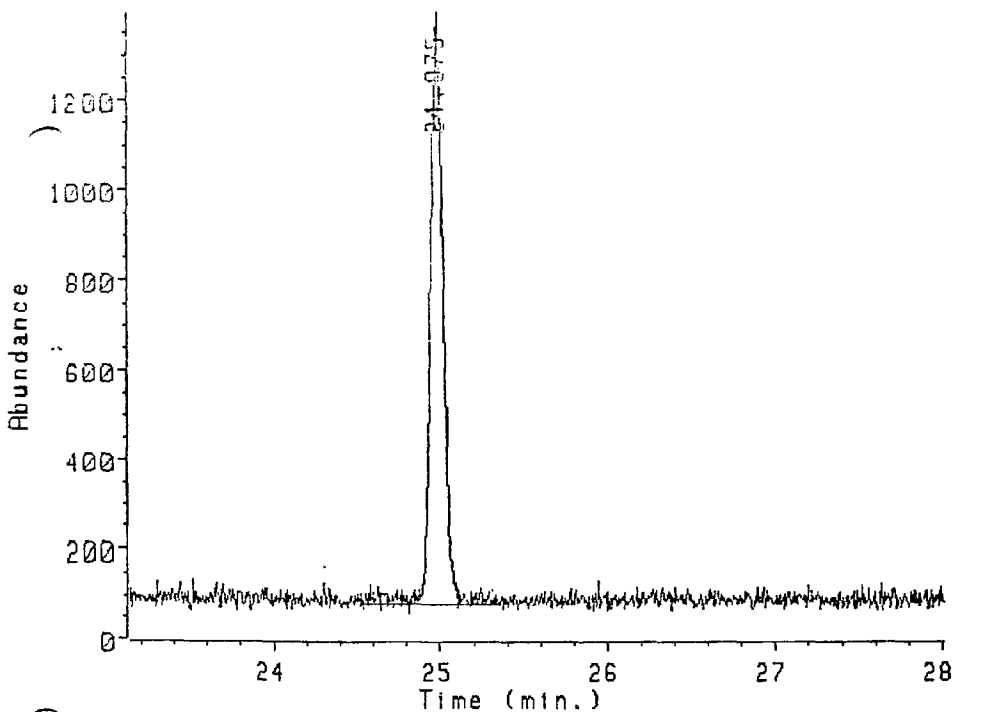
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 3

020764

Ion 321.90 amu. from DATA:ICALB02C.D



Ion 321.90 amu. from DATA:ICALB02C.D
 CLP CALIBRATION SOLN I

03221080

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.141	70447	24.524	25.338

Data file: DATA:ICALB02C.D
 File type: GC / MS DATA FILE

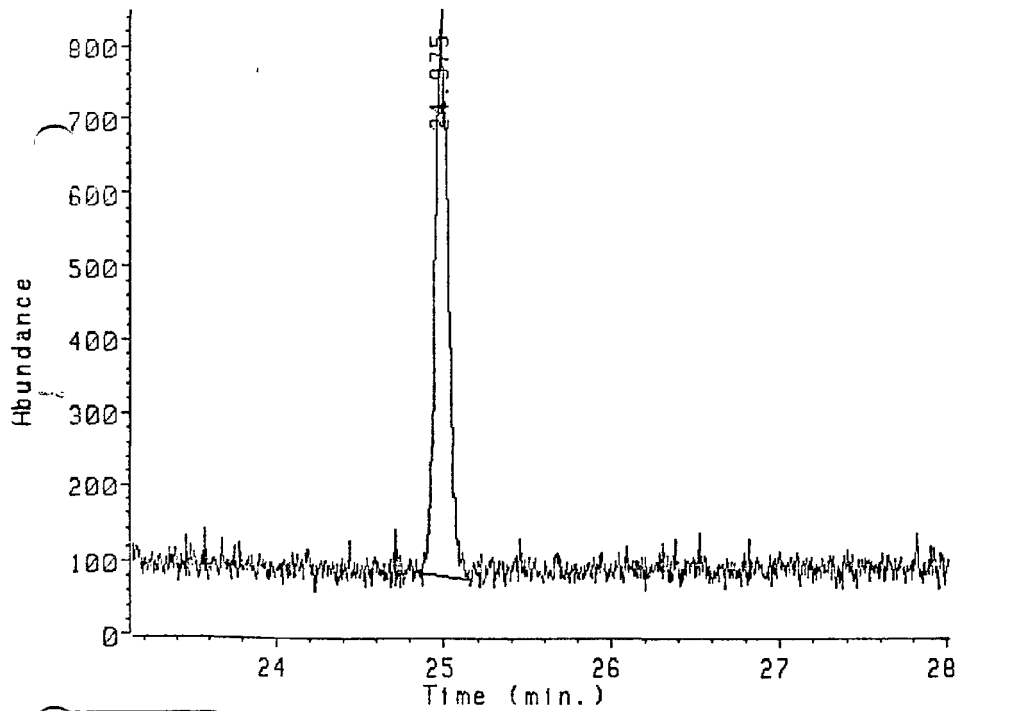
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 3

020165

Ion 327.90 amu. from DATA:ICALB02C.D



Ion 327.90 amu. from DATA:ICALB02C.D
 CLP CALIBRATION SOLN I

03221081

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.136	40204	24.832	25.150

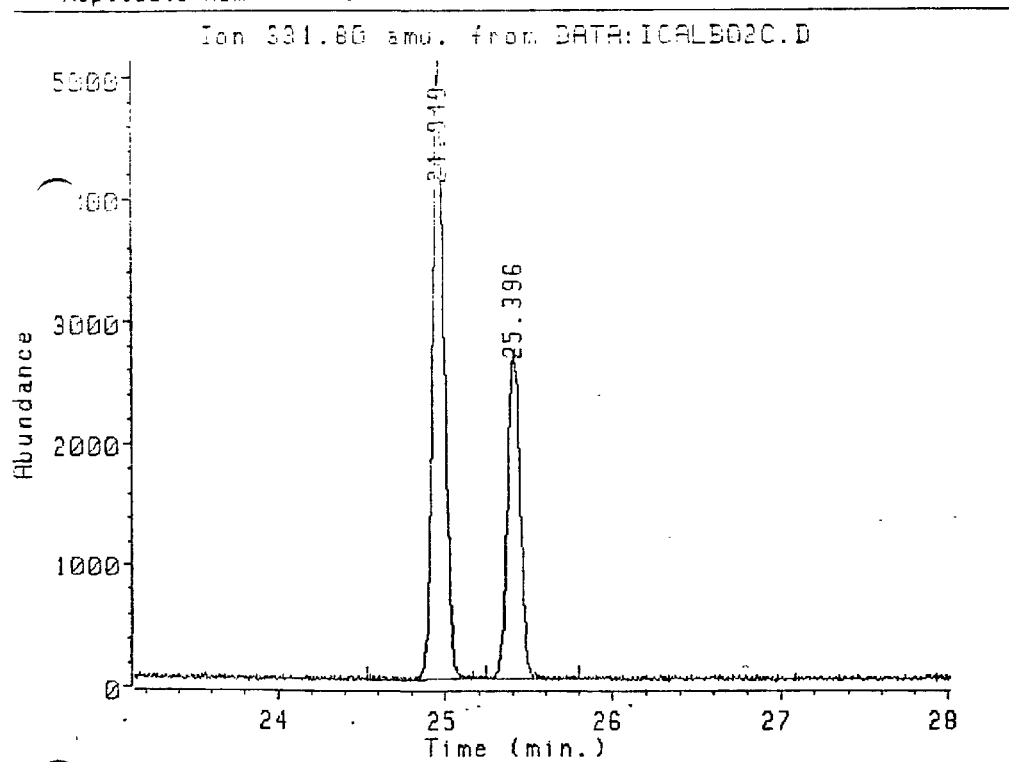
Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

020066



Ion 331.80 amu. from DATA:ICALB02C.D
CLP CALIBRATION SOLN I

03221082

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.949	BU	0.127	245540	24.530	25.242
2	25.396	VB	0.087	140270	25.242	25.797

Data file: DATA:NCAL03C.D
 File type: GC / MS DATA FILE

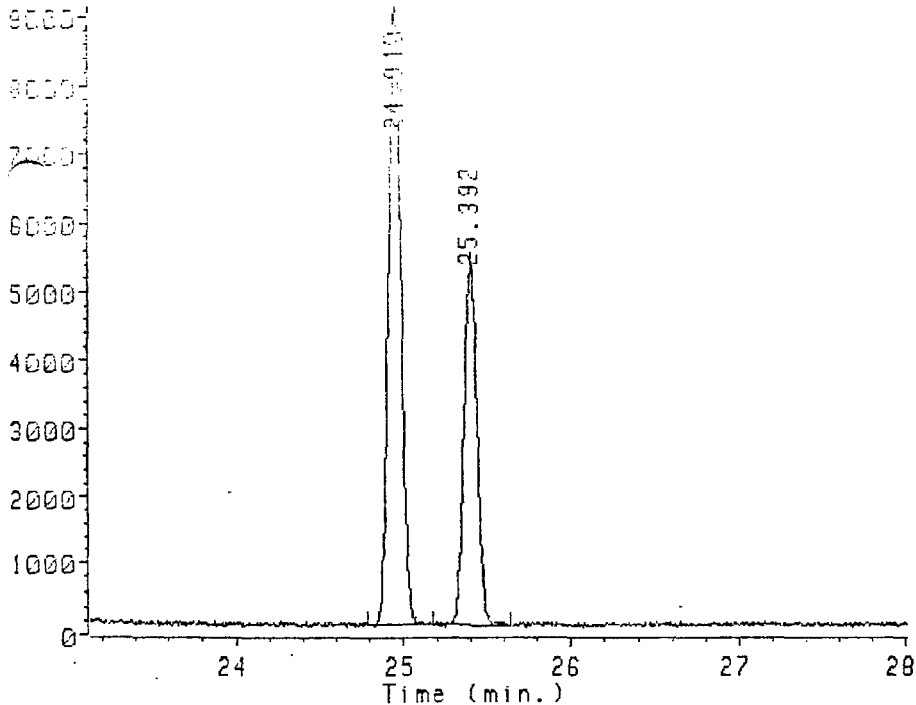
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

020.67

Ion 333.80 amu. from DATA:NCAL03C.D



Ion 333.80 amu. from DATA:NCAL03C.D
 CLP CALIBRATION SOLN III

03221083

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.940	BV	0.087	455495	24.784	25.179
2	25.392	PB	0.124	279459	25.179	25.638

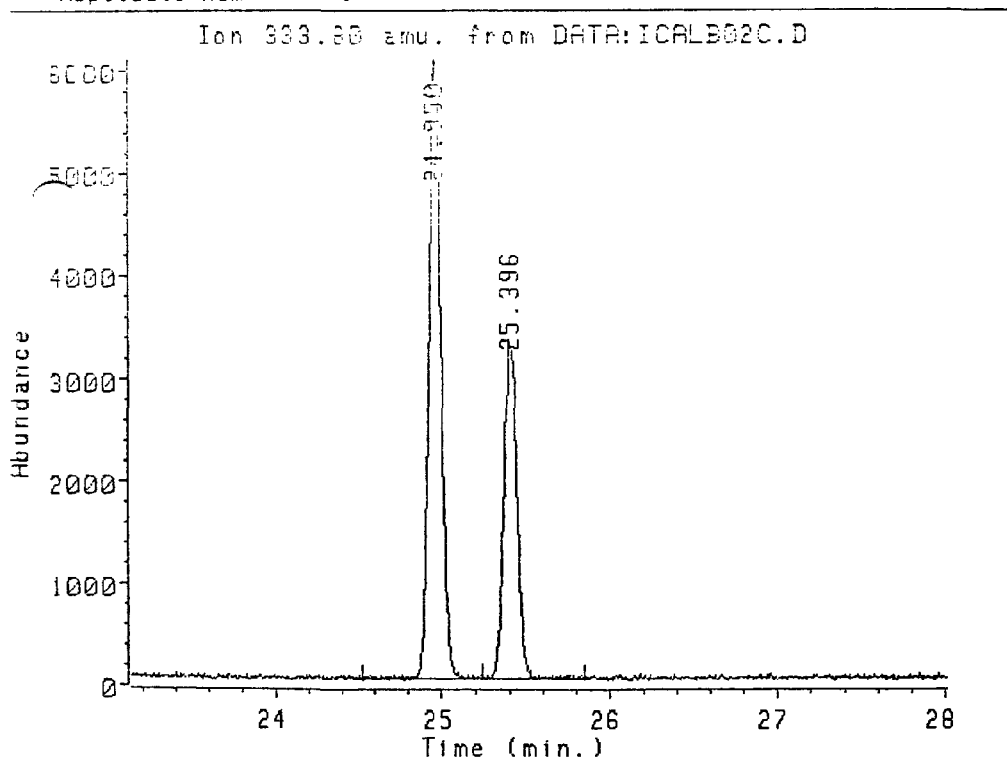
Data file: DATA:ICALB02C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 3

020163



Ion 333.80 amu. from DATA:ICALB02C.D
 CLP CALIBRATION SOLN I

03221084

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.950	BU	0.141	304190	24.524	25.242
2	25.396	UB	0.089	172777	25.242	25.845

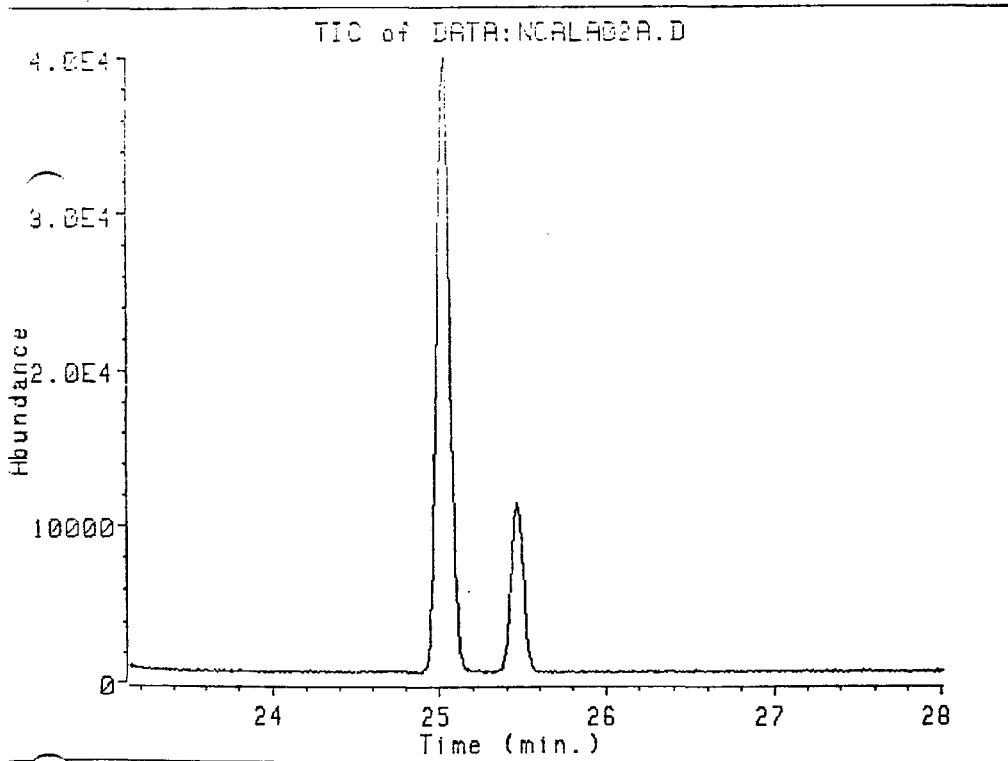
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

020169



Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

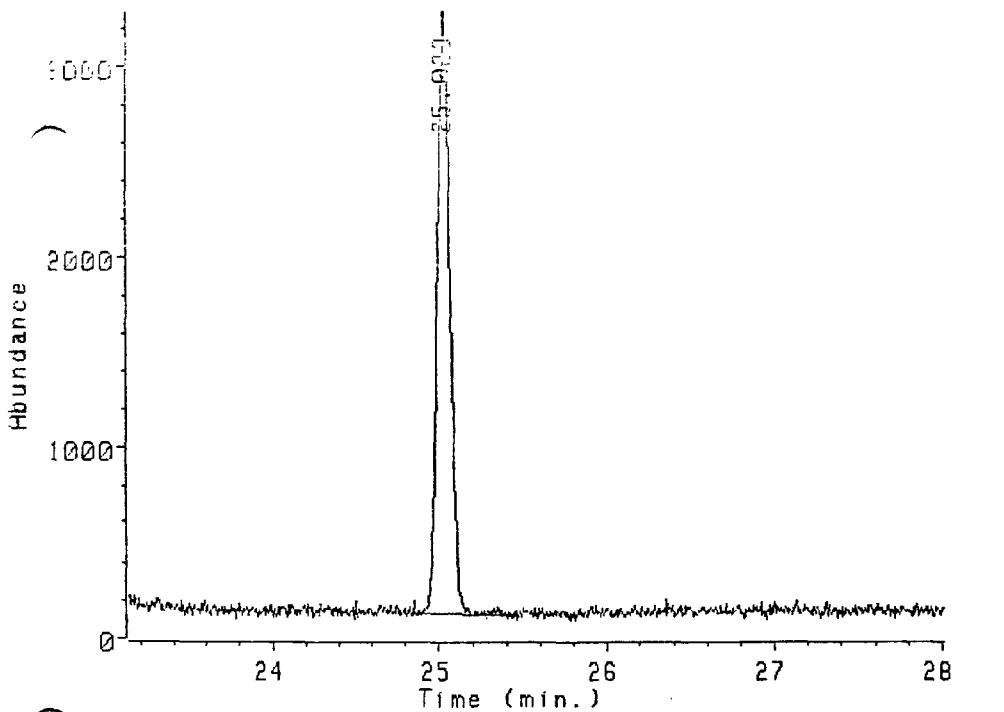
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

020170

Ion 258.90 amu. from DATA:NCALA02A.D



Ion 258.90 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

03221066

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.023	BB	0.133	167049	24.856	25.436

Data file: DATA:NCALA02A.D
 File type: GC / MS DATA FILE

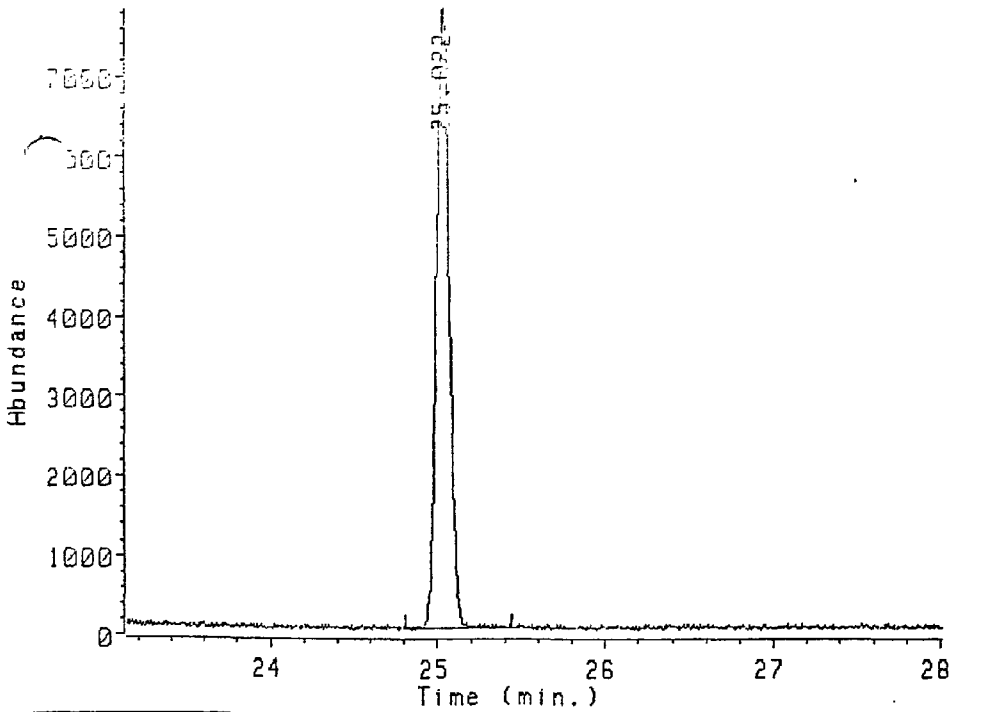
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 1

020071

Ion 319.90 amu. from DATA:NCALAB2A.D



Ion 319.90 amu. from DATA:NCALA02A.D
 ALIBRATION SOLN II

03221087

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.022	BB	0.142	421706	24.808	25.436

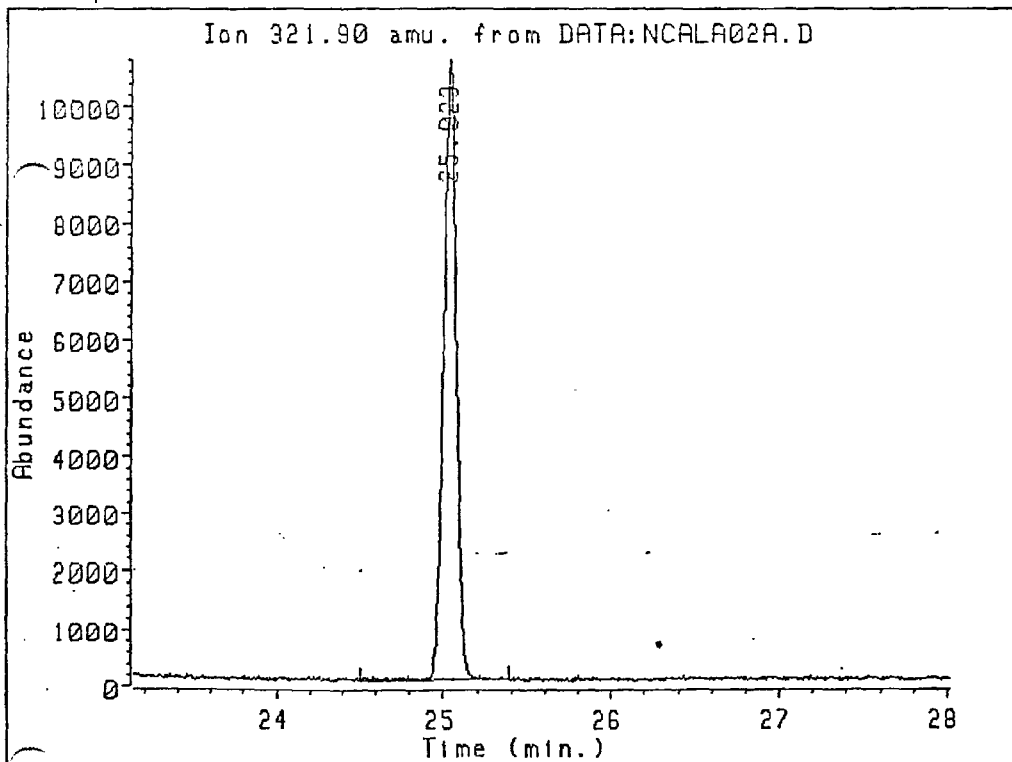
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

020372



321.90 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

03221088

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.023	BB	0.132	555954	24.501	25.387

Data file: DATA:NCALA02A.D
 File type: GC / MS DATA FILE

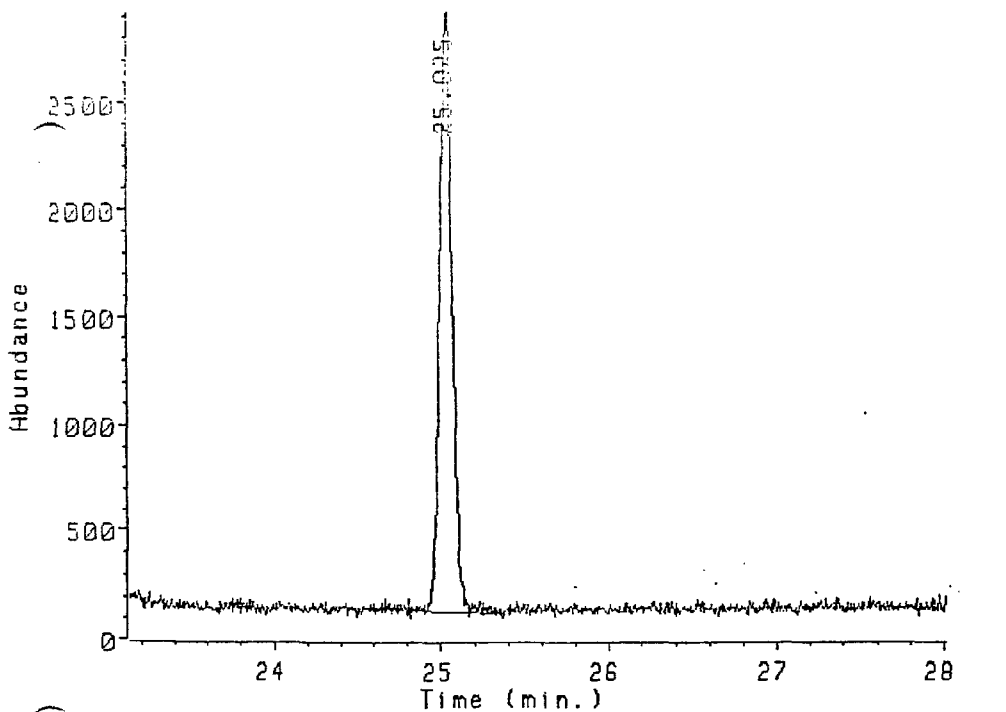
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 1

020173

Ion 327.90 amu. from DATA:NCALA02A.D



Ion 27.90 amu. from DATA:NCALA02A.D
 CLP CALIBRATION SOLN II

03221089

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.025	BV	0.128	147075	24.808	25.363

Data file: DATA:NCALA02A.D
 File type: GC / MS DATA FILE

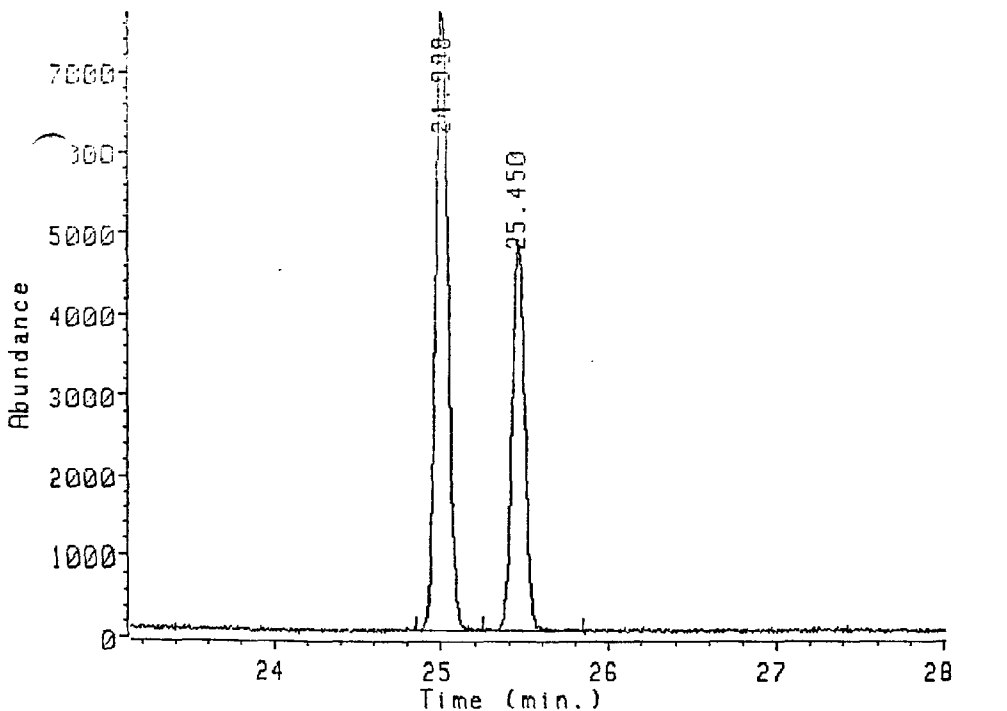
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 1

020074

Ion 331.80 amu. from DATA:NCALA02A.D



Ion 331.80 amu. from DATA:NCALA02A.D
 CLP CALIBRATION SOLN II

03221090

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.998	BV	0.132	401101	24.856	25.247
2	25.450	PB	0.140	253790	25.247	25.846

Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

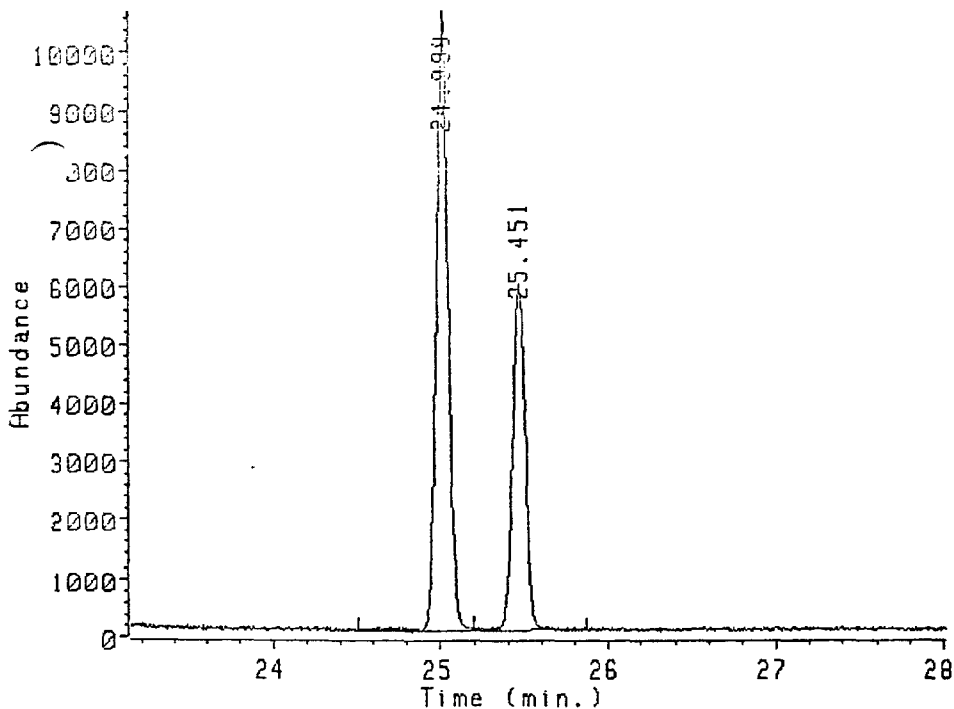
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

020075

Ion 333.80 amu. from DATA:NCALA02A.D



Ion 333.80 amu. from DATA:NCALA02A.D
CL CALIBRATION SOLN II

03221091

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.999	BU	0.135	515970	24.501	25.194
2	25.451	UB	0.130	311433	25.194	25.870

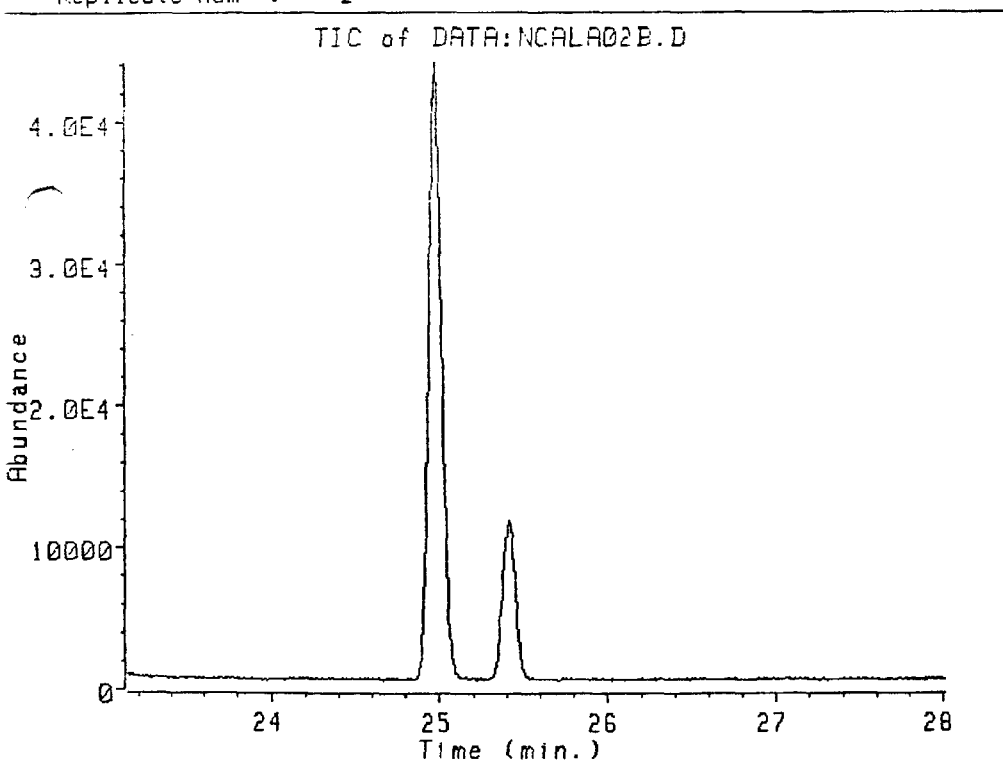
Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

020.76



03221092

Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

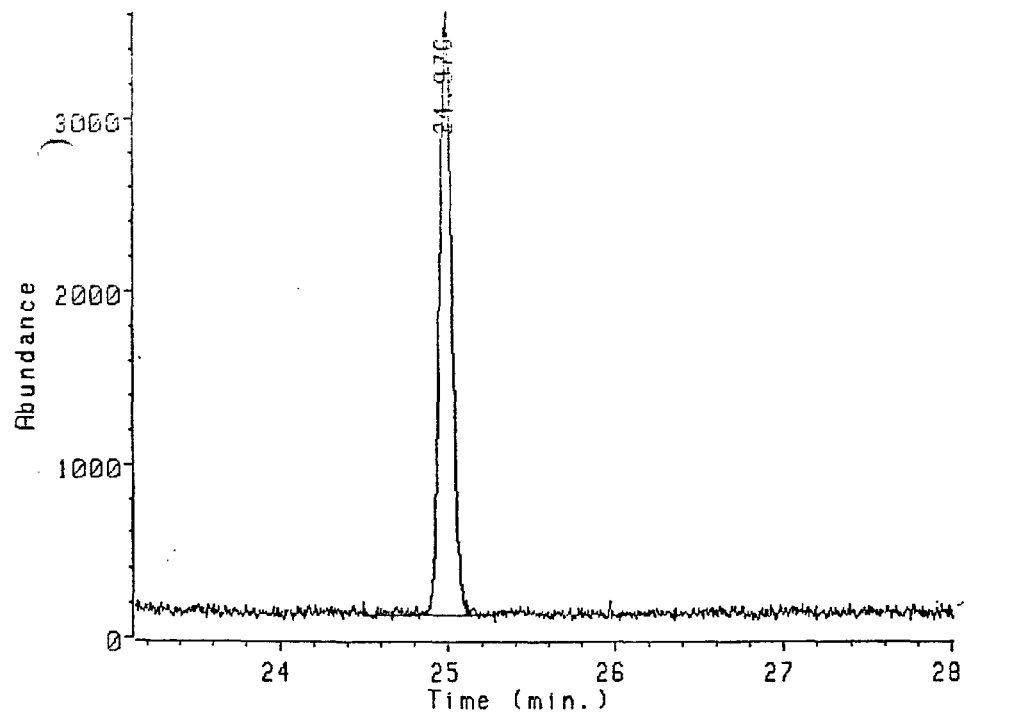
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

020577

Ion 258.90 amu. from DATA:NCALA02B.D



Ion 258.90 amu. from DATA:NCALA02B.D
 CL CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.123	178879	24.497	25.266

03221093

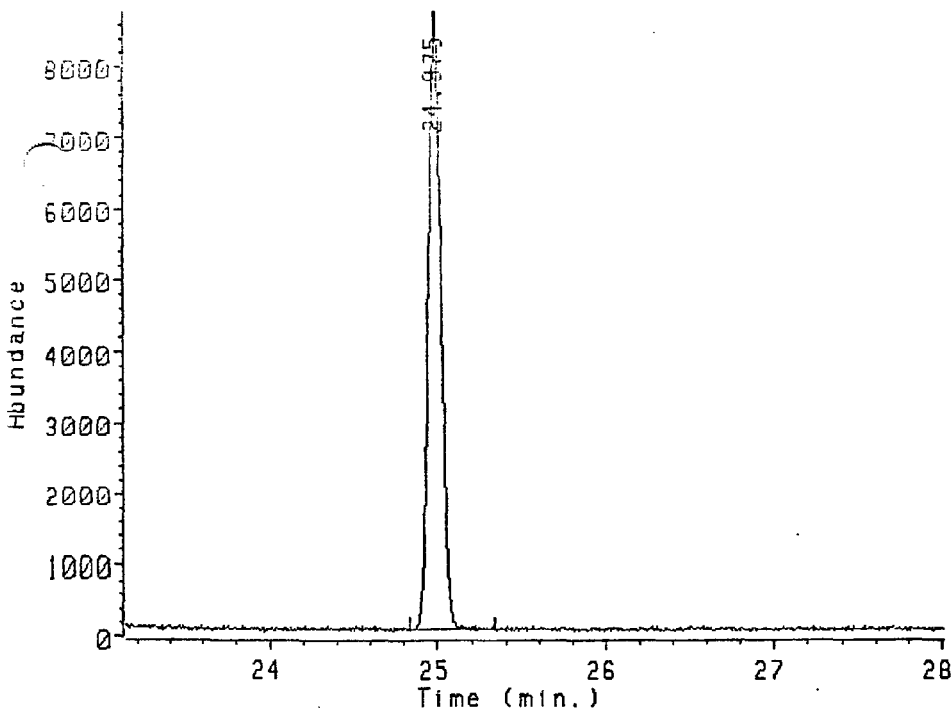
Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

Ion 319.90 amu. from DATA:NCALA02B.D



Ion 319.90 amu. from DATA:NCALA02B.D
 CLP CALIBRATION SOLN II

03221094

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.150	446509	24.832	25.339

020078

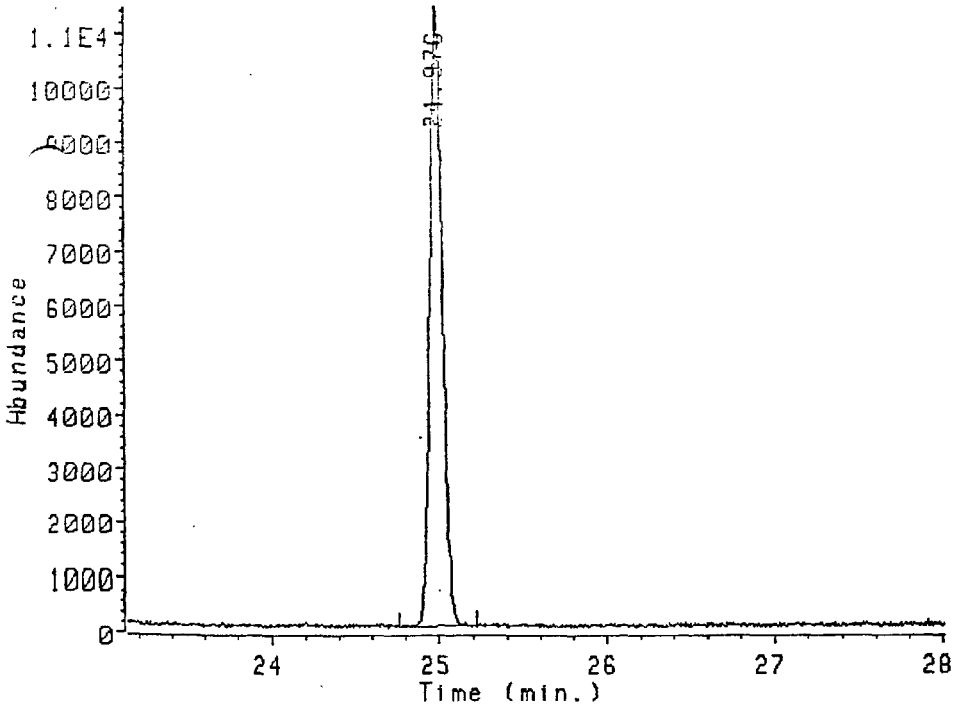
Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

Ion 321.90 amu. from DATA:NCALA02B.D



Ion 321.90 amu. from DATA:NCALA02B.D
 CLP CALIBRATION SOLN II

03221095

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.150	583866	24.760	25.218

020070

Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

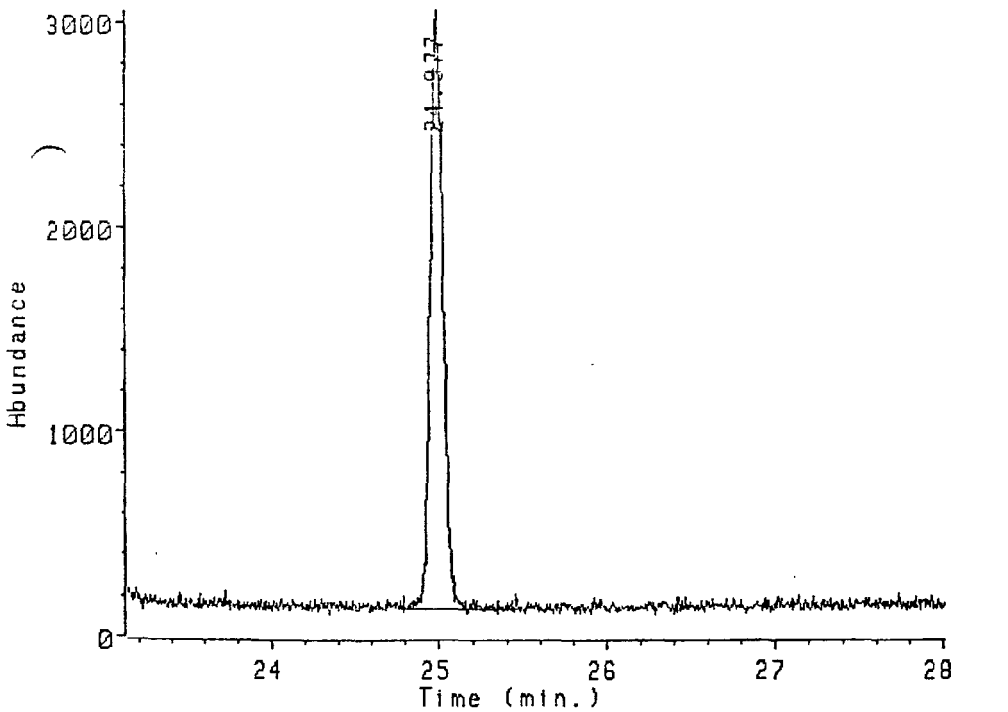
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

020380

Ion 327.90 amu. from DATA:NCALA02B.D



Ion 327.90 amu. from DATA:NCALA02B.D
 CLP CALIBRATION SOLN II

03221096

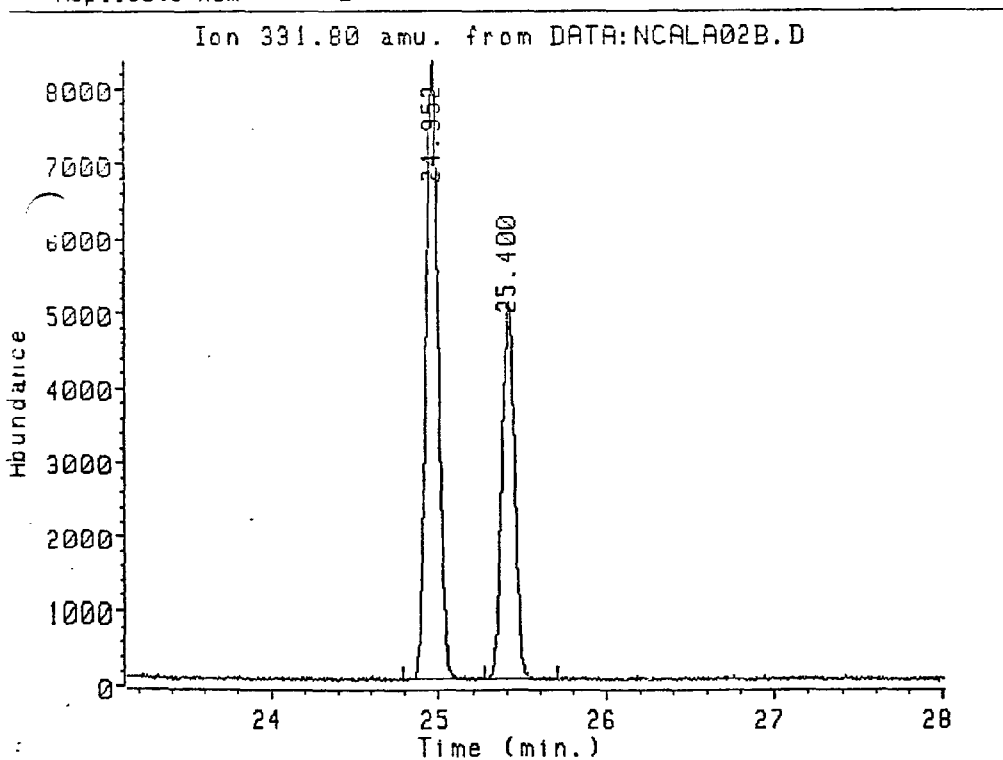
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.977	BB	0.138	154612	24.784	25.483

Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2



Top 331.80 amu. from DATA:NCALA02B.D
 CLP CALIBRATION SOLN II

03221097

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.952	UV	0.141	415810	24.784	25.266
2	25.400	UV	0.132	258862	25.266	25.700

Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

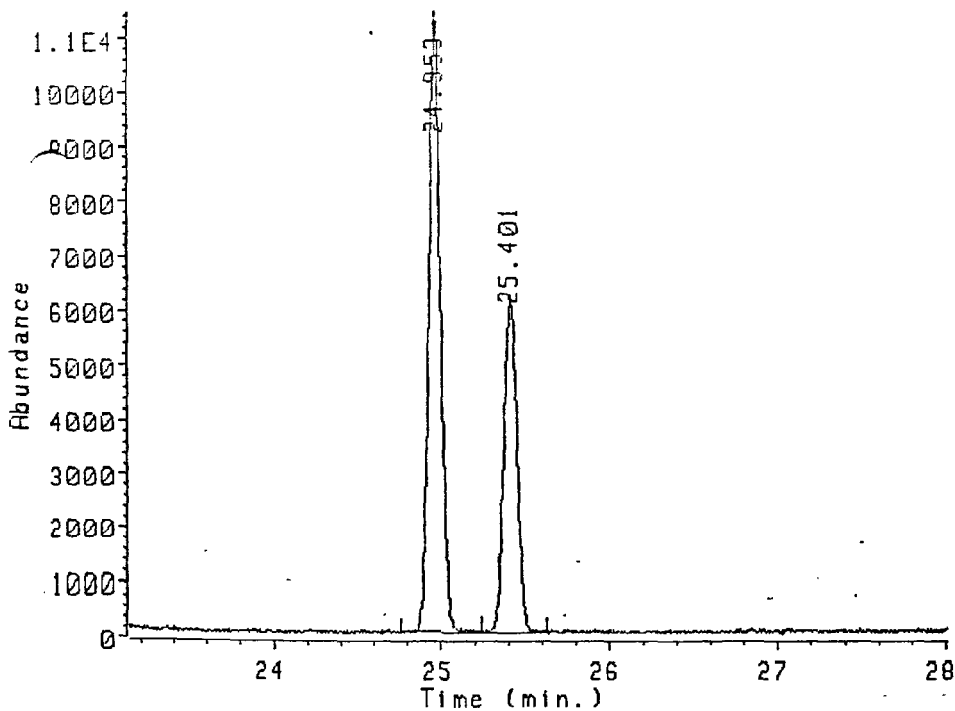
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

020102

Ion 333.80 amu. from DATA:NCALA02B.D



Ion 333.80 amu. from DATA:NCALA02B.D
 CLP CALIBRATION SOLN II

03221098

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.953	BU	0.128	542426	24.760	25.242
2	25.401	VB	0.136	322356	25.242	25.628

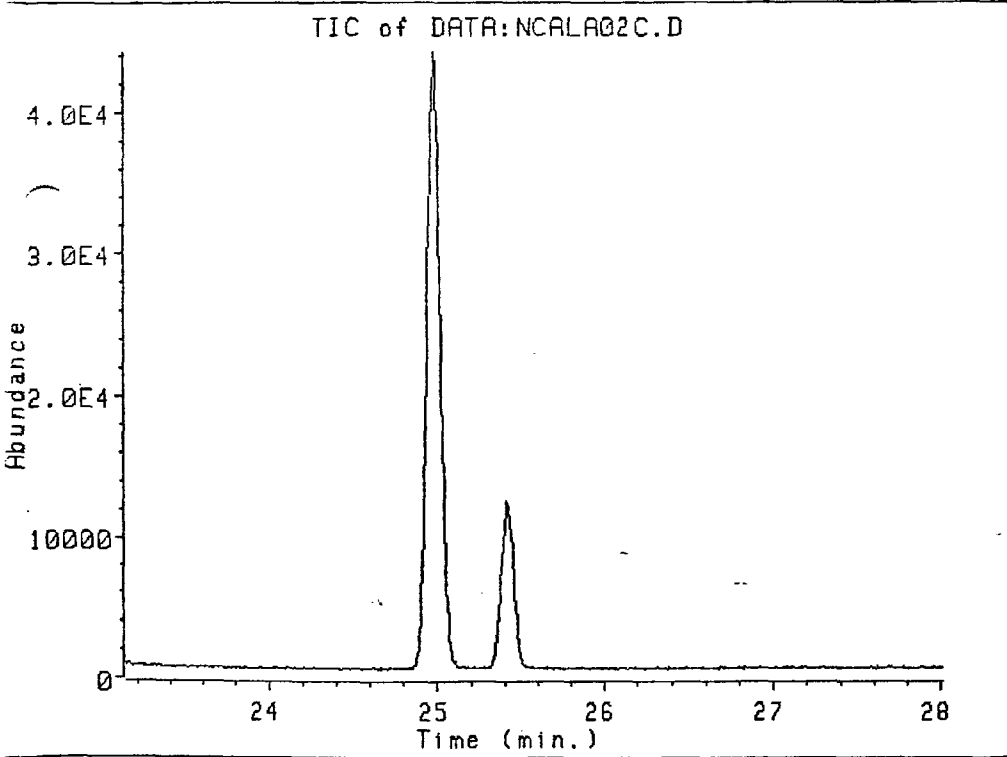
Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

020003



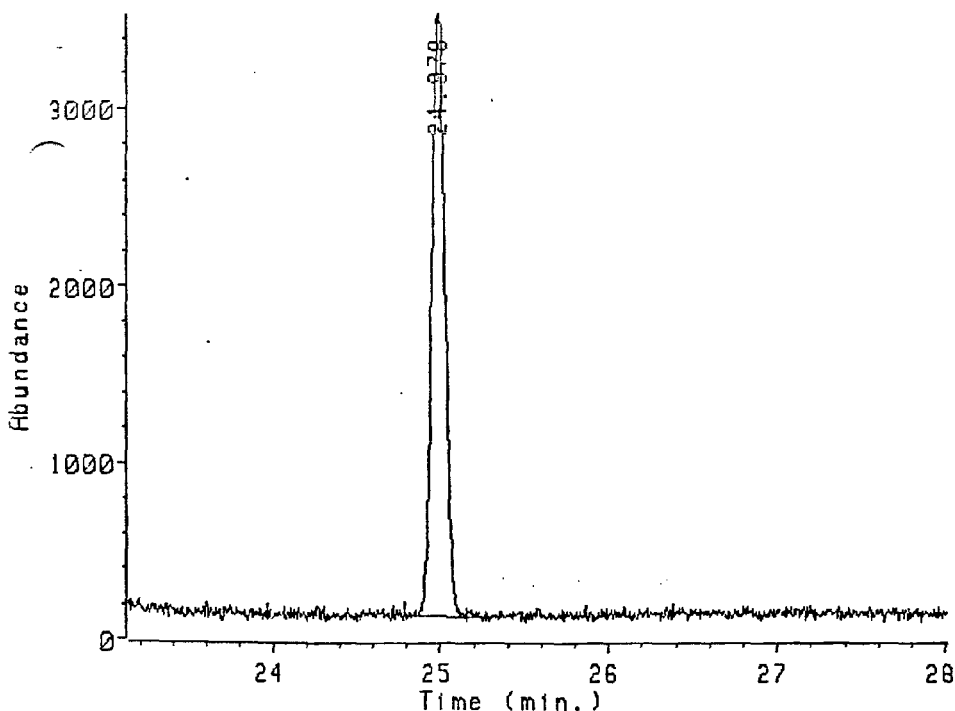
Data file: DATA:NCALA02C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 3

Ion 258.90 amu. from DATA:NCALA02C.D



Ion 258.90 amu. from DATA:NCALA02C.D
 CLP CALIBRATION SOLN II

03221100

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.130	184844	24.784	25.290

Data file: DATA:NCALA02C.D
 File type: GC / MS DATA FILE

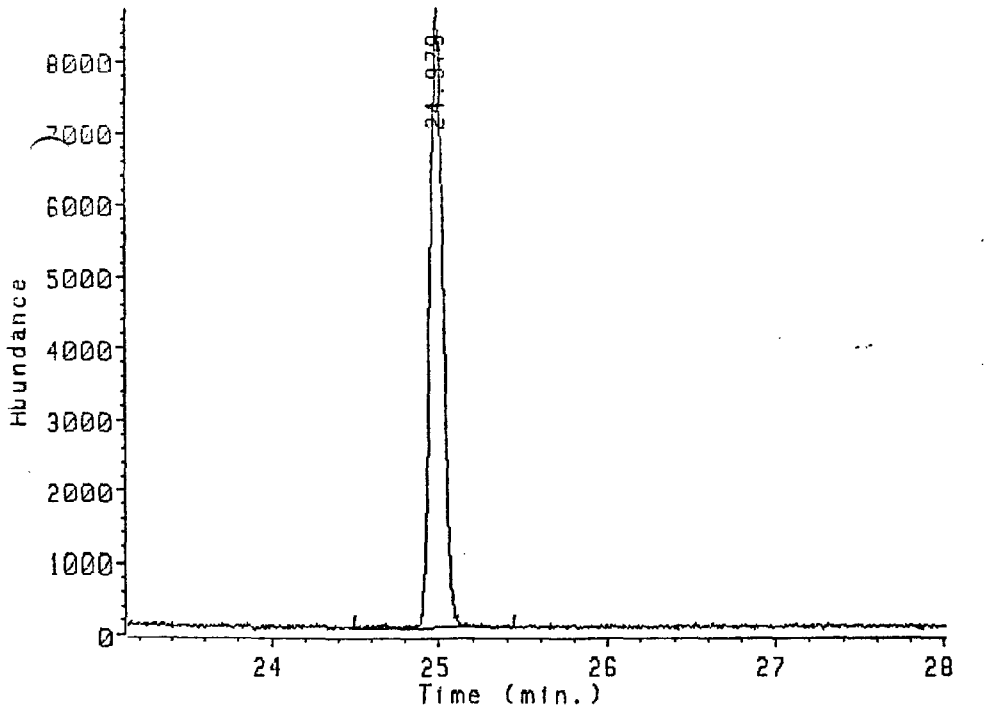
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 3

020105

Ion 319.90 amu. from DATA:NCALA02C.D



Ion 319.90 amu. from DATA:NCALA02C.D
 CL CALIBRATION SOLN II

03221101

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.149	465248	24.497	25.435

Data file: DATA:NCALA02C.D
 File type: GC / MS DATA FILE

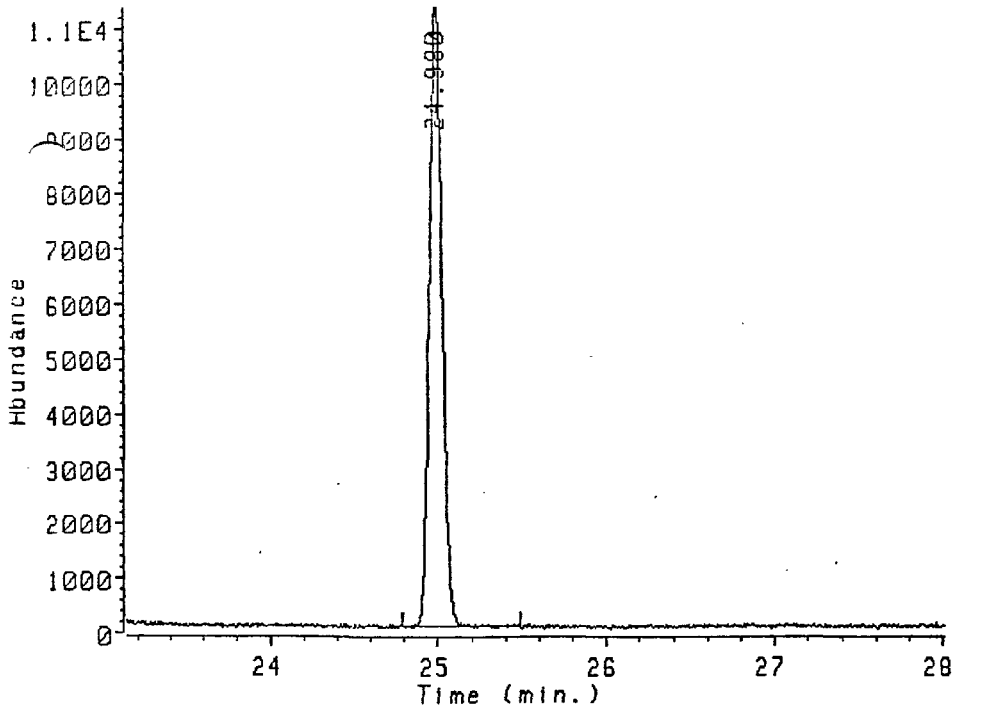
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 3

020386

Ion 321.90 amu. - from DATA:NCALA02C.D



Ion 321.90 amu. from DATA:NCALA02C.D
 CLP CALIBRATION SOLN II

03221102

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.149	597732	24.784	25.483

Data file: DATA:NCALA02C.D
 File type: GC / MS DATA FILE

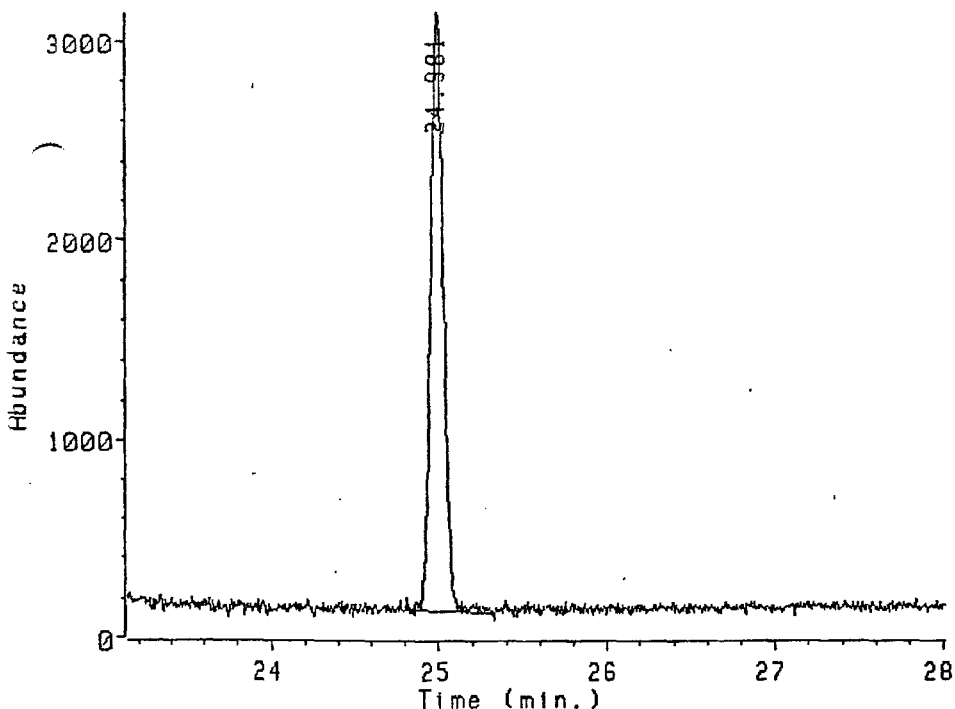
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 3

020387

Ion 327.90 amu. from DATA:NCALA02C.D



Ion 327.90 amu. from DATA:NCALA02C.D
 CL CALIBRATION SOLN II

03221103

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.981	BV	0.135	158244	24.808	25.314

Data file: DATA:NCALA02C.D
 File type: GC / MS DATA FILE

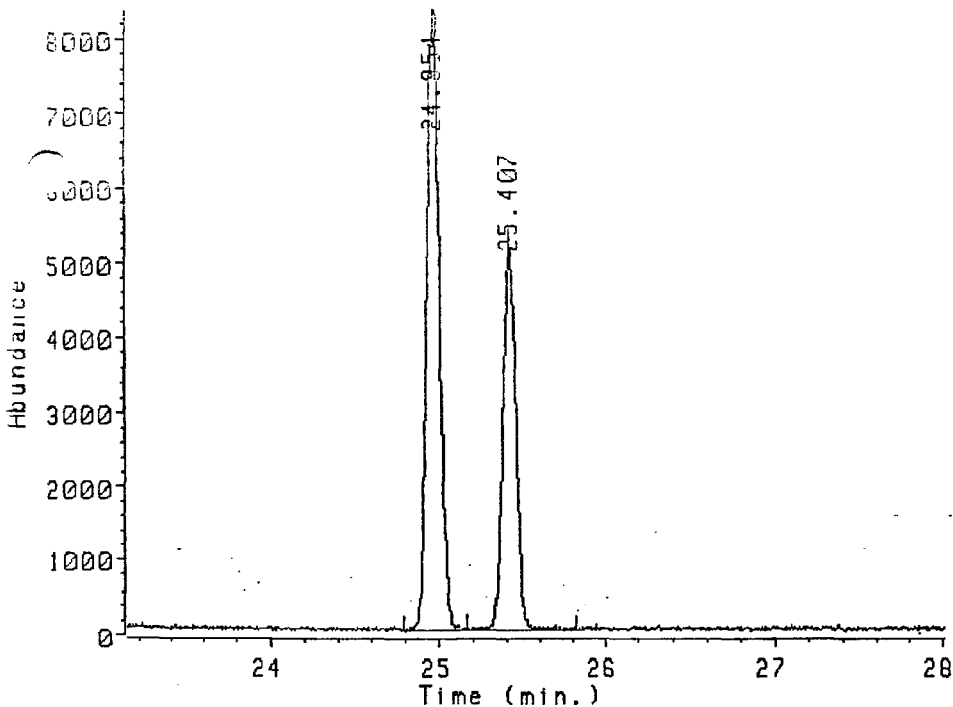
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 3

020108

Ion 331.80 amu. from DATA:NCALA02C.D



Ion 331.80 amu. from DATA:NCALA02C.D
 CLP CALIBRATION SOLN II

03221104

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	BU	0.144	436747	24.784	25.170
2	25.407	UB	0.152	270270	25.170	25.821

Data file: DATA:NCALA02C.D
 File type: GC / MS DATA FILE

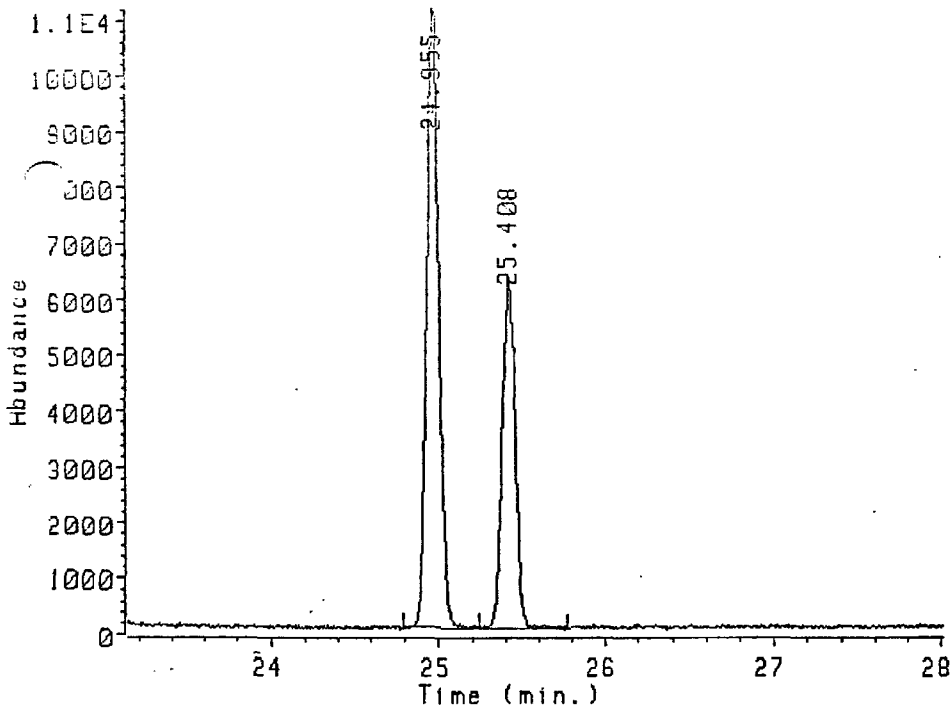
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 3

020109

Ion 333.80 amu. from DATA:NCALA02C.D



Ion 333.80 amu. from DATA:NCALA02C.D
 CLP CALIBRATION SOLN II

03221105

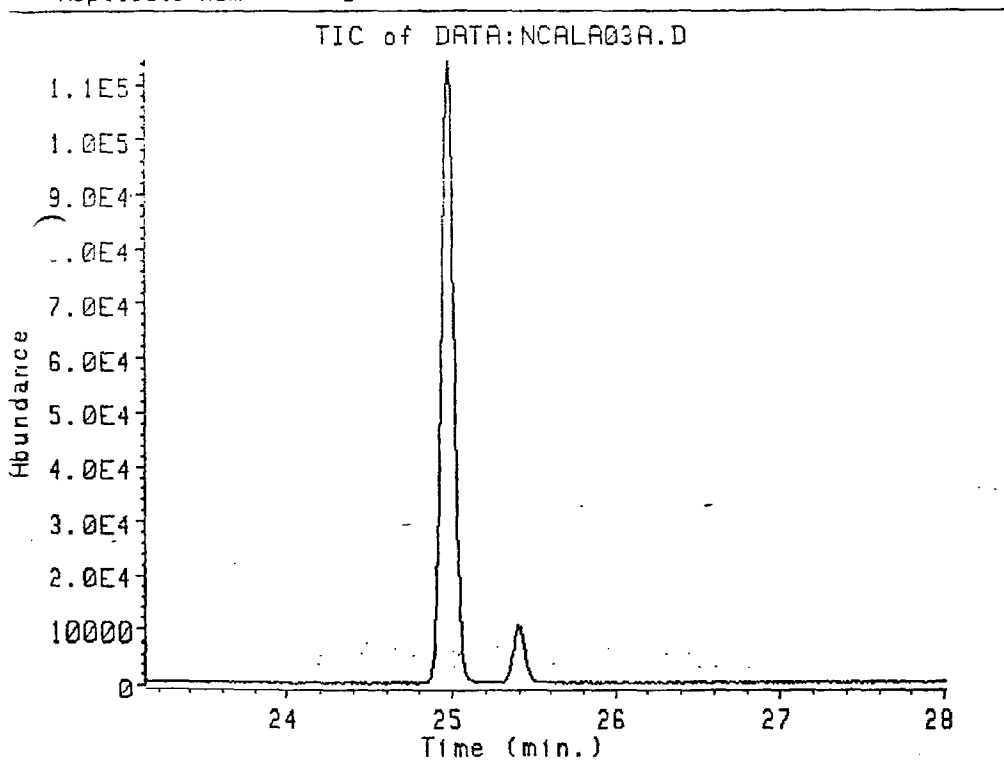
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.955	UV	0.145	557568	24.784	25.242
2	25.408	UV	0.137	328103	25.242	25.773

Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1



020000

03221106

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

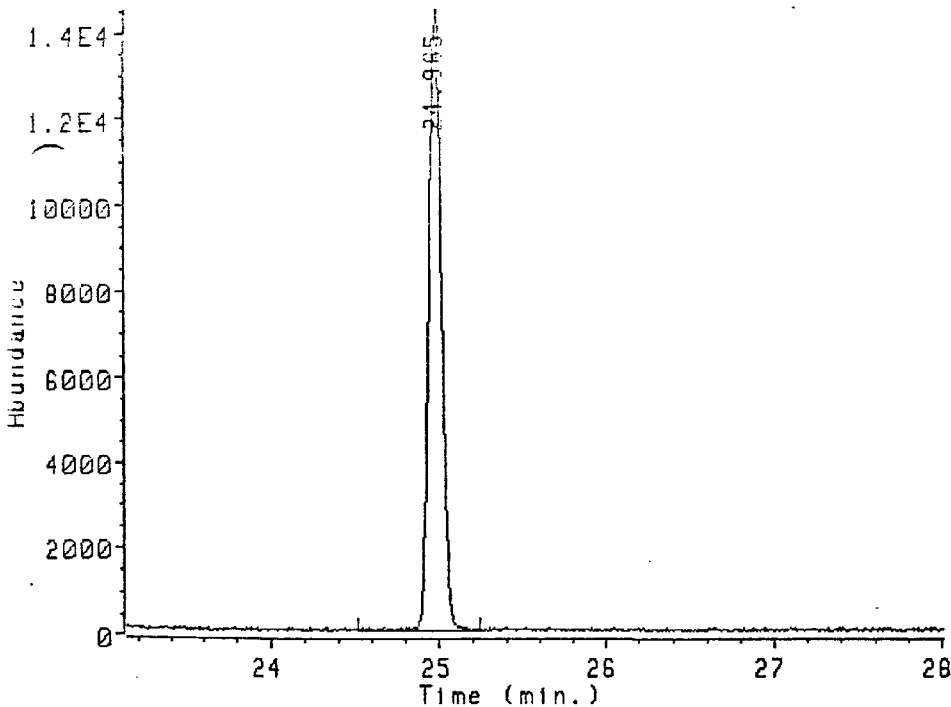
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

020301

Ion 258.90 amu. from DATA:NCALA03A.D



on 258.90 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

03221107

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.965	BU	0.090	761126	24.519	25.242

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

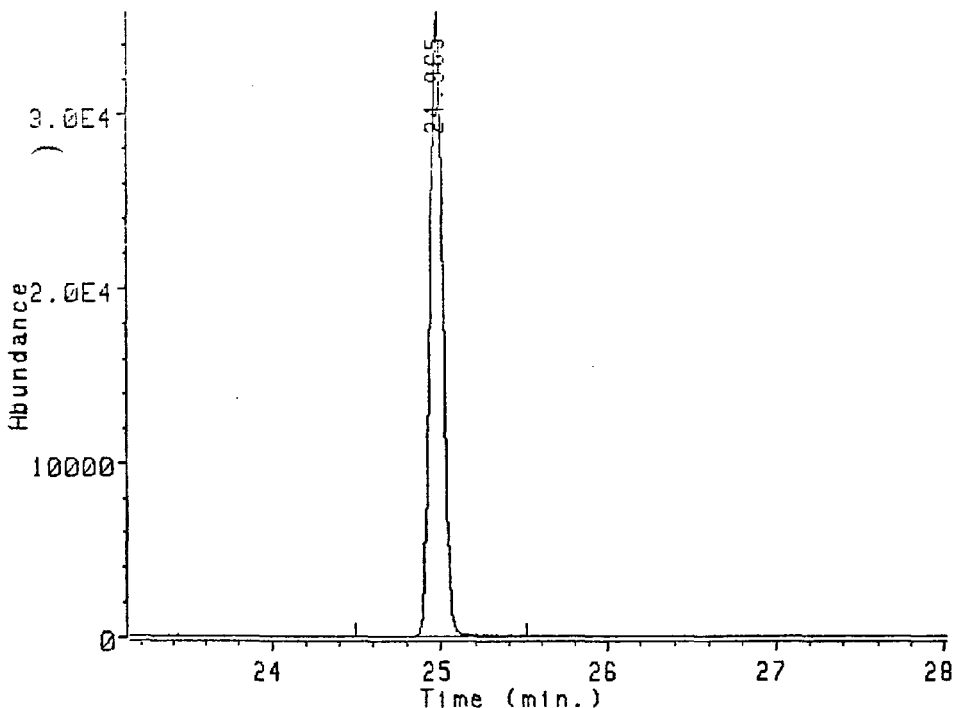
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num. : 3
 Replicate num : 1

020702

Ion 319.90 amu. from DATA:NCALA03A.D



Ion 319.90 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

03221108

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.965	BB	0.090	1874520	24.497	25.508

Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

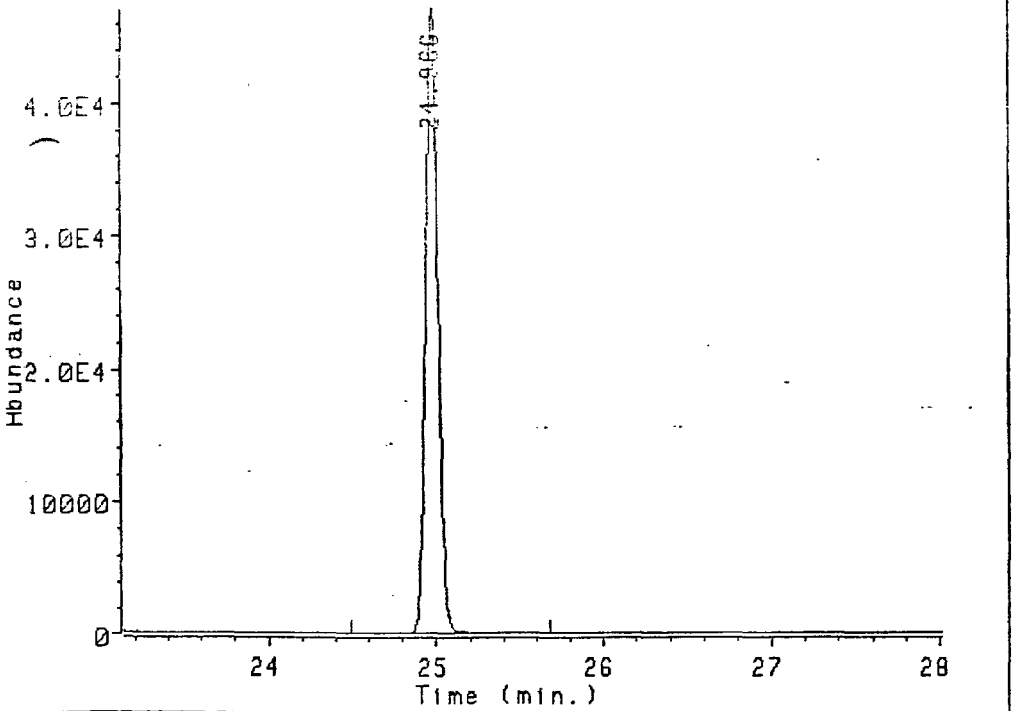
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1

020005

Ion 321.90 amu. from DATA:NCALA03A.D



op 321.90 amu. from DATA:NCALA03A.D
L. ALIBRATION SOLN III

03221109

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.966	BB	0.154	2435132	24.497	25.677

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

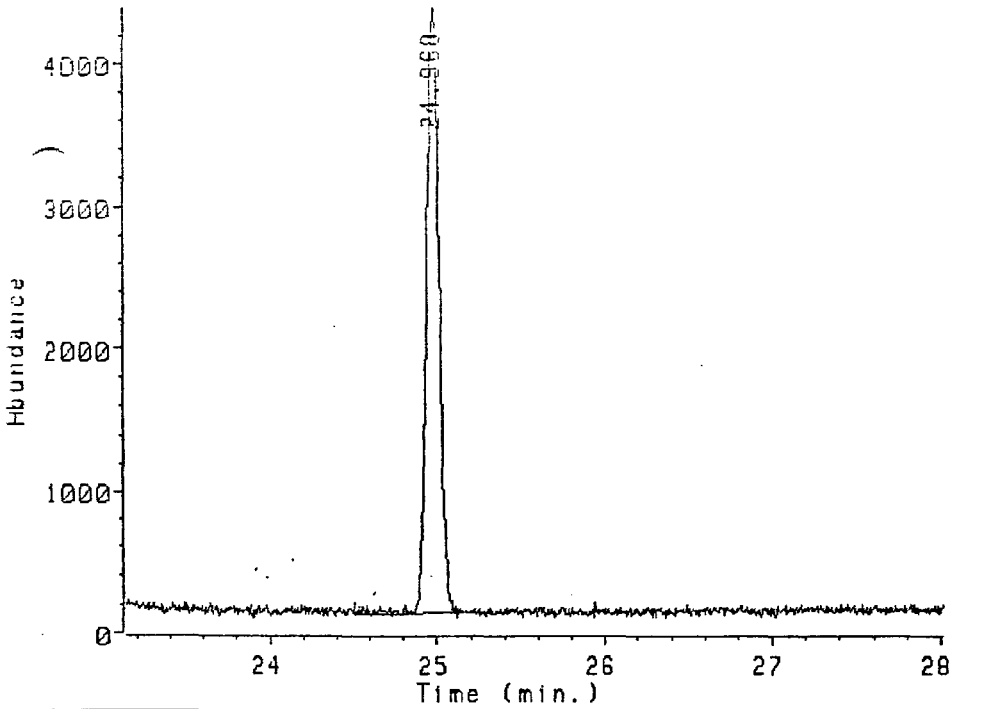
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

020004

Ion 327.90 amu. from DATA:NCALA03A.D



Ion 327.90 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

03221110

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.968	BB	0.140	225524	24.507	25.315

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

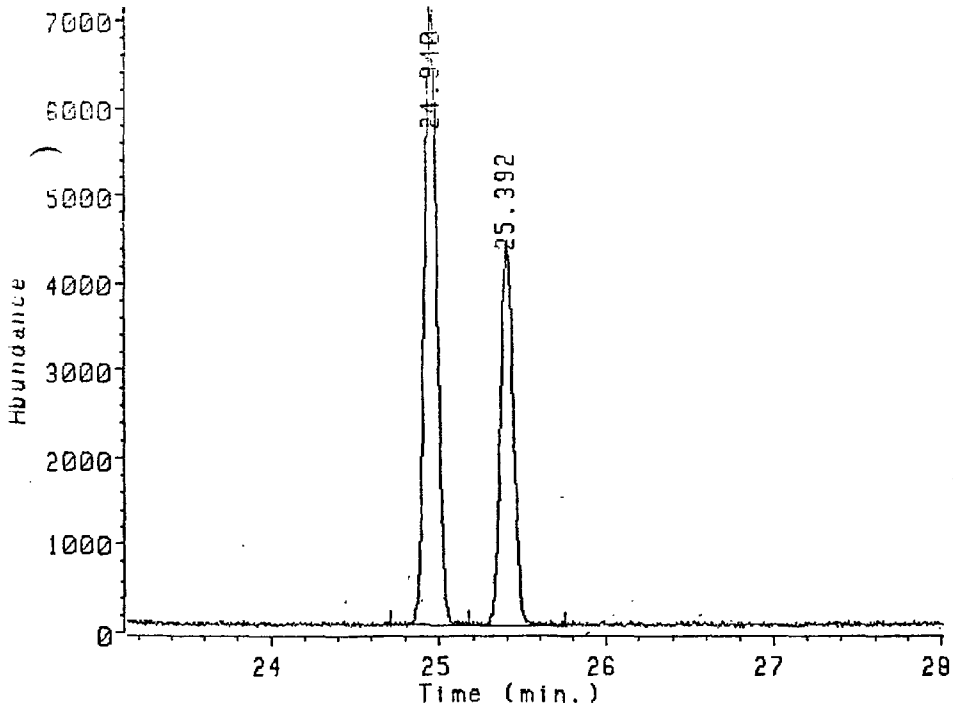
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

020095

Ion 331.80 amu. from DATA:NCALA03A.D



Ion 331.80 amu. from DATA:NCALA03A.D
 CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.940	BU	0.087	365137	24.712	25.177
2	25.392	UB	0.128	228821	25.177	25.749

03221111

3 1748

Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

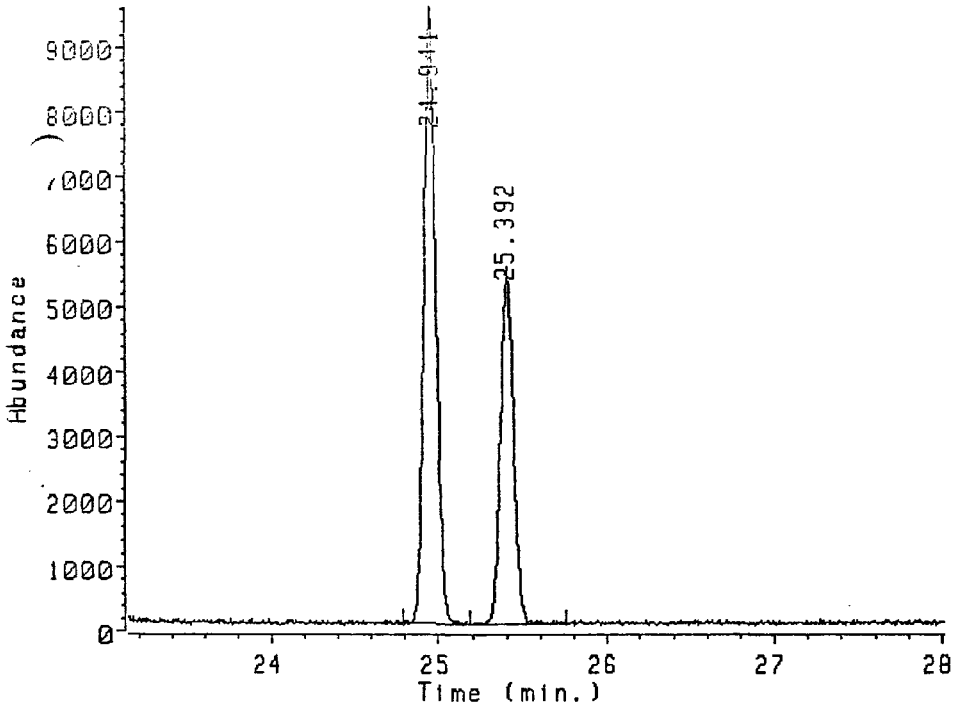
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1

020096

Ion 333.80 amu. from DATA:NCALA03A.D



Ion 333.80 amu. from DATA:NCALA03A.D
CL CALIBRATION SOLN III

03221112

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.941	BV	0.155	460954	24.784	25.185
2	25.392	PB	0.131	280484	25.185	25.749

3 1749

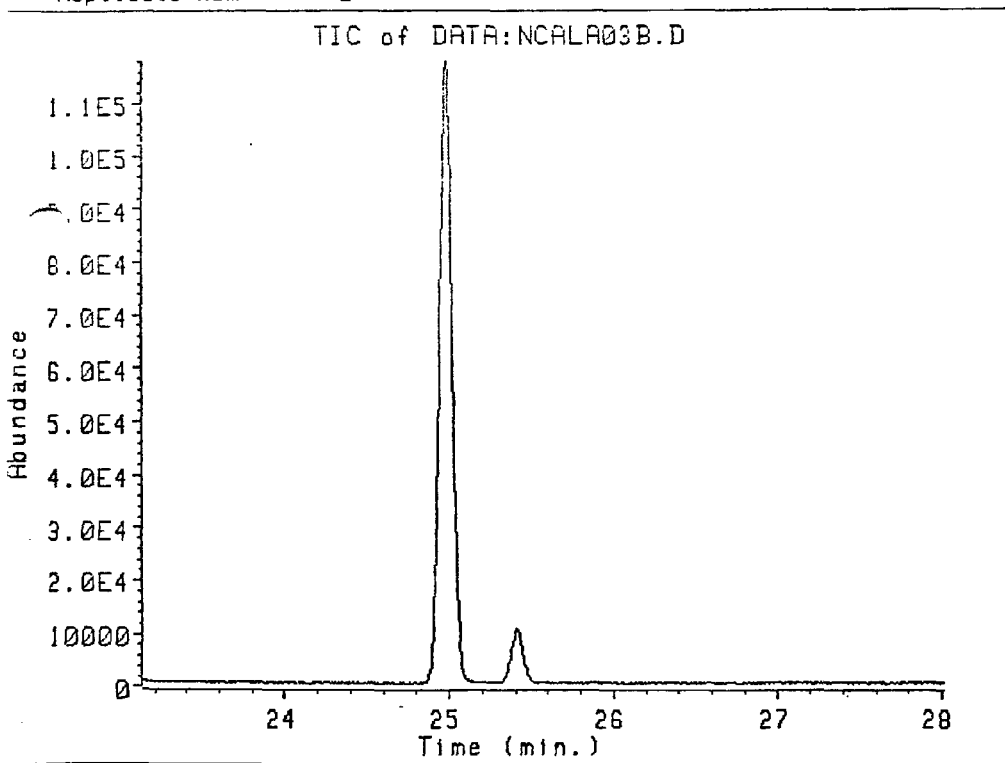
Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

020397



03221113

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

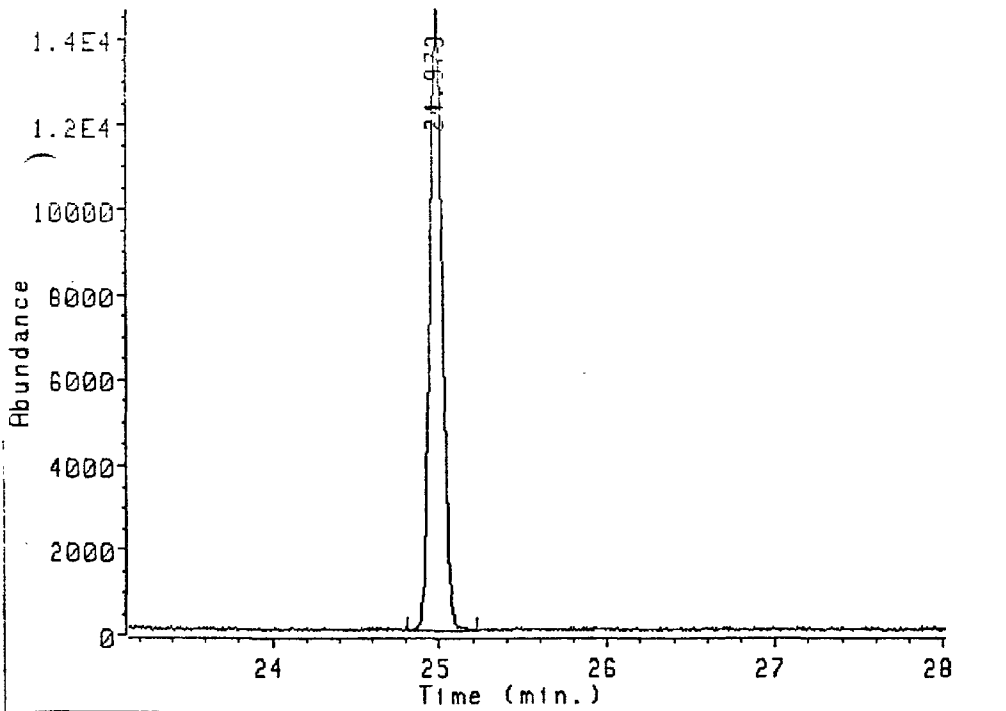
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

020048

Ion 258.90 amu. from DATA:NCALA03B.D



Ion 258.90 amu. from DATA:NCALA03B.D
CLP CALIBRATION SOLN III

03221114

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.157	767960	24.808	25.225

3 1751

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

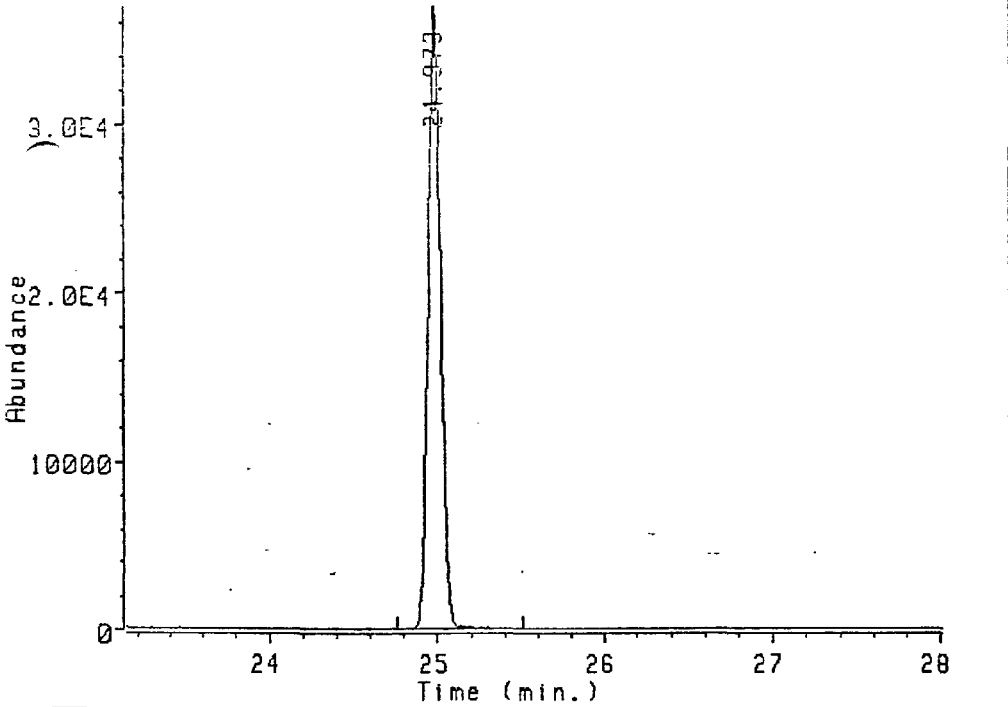
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

020009

Ion 319.90 amu. from DATA:NCALA03B.D



Ion 319.90 amu. from DATA:NCALA03B.D
CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.141	1930166	24.760	25.508

03221115

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

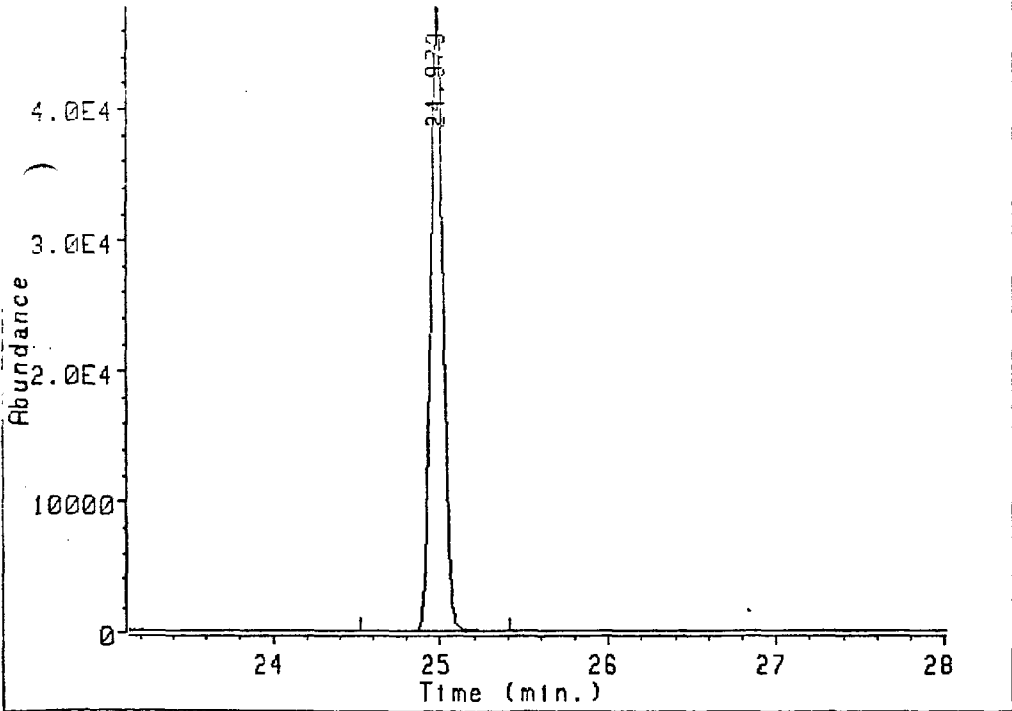
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

020300

Ion 321.90 amu. from DATA:NCALA03B.D



Ion 321.90 amu. from DATA:NCALA03B.D
CLP CALIBRATION SOLN III

03221116

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.143	2487907	24.524	25.411

3 1753

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

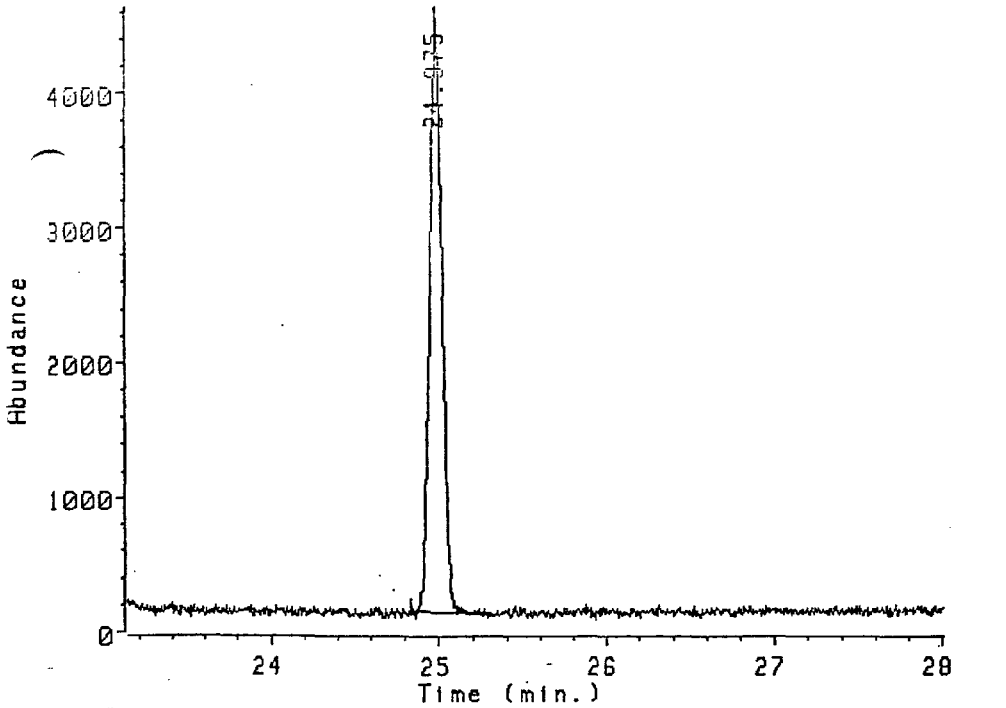
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
ALS bottle num : 3
Replicate num : 2

020001

Ion 327.90 amu. from DATA:NCALA03B.D



Ion 327.90 amu. from DATA:NCALA03B.D
CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.143	225238	24.832	25.315

03221117

3 1754

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

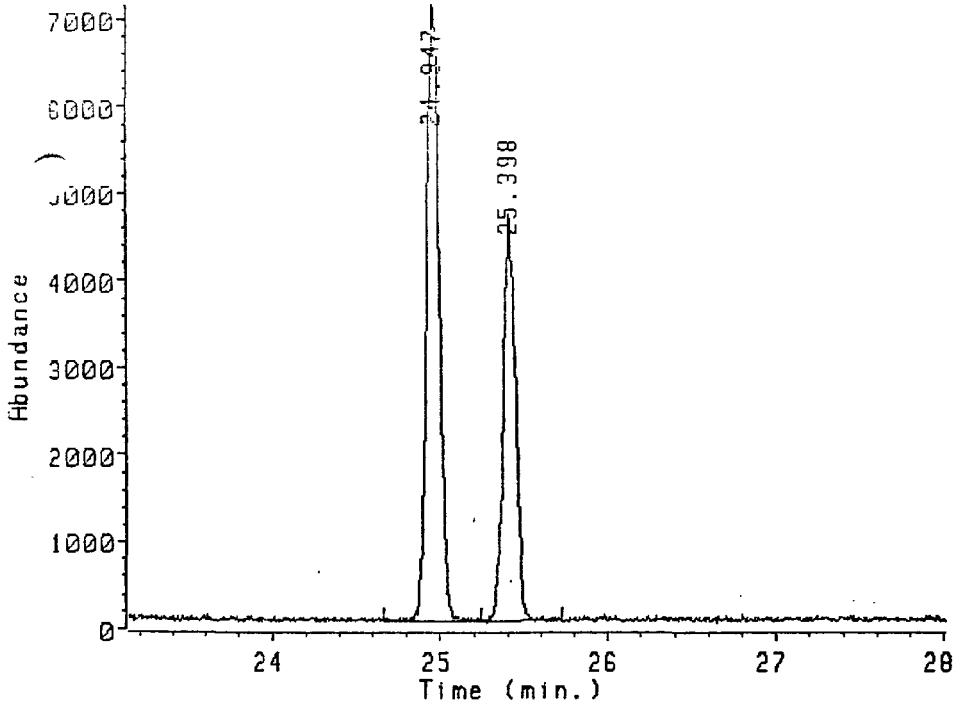
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

020902

Ion 331.80 amu. from DATA:NCALA03B.D



Ion 331.80 amu. from DATA:NCALA03B.D
CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.947	UB	0.147	377126	24.663	25.242
2	25.398	UB	0.086	230121	25.242	25.725

03221118

Data file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

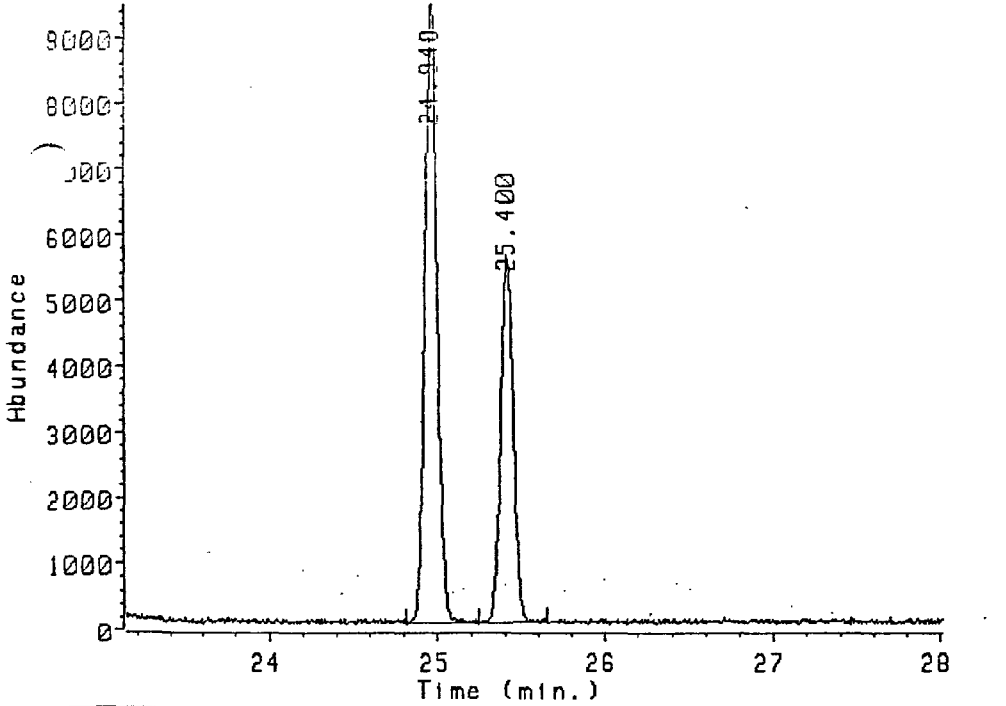
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2

020003

Ion 333.80 amu. from DATA:NCALA03B.D



Ion 333.80 amu. from DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.948	BU	0.147	477220	24.808	25.242
2	25.400	PB	0.137	283684	25.242	25.652

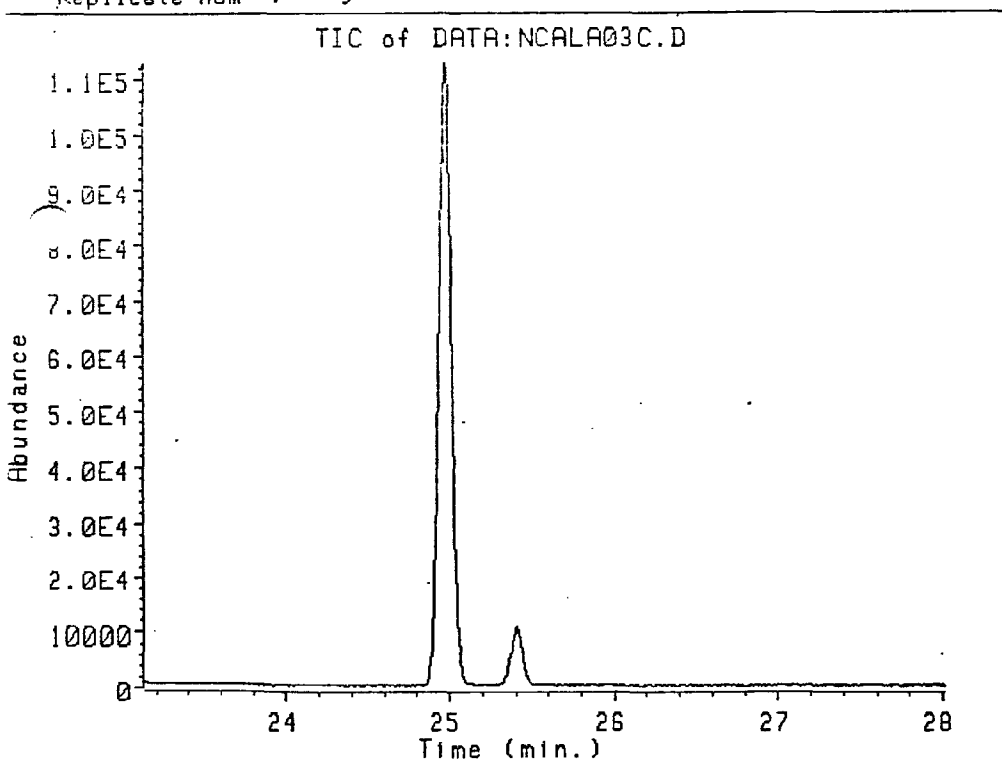
Data file: DATA:NCALA03C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 3

020904



Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

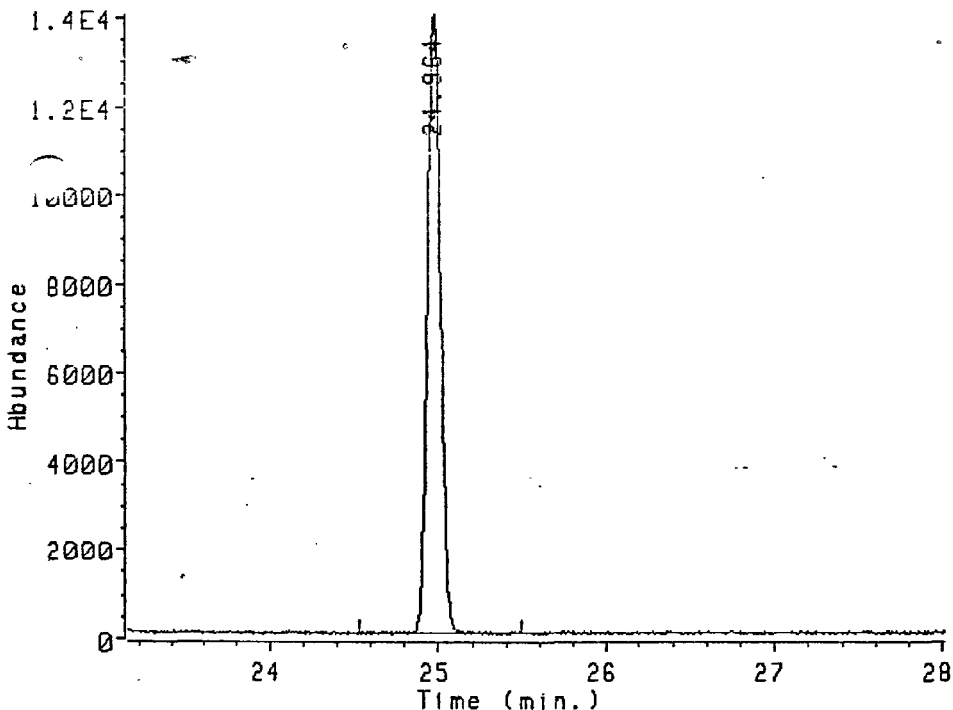
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

020005

Ion 258.90 amu. from DATA:NCALA03C.D



Ion 258.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

03221121

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.964	BB	0.090	748534	24.531	25.484

Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

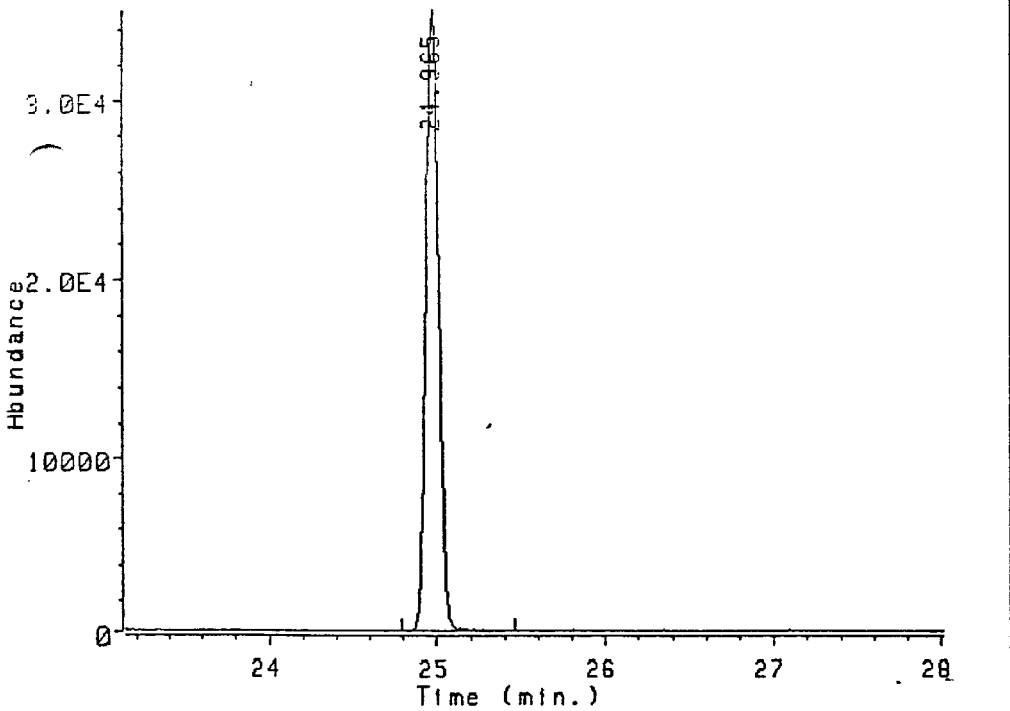
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

020906

Ion 319.90 amu. from DATA:NCALA03C.D



Ion 319.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

03221122

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.965	BB	0.091	1860633	24.784	25.460

Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

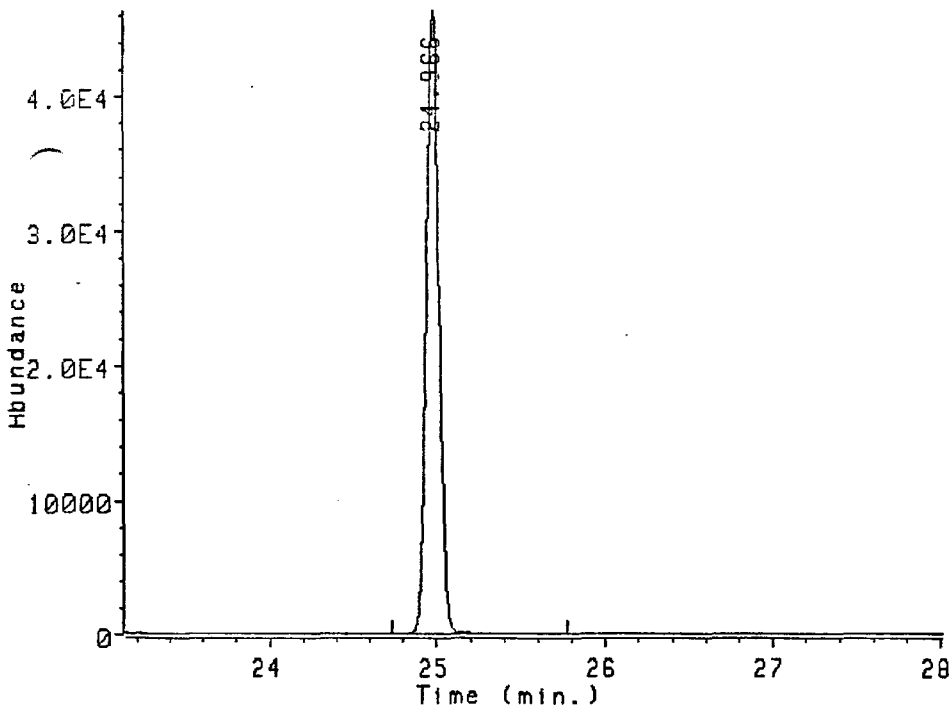
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

020907

Ion 321.90 amu. from DATA:NCALA03C.D



Ion 321.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

03221123

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.966	BB	0.141	2416488	24.736	25.773

Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

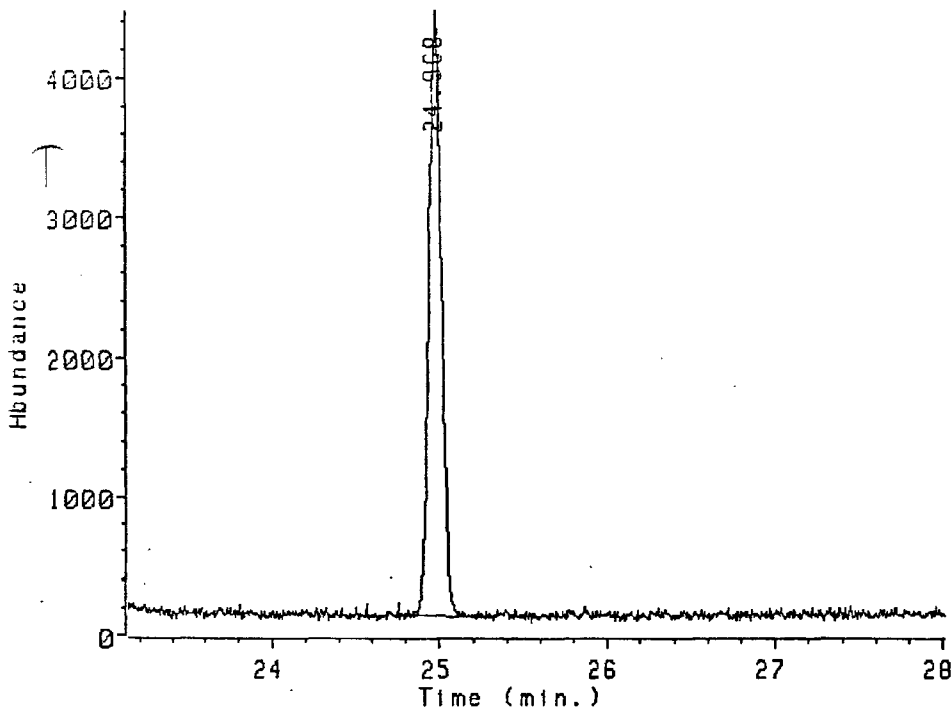
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

020008

Ion 327.90 amu. from DATA:NCALA03C.D



Ion 327.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

03221124

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.968	BB	0.152	221614	24.760	25.315

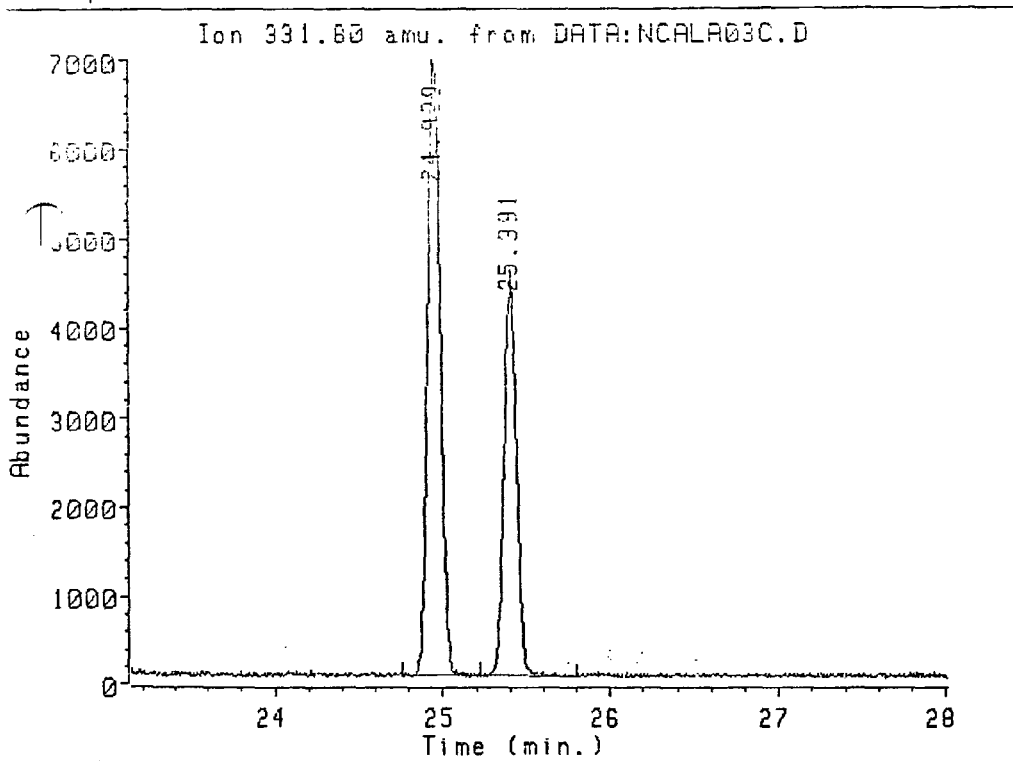
↑
 Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

020909



Ion 331.80 amu. from DATA:NCALA03C.D
 CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.939	UV	0.087	362437	24.760	25.218
2	25.391	UV	0.126	226614	25.218	25.797

03221125



Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

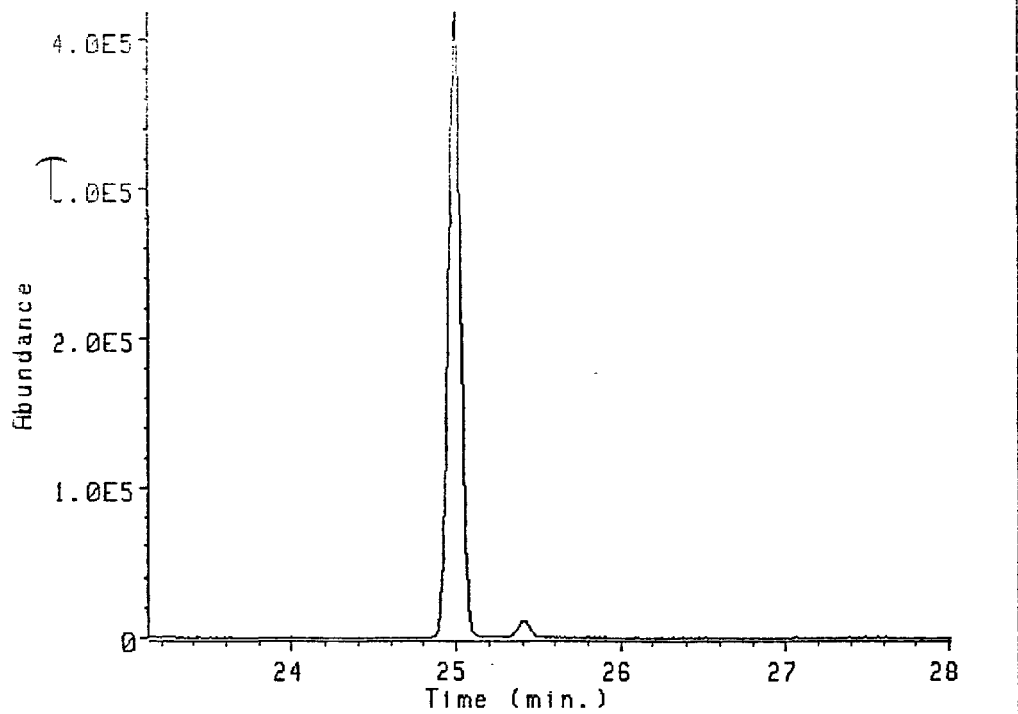
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

020910

TIC of DATA:NCALA04A.D



T

Data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

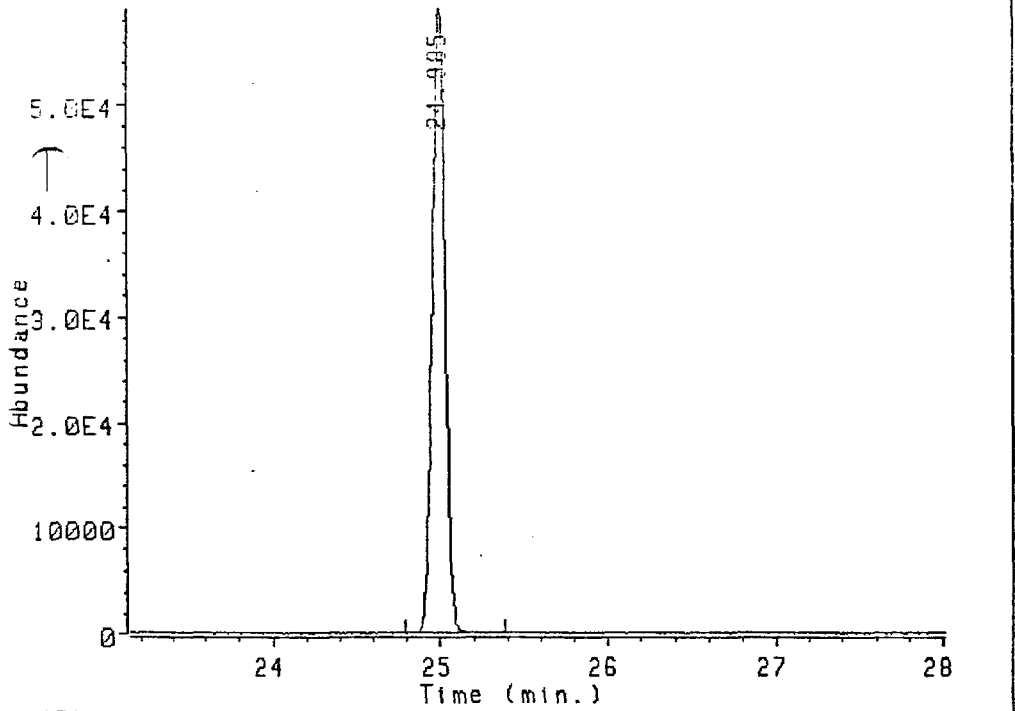
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

020911

Ion 258.90 amu. from DATA:NCALA04A.D



Ion 258.90 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

03221127

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.985	BB	0.090	3186158	24.784	25.387

Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

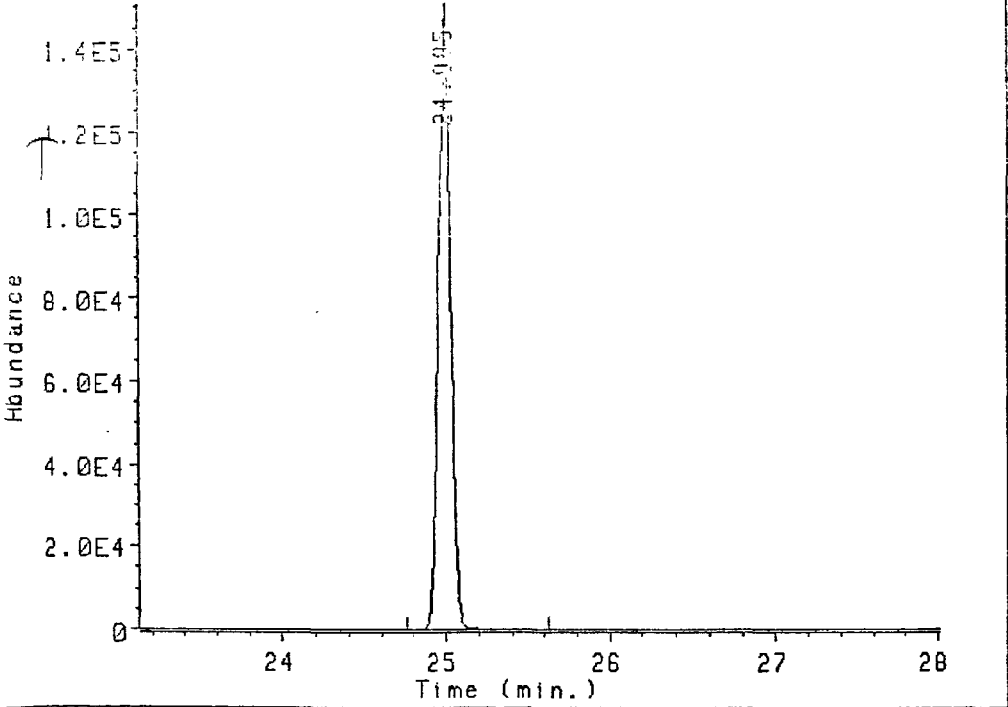
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

020012

Ion 319.90 amu. from DATA:NCALA04A.D



Ion 319.90 amu. from DATA:NCALA04A.D
CLP CALIBRATION SOLN IV

03221128

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.985	BB	0.092	7761312	24.760	25.628

↑
Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

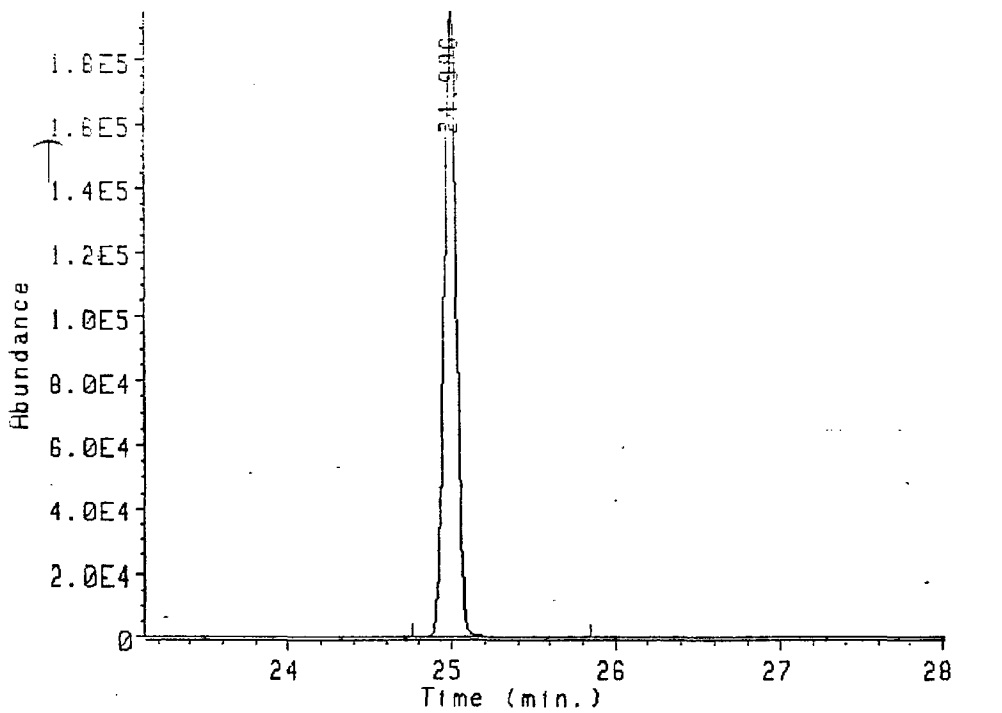
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

020013

Ion 321.90 amu. from DATA:NCALA04A.D



Ion 321.90 amu. from DATA:NCALA04A.D
CL CALIBRATION SOLN IV

03221129

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.986	BB	0.087	10280454	24.760	25.846

Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

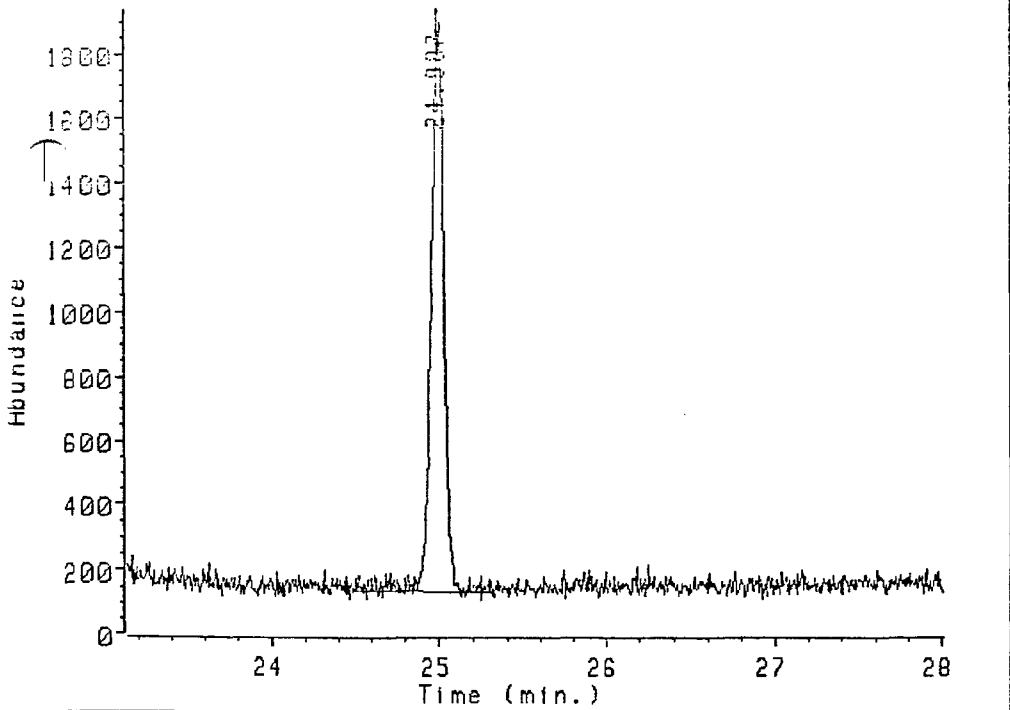
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

020914

Ion 327.90 amu. from DATA:NCALA04A.D



op 327.90 amu. from DATA:NCALA04A.D
CL CALIBRATION SOLN IV

03221130

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.987	BB	0.091	96269	24.500	25.315

Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

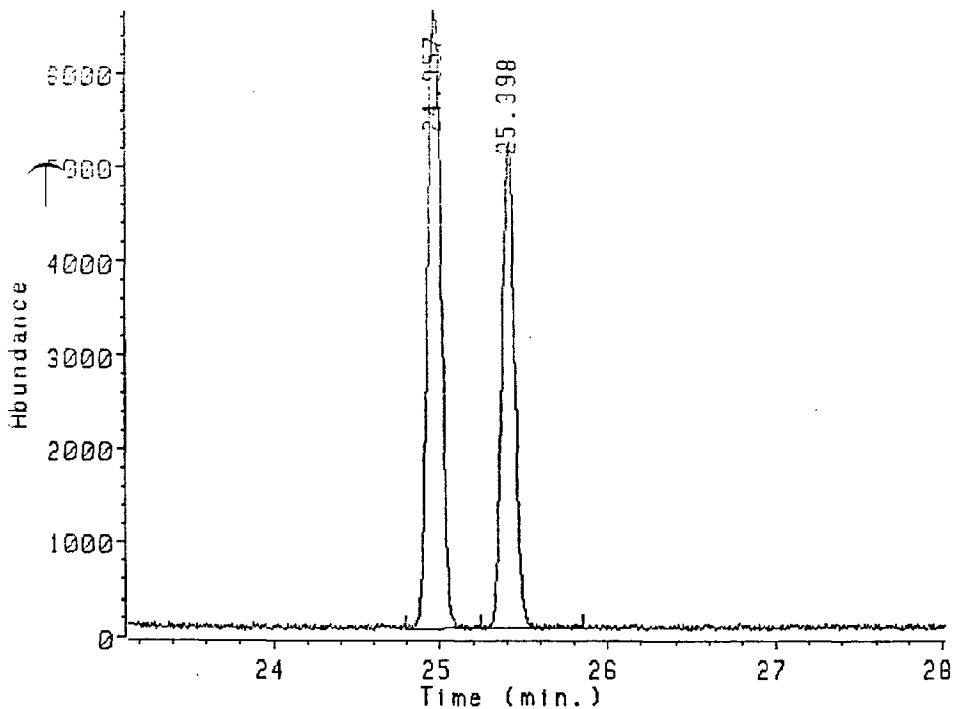
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 97 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

020215

Ion 331.80 amu. from DATA:NCALA04A.D



Ion 331.80 amu. from DATA:NCALA04A.D
CLP CALIBRATION SOLN IV

03221131

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.957	UB	0.096	381115	24.784	25.239
2	25.398	UB	0.087	266939	25.239	25.846

Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

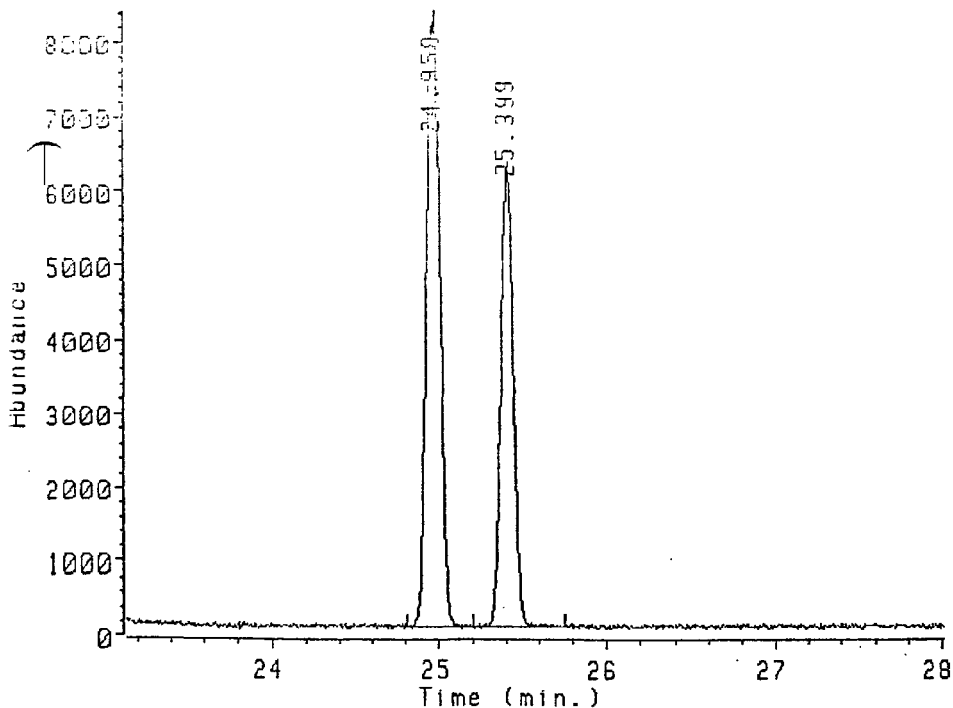
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

020016

Ion 333.80 amu. from DATA:NCALA04A.D



Ion 333.80 amu. From DATA:NCALA04A.D
CLP CALIBRATION SOLN IV

03221132

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.958	BU	0.096	473276	24.808	25.208
2	25.399	PB	0.087	322534	25.208	25.749

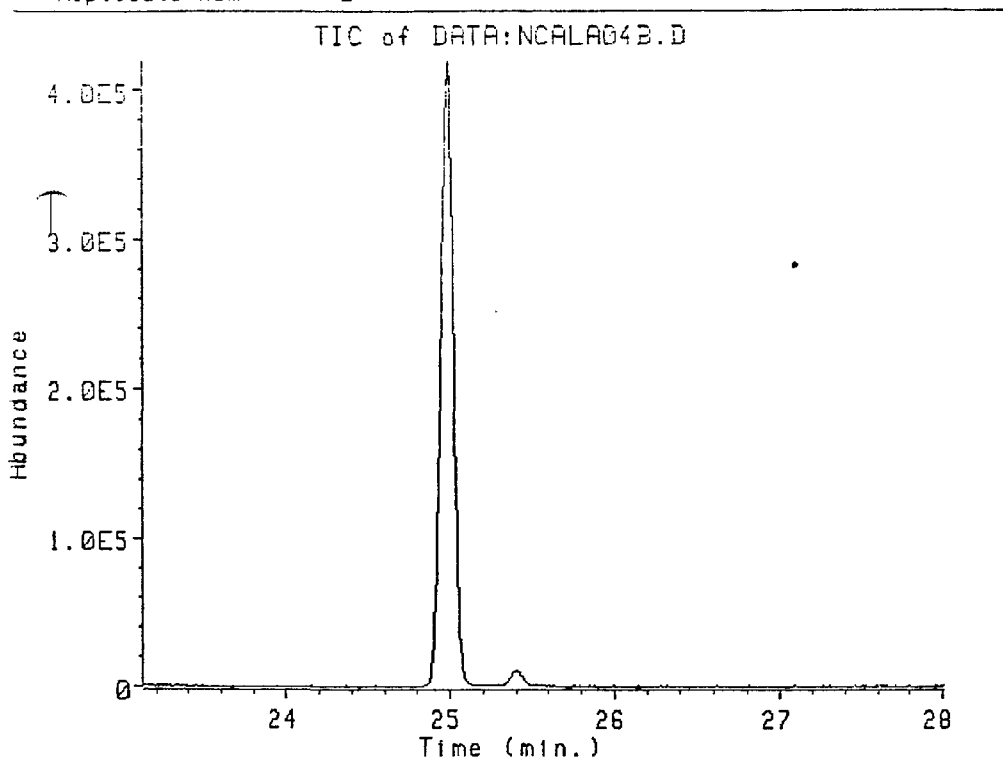
↑
Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

020917



03221133

↑
Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

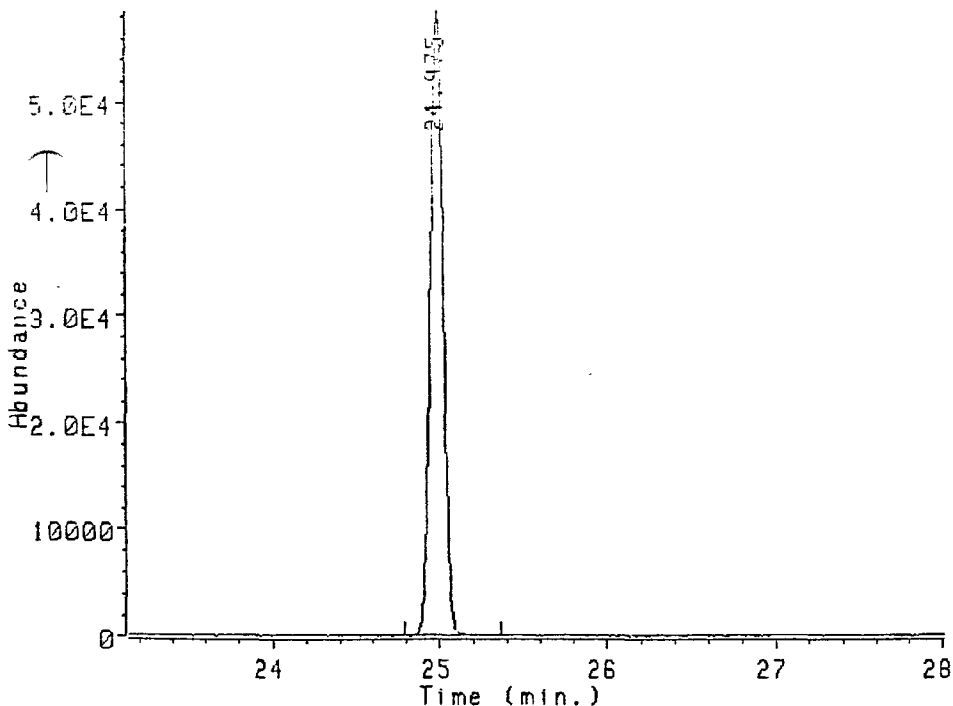
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

020218

Ion 258.90 amu. from DATA:NCALA04B.D



Ion 258.90 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

03221134

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.174	3159515	24.784	25.363

Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

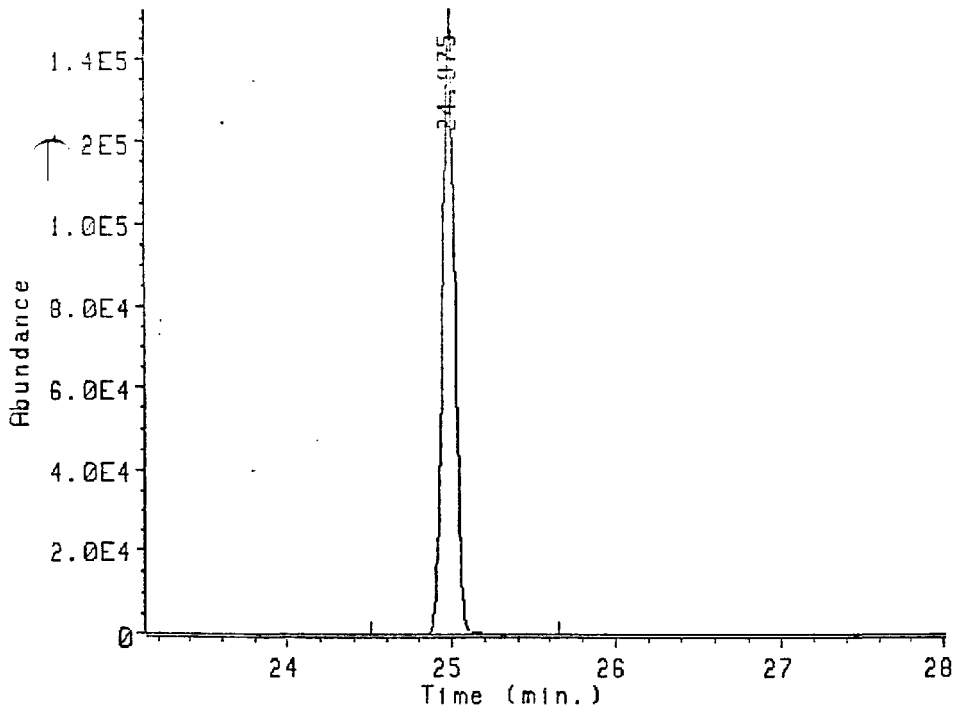
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

020919

Ion 319.90 amu. from DATA:NCALA04B.D



Ion 319.90 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

03221135

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.152	7858218	24.506	25.652

↑
 Data file: DATA:NCALA04B.D
 File type: GC / MS DATA FILE

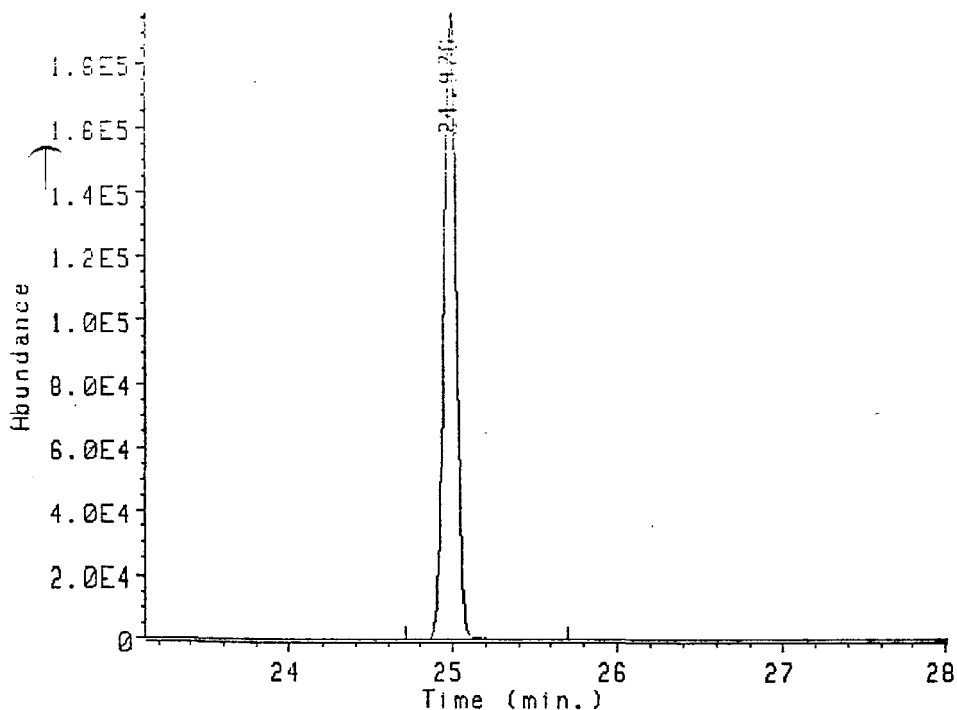
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 97 5:30 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 2

020920

Ion 321.90 amu. from DATA:NCALA04B.D



Ion 321.90 amu. from DATA:NCALA04B.D
 CLP CALIBRATION SOLN IV

03221136

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.161	10355753	24.711	25.700

↑
 Data file: DATA:NCALA04B.D
 File type: GC / MS DATA FILE

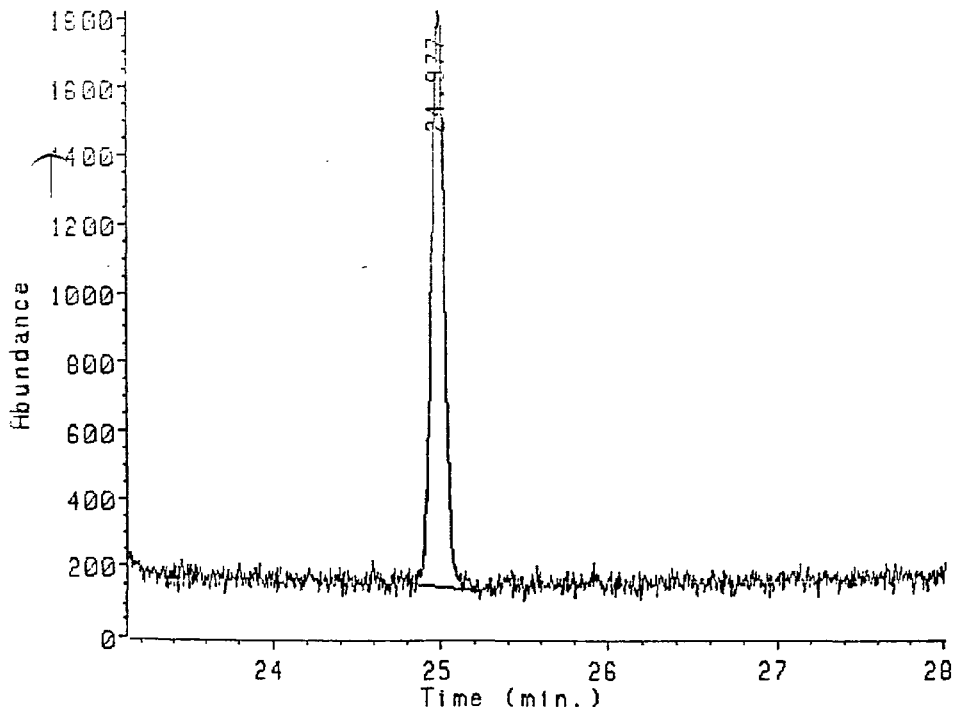
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 2

020021

Ion 327.90 amu. from DATA:NCALA04B.D



Ion 327.90 amu. from DATA:NCALA04B.D
 CLP CALIBRATION SOLN IV

03221137

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.977	BB	0.124	91642	24.808	25.228

Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

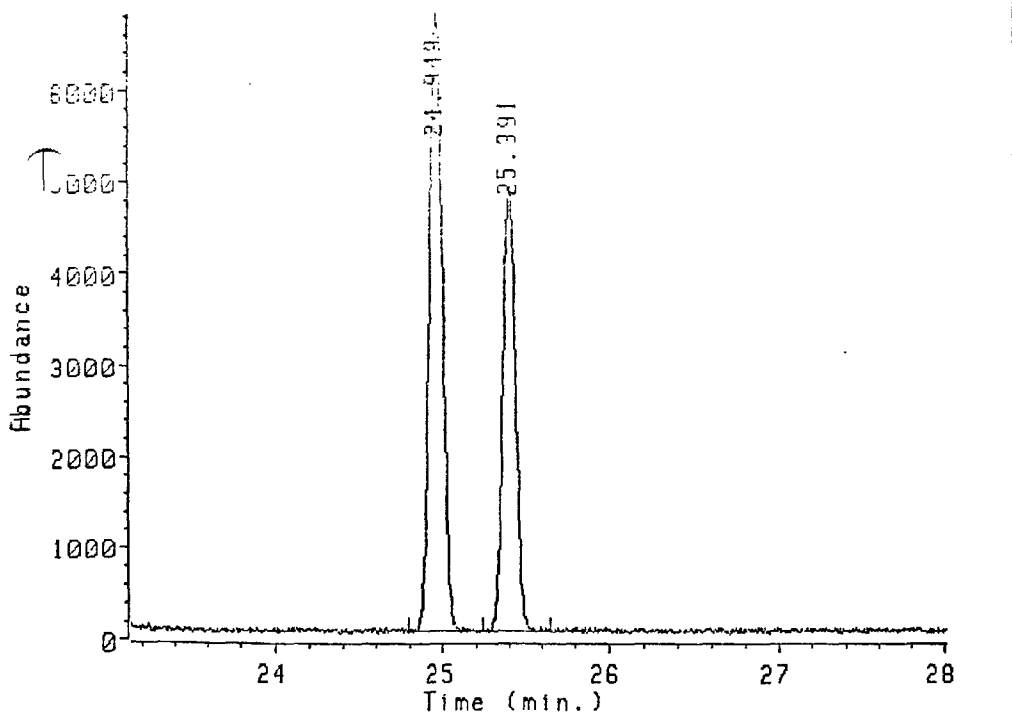
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

020122

Ion 331.80 amu. from DATA:NCALA04B.D



Ion 331.80 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

03221138

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.949	BU	0.137	379549	24.784	25.242
2	25.391	PB	0.131	255513	25.242	25.652

Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

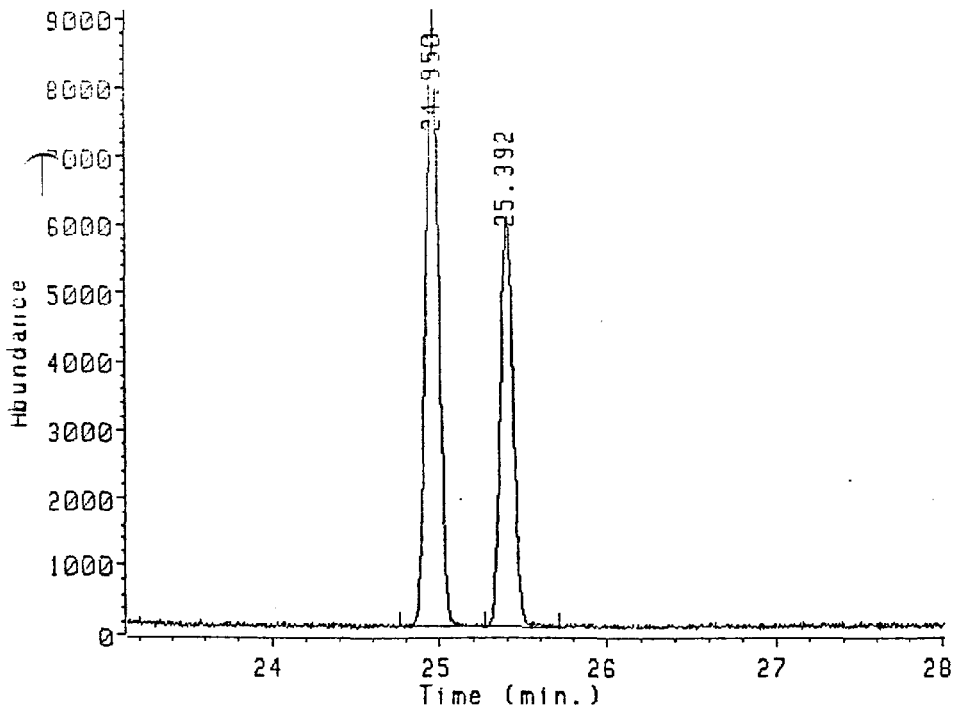
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

020023

Ion 333.80 amu. from DATA:NCALA04B.D



Ion 333.80 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

03221139

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.950	BU	0.150	478280	24.760	25.266
2	25.392	PB	0.127	309835	25.266	25.712

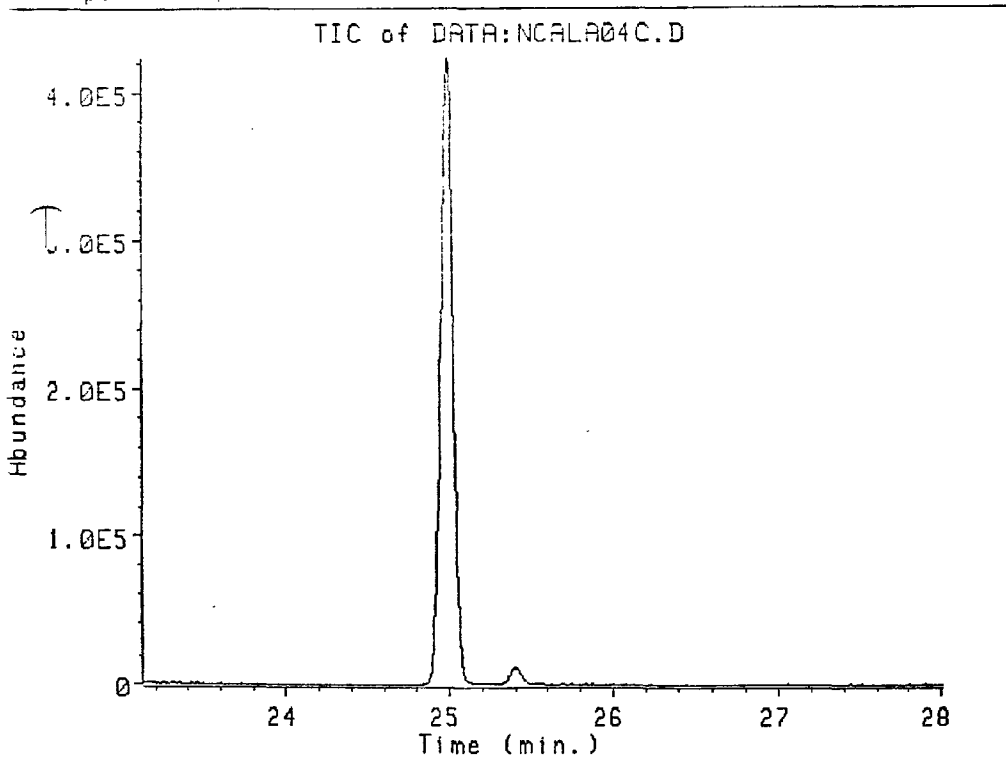
↑
Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

020024



03221140

T

Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

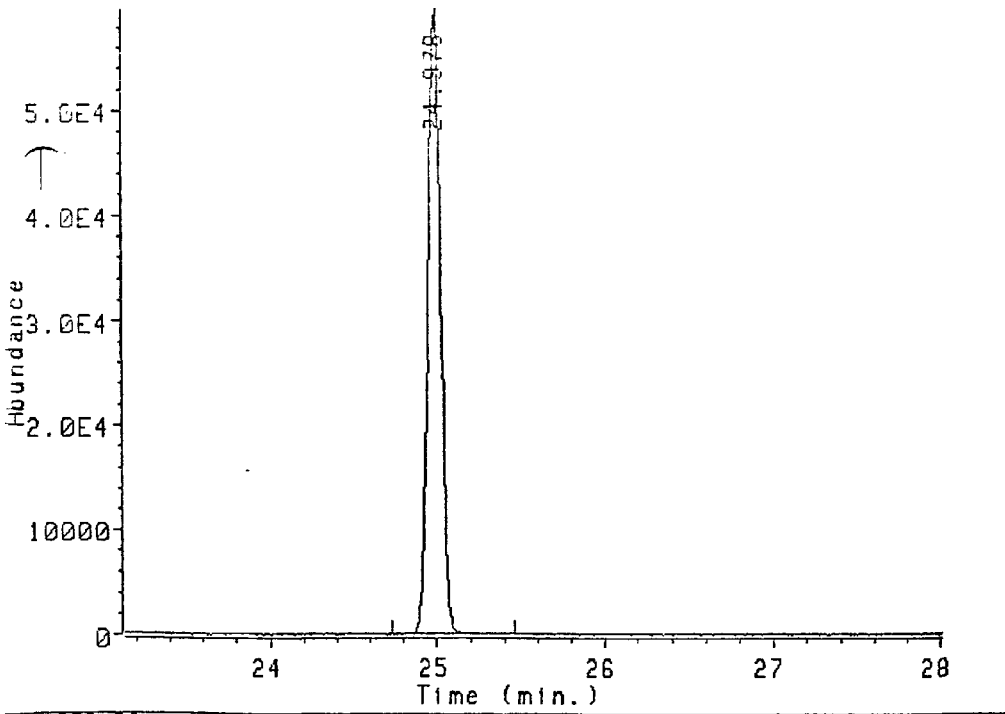
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

020025

Ion 258.90 amu. from DATA:NCALA04C.D



Ion 258.90 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

03221141

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.151	3178940	24.735	25.459

Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

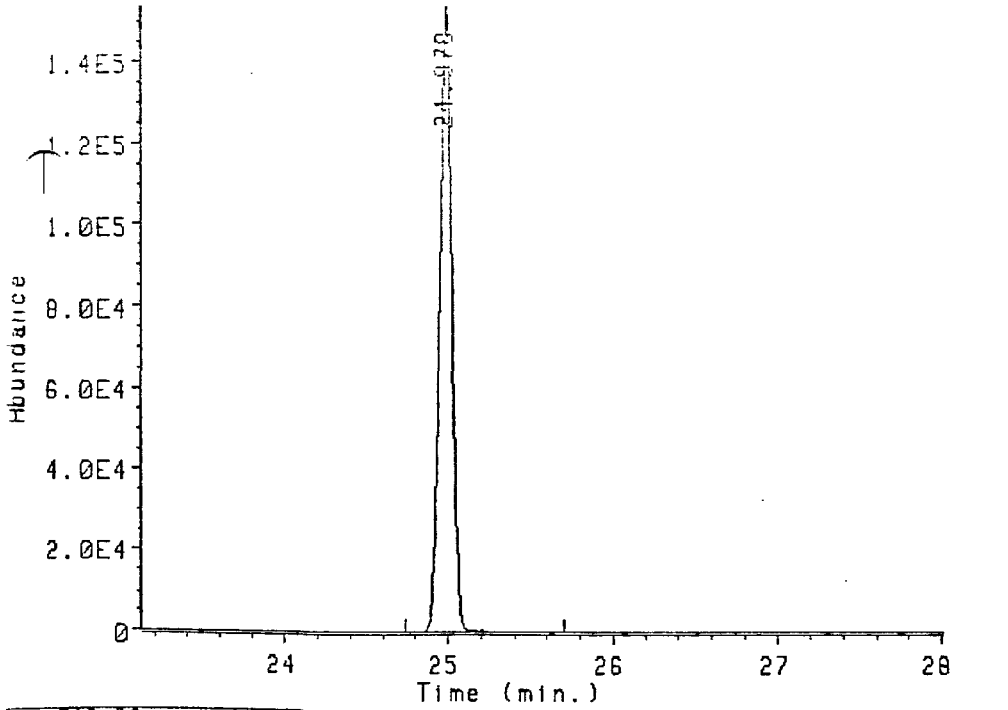
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

020026

Ion 319.90 amu. from DATA:NCALA04C.D



Ion 319.90 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

03221142

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.171	7911157	24.735	25.700

Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

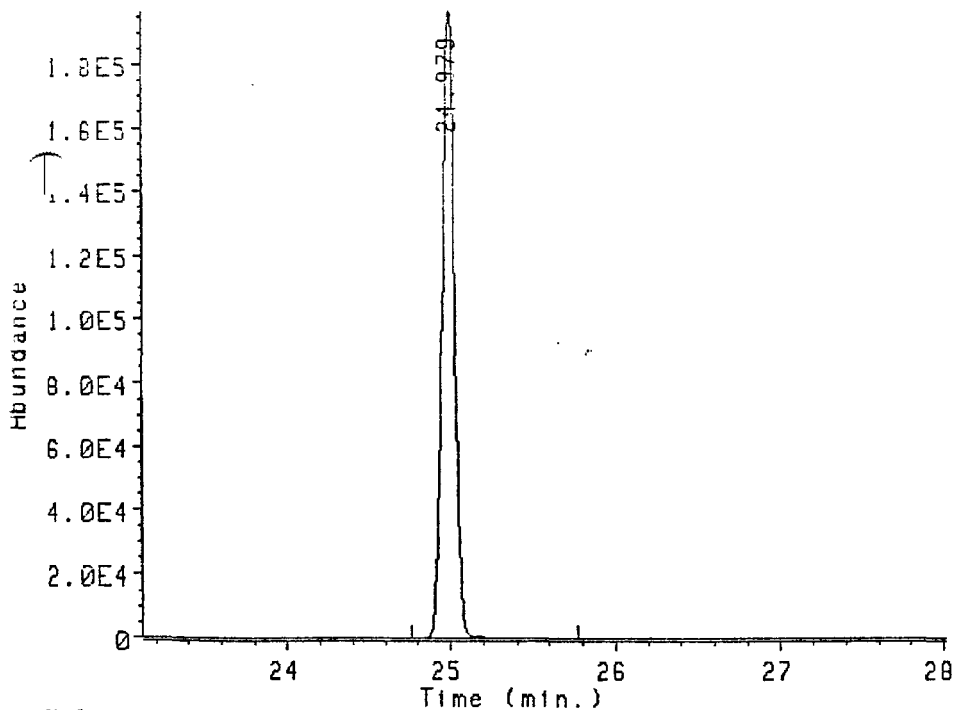
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

020027

Ion 321.90 amu. from DATA:NCALA04C.D



Ion 321.90 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

03221143

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.178	10384749	24.760	25.773

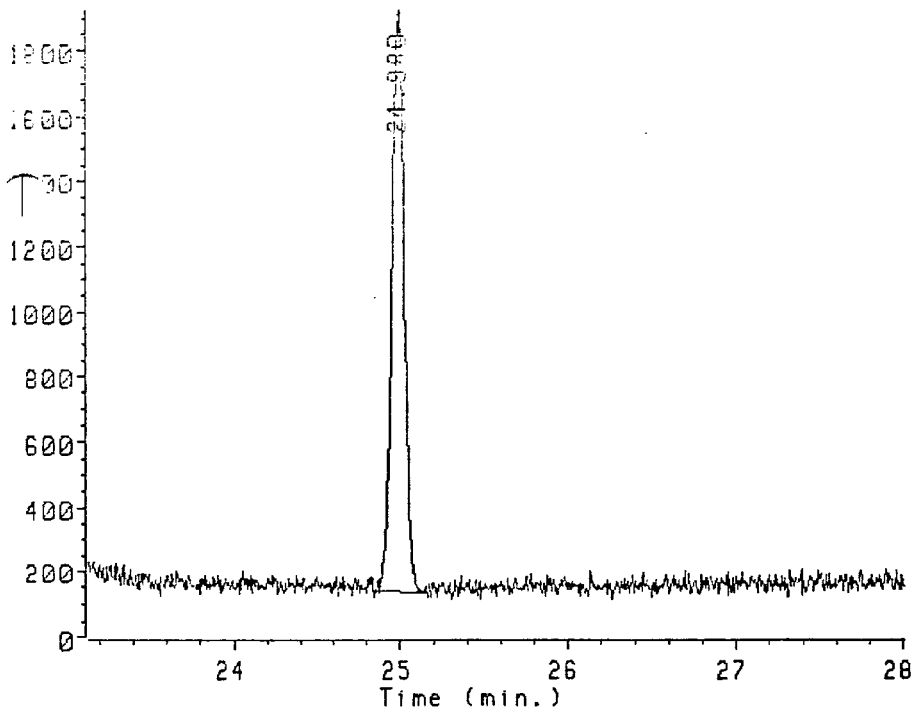
Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

Ion 327.90 amu. from DATA:NCALA04C.D



Ion 327.90 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

03221144

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.137	94122	24.832	25.170

020028

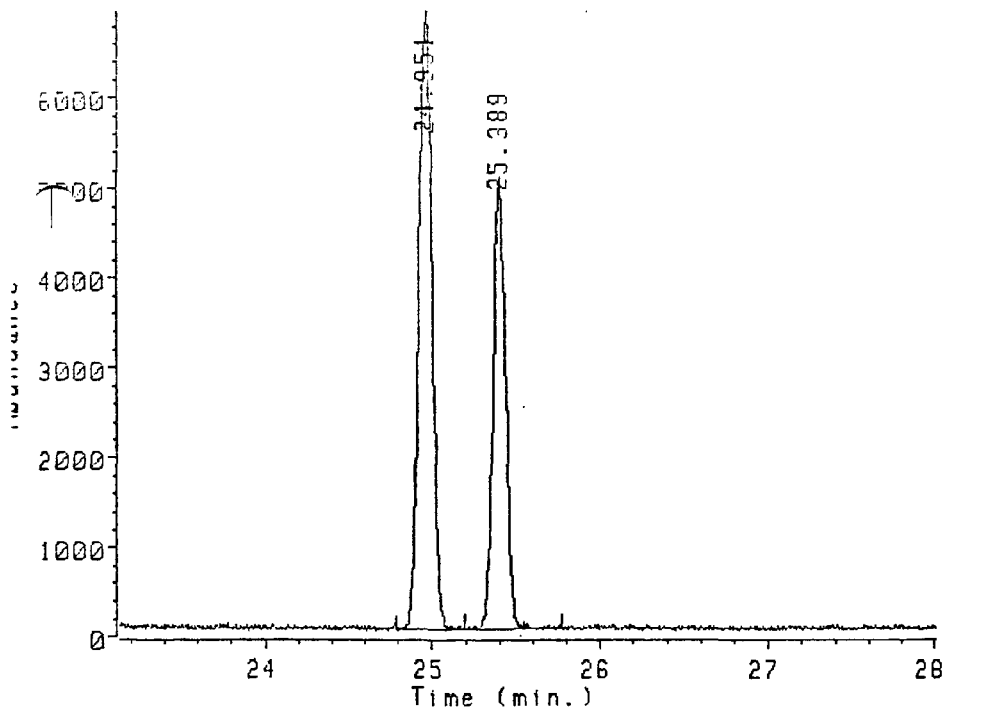
Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

Ion 331.80 amu. from DATA:NCALA04C.D



Ion 331.80 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

03221145

Ret Time	Type	Width	Area	Start Time	End Time
1 24.951	UV	0.134	380354	24.784	25.194
2 25.389	UV	0.121	253568	25.194	25.773

020929

↑
Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

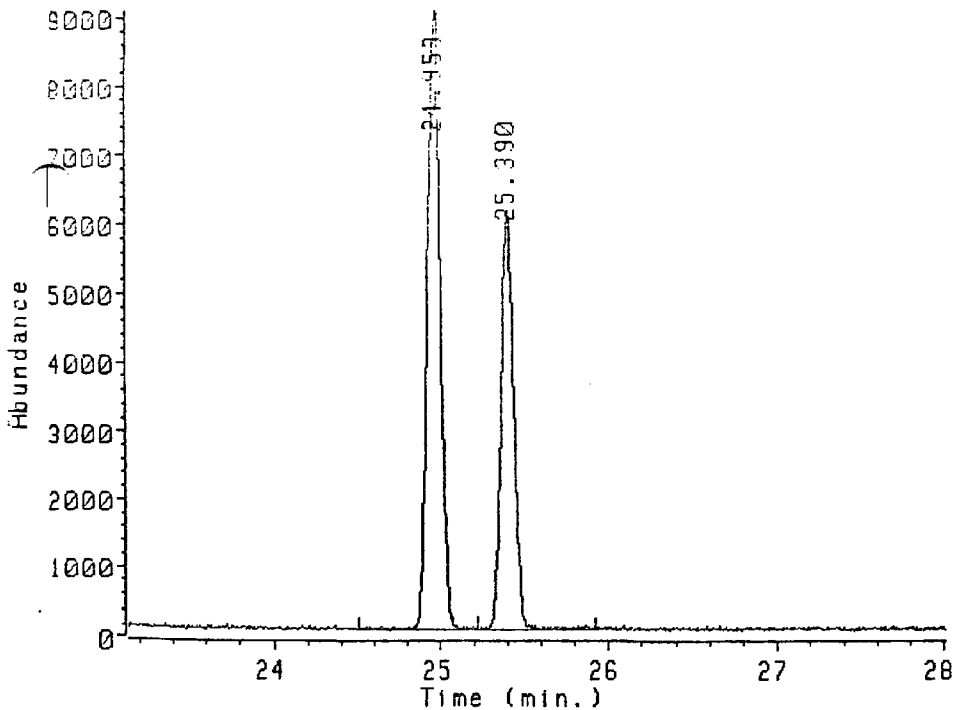
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

020750

Ion 333.80 amu. from DATA:NCALA04C.D



Ion 333.80 amu. from DATA:NCALA04C.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.953	BU	0.091	486909	24.506	25.218
2	25.390	UB	0.136	315334	25.218	25.918

03221146

↑
Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

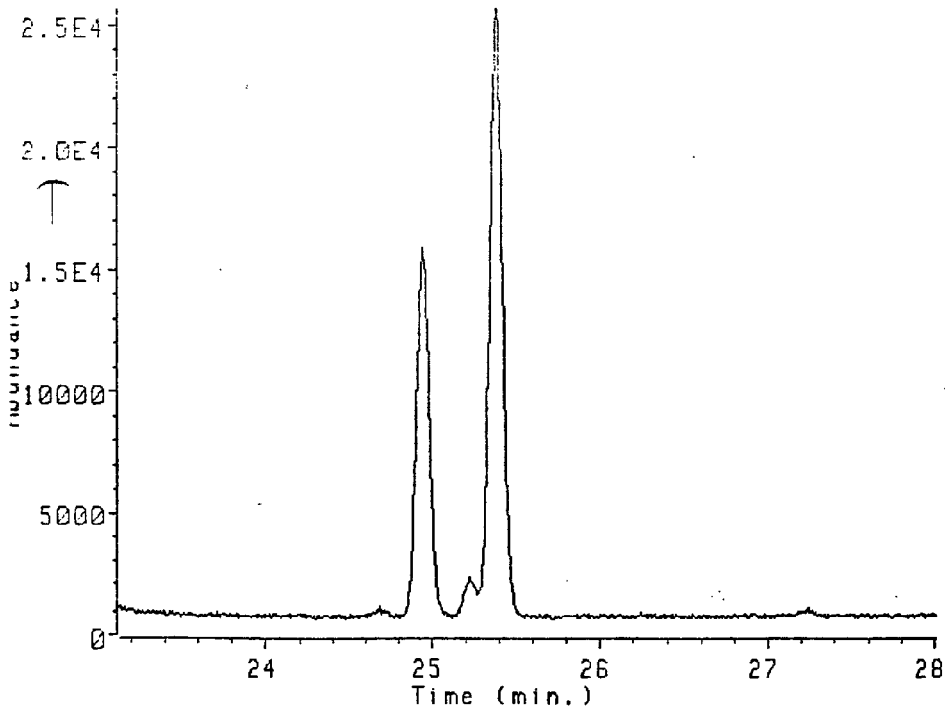
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

020931

TIC of DATA:NCALB01A.D

↑
03221147

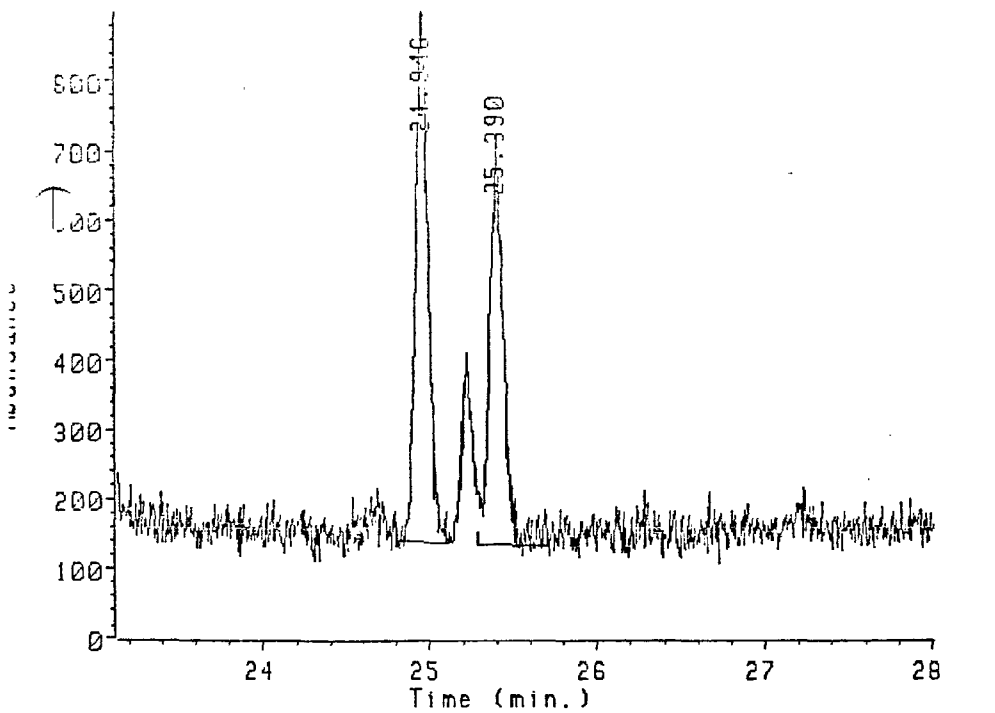
↑
Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator: MS OPERATOR

Date: 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet: GC

Sequence index: 2
Als bottle num: 1
Replicate num: 1

Ion 258.90 amu. from DATA:NCALB01A.D



Ion 258.90 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

03221148

sa ↑	Ret Time	Type	Width	Area	Start Time	End Time
1	24.946	VB	0.091	39870	24.809	25.122
2	25.390	VB	0.101	31957	25.291	25.702

020052

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

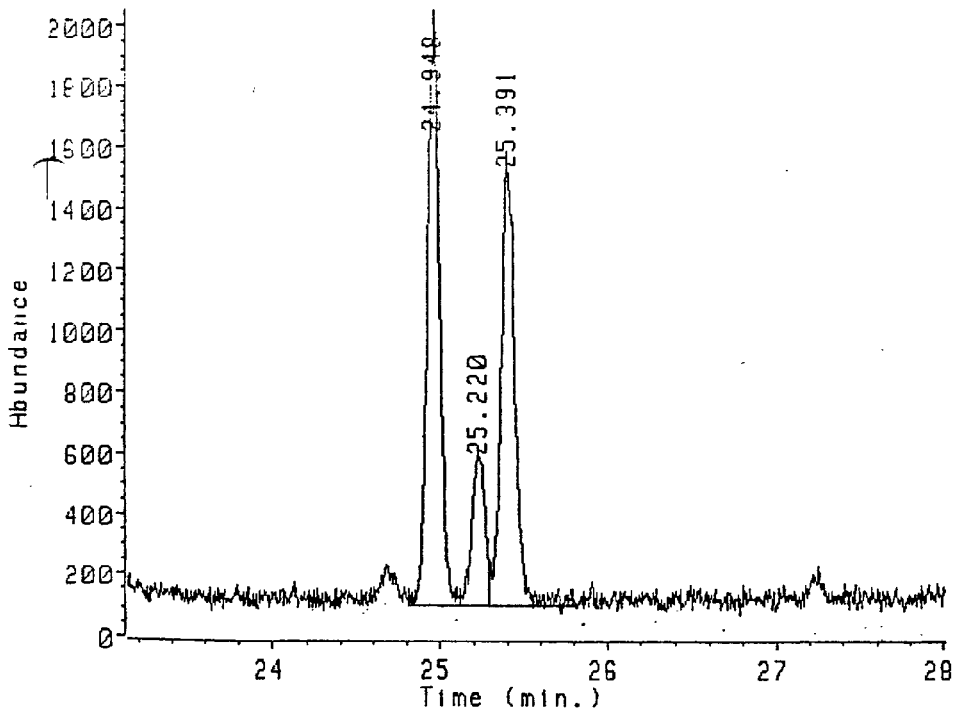
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

020935

Ion 319.90 amu. from DATA:NCALB01A.D



Ion 319.90 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

03221149

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.948	UV	0.089	98901	24.803	25.122
2	25.220	UV	0.087	25754	25.122	25.290
3	25.391	UV	0.147	81636	25.290	25.798

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

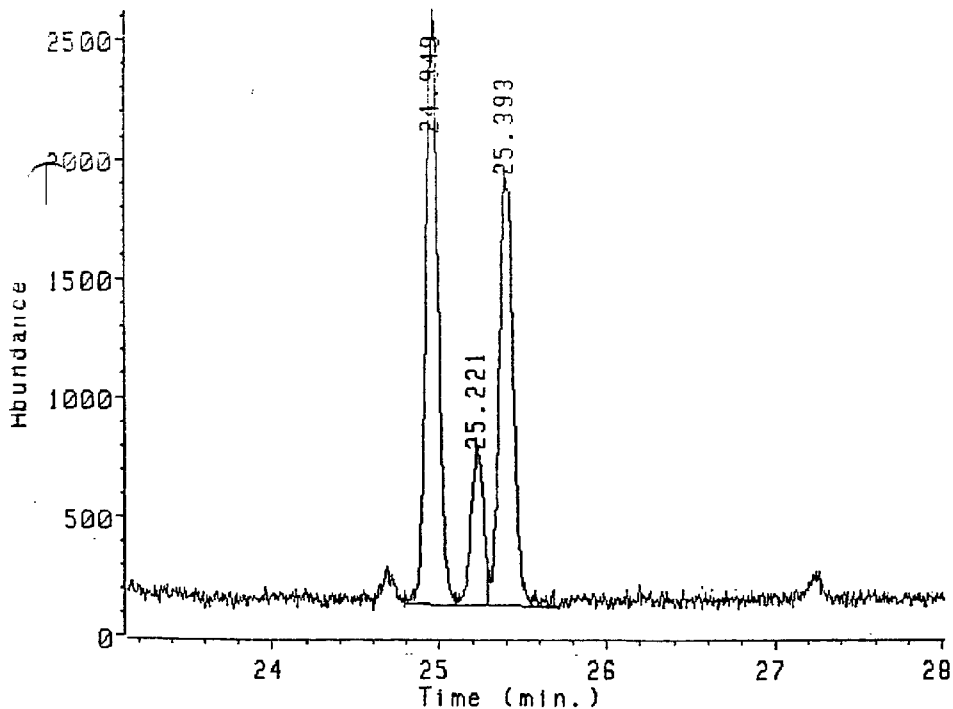
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

020034

Ion 321.90 amu. from DATA:NCALB01A.D



Ion 321.90 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

03221150

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.949	UU	0.088	128555	24.788	25.102
2	25.221	UU	0.086	34074	25.102	25.291
3	25.393	UU	0.150	105301	25.291	25.702

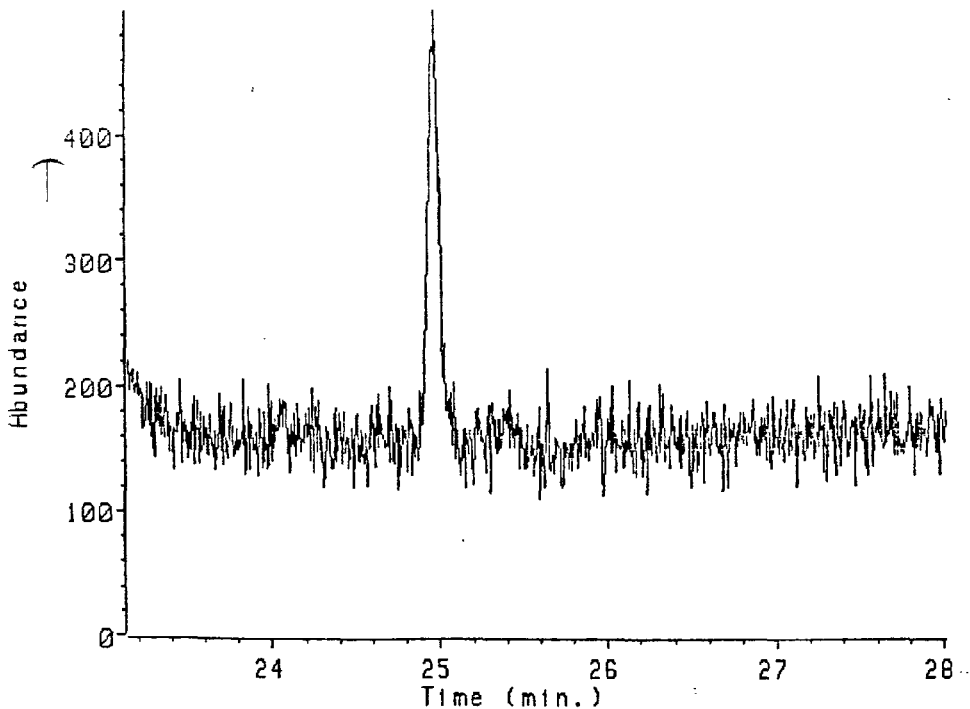
↑
Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
ALS bottle num : 1
Replicate num : 1

Ion 327.90 amu. from DATA:NCALB01A.D



Ion 327.90 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

↑
No peaks detected

03221151

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

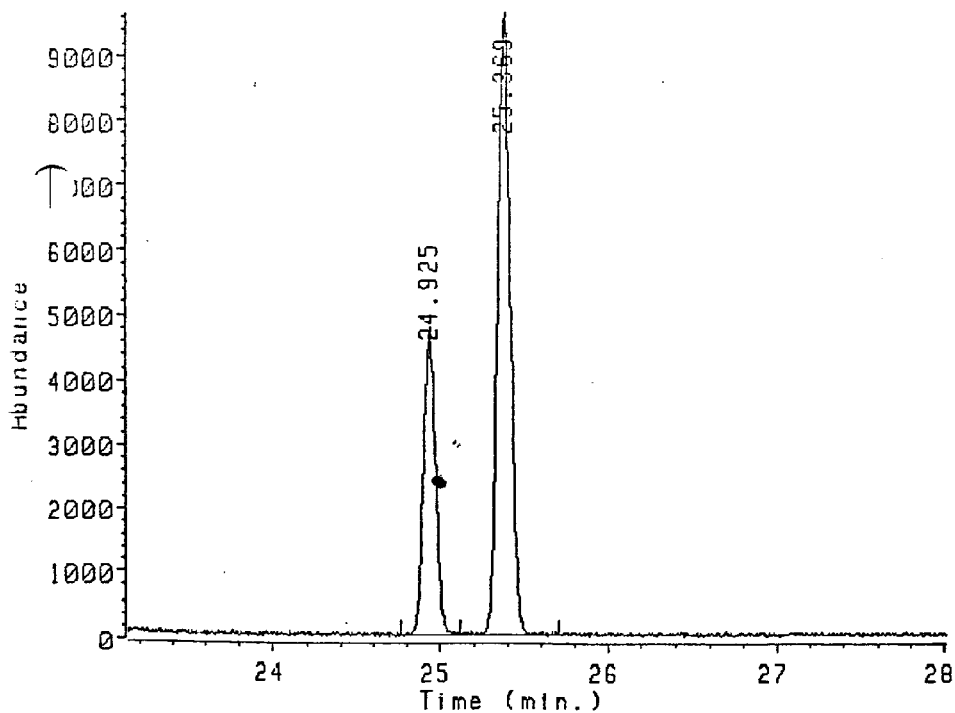
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

020036

Ion 331.80 amu. from DATA:NCALB01A.D



Ion 331.80 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

03221152

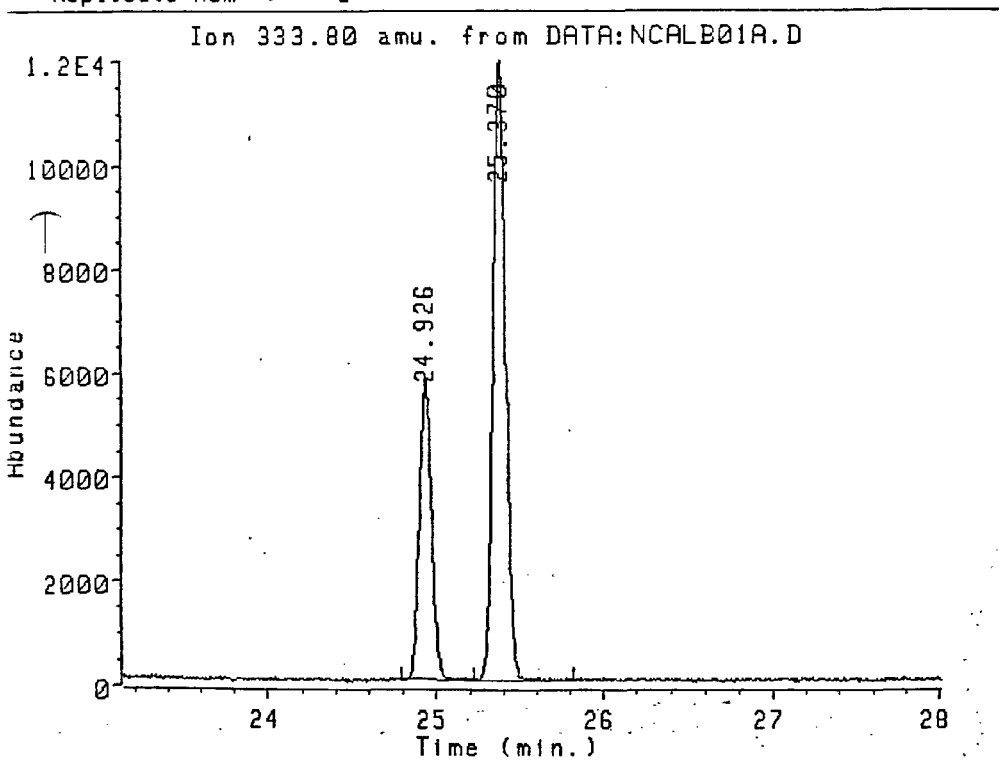
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.925	BU	0.139	233907	24.760	25.122
2	25.369	UB	0.130	492927	25.122	25.702

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1



Ion 333.80 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

03221153

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.926	BV	0.139	289994	24.784	25.219
2	25.370	PB	0.140	611865	25.219	25.822

020057

↑

ATTACHMENT 5
CHAIN OF CUSTODY, GC/MS/MS LOG, EXTRACTION RECORD

020030

↑

↑

03221154

000020



INTERNATIONAL
TECHNOLOGY
CORPORATION

CHAIN-OF-CUSTODY RECORD

4F0078

R/A Control No. 52246

C/C Control No. 38235

PROJECT NAME/NUMBER Jacksonville Office

LAB DESTINATION TMS Andersonville Rd.

SAMPLE TEAM MEMBERS D. Simons & D. Peay

CARRIER/WAYBILL NO. FED EX 9088172914

03221155

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
WH2289	Jacksonville Ordnance	07/26/88 1000	Soil	GLASS		
WH2305	[Large handwritten bracket spanning rows 2-9]	07/26/88 1453	[Large handwritten bracket spanning rows 2-9]	[Large handwritten bracket spanning rows 2-9]		
WH2306		07/26/88 1453				
WH2307		07/26/88 1500				
WH2311		07/26/88 1615				
WH2312		07/26/88 1615				
WH2313		07/26/88 1615				
WH2314		07/26/88 1630				
WH2316		07/26/88 1630				
WH2317	Jacksonville Office	07/26/88 1630	Soil	GLASS		

Special Instructions: _____

Possible Sample Hazards: _____

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: D. Peay 07/27/88 0930

Received By: _____

3. Relinquished By: _____

Received by: _____

2. Relinquished By: Federal Express

Received By: Antonia Ramos 07/28/88 0930

4. Relinquished By: _____

Received By: _____

1792



072020

CHAIN-OF-CUSTODY RECORD

R/A Control No. 52247

C/C Control No. 38236

03221156

3 PROJECT NAME/NUMBER Jacksonville Offsite 480078

LAB DESTINATION TMS Andriungulis Rd.

SAMPLE TEAM MEMBERS A. Serrano, J. Peay

CARRIER/WAYBILL NO. Fed Ex 9088172914

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
WH2318	Jacksonville Arkansas	07/26/88 01630	SOL	GLASS		
WH2319	✓	07/26/88 01630	LIQUID	GLASS		
WH2320	✓	07/26/88 01630	LIQUID	GLASS		
WH2063	✓		SOL	GLASS		

Special Instructions: _____

Possible Sample Hazards: _____

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: Daryl Peay 07/27/88 01030

3. Relinquished By: _____

Received By: _____

Received by: _____

2. Relinquished By: Federal Express

4. Relinquished By: _____

Received By: Cynthia Krauss 07/29/88 0930

Received By: _____

PROJECT NAME Jacksonville Office
 PROJECT NUMBER 480028
 PROJECT MANAGER Dana Lemerly
 BILL TO Hercules Inc
1313 N Market St
Wilmington DE

DATE SAMPLES SHIPPED 07/27/88
 LAB DESTINATION TMS Indianapolis Ind
 LABORATORY CONTACT Cindy Prusa
 SEND LAB REPORT TO Hercules Inc
Medical Dept
Hercules Inc
 DATE REPORT REQUIRED 48 hrs
 PROJECT CONTACT Dana Lemerly
 PROJECT CONTACT PHONE NO. 615-690-3211

PURCHASE ORDER NO. _____

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
WH2289	Soil	~35g	None	2378-TCDD GC/MS/MS	
WH2305	↓	↓	↓	↓	↓
WH2306					
WH2307					
WH2311					
WH2312					
WH2313					
WH2314					
WH2316					
WH2317	Soil	~35g	None	2378-TCDD GC/MS/MS	

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)

Normal _____ Rush (Subject to rush surcharge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)

Nonhazardous _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____
 (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)

Return to Client Disposal by Lab _____

FOR LAB USE ONLY

Received By Cynthia Prusa

Date/Time 07/28/88 930

PROJECT NAME Jacksonville Offsite 480078
 PROJECT NUMBER 480078-01-08-02
 PROJECT MANAGER Dana Lemerly
 BILL TO Parsons Corp
1313 N Market
Wilmington De

DATE SAMPLES SHIPPED _____
 LAB DESTINATION TMS Andersonville Ind.
 LABORATORY CONTACT Cindy Preece
 SEND LAB REPORT TO Steven Pinoszka
Medical Dept
Parsons Corp
 DATE REPORT REQUIRED 78 hrs
 PROJECT CONTACT Dana Lemerly
 PROJECT CONTACT PHONE NO. 615-680-7211

03221158

PURCHASE ORDER NO. _____

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
WH2318	SOIL	255g	None	2378-TUDD 6Wskrs	
WH2319	LIQUID	250ml	None	8 8	account total liquid volume
WH2320	LIQUID	240ml	None	2378-TUDD 6Wskrs	
WH2063	SOIL				

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)
 Normal _____ Rush (Subject to rush surcharge)
 POSSIBLE HAZARD IDENTIFICATION: (Please Indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances)
 Nonhazardous _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____
 (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, and disposal.)
 Return to Client Disposal by Lab _____

FOR LAB USE ONLY
 Received By Cynthia Kasper Date/Time 07/28/88 0930

EXPRESS

849/641551

DATE 07/27/88

3 1795

AIRBILL NUMBER 3447641551		To (Recipient's Name) STIMMS ANALYTICAL		Recipient's Phone Number (Very Important) 37 291-6692
From (Your Name) DOUG PEERY		Your Phone Number (Very Important) (WV) 690-3211		Company STIMMS ANALYTICAL
Company IT CORP		Department/Floor No. BLDG 500		Department/Floor No.
Street Address 9041 EXCLUSIVE PARK RD		Exact Street Address (Use of P.O. Boxes or P.O. Zip Codes Will Delay Delivery And Result in Extra Charge.) 637U PROWELL TRAIL		
City KNOXVILLE TN		City FORTANAPOLIS TN		State 46268
State TN		State TN		ZIP Street Address Zo Required 46268
ZIP Required For Correct Mailing 37923		ZIP Required For Correct Mailing 37923		
YOUR BILLING REFERENCE INFORMATION (FIRST 24 CHARACTERS WILL APPEAR ON INVOICE) 48 0078-01-00-01				
PAYMENT <input checked="" type="checkbox"/> Bill Sender <input type="checkbox"/> Bill Recipient's FedEx Acct. No. <input type="checkbox"/> Bill 3rd Party FedEx Acct. No. <input type="checkbox"/> Bill Credit Card			HOLD FOR PICK-UP AT THIS FEDERAL EXPRESS LOCATION: Street Address (See Service Guide or Call 800-230-5355)	
<input type="checkbox"/> Cash <input type="checkbox"/> Check			City State	
SERVICES CHECK ONLY ONE BOX			ZIP * Zip Code of Street Address Required	
1 <input checked="" type="checkbox"/> PRIORITY 2 Overnight Delivery Using Your Packaging When Using ICAO Regulations, please use appropriate boxes. Do not mark for DDP or DDU unless you are a DDP or DDU shipper. <input type="checkbox"/> Cargo Aerial only <input type="checkbox"/> Dangerous goods require special handling. See appropriate boxes. Do not mark for DDP or DDU unless you are a DDP or DDU shipper. <input type="checkbox"/> STANDARD AIR Delivery not later than second business day			Declared Value Charge	
2 <input type="checkbox"/> DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED			Origin Agent Charge	
3 <input type="checkbox"/> BOLD FOR PICK-UP Pick-up between 11:00 a.m. and 1:00 p.m.			Emp. No. _____ Date _____	
4 <input type="checkbox"/> DELIVER WEEKDAY			<input type="checkbox"/> Cash Received	
5 <input type="checkbox"/> DELIVER SATURDAY			<input type="checkbox"/> Return Unpaid	
6 <input type="checkbox"/> MARSHALLS GOODS See Service Guide for details. Additional charges apply.			<input type="checkbox"/> Third Party <input type="checkbox"/> On To Del.	
7 <input type="checkbox"/> CONSTANT SURVEILLANCE SERVICE (CSS) Requires charges. Do not combine with other services.			<input type="checkbox"/> On To Del.	
8 <input type="checkbox"/> NOYCE			Street Address (Use of P.O. Boxes or P.O. Zip Codes Will Delay Delivery And Result in Extra Charge.) 637U PROWELL TRAIL	
9 <input type="checkbox"/> OTHER SPECIAL SERVICE			City State Zip	
10 <input type="checkbox"/> SHIPMENT PICK-UP TO DESTINATION Extra charge			Total Charges	
11 <input type="checkbox"/> SHIPMENT PICK-UP TO DESTINATION Extra charge			Received At <input type="checkbox"/> Regular Stop <input type="checkbox"/> On-Call Stop <input type="checkbox"/> Drop Station	
12 <input type="checkbox"/> SHIPMENT PICK-UP TO DESTINATION Extra charge			Federal Express Corp. Employee No. 57772	
13 <input type="checkbox"/> SHIPMENT PICK-UP TO DESTINATION Extra charge			Date/Time For Flight-Express Use 7/27/1305	
14 <input type="checkbox"/> SHIPMENT PICK-UP TO DESTINATION Extra charge			Date/Time Received 0930 07/28/88	
15 <input type="checkbox"/> SHIPMENT PICK-UP TO DESTINATION Extra charge			PART #204173076 REVISION DATE 1/1986 PRINTED U.S.A. MORE	

AIRBILL NUMBER **3447641551** SHIPPER'S CERTIFICATION FOR RESTRICTED ARTICLES/DANGEROUS GOODS:
CHECK ONE CFR ICAO (TYPE OR PRINT)

HEXANE LIMITED QUANTITIES		FLAMMABLE LIQUIDS		29	
---------------------------	--	-------------------	--	----	--

ADDITIONAL DESCRIPTION REQUIREMENTS FOR		WHITE	<input type="checkbox"/>
RADIOACTIVE MATERIALS (SEE BACK)		YELLOW I	<input type="checkbox"/>
TRANSPORT DETAILS	THIS SHIPMENT IS WITHIN THE LIMITATIONS PRESCRIBED FOR	YELLOW II	<input type="checkbox"/>
AIRPORT OF DEPARTURE	AIRPORT OF DESTINATION	YELLOW III	<input type="checkbox"/>
	SHIPMENT TYPE	NONE	<input type="checkbox"/>
		NON-RADIOACTIVE	<input checked="" type="checkbox"/>
		CARGO AIRCRAFT ONLY	<input type="checkbox"/>
		(DELETE-NONAPPLICABLE)	
		NON-RADIOACTIVE	<input checked="" type="checkbox"/>
		(DELETE-NONAPPLICABLE)	
IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS OR TREATMENT.			
I HEREBY DECLARE THAT THE CONTENTS OF THIS CONSIGNMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE BY PROPER SHIPPING NAME AND ARE CLASSIFIED, PACKED, MARKED, AND LABELED, AND ARE IN ALL RESPECTS IN PROPER CONDITION FOR TRANSPORT BY AIR ACCORDING TO THE APPLICABLE INTERNATIONAL AND NATIONAL GOVERNMENT REGULATIONS.			

NAME AND TITLE OF SHIPPER **DOUG PEERY** PLACE AND DATE **IT WAS Packhamville RR 07/27/88**
EMERGENCY TELEPHONE NUMBER **615-690-3211** SIGNATURE OF SHIPPER **Doug Peery**
03221159 SEE WARNING ON BACK

method file name	range	dup	method file name	range	dup
A DATA:TMSD10.M	1:	1 1	M	:	:
B DATA:FLUSH.M	2:	2 1	N	:	:
C DATA:TMSD10.M	3:	20 1	O	:	:
D DATA:TMSD10.M	1:	1 1	P	:	:
E DATA:FLUSH.M	2:	2 1	Q	:	:
F DATA:TMSD10.M	21:	34 1	R	:	:
G	:	:	S	:	:
H	:	:	T	:	:
I	:	:	U	:	:
J	:	:	V	:	:
K	:	:	W	:	:
L	:	:	X	:	:



SAMPLE TABLE _____ DATA:4HER.S

Index Sample Identification

- 1....CALIBRATION SDLN 1
- 2....1SDOCTANE
- 3....METHOD BLANK 1
- 4....SD1L BLANK 1
- 5....SD1L SPIKE 1
- 6....PE 1
- 7....2060
- 8....2061
- 9....2108
- 10....2109
- 11....2110
- 12....2126
- 13....2127
- 14....2128
- 15....2286
- 16....2287



SAMPLE TABLE _____ DATA:4HER.S

Index Sample Identification

- 17....2289
- 18....2305
- 19....2306
- 20....2307
- 21....2311
- 22....2312
- 23....2313

03221160

020964

- 24....2314
- 25....2316
- 26....MB2
- 27....SB2
- 28....SS2
- 29....PER2
- 30....2317
- 31....2318
- 32....2319



Next	Previous		
Page	Page		

More			
Info			EXIT

SAMPLE TABLE _____ DATA:4HER.S

Index Sample Identification

- 33....2320
- 34....2063
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-

0200205



Next	Previous		
Page	Page		

More			
Info			EXIT



7-28-88

SHIPMENT NUMBER HER0803A

3 1798

TIALS JKN/LDS

TITLE #	EPA SAMPLE #	SAMPLE WEIGHT	EXTRACTION VOLUME	OPTION A CLEANUP	OPTION D CLEANUP	SPIKING SOL'N ADDED	COMMENTS
MB	Metablkank	5.00g	6.0ml	✓		25 ng II	
SB	OCL34550	5.00				"	
SS	OCL35568	5.00				25 ng I	
PE	PE-A	5.00				25 ng II	
WH 2311		5.07					soil
" 2312		5.15					
" 2313		5.03					
" 2314		5.18					
" 2316		5.08					
" 2317		5.15					
" 2318		5.05	✓				↓
" 2319		35 ml	35 ml				liquid
" 2320		4.0 ml	4.0 ml				"
" 2063		5.07	6.0 ml	↓		↓	soil
T							

020176



TANDEM MASS SPECTROMETRY

TMS ANALYTICAL SERVICES, INC.

3 1799

6376 Merona Trail
Indianapolis, Indiana 46208
(317)291-5697

August 11, 1988

020247

Dr. Florence K. Kinoshita
Medical Department
Hercules Incorporated
1313 N. Market Street
Wilmington, DE 19894

Dear Dr. Kinoshita:

Enclosed are analytical results for the analysis of 6 samples for 2,3,7,8-TCDD. These samples were analyzed according to the procedures outlined in the USEPA Contract Laboratory Program "Statement of Work for Rapid Turnaround Dioxin Analysis in Multi-Media", November 1986. Sample preparation and analysis procedures from the "Rapid Determination of TCDD In Soil and Sediment Samples, Using Gas Chromatography and Tandem Mass Spectrometry" were used, and analysis of the extracts was by the HRGC/LRMS procedures. These samples were received as Shipment HERCULES for analysis on 08/02/88 at 09:20. The analytical results of Filename ~~HER003A~~ were sent by FAX at 09:45 on August 5, 1988. *08024*

If you should have any questions regarding these data or this report, please feel free to contact me at (317)291-5697.

Very truly yours,

Dennis L. Heuring, Ph.D.
President

ENCLOSURES:

03221163

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ATTACHMENT 5 CHAIN OF CUSTODY, GC/MS/MS LOG, EXTRACTION RECORD

020940

TCDD FINAL DATA REPORT SHEET

FILE RECEIVED DATE:
FILE RECEIVED TIME:

SITE: HER
CASE: 0802
DATE: 08/08/88

AREA #	CLIENT SAMPLE #	ANALYSIS DATE TIME	RATIO 320/322	RATIO 332/334	SURROGATE ACC	TCDD CONC.	RERUN CODE	VALID CODE	UNITS	COMMENTS
METHBLANK	METHBLNK	08/03/88 1851	1.00*	0.80	71.28	0.300 U			NG/GM	
SDILBLANK	SDILBLNK	08/03/88 1925	1.00*	0.80	72.07	0.300 U			NG/GM	
SDILSPIKE	SOILSPKE	08/03/88 1959	0.79	0.80	81.93	0.821			NG/GM	
PE-B	PE -B	08/03/88 2033	0.79	0.81	70.03	3.630			NG/GM	
WH2260	WH2260	08/03/88 2107	0.76	0.79	72.28	0.867			NG/GM	
WH2261	WH2261	08/03/88 2141	0.76	0.79	70.23	1.476			NG/GM	
WH2262	WH2262	08/03/88 2215	0.81	0.79	70.51	1.255			NG/GM	

QUALIFICATION FLAGS:

- * 320/322 OR 332/334 RATIO OUTSIDE OF ACCEPTABLE RANGE
- ** SURROGATE OUTSIDE OF ACCEPTABLE RANGE
- *** HIGH DETECTION LIMIT

RERUN CODES:

- A AUTOMATIC RERUN
- R REQUESTED RERUN

SPECIAL INSTRUCTIONS (IF ANY):

020347

LR/GC/MS WORKSHEET REPORT FORM

SITE: HER
CASE: 0802
DATE: 08/08/88

SURROGATE CONC 0.06 RRF NATIVE 1.110
INTERNAL STD CONC 1.05 RRF SURROGATE 1.336

LAB	CLIENT	SAMPLE	ION 320	ION 322	ION 328	ION 332	ION 334	RATIO	RATIO	SURR	RAW	
SAMPLE #	AREA #	SAMPLE #	AMOUNT					320/322	332/334	ACC	VALUE	
0803C04A	METHBLANK	METHBLNK	5.00	1	1	120424	281155	351348	1.00*	0.80	71.28	0.000 NG/GM
0803C05A	SOILBLANK	SOILBLNK	5.00	1	1	119050	275187	343236	1.00*	0.80	72.07	0.000 NG/GM
0803C06A	SOILSPIKE	SOILSPKE	5.00	73184	92597	199828	405225	504122	0.79	0.80	81.93	0.821 NG/GM
0803C07A	PE-B	PE -B	5.00	220066	280492	118653	277326	343514	0.79	0.81	70.03	3.630 NG/GM
0803C08A	WH2260	WH2260	4.98	41051	54016	96237	219336	276601	0.76	0.79	72.28	0.867 NG/GM
0803C09A	WH2261	WH2261	5.00	65240	86225	87456	204175	257902	0.76	0.79	70.23	1.476 NG/GM
0803C10A	WH2262	WH2262	5.03	79544	98401	120450	280847	353970	0.81	0.79	70.51	1.255 NG/GM

TABLE 2

LR/BC/MS DAILY CALIBRATION CHECK

MEAN NATIVE RF 1.110
 MEAN SURROGATE RF 1.336

NATIVE CONC. 0.20
 SURROGATE CONC. 0.06
 INTERNAL STD. CONC.: 1.05

SITE: HER
 DATE: 08/08/88
 CASE: 0802

ANALYSIS DATE	ANALYSIS TIME	ION 320	ION 322	ION 328	ION 332	ION334	RATIO 320/322	RATIO 332/334	RRF NATIVE	NATIVE RRF %DIFF.	RRF SURROGATE	SURROGATE RRF % DIFFERENCE
08/03/88	1802	162519	208618	135565	823202	1029533	0.779	0.800	1.052	5.23	1.263	5.46

* ION RATIO MUST BE WITHIN ACCEPTABLE RANGE OF INITIAL CALIBRATION
 ** NATIVE % DIFFERENCE MUST BE LESS THAN 10% FROM INITIAL CALIBRATION

020051

03221167

TABLE 1 LR/GC/MS INITIAL CALIBRATION

 SITE CODE: HEF
 CASE NO.: 0802
 DATE: 12/10/87

SOLUTION ID	ION 320	ION 322	ION 328	ION 332	ION 334	NATIVE CONC	SURROGATE CONC	INT. STD CONC	RF NATIVE	RF SURROGATE	RATIO 320/322	RATIO 332/334
CC1-1	81667	103594	64544	388540	508121	0.20	0.06	1.05	1.085	1.241	0.788	0.765
CC1-2	55207	69533	44177	270167	334764	0.20	0.06	1.05	1.083	1.260	0.794	0.807
CC1-3	52633	70447	46204	245540	304190	0.20	0.06	1.05	1.175	1.260	0.747	0.807
								MEAN	1.114	1.254		
								STD DEV	0.053	0.011		
								% RSD	4.76	0.88		
CC2-1	421706	555954	147075	401101	515970	1.00	0.11	1.05	1.119	1.479	0.759	0.737
CC2-2	446509	563866	154612	415810	542426	1.00	0.11	1.05	1.129	1.488	0.765	0.767
CC2-3	465248	597732	158244	436747	557568	1.00	0.11	1.05	1.123	1.468	0.778	0.783
								MEAN	1.124	1.478		
								STD DEV	0.005	0.010		
								% RSD	0.44	0.68		
CC3-1	1874520	2435132	225524	365137	460954	5.00	0.20	1.05	1.096	1.294	0.770	0.792
CC3-2	1930166	2487907	225238	377126	477220	5.00	0.20	1.05	1.086	1.247	0.776	0.790
CC3-3	1860633	2416488	221614	362437	455495	5.00	0.20	1.05	1.098	1.283	0.770	0.796
								MEAN	1.093	1.275		
								STD DEV	0.006	0.025		
								% RSD	0.59	1.96		

 RF NATIVE OVERALL MEAN 1.110
 STD DEV 0.016
 % RSD 1.399

 RF SURROGATE OVERALL MEAN 1.336
 STD DEV 0.124
 % RSD 9.292

 * RF NATIVE % RELATIVE STANDARD DEVIATION MUST BE LESS THAN 10%
 ** RATIO OF 320/322 OR RATIO OF 332/334 OUTSIDE OF ACCEPTABLE RANGE

ATTACHMENT 1
SAMPLE MASS CHROMATOGRAMS

020953

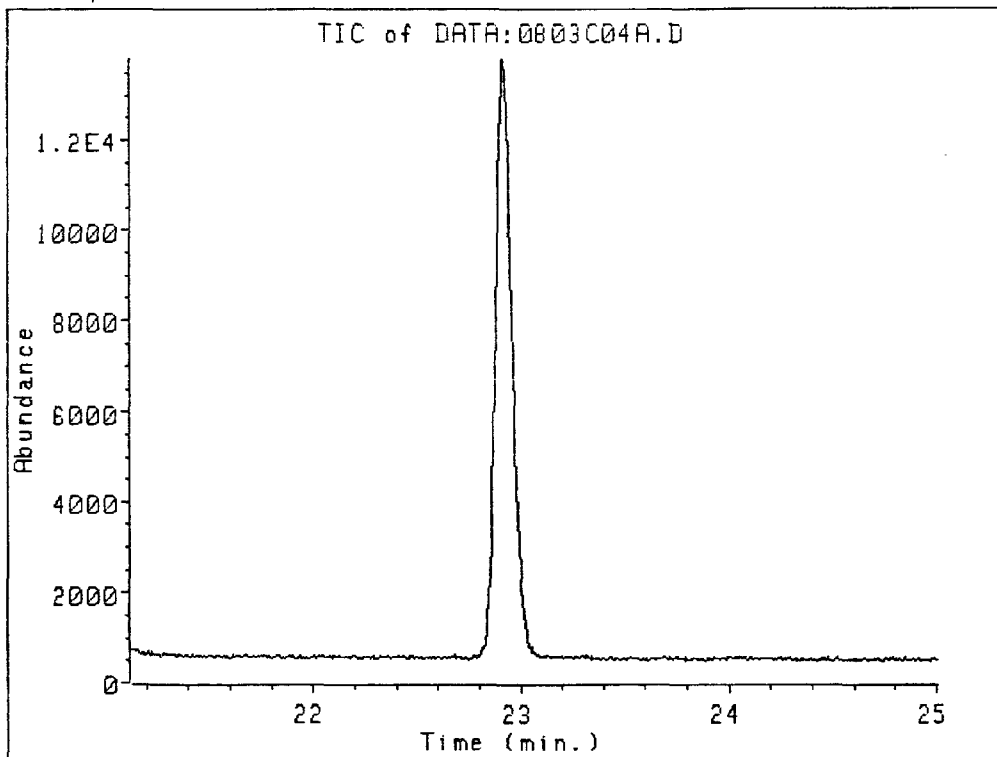
Data file: DATA:0803C04A.D
File type: GC / MS DATA FILE

3 1806

Name Info: HERC. METHOD BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:51 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1



03221170

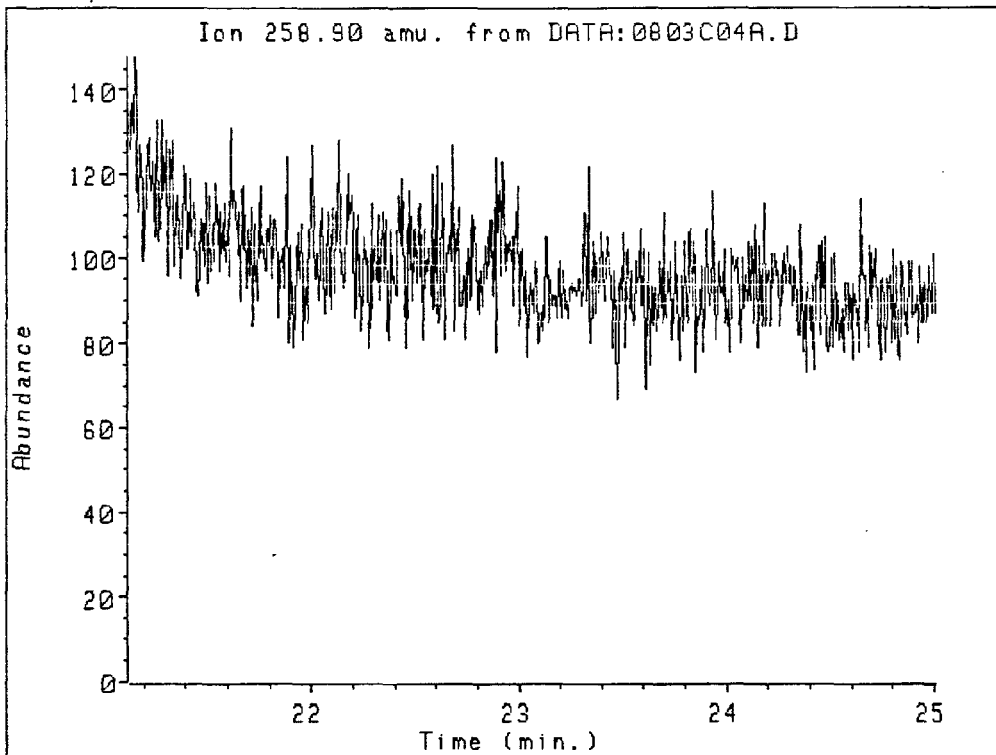
Date file: DATA:0803C04A.D
File type: GC / MS DATA FILE

3 1807

Name Info: HERC. METHOD BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:51 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1



Ion 258.90 amu. from DATA:0803C04A.D
HERC. METHOD BLANK

No peaks detected

03221171

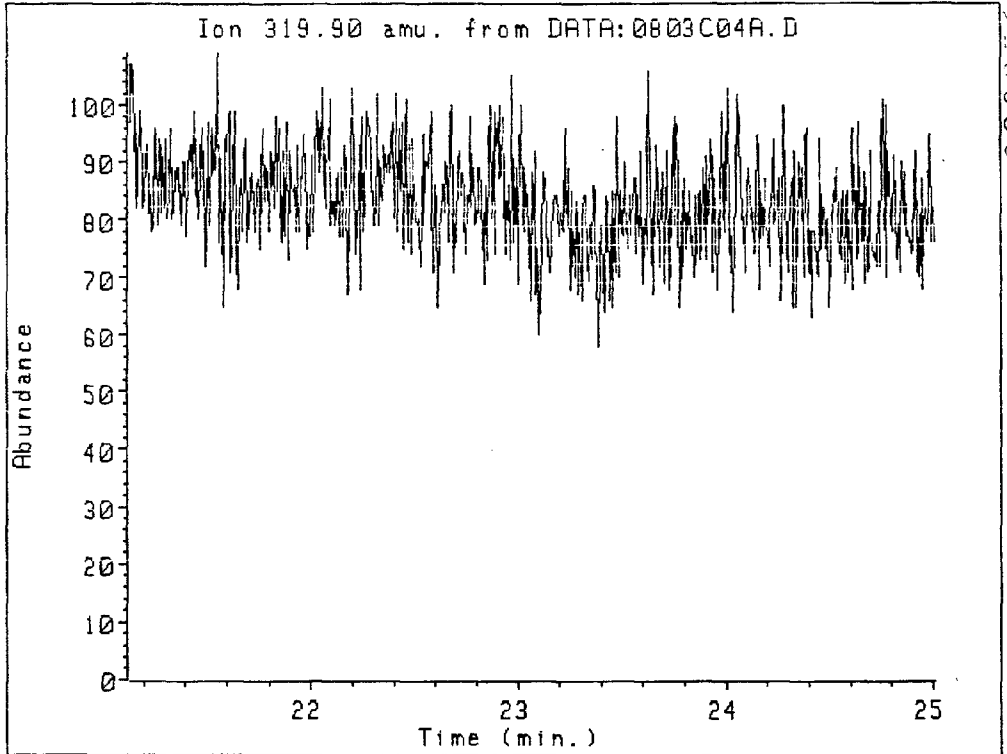
Data file: DATA:0803C04A.D
File type: GC / MS DATA FILE

3 1808

Name Info: HERC. METHOD BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:51 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1



Ion 319.90 amu. from DATA:0803C04A.D
HERC. METHOD BLANK

No peaks detected

03221172

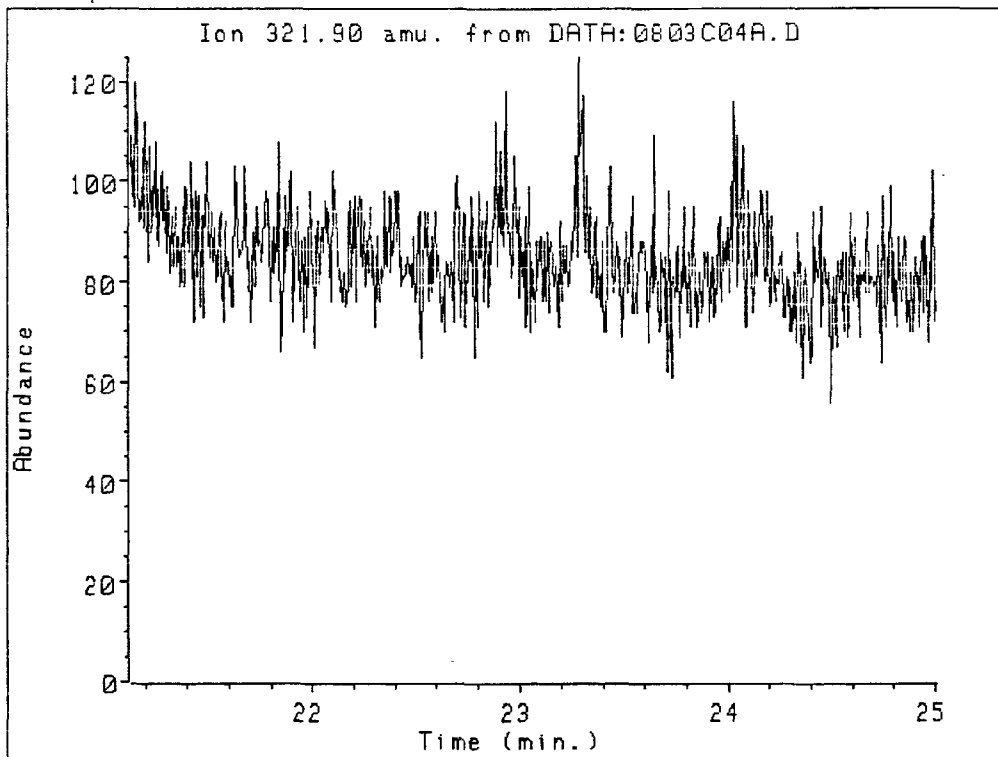
Data file: DATA:0803C04A.D
File type: GC / MS DATA FILE

3 1809

Name Info: HERC. METHOD BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:51 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1



Ion 321.90 amu. from DATA:0803C04A.D
HERC. METHOD BLANK

No peaks detected

03221173

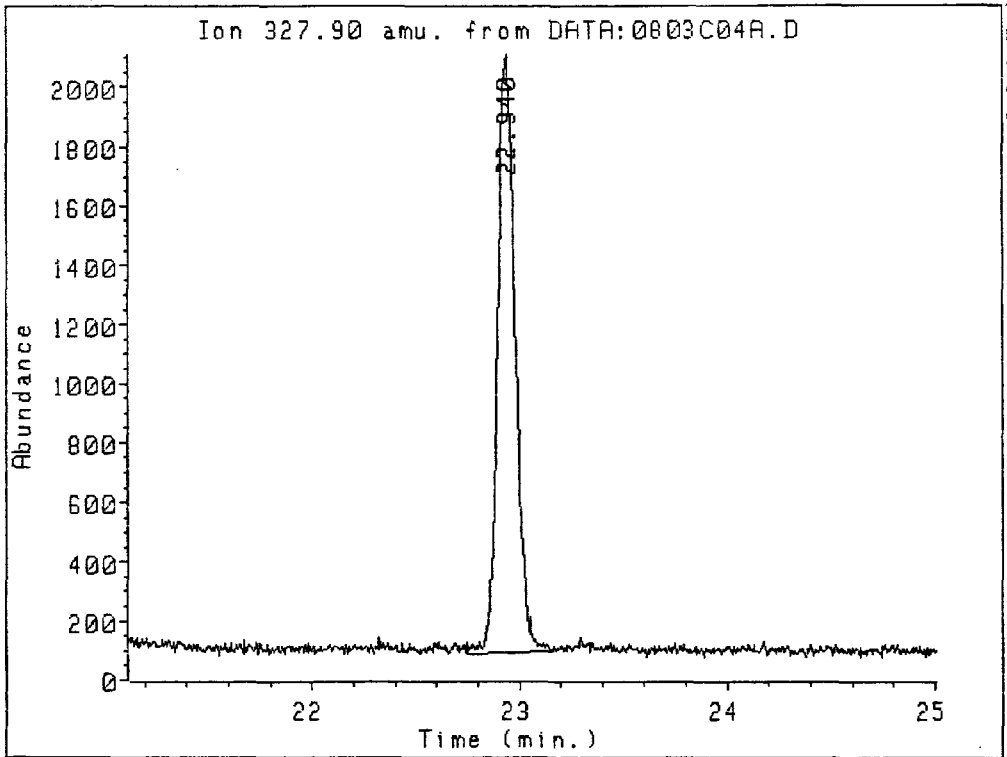
Data file: DATA:0803C04A.D
File type: GC / MS DATA FILE

3 1810

Name Info: HERC. METHOD BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:51 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1



Ion 327.90 amu. from DATA:0803C04A.D
HERC. METHOD BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.940	PV	0.091	120424	22.750	23.155

03221174

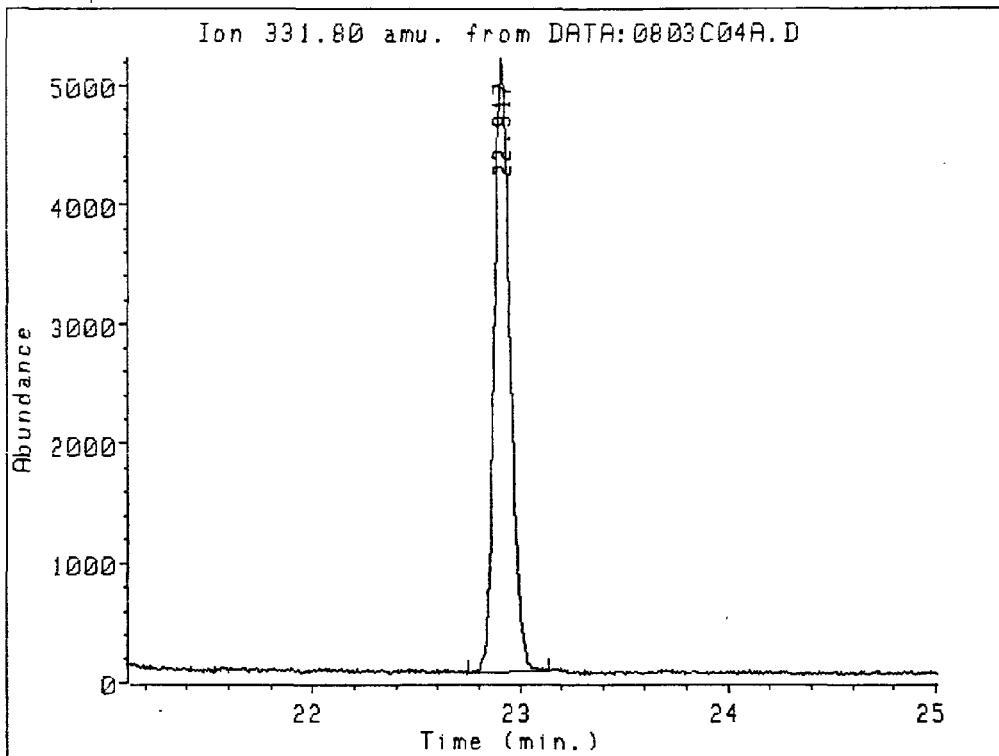
Data file: DATA:0803C04A.D
File type: GC / MS DATA FILE

3 1811

Name Info: HERC. METHOD BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:51 pm
Instrument: MS_5970
inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1



Ion 331.80 amu. from DATA:0803C04A.D
HERC. METHOD BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.917	BV	0.087	281155	22.748	23.140

03221175

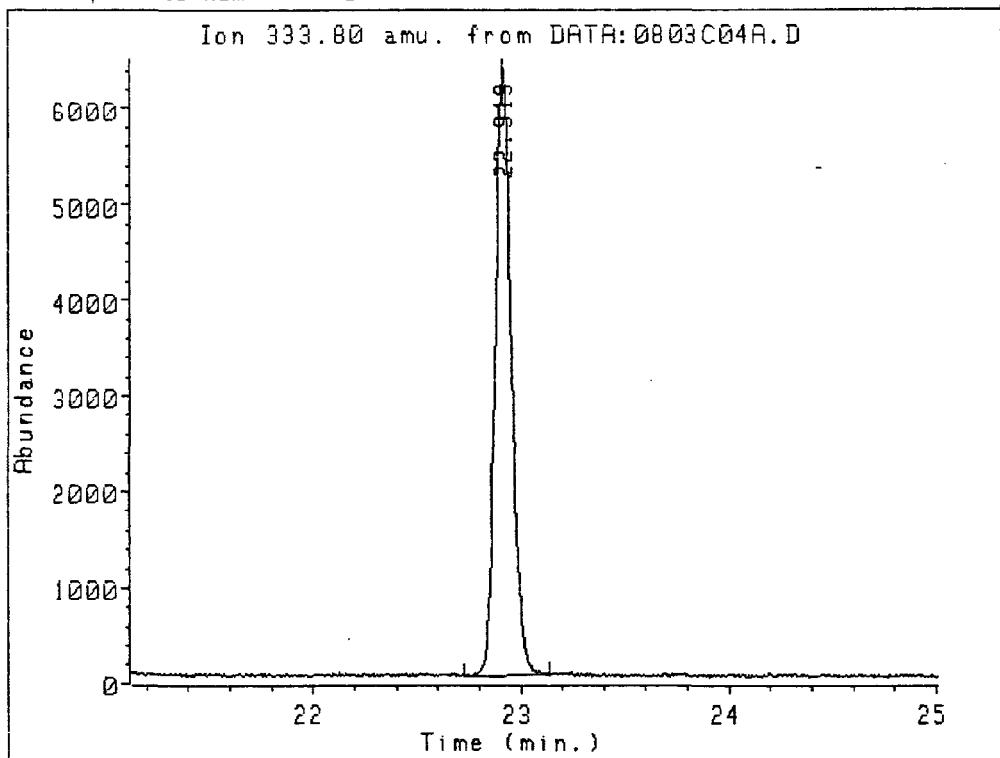
Data file: DATA:0803C04A.D
File type: GC / MS DATA FILE

3 1812

Name Info: HERC. METHOD BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:51 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 4
Replicate num : 1



Ion 333.80 amu. from DATA:0803C04A.D
HERC. METHOD BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.919	PU	0.085	351348	22.730	23.139

03221176

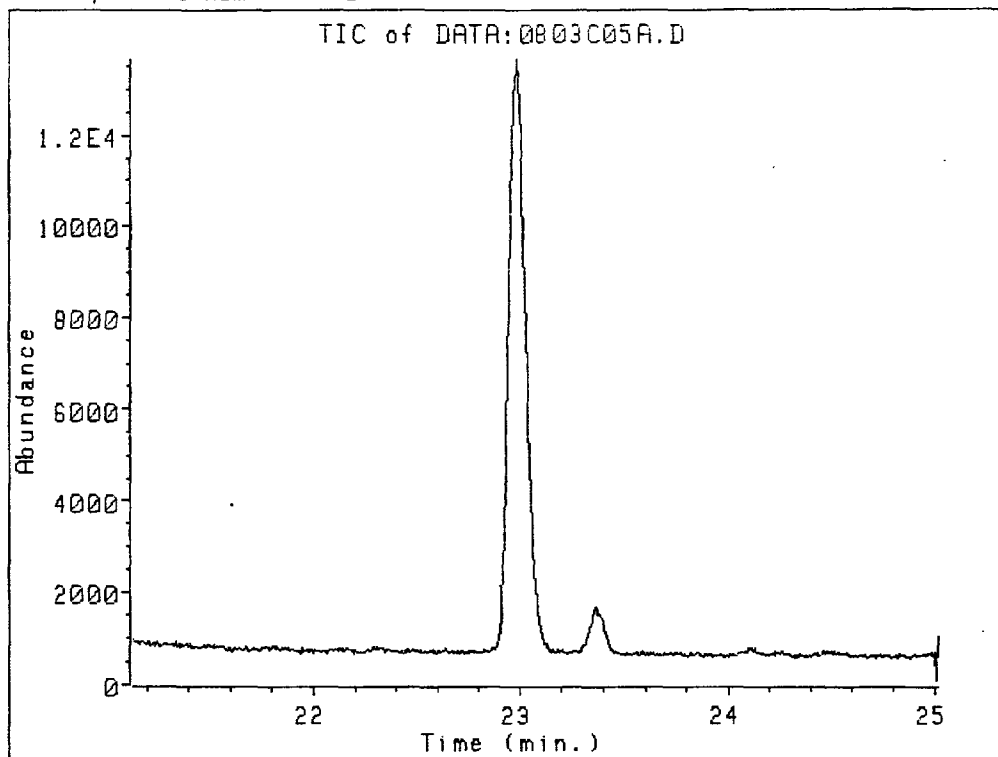
Data file: DATA:0803C05A.D
File type: GC / MS DATA FILE

3 1813

Name Info: SOIL BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:25 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1

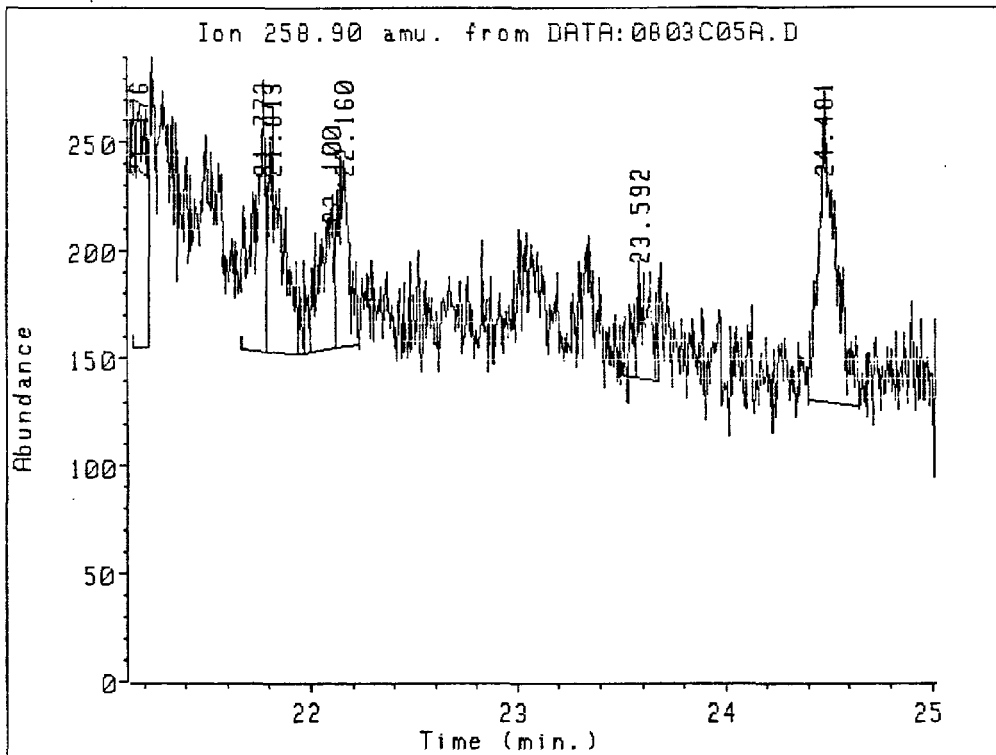


03221177

Name Info: SOIL BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:25 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1



Ion 258.90 amu. from DATA:0803C05A.D
SOIL BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.176	PH	0.058	4562	21.146	21.226
2	21.773	VV	0.053	4702	21.668	21.792
3	21.813	VV	0.084	4787	21.792	21.966
4	22.100	PV	0.077	3456	21.966	22.122
5	22.160	VV	0.050	3033	22.122	22.232
6	23.592	BV	0.074	2397	23.515	23.680
7	24.481	VV	0.093	8151	24.399	24.649

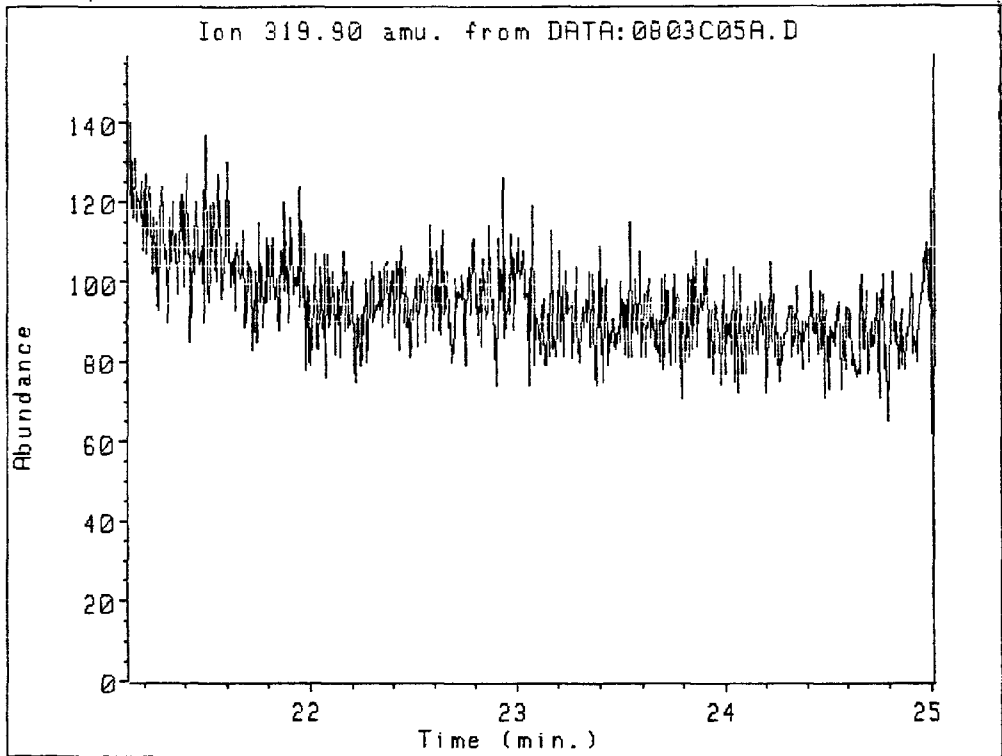
Data file: DATA:0803C05A.D
File type: GC / MS DATA FILE

3 1815

Name Info: SOIL BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:25 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1



Ion 319.90 amu. from DATA:0803C05A.D
SOIL BLANK

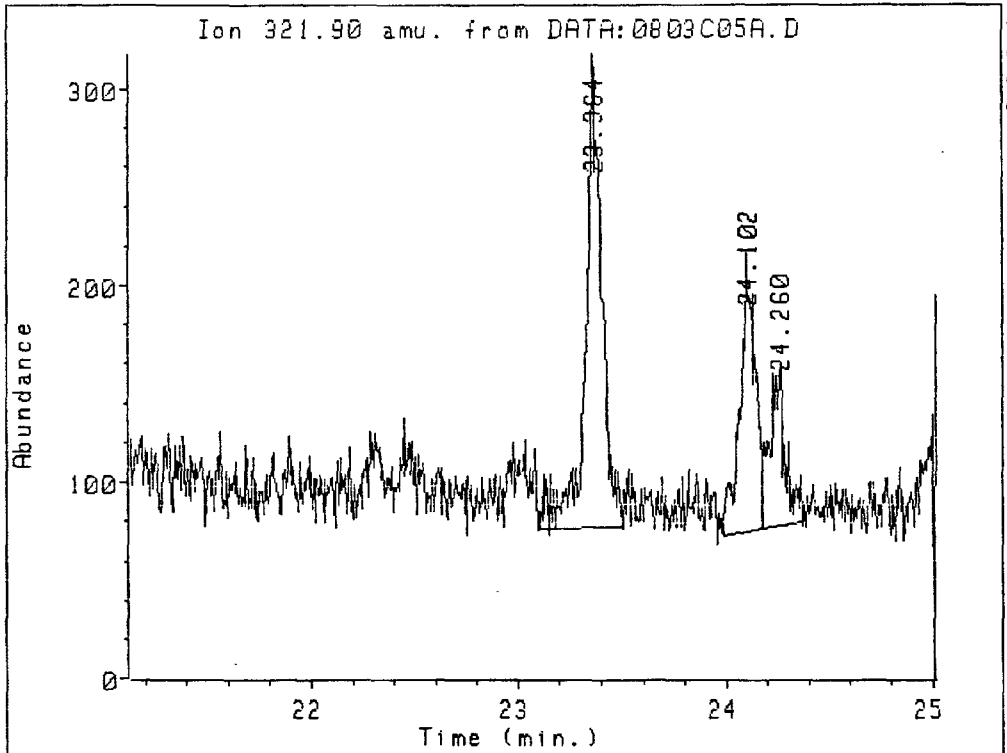
No peaks detected

03221179

Name Info: SOIL BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:25 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1



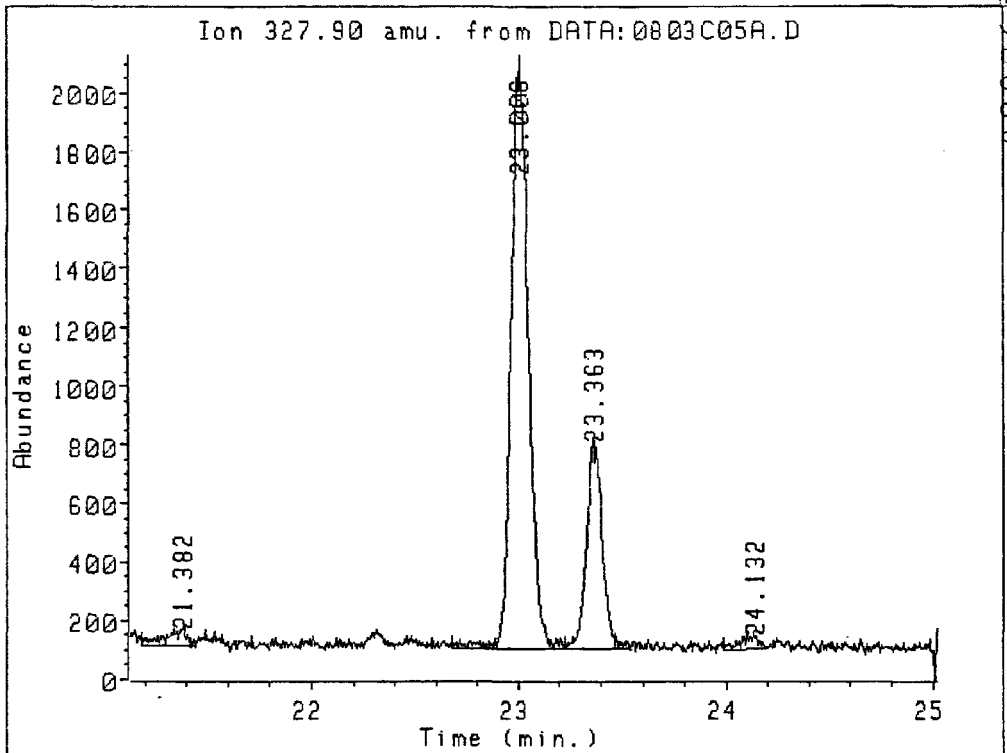
Ion 321.90 amu. from DATA:0803C05A.D
SOIL BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	23.364	BV	0.072	13062	23.110	23.506
2	24.102	BV	0.083	7105	23.988	24.177
3	24.260	VB	0.070	4229	24.177	24.372

Name Info: SOIL BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:25 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1



Ion 327.90 amu. from DATA:0803C05A.D
SOIL BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.382	UU	0.096	4044	21.190	21.442
2	23.006	PV	0.085	119050	22.680	23.228
3	23.363	UU	0.075	37765	23.228	23.539
4	24.132	UU	0.081	3138	23.991	24.195

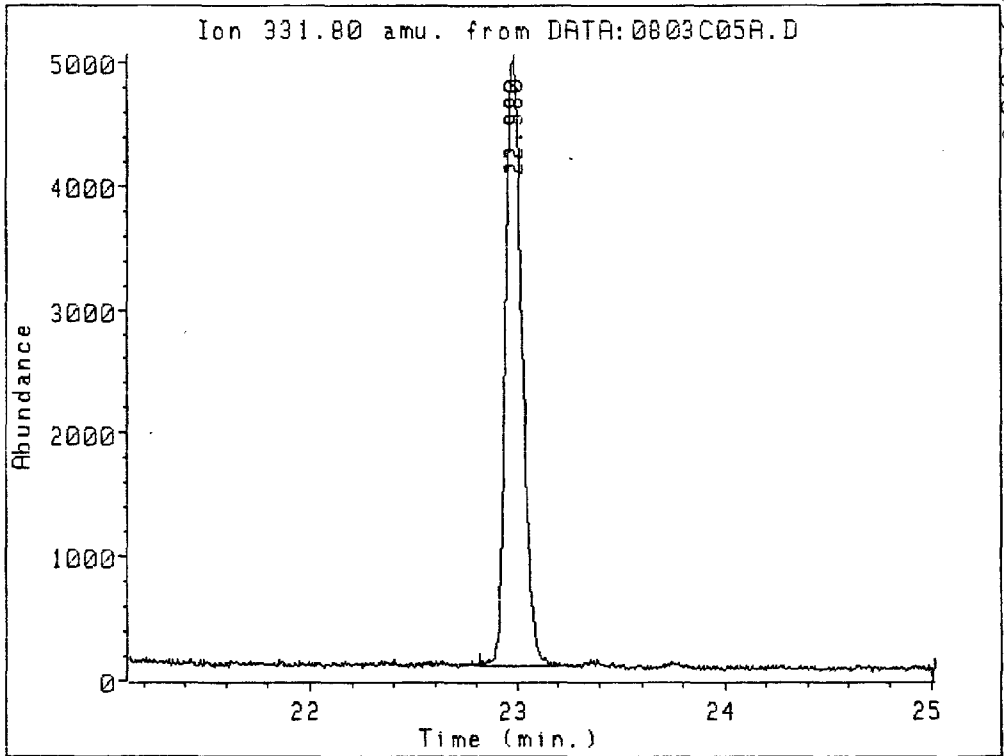
Data file: DATA:0803C05A.D
File type: GC / MS DATA FILE

3 1818

Name Info: SOIL BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:25 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 5
Replicate num : 1



020766

Ion 331.80 amu. from DATA:0803C05A.D
SOIL BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.980	PV	0.084	275187	22.811	23.210

03221182

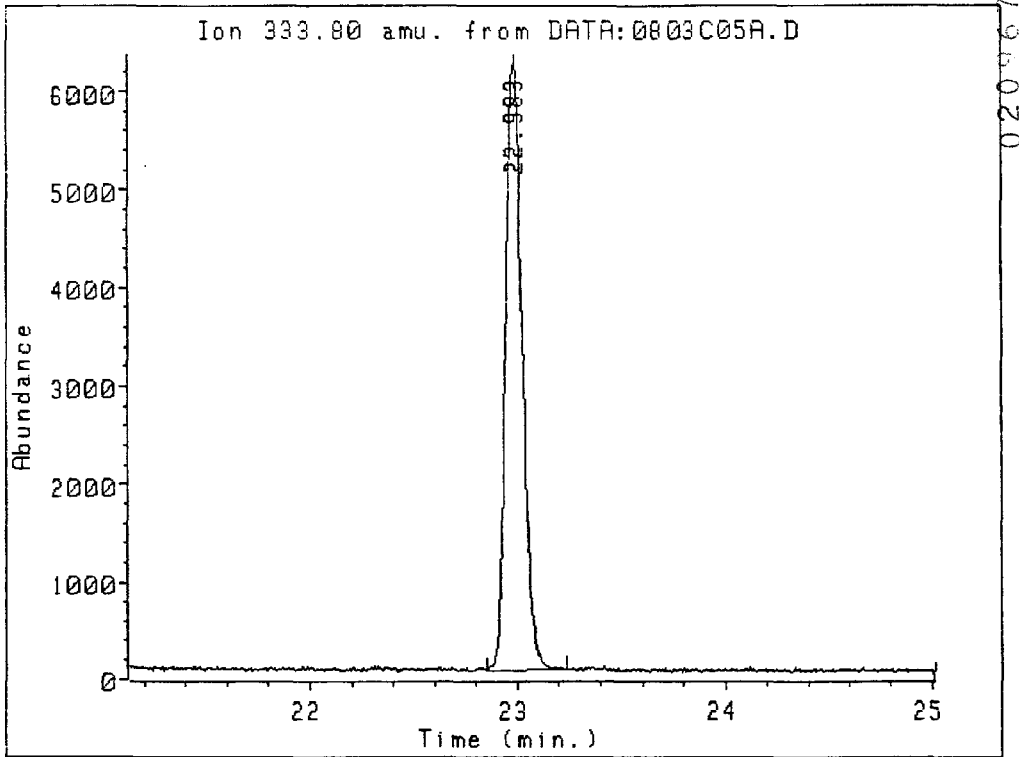
14
Data file: DATA:0803C05A.D
File type: GC / MS DATA FILE

3 1819

Name Info: SOIL BLANK
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:25 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 5
Replicate num : 1



Ion 333.80 amu. from DATA:0803C05A.D
SOIL BLANK

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.983	UV	0.084	343236	22.847	23.232

03221183

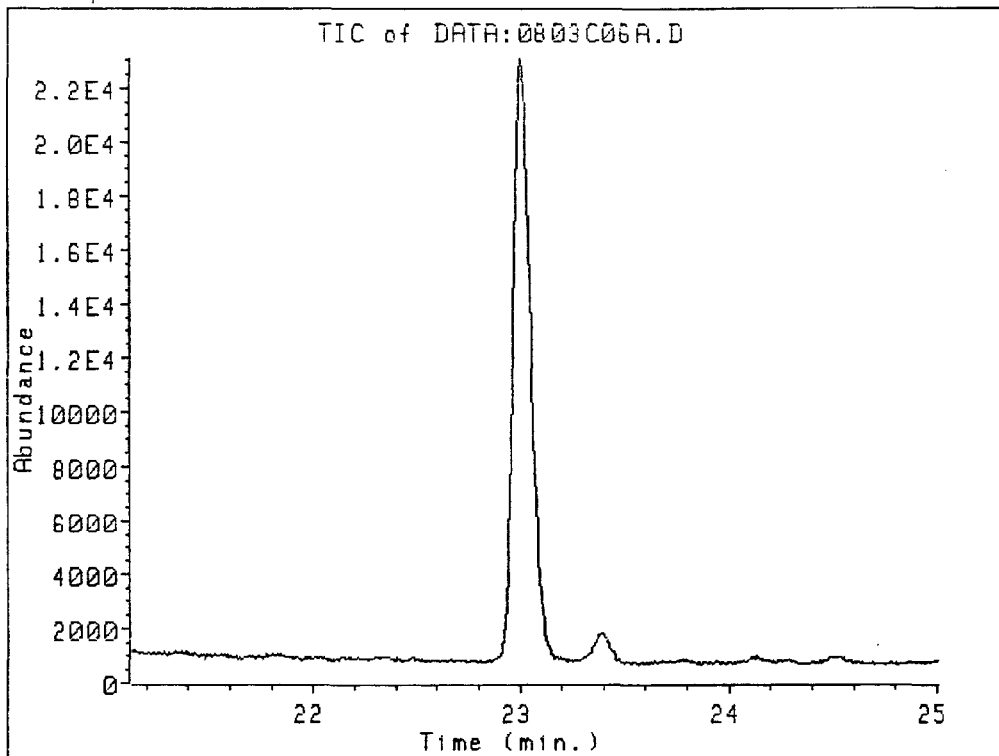
35
Data file: DATA:0803C06A.D
File type: GC / MS DATA FILE

3 1820

Name Info: SOIL SPIKE
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:59 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 0
Replicate num : 1



03221184

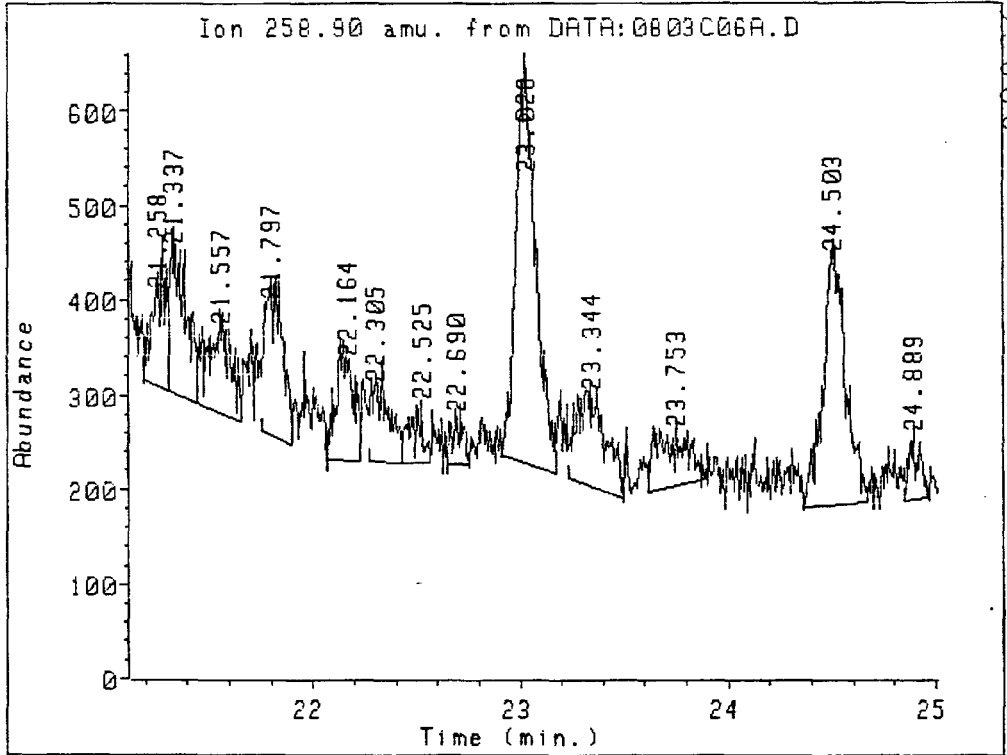
Data file: DATA:0803C06A.D
File type: GC / MS DATA FILE

3 1821

Name Info: SOIL SPIKE
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:59 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 6
Replicate num : 1



Ion 258.90 amu. from DATA:0803C06A.D
SOIL SPIKE

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.258	PU	0.071	5557	21.198	21.314
2	21.337	UU	0.089	8491	21.314	21.451
3	21.557	UU	0.129	7465	21.451	21.658
4	21.797	UU	0.082	9389	21.757	21.901
5	22.164	PU	0.091	6982	22.071	22.233
6	22.305	UU	0.099	5122	22.275	22.430
7	22.525	UU	0.053	2656	22.430	22.571
8	22.690	UU	0.049	2045	22.648	22.756
9	23.028	BU	0.081	27957	22.915	23.172
10	23.344	UU	0.131	9745	23.238	23.496
11	23.753	UU	0.148	6124	23.621	23.900
12	24.503	PU	0.101	20335	24.365	24.669

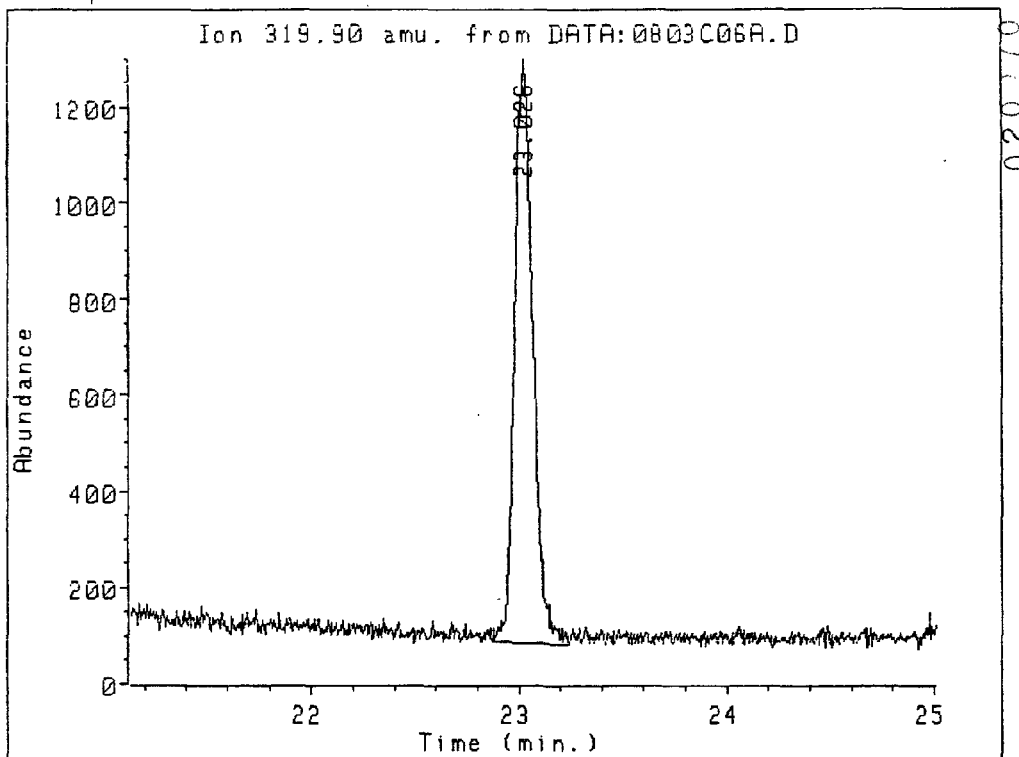
Data file: DATA:0803C06A.D
File type: GC / MS DATA FILE

3 1822

Name Info: SOIL SPIKE
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:59 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 6
Replicate num : 1



Ion 319.90 amu. from DATA:0803C06A.D
SOIL SPIKE

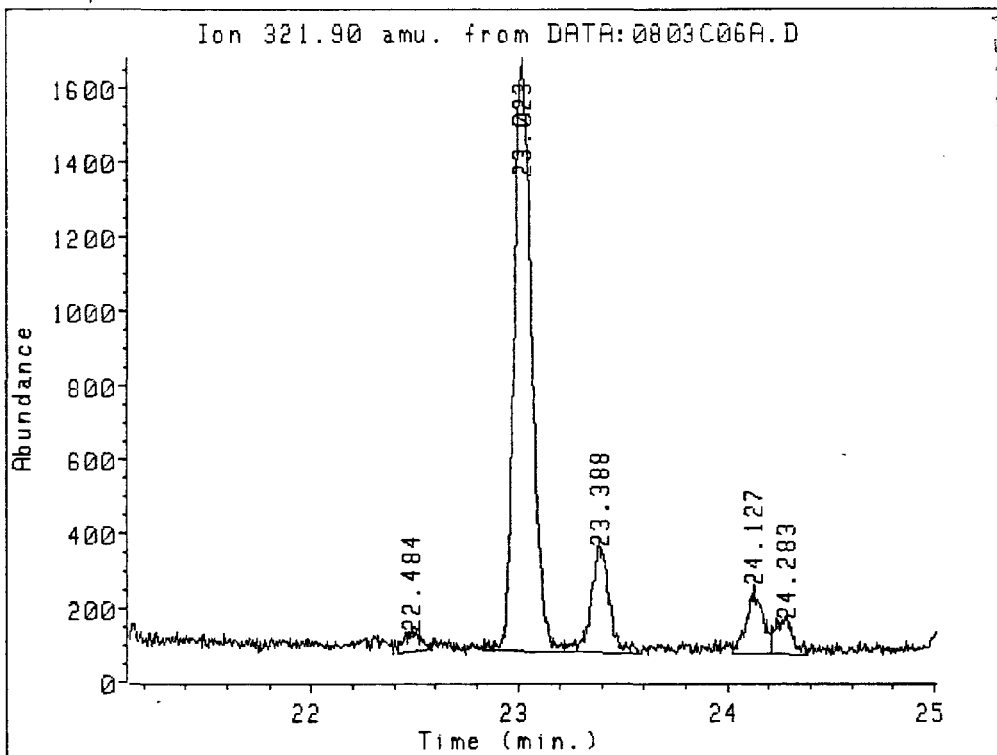
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	23.026	BV	0.080	73184	22.873	23.244

03221186

Name Info: SOIL SPIKE
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:59 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 6
Replicate num : 1



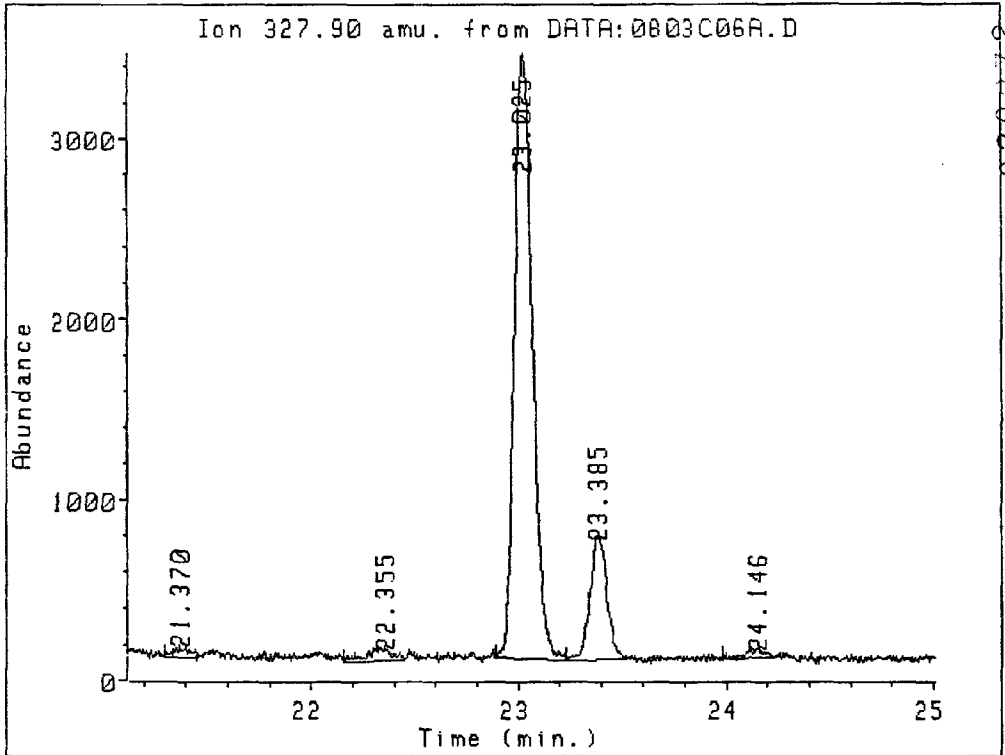
Ion 321.90 amu. from DATA:0803C06A.D
SOIL SPIKE

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.484	BB	0.075	3174	22.418	22.583
2	23.023	BV	0.084	92597	22.837	23.220
3	23.388	VV	0.080	17066	23.220	23.591
4	24.127	VV	0.067	9817	24.024	24.214
5	24.283	VV	0.070	5649	24.214	24.384

Name Info: SOIL SPIKE
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:59 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 6
Replicate num : 1



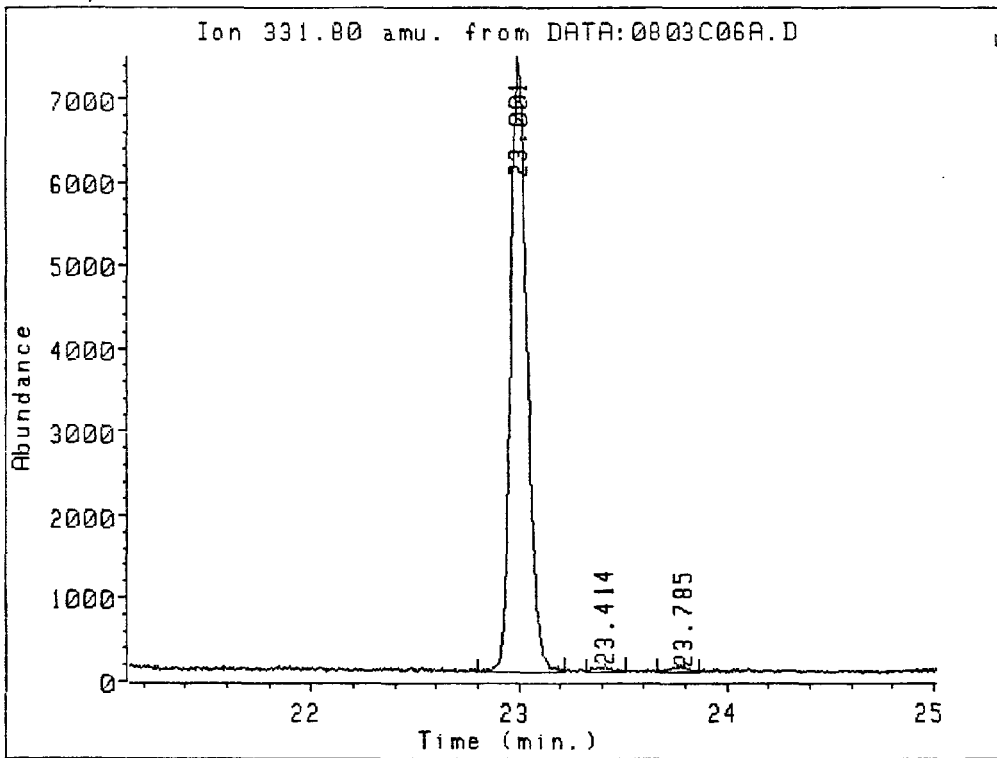
Ion 327.90 amu. From DATA:0803C06A.D
SOIL SPIKE

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.370	PV	0.065	3127	21.299	21.454
2	22.355	PV	0.122	6560	22.158	22.451
3	23.025	PV	0.088	199828	22.894	23.232
4	23.385	PV	0.085	38723	23.232	23.521
5	24.146	PV	0.085	3504	23.977	24.226

Name Info: SOIL SPIKE
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:59 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 6
Replicate num : 1



Ion 331.80 amu. from DATA:0803C06A.D
SOIL SPIKE

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	23.001	PV	0.082	405225	22.804	23.223
2	23.414	UV	0.054	3971	23.326	23.511
3	23.785	UV	0.071	4784	23.661	23.868

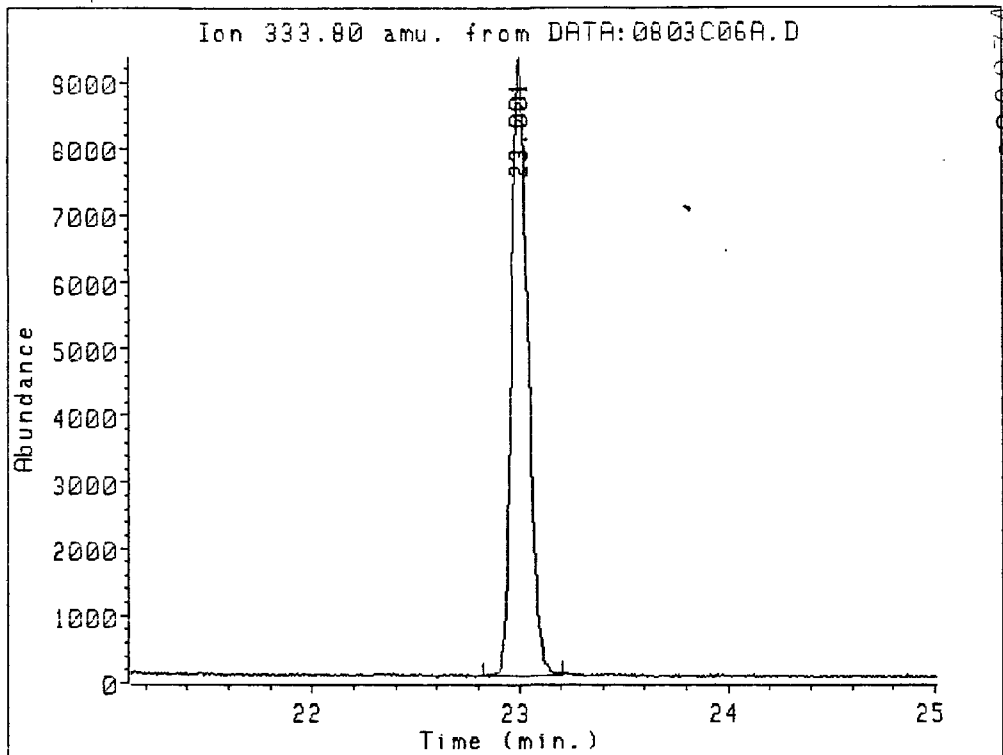
21
Data file: DATA:0803C06A.D
File type: GC / MS DATA FILE

3 1826

Name Info: SOIL SPIKE
Misc Info:
Operator : TMS

Date : 3 Aug 88 7:59 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 6
Replicate num : 1



Ion 333.80 amu. from DATA:0803C06A.D
SOIL SPIKE

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	23.001	BV	0.085	504122	22.822	23.206

03221190

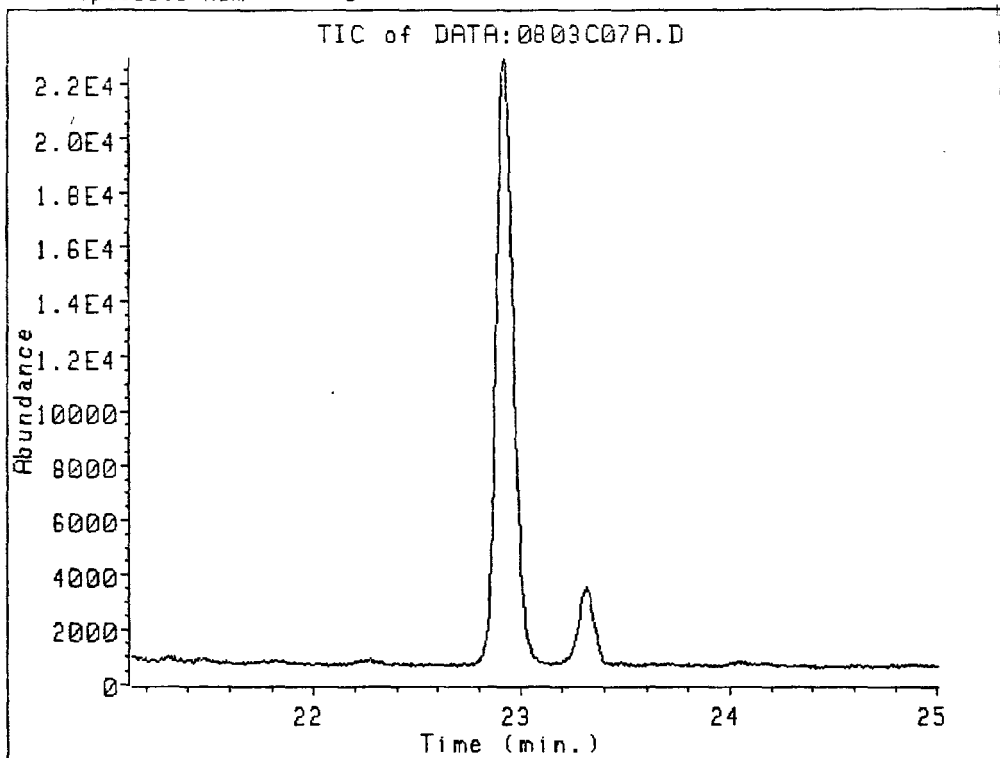
Data file: DATA:0803C07A.D
File type: GC / MS DATA FILE

3 1827

Name Info: PE - B
Misc Info:
Operator : TMS

Date : 3 Aug 88 8:33 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1



03221191

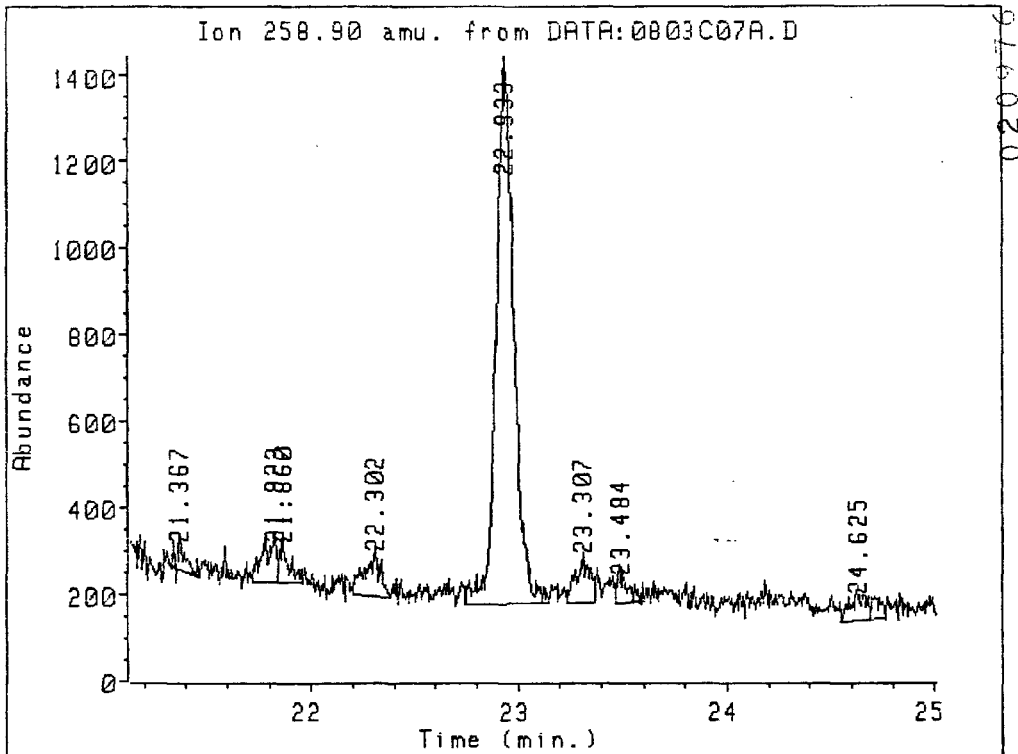
Data file: DATA:0803C07A.D
File type: GC / MS DATA FILE

3 1828

Name Info: PE - B
Misc Info:
Operator : TMS

Date : 3 Aug 88 8:33 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1



Ion 258.90 amu. from DATA:0803C07A.D
PE - B

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.367	PV	0.047	2182	21.326	21.463
2	21.823	UU	0.076	4516	21.716	21.842
3	21.860	VB	0.041	2830	21.842	21.960
4	22.302	UU	0.068	5471	22.198	22.377
5	22.933	PV	0.080	74938	22.744	23.146
6	23.307	UU	0.063	4851	23.235	23.371
7	23.484	UU	0.061	2472	23.468	23.604
8	24.625	PV	0.132	4828	24.551	24.763

03221192

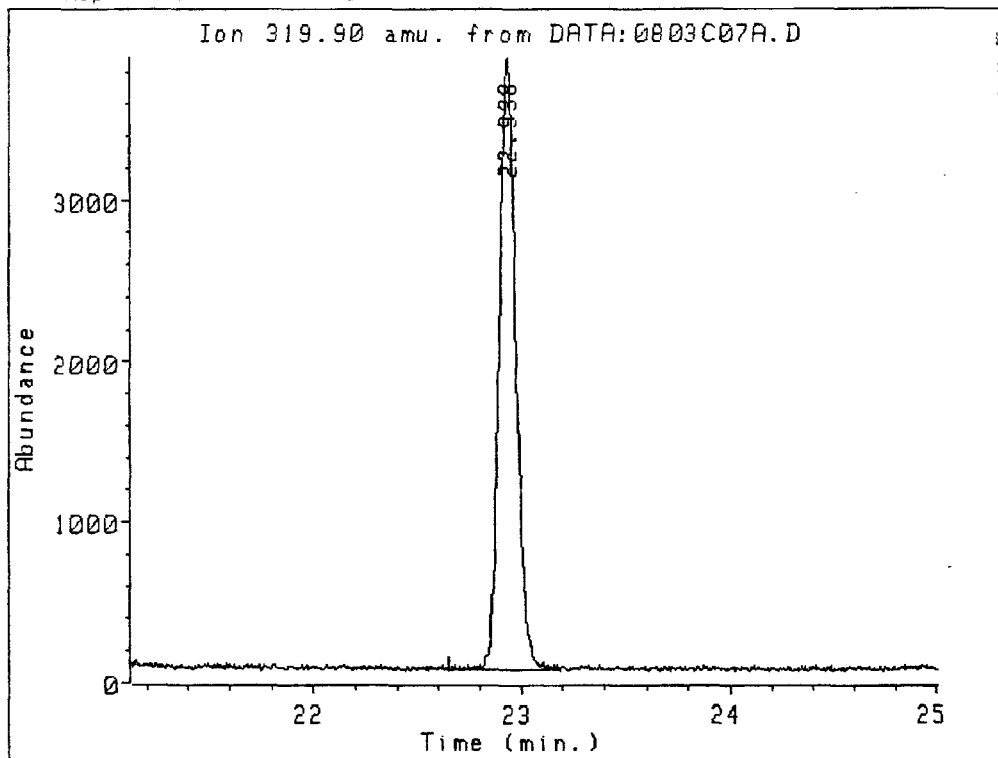
Data file: DATA:0803C07A.D
File type: GC / MS DATA FILE

3 1829

Name Info: PE - B
Misc Info:
Operator : TMS

Date : 3 Aug 88 8:33 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1



Ion 319.90 amu. from DATA:0803C07A.D
PE - B

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.938	PV	0.090	220066	22.650	23.185

03221193

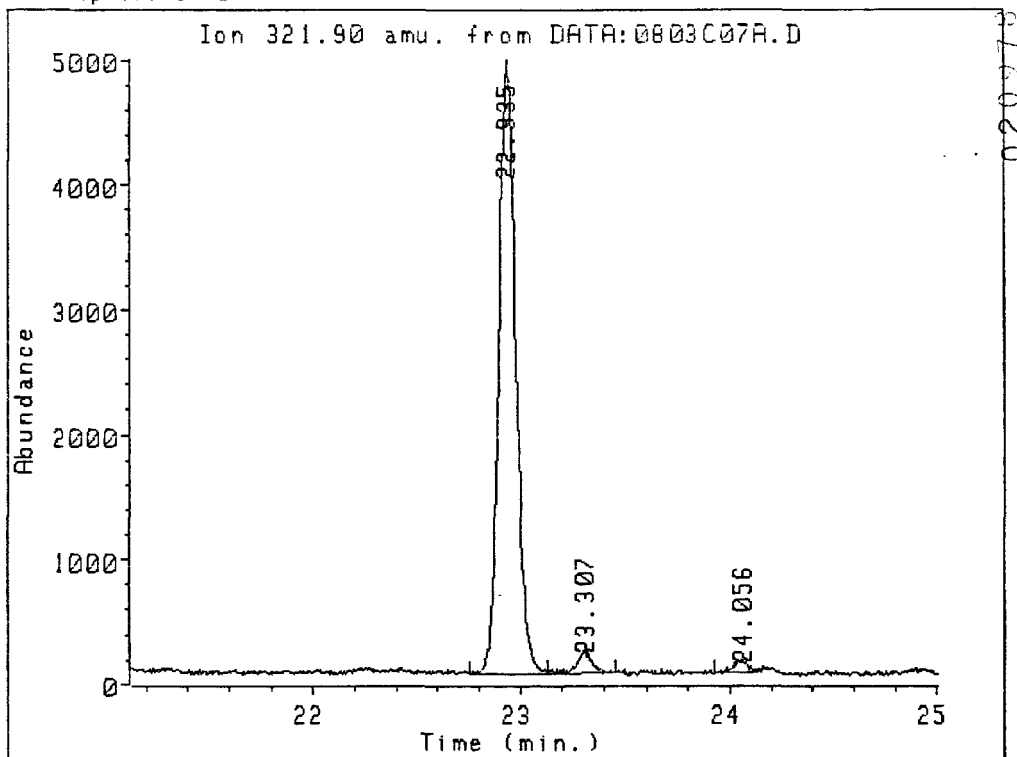
Data file: DATA:0803C07A.D
File type: GC / MS DATA FILE

3 1830

Name Info: PE - B
Misc Info:
Operator : TMS

Date : 3 Aug 88 8:33 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1



Ion 321.90 amu. from DATA:0803C07A.D
PE - B

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.935	PV	0.090	280492	22.756	23.127
2	23.307	UV	0.078	10033	23.127	23.454
3	24.056	BU	0.069	4511	23.926	24.127

03221194

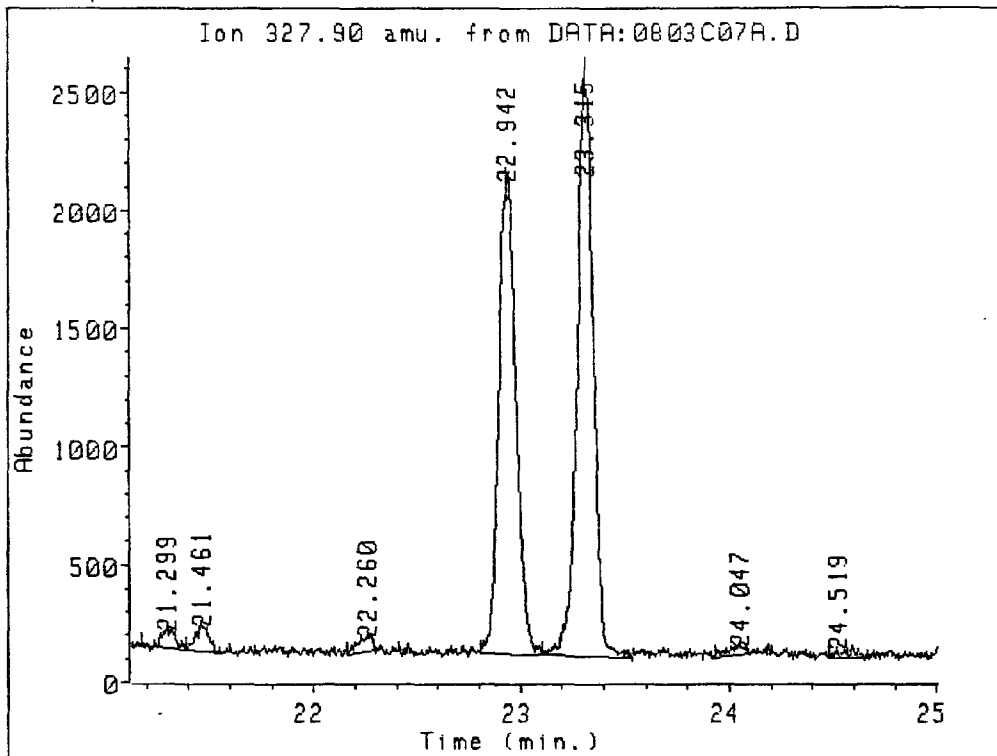
Data file: DATA:0803C07A.D
File type: GC / MS DATA FILE

3 1831

Name Info: PE - B
Misc Info:
Operator : TMS

Date : 3 Aug 88 8:33 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1



Ion 327.90 amu. from DATA:0803C07A.D
PE - B

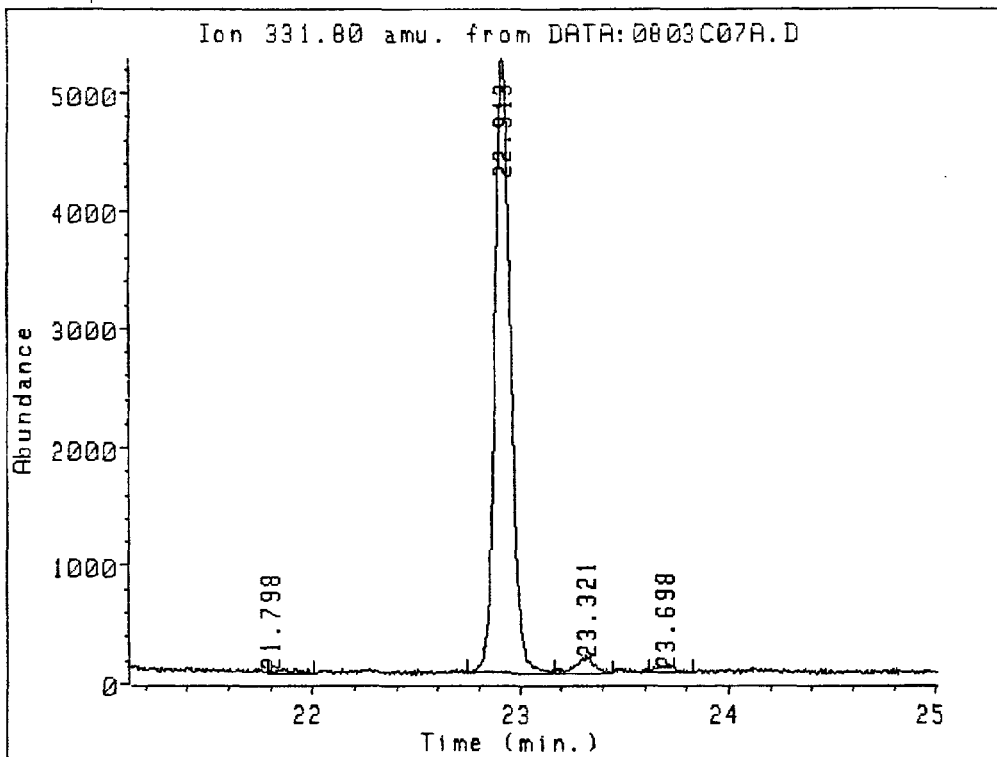
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.299	BV	0.071	4045	21.180	21.392
2	21.461	UV	0.065	5370	21.392	21.573
3	22.260	PV	0.077	3431	22.164	22.308
4	22.942	BV	0.087	118653	22.804	23.109
5	23.315	UV	0.083	135340	23.109	23.536
6	24.047	PB	0.075	2601	23.929	24.097
7	24.519	PV	0.060	2312	24.484	24.680

03221195

Name Info: PE - B
Misc Info:
Operator : TMS

Date : 3 Aug 88 8:33 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1



Ion 331.80 amu. from DATA:0803C07A.D
PE - B

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.798	PB	0.102	2863	21.784	22.006
2	22.913	BV	0.080	277326	22.740	23.164
3	23.321	UV	0.077	9060	23.164	23.441
4	23.698	BB	0.088	3282	23.615	23.825

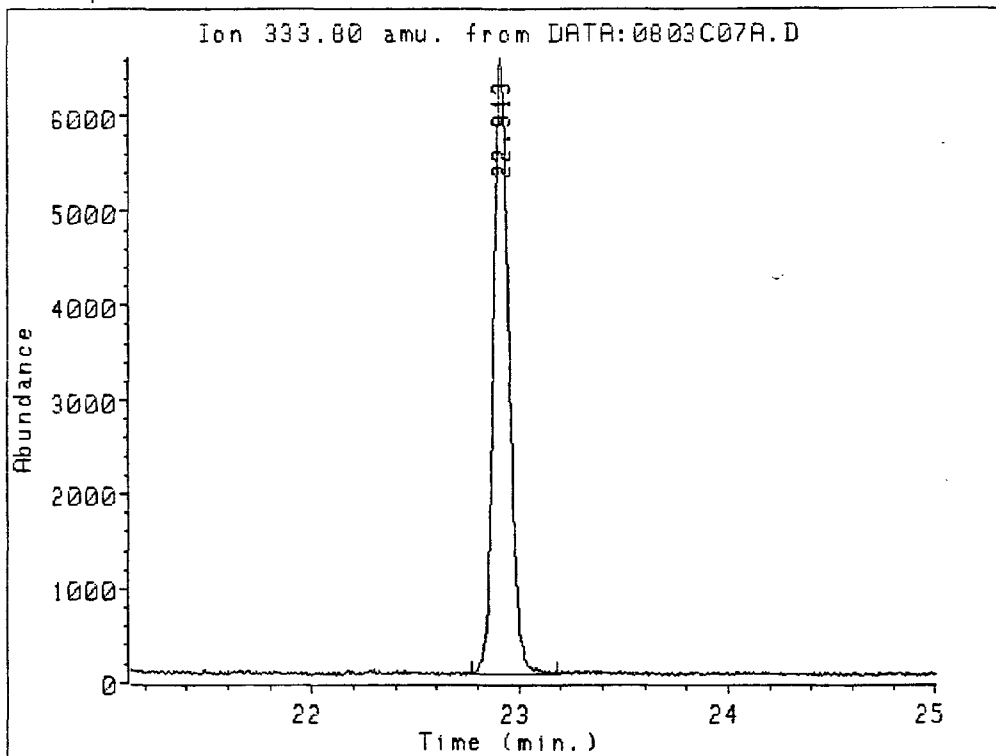
28
Data file: DATA:0803C07A.D
File type: GC / MS DATA FILE

3 1833

Name Info: PE - B
Misc Info:
Operator : TMS

Date : 3 Aug 88 8:33 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 7
Replicate num : 1



Ion 333.80 amu. from DATA:0803C07A.D
PE - B

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.913	BU	0.081	343514	22.768	23.185

03221197

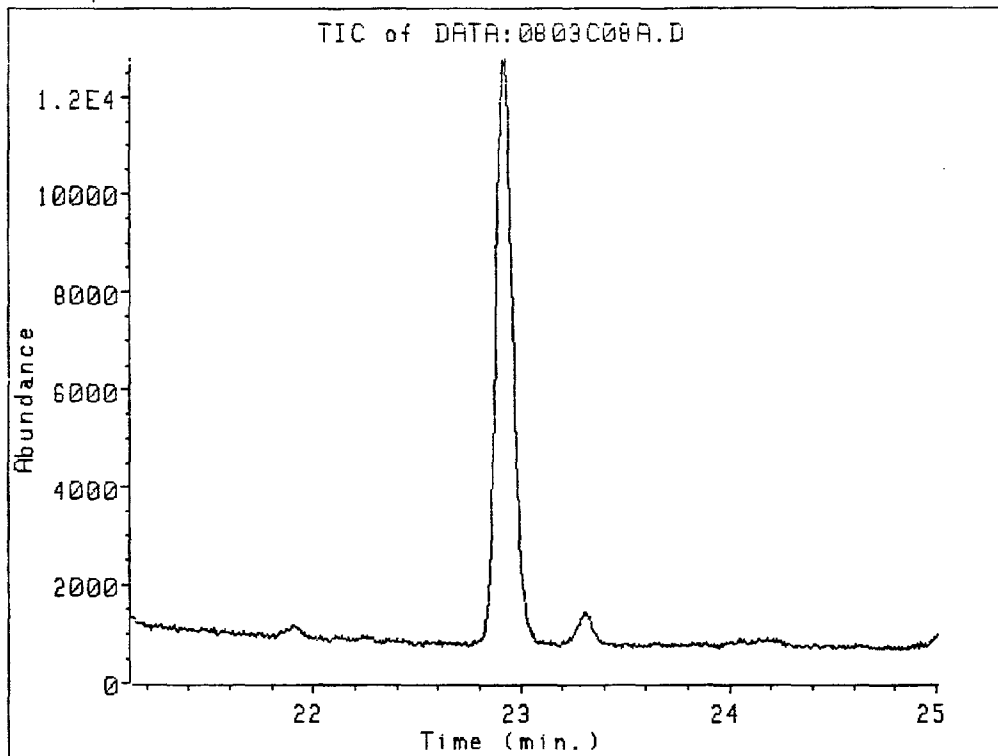
.Data file: DATA:0803C08A.D
File type: GC / MS DATA FILE

3 1834

Name info: WH 2260
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:07 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



03221198

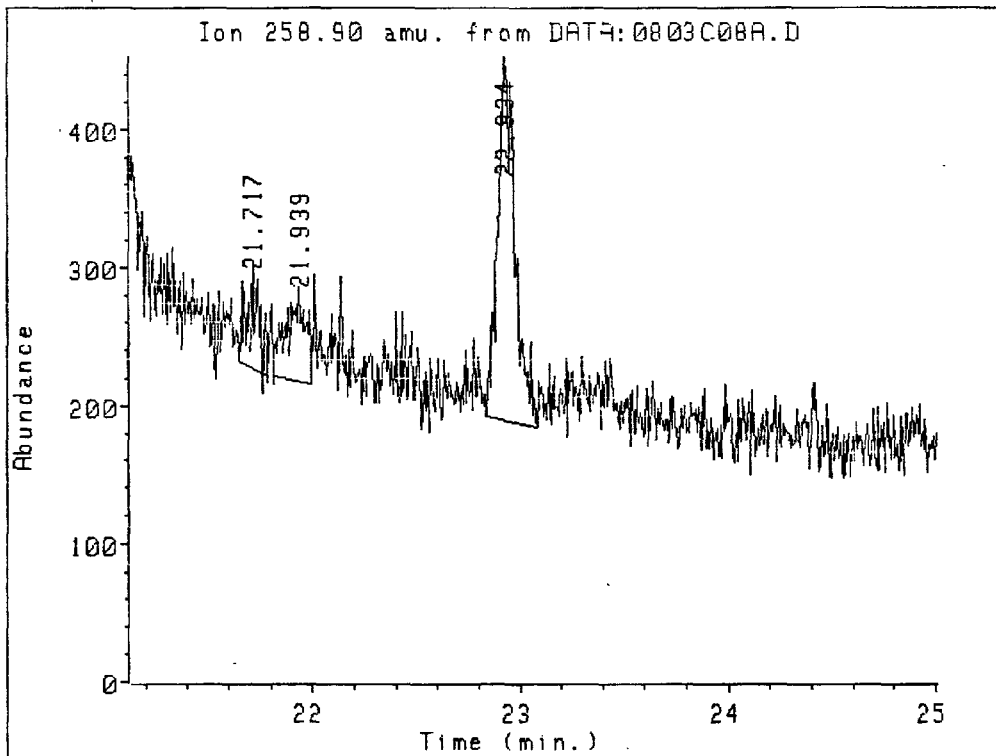
30
Data file: DATA:0803C08A.D
File type: GC / MS DATA FILE

3 1835

Name Info: WH 2260
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:07 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



Ion 258.90 amu. from DATA:0803C08A.D
WH 2260

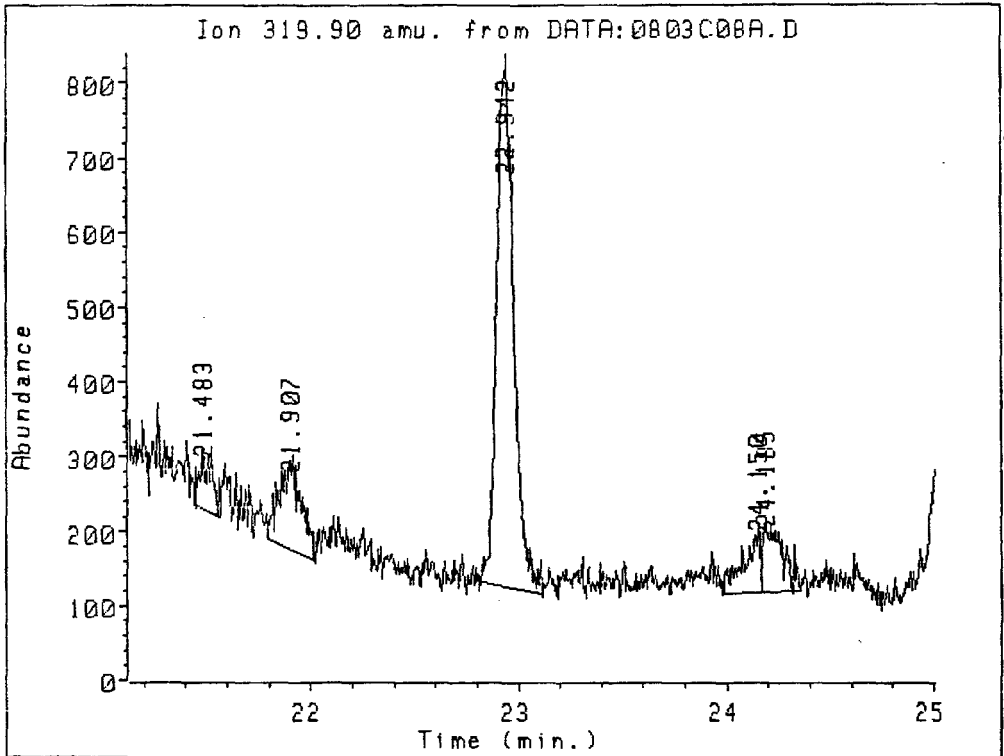
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.717	UU	0.055	2606	21.655	21.791
2	21.939	UU	0.089	4100	21.819	21.999
3	22.934	UU	0.080	15318	22.840	23.083

03221199

Name Info: WH 2260
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:07 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



Ion 319.90 amu. from DATA:0803C08A.D
WH 2260

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.483	PV	0.071	3231	21.445	21.570
2	21.907	VV	0.107	8694	21.799	22.021
3	22.942	BV	0.084	41051	22.792	23.112
4	24.150	PV	0.071	4587	23.980	24.166
5	24.185	VV	0.109	5904	24.166	24.354

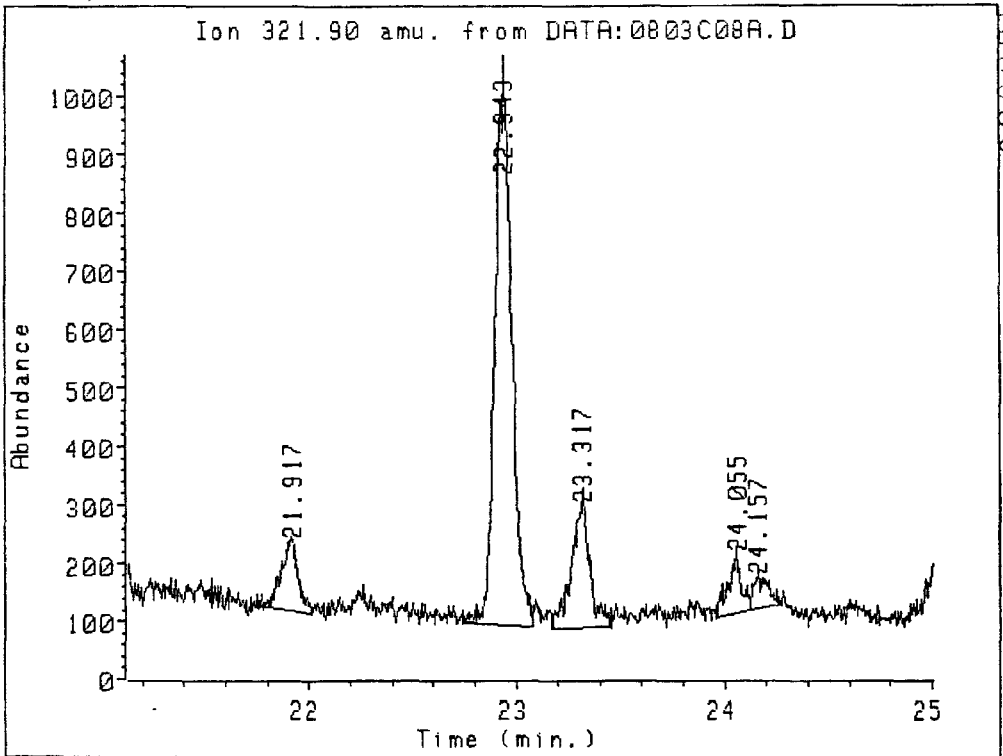
32
Data file: DATA:0803C08A.D
File type: GC / MS DATA FILE

3 1837

Name Info: WH 2260
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:07 pm
Instrument: MS_5970
inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



Ion 321.90 amu. from DATA:0803C08A.D
WH 2260

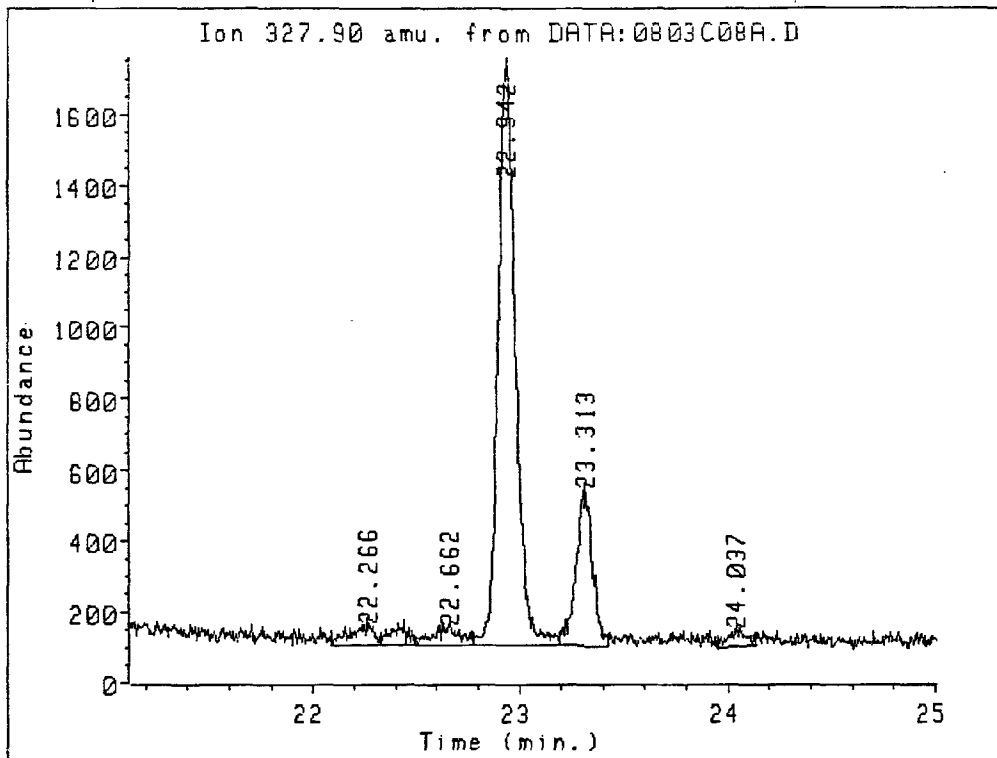
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.917	BU	0.074	7107	21.748	22.016
2	22.943	BU	0.073	54016	22.744	23.077
3	23.317	PV	0.076	13166	23.173	23.451
4	24.055	PV	0.055	4581	23.955	24.121
5	24.157	UU	0.063	2959	24.121	24.274

03221201

Name Info: WH 2260
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:07 pm
Instrument: MS_5970
inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



Ion 327.90 amu. from DATA:0803C08A.D
WH 2260

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.266	PU	0.122	4429	22.090	22.328
2	22.662	UU	0.179	8450	22.328	22.777
3	22.942	UU	0.087	96237	22.777	23.190
4	23.313	UU	0.072	24302	23.190	23.427
5	24.037	PB	0.075	2942	23.947	24.133

34

Data file: DATA:0803C08A.D
File type: GC / MS DATA FILE

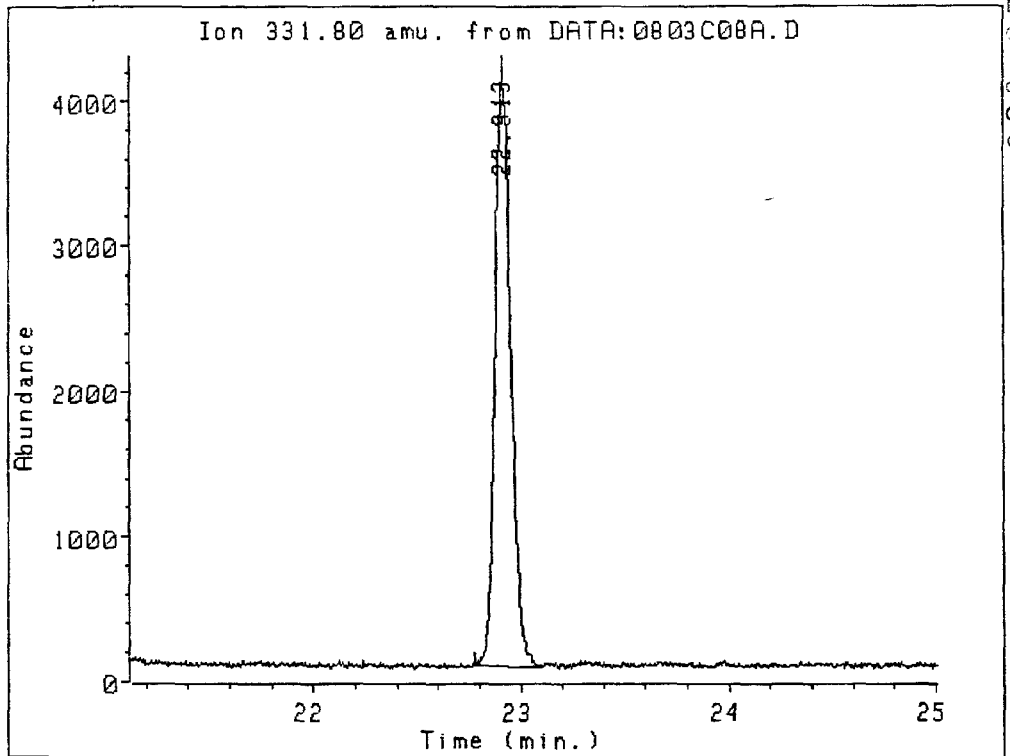
3 1839

T

Name Info: WH 2260
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:07 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 8
Replicate num : 1



020987

T

Ion 331.80 amu. from DATA:0803C08A.D
WH 2260

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.913	BU	0.079	219336	22.780	23.106

T

03221203

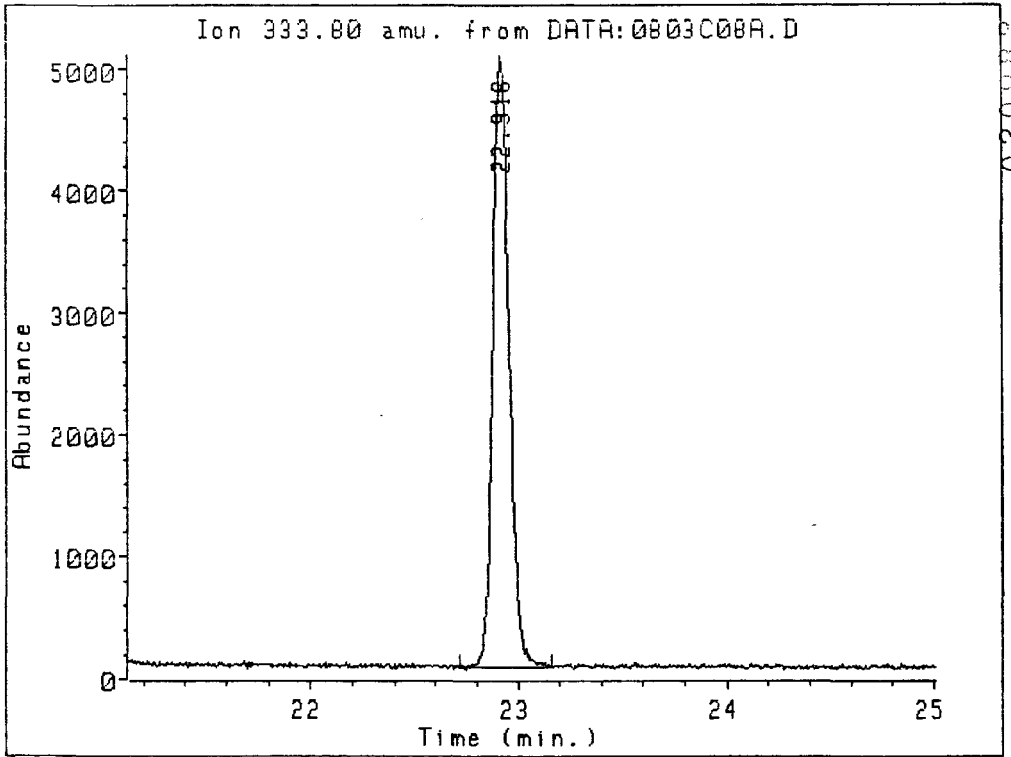
Data file: DATA:0803C08A.D
File type: GC / MS DATA FILE

3 1840

Name Info: WH 2260
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:07 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 8
Replicate num : 1



Ion 333.80 amu. from DATA:0803C08A.D
WH 2260

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.916	BV	0.085	276601	22.717	23.160

03221204

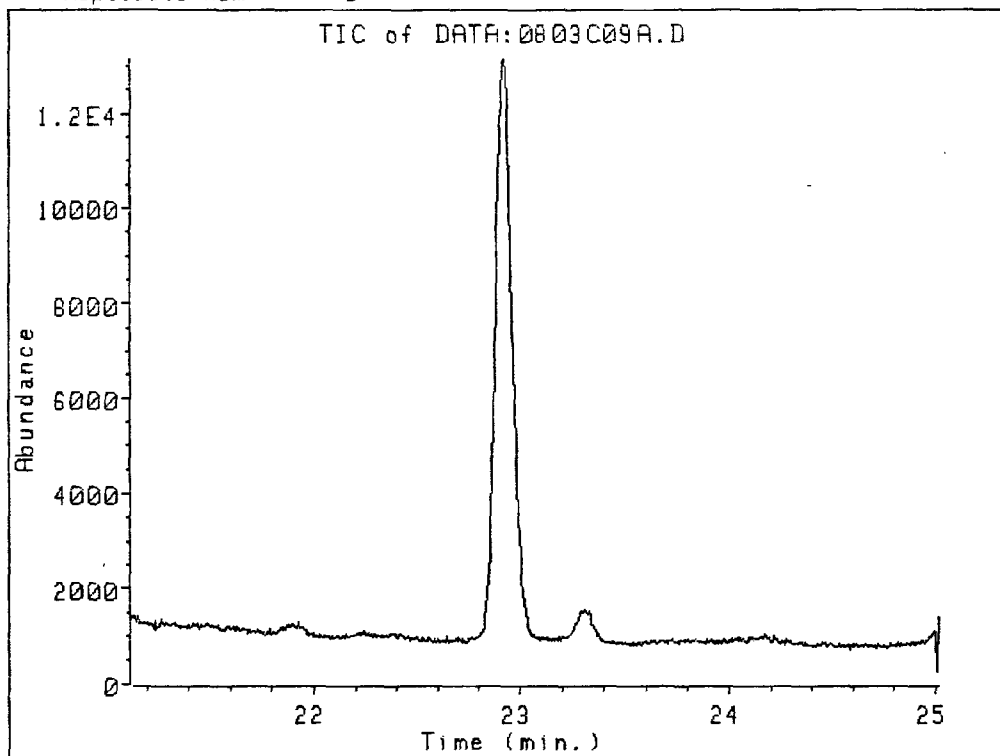
36
Data file: DATA:0803C09A.D
File type: GC / MS DATA FILE

3 1841

↑
Name Info: WH 2261
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:41 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1

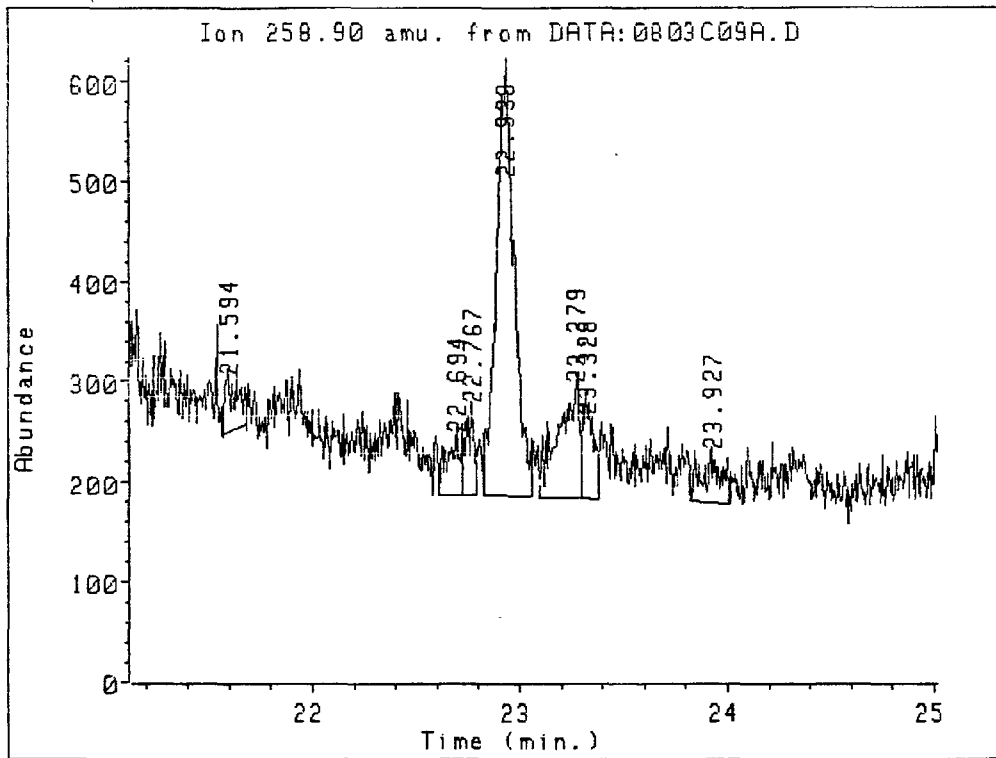


↑
03221205

Name Info: WH 2261
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:41 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



Ion 258.90 amu. from DATA:0803C09A.D
WH 2261

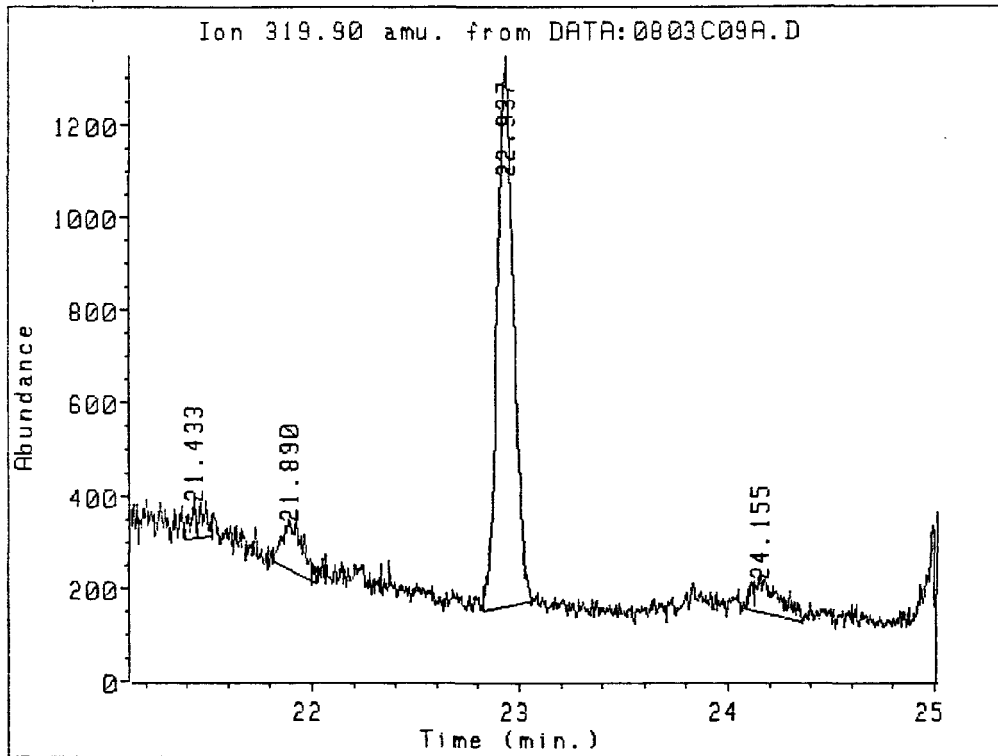
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.594	PB	0.058	2432	21.567	21.686
2	22.694	UU	0.064	2475	22.611	22.718
3	22.767	UU	0.046	2334	22.718	22.787
4	22.938	UU	0.079	26304	22.825	23.057
5	23.279	UU	0.087	8147	23.100	23.300
6	23.328	UU	0.056	3580	23.300	23.381
7	23.927	UU	0.093	3078	23.827	24.010

Data file: DATA:0803C09A.D
File type: GC / MS DATA FILE

Name Info: WH 2261
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:41 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



Ion 319.90 amu. from DATA:0803C09A.D
WH 2261

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.433	UV	0.061	3081	21.393	21.515
2	21.890	BU	0.090	7394	21.814	22.021
3	22.937	PU	0.085	65240	22.825	23.075
4	24.155	VB	0.129	6826	24.089	24.363

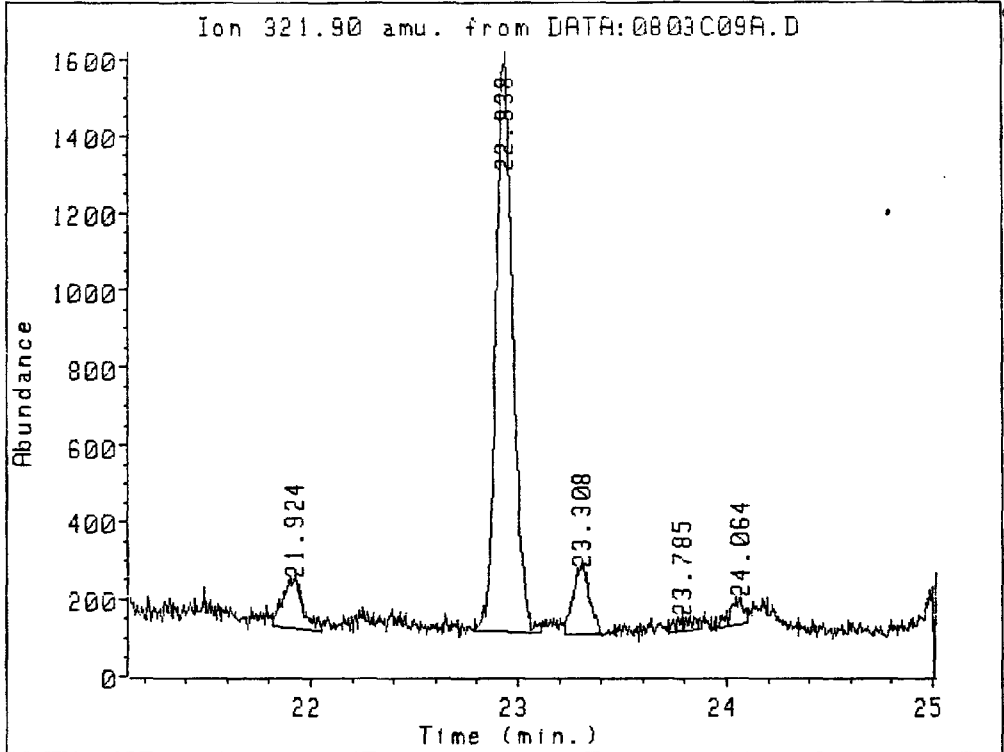
3A
Data file: DATA:0803C09A.D
File type: GC / MS DATA FILE

3 1844

Name Info: WH 2261
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:41 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



Ion 321.90 amu. from DATA:0803C09A.D
WH 2261

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.924	UV	0.088	8422	21.820	22.048
2	22.938	UV	0.080	86225	22.788	23.114
3	23.308	UV	0.075	9586	23.224	23.412
4	23.785	PV	0.086	2056	23.721	23.879
5	24.064	PV	0.063	3172	23.925	24.101

03221208

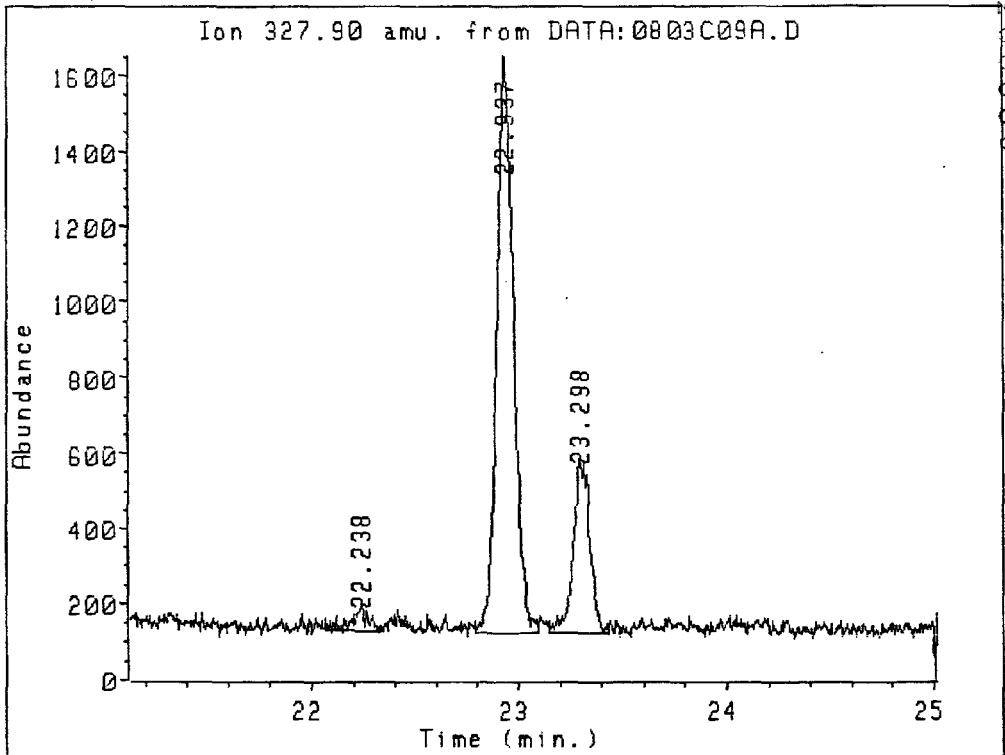
40
Data file: DATA:0803C09A.D
File type: GC / MS DATA FILE

3 1845

Name Info: WH 2261
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:41 pm
Instrmt: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



Ion 327.90 amu. from DATA:0803C09A.D
WH 2261

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.238	PV	0.072	3494	22.070	22.344
2	22.937	UU	0.080	87456	22.791	23.099
3	23.298	UU	0.085	26017	23.151	23.434

03221209

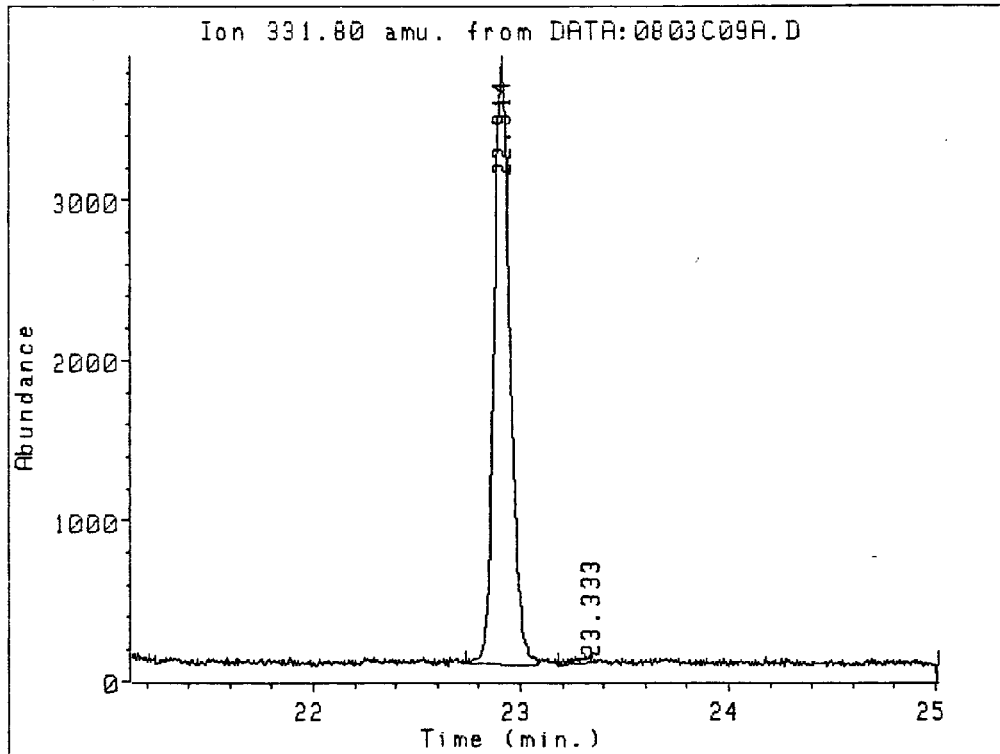
Data file: DATA:0803C09A.D
File type: GC / MS DATA FILE

3 1846

Name Info: WH 2261
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:41 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



Ion 331.80 amu. from DATA:0803C09A.D
WH 2261

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.914	BU	0.079	204175	22.740	23.086
2	23.333	PV	0.074	2549	23.181	23.364

03221210

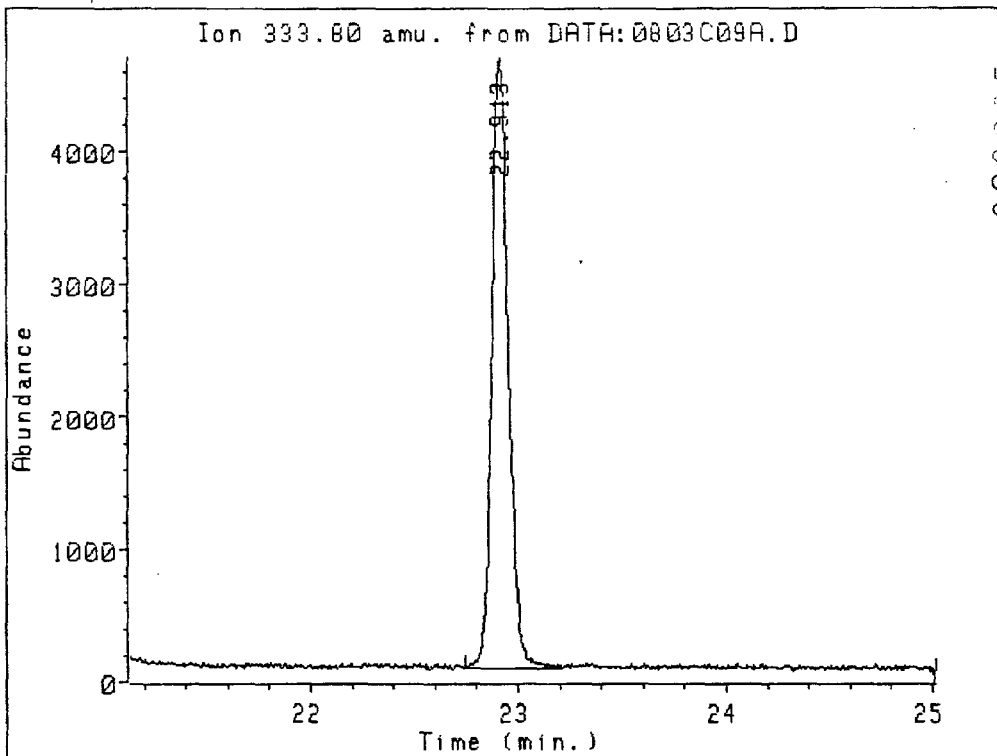
Data file: DATA:0803C09A.D
File type: GC / MS DATA FILE

3 1847

Name Info: WH 2261
Misc Info:
Operator : TMS

Date : 3 Aug 88 9:41 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 9
Replicate num : 1



Ion 333.80 amu. from DATA:0803C09A.D
WH 2261

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.913	PV	0.086	257902	22.742	23.209

03221211

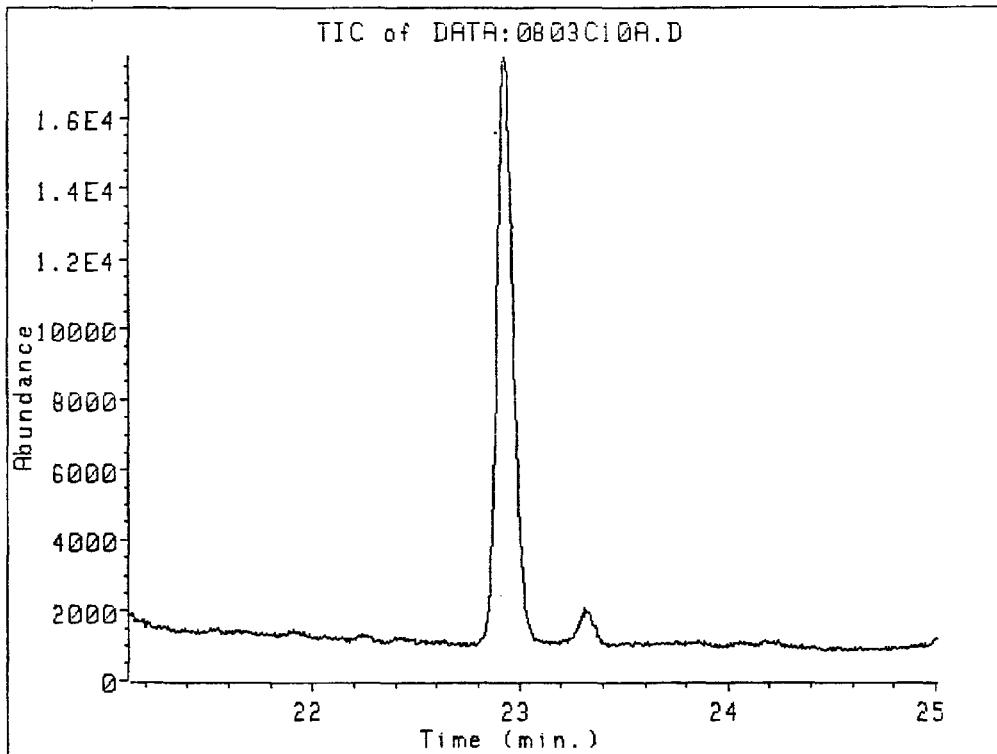
3
Data file: DATA:0803C10A.D
File type: GC / MS DATA FILE

3 1848

Name Info: WH 2262
Misc Info:
Operator : TMS

Date : 3 Aug 88 10:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1

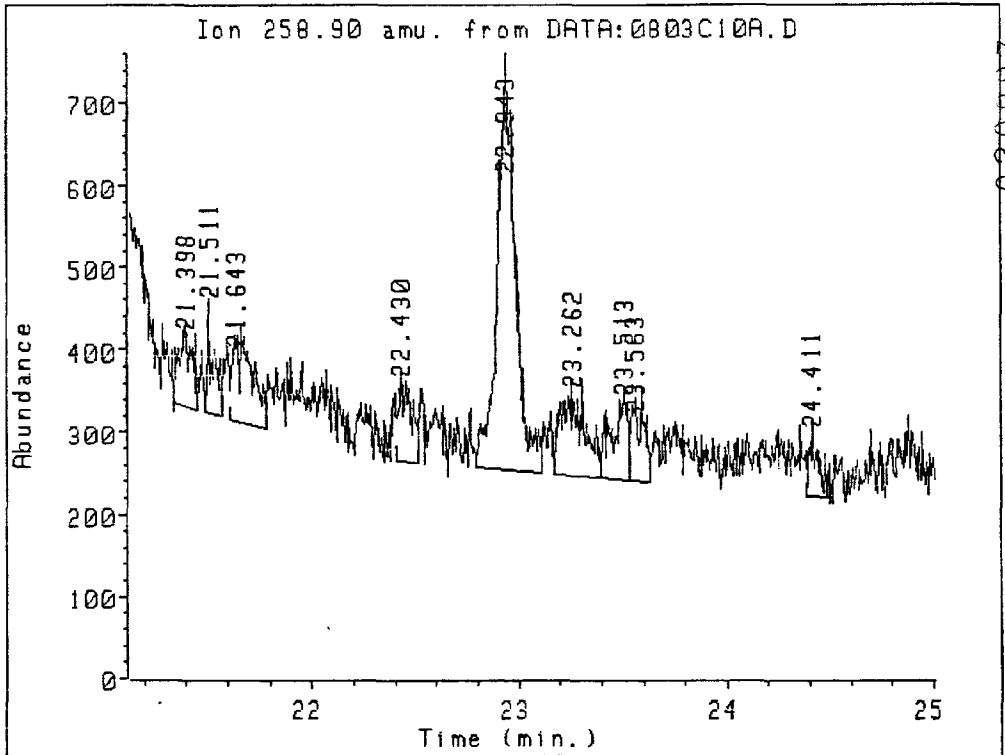


03221212

Name Info: WH 2262
Misc Info:
Operator : TMS

Date : 3 Aug 88 10:15 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



Ion 258.90 amu. from DATA:0803C10A.D
WH 2262

T

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.398	PV	0.061	4155	21.346	21.460
2	21.511	UU	0.042	2831	21.494	21.576
3	21.643	UU	0.096	6762	21.619	21.790
4	22.430	UU	0.062	4110	22.413	22.514
5	22.943	UU	0.084	30934	22.793	23.112
6	23.262	UU	0.104	8359	23.173	23.402
7	23.513	UU	0.065	5258	23.402	23.538
8	23.563	UU	0.079	4081	23.538	23.637
9	24.411	UU	0.042	2628	24.388	24.513

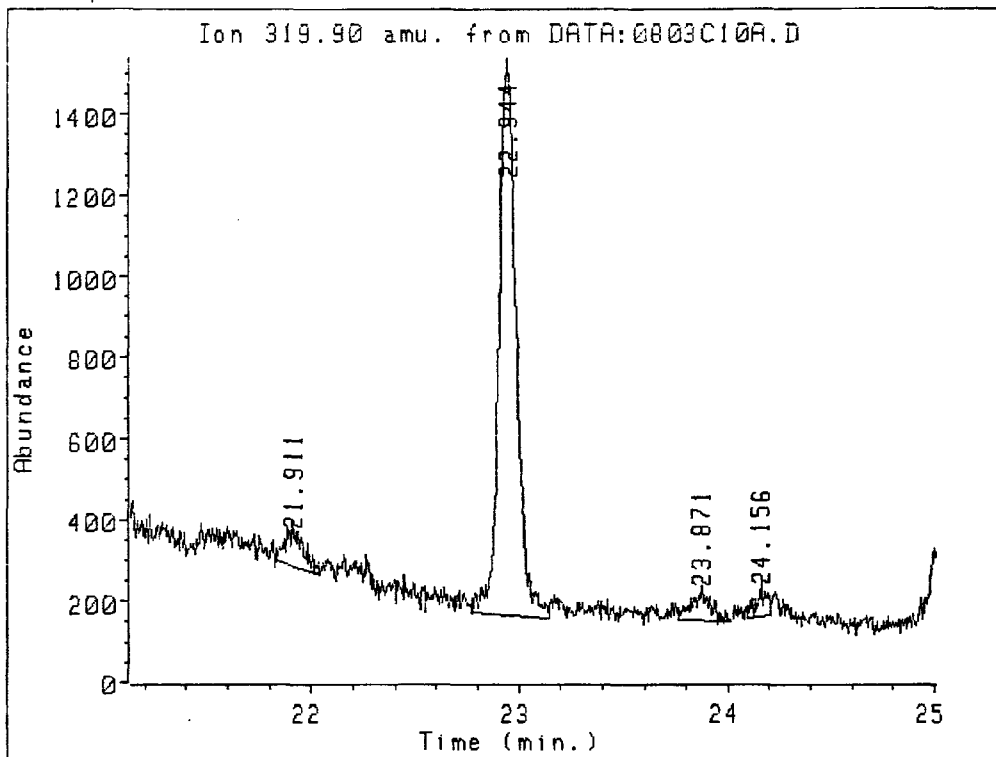
45
T
Data file: DATA:0803C10A.D
File type: GC / MS DATA FILE

3 1850

Name Info: WH 2262
Misc Info:
Operator : TMS

Date : 3 Aug 88 10:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 10
Replicate num : 1



Ion 319.90 amu. from DATA:0803C10A.D
WH 2262

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.911	PV	0.081	5659	21.831	22.044
2	22.944	PV	0.086	79544	22.771	23.142
3	23.871	PV	0.074	4566	23.764	24.013
4	24.156	VV	0.052	2647	24.090	24.205

T
03221214

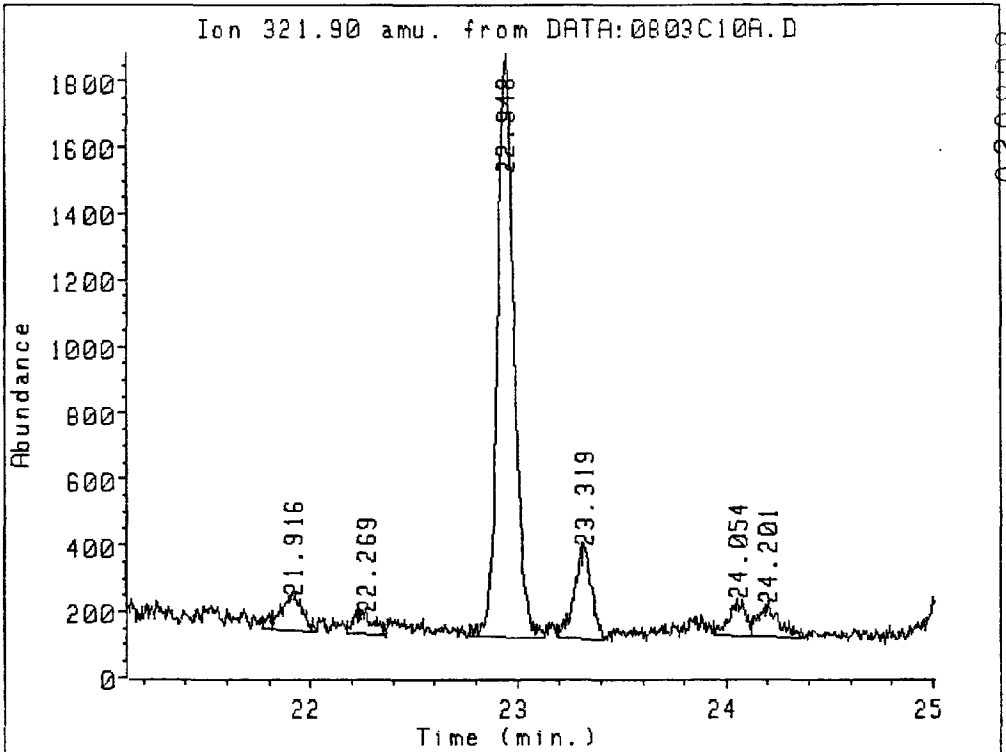
46
↑
Data file: DATA:0803C10A.D
File type: GC / MS DATA FILE

3 1851

Name Info: WH 2262
Misc Info:
Operator : TMS

Date : 3 Aug 88 10:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
ALS bottle num : 10
Replicate num : 1



↑
Ion 321.90 amu. from DATA:0803C10A.D
WH 2262

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	21.916	UU	0.095	8079	21.772	22.031
2	22.269	UU	0.093	4115	22.176	22.364
3	22.948	UU	0.079	98401	22.768	23.130
4	23.319	UU	0.076	16029	23.196	23.418
5	24.054	PV	0.080	5704	23.944	24.118
6	24.201	VB	0.092	6791	24.118	24.376

↑
03221215

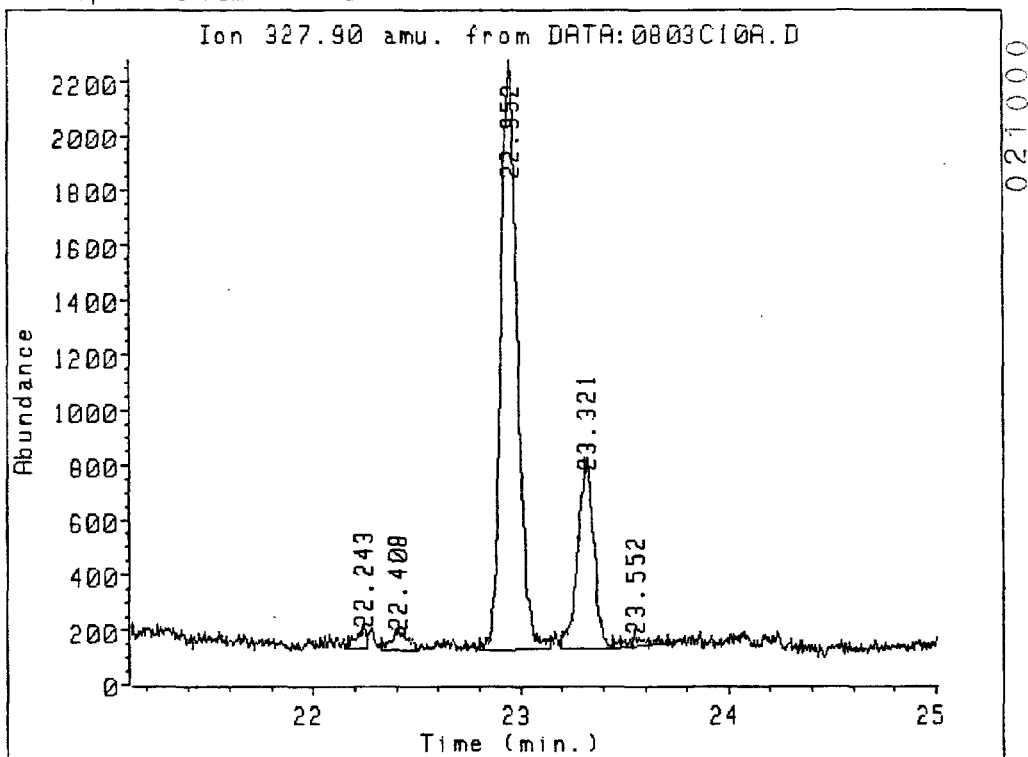
47
↑
Data file: DATA:0803C10A.D
File type: GC / MS DATA FILE

3 1852

Name Info: WH 2262
Misc Info:
Operator : TMS

Date : 3 Aug 88 10:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



↑
Ion 327.90 amu. from DATA:0803C10A.D
WH 2262

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.243	BU	0.044	2464	22.173	22.262
2	22.408	PV	0.077	3988	22.328	22.502
3	22.952	PV	0.084	120450	22.798	23.142
4	23.321	VU	0.078	37158	23.196	23.444
5	23.552	PV	0.127	2223	23.444	23.748

↑
03221216

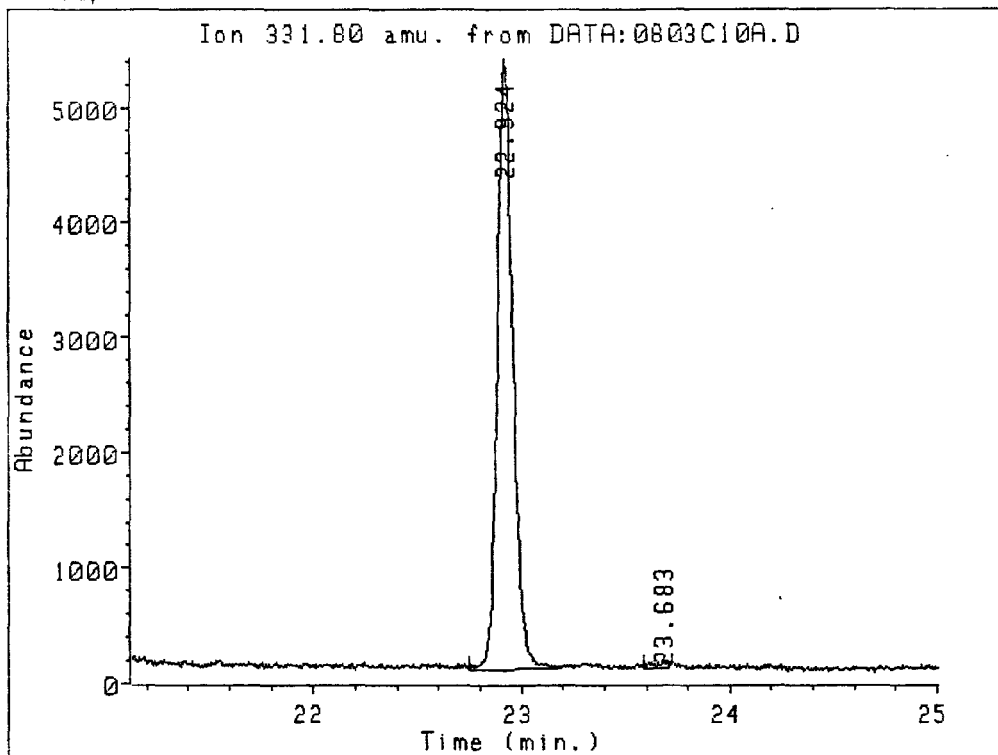
Data file: DATA:0803C10A.D
File type: GC / MS DATA FILE

3.1853

Name Info: WH 2262
Misc Info:
Operator : TMS

Date : 3 Aug 88 10:15 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



021001

Ion 331.80 amu. from DATA:0803C10A.D
WH 2262

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.924	PU	0.080	280847	22.750	23.193
2	23.683	VV	0.062	2720	23.585	23.711

03221217

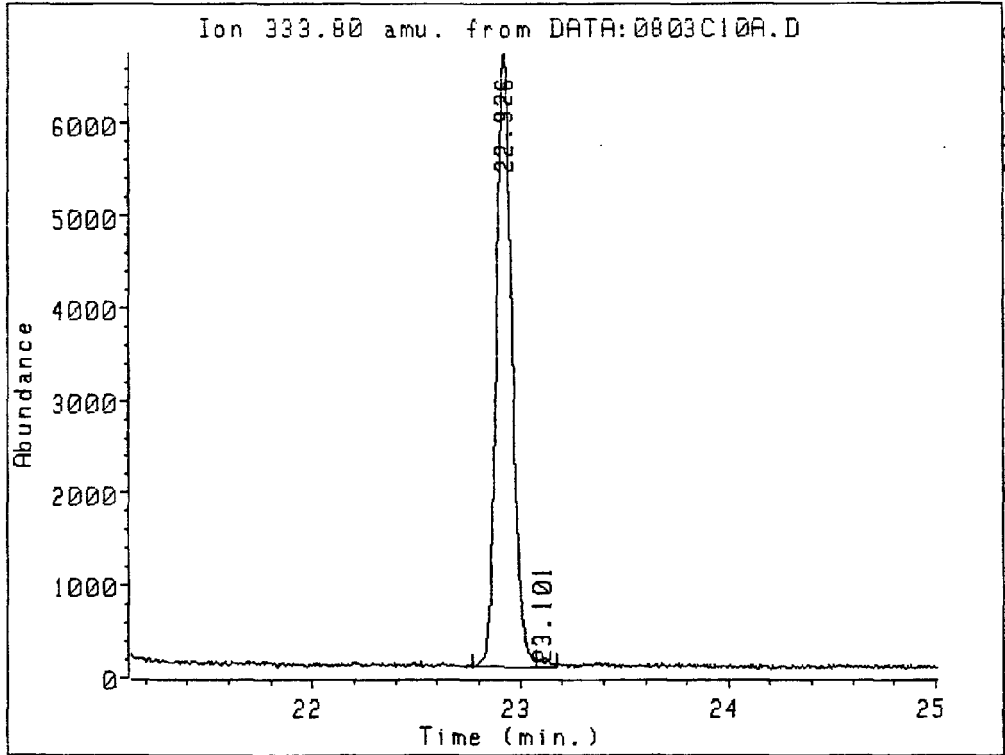
Data file: DATA:0803C10A.D
File type: GC / MS DATA FILE

3 1854

Name Info: WH 2262
Misc Info:
Operator : TMS

Date : 3 Aug 88 10:15 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 3
Als bottle num : 10
Replicate num : 1



021002

Ion 333.80 amu. from DATA:0803C10A.D
WH 2262

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.926	UU	0.084	353970	22.772	23.078
2	23.101	UU	0.058	2944	23.078	23.172

03221218

ATTACHMENT 2
DAILY CALIBRATION MASS CHROMATOGRAMS

021003

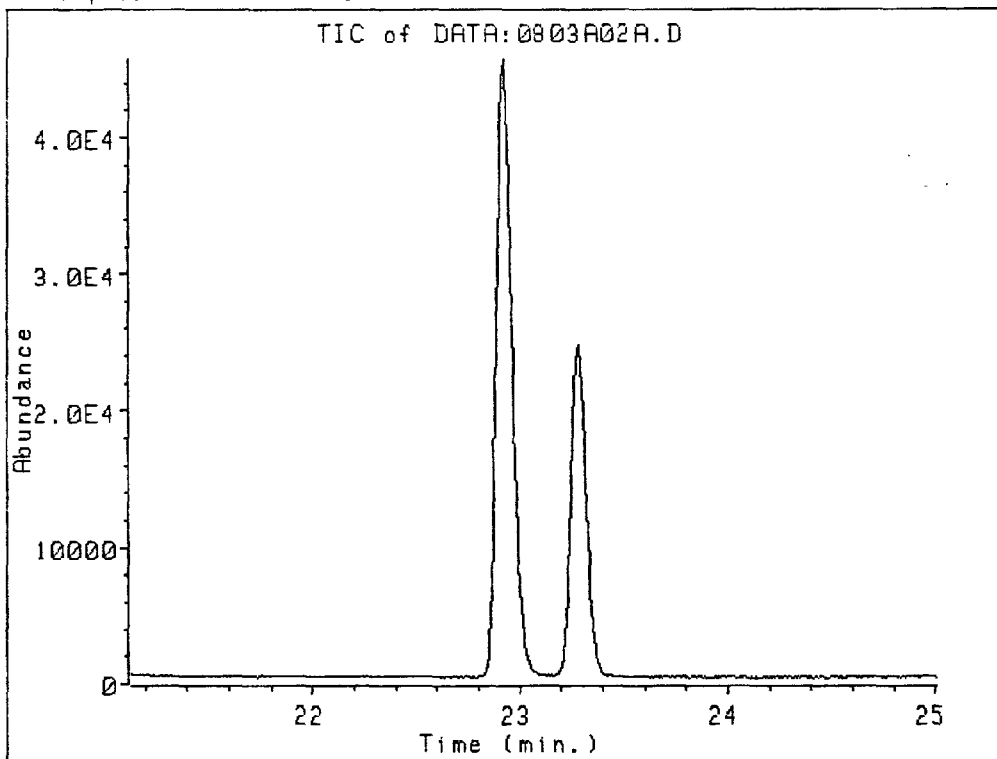
Data file: DATA:0803A02A.D
File type: GC / MS DATA FILE

3 1856

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1



03221220

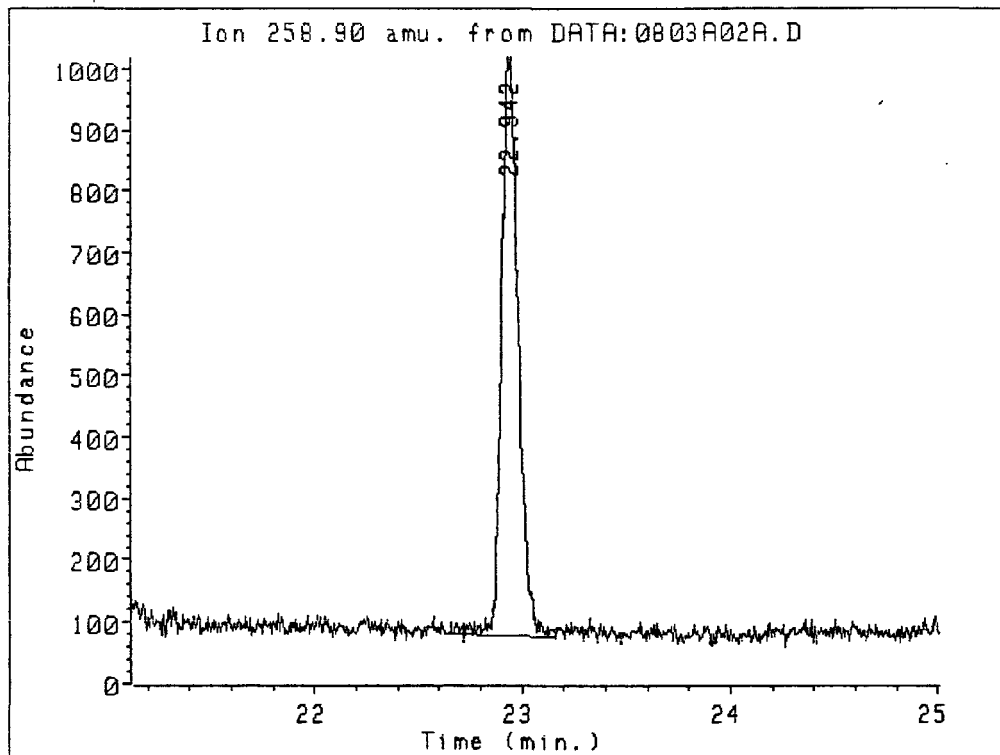
Data file: DATA:0803A02A.D
File type: GC / MS DATA FILE

3 1857

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1



Ion 258.90 amu. from DATA:0803A02A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.942	BU	0.083	54031	22.655	23.161

03221221

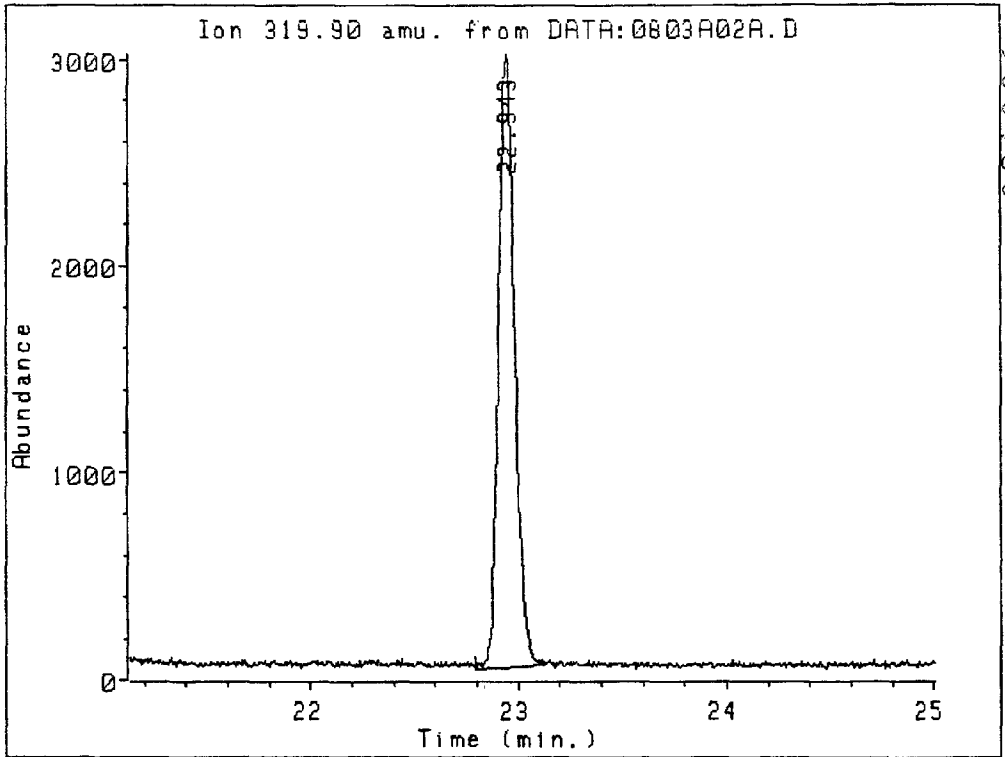
Data file: DATA:0803A02A.D
File type: GC / MS DATA FILE

3 1853

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1



Ion 319.90 amu. from DATA:0803A02A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.943	UU	0.082	162519	22.795	23.127

03221222

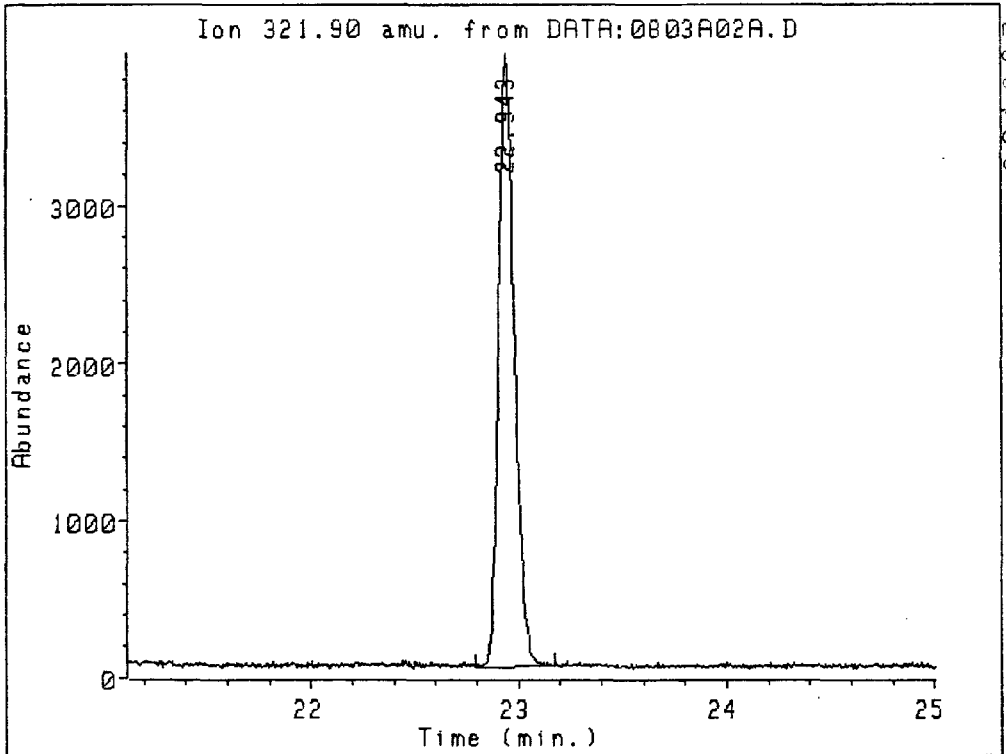
Data file: DATA:0803A02A.D
File type: GC / MS DATA FILE

3 1859

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1



Ion 321.90 amu. from DATA:0803A02A.D
CALIBRATION SOLN I

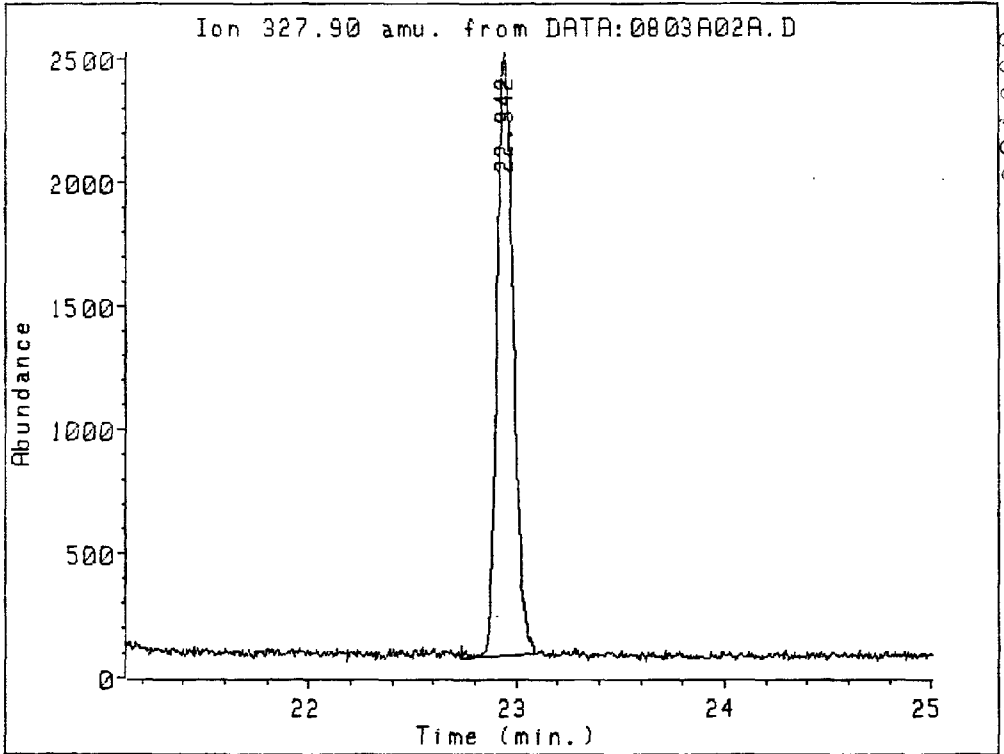
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.943	PV	0.085	208618	22.795	23.173

03221223

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:02 pm
Instrmnt: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1



027003

Ion 327.90 amu. from DATA:0803A02A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.942	PV	0.083	135565	22.731	23.097

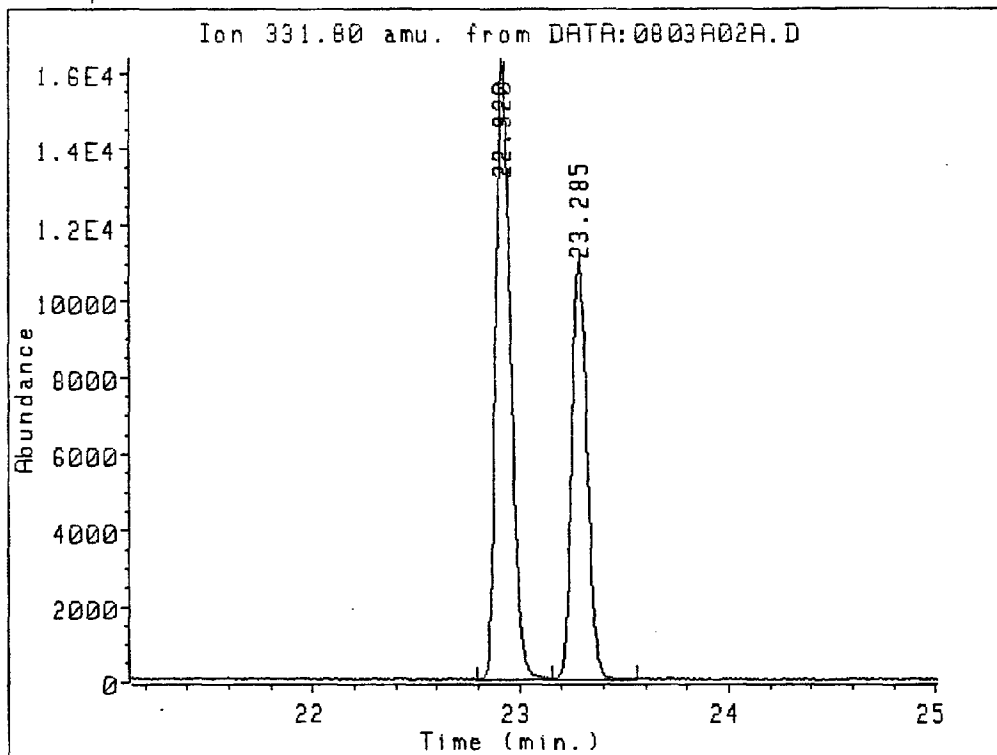
Data file: DATA:0803A02A.D
File type: GC / MS DATA FILE

3 1861

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1



021009

Ion 331.80 amu. from DATA:0803A02A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.920	PV	0.080	823202	22.791	23.152
2	23.285	UV	0.078	561652	23.152	23.554

03221225

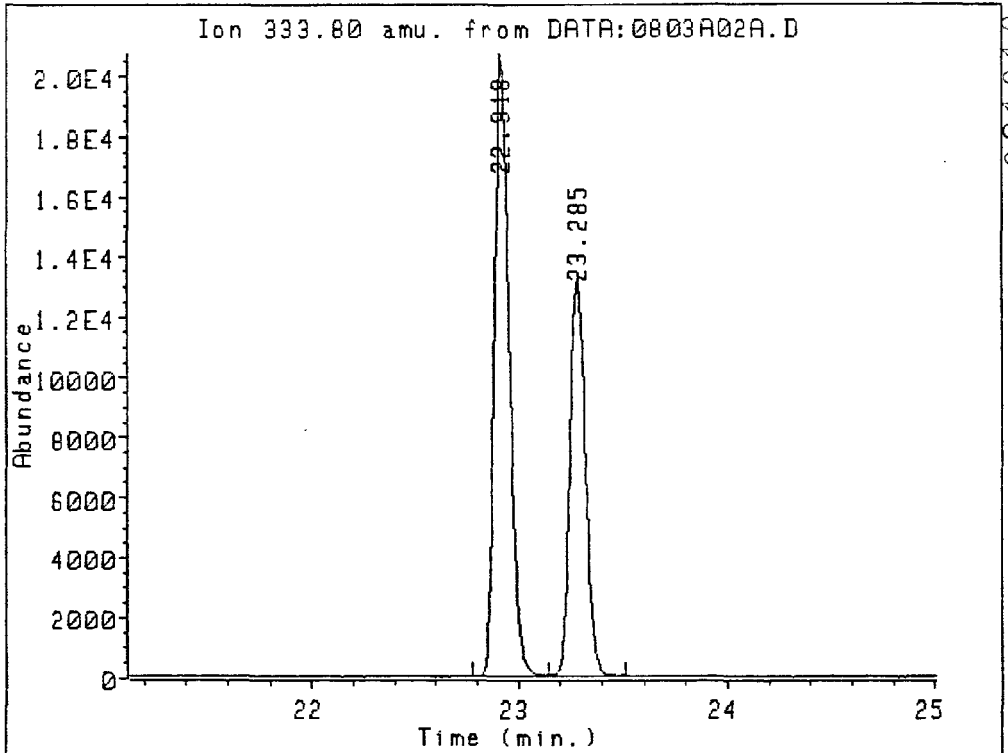
Data file: DATA:0803A02A.D
File type: GC / MS DATA FILE

3 1862

Name Info: CALIBRATION SOLN I
Misc Info:
Operator : TMS

Date : 3 Aug 88 6:02 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1



021010

Ion 333.80 amu. from DATA:0803A02A.D
CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	22.918	PV	0.079	1029533	22.780	23.145
2	23.285	UV	0.078	673955	23.145	23.511

03221226

ATTACHMENT 3
INITIAL CALIBRATION MASS CHROMATOGRAMS

021011

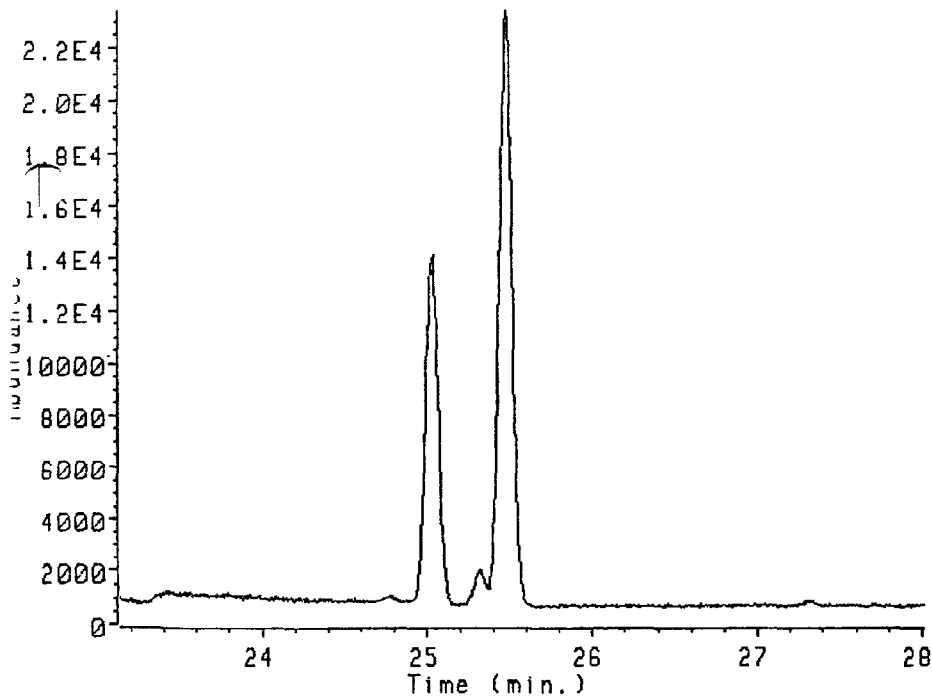
↑
Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

TIC of DATA:ICALA01A.D



021012

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

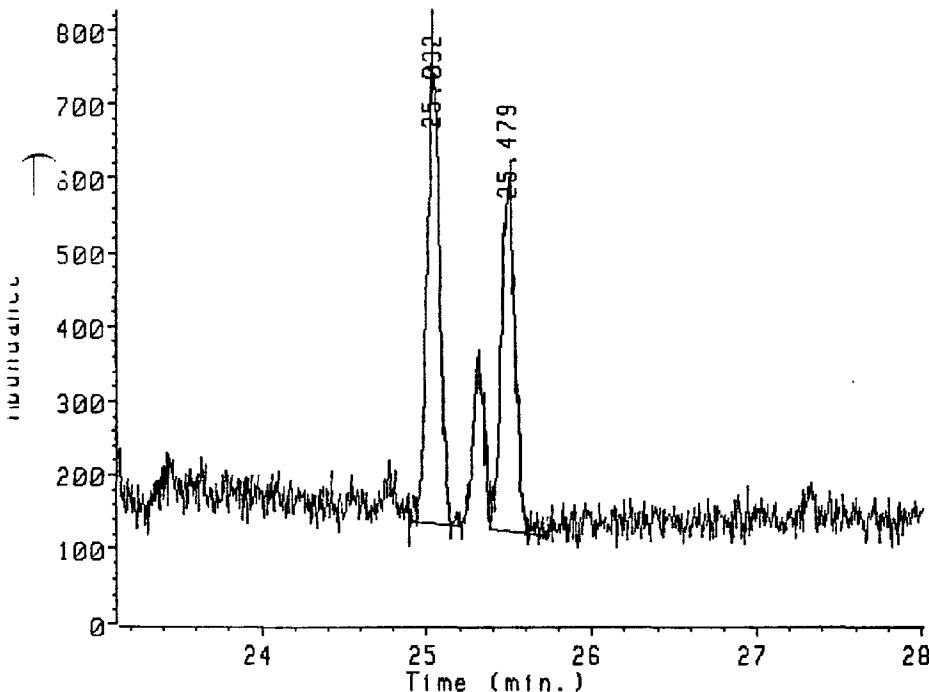
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

021013

Ion 258.90 amu. from DATA:ICALA01A.D



Ion 258.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Scan#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.032	UU	0.091	33237	24.902	25.210
2	25.479	VB	0.099	27499	25.380	25.708

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

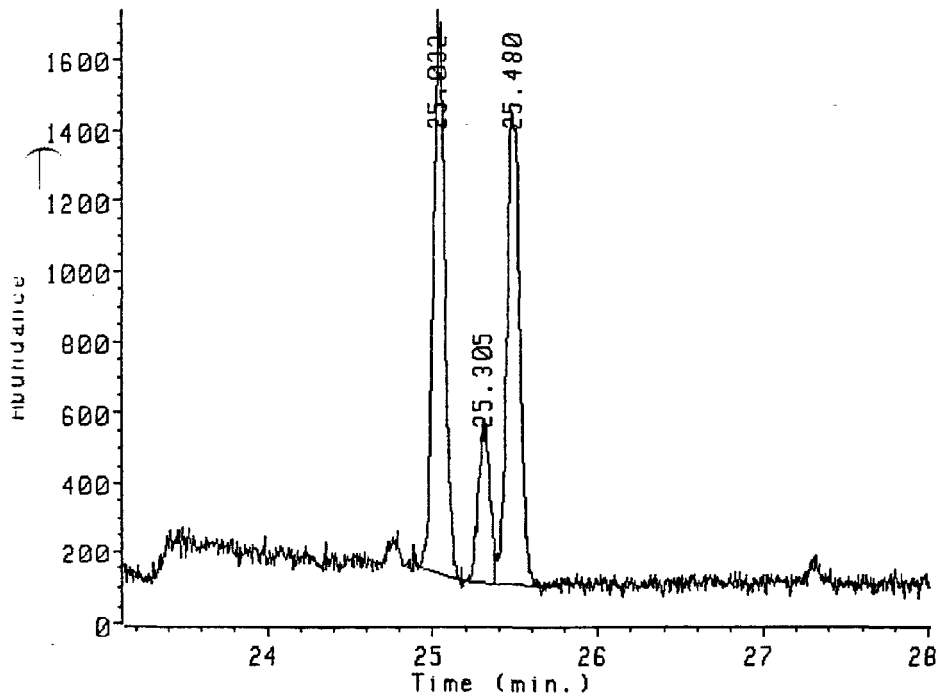
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

021014

Ion 319.90 amu. from DATA:ICALA01A.D



Ion 319.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.032	BU	0.085	78063	24.902	25.180
2	25.305	PV	0.083	22626	25.180	25.379
3	25.480	UB	0.088	73270	25.379	25.755

03221230

T

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

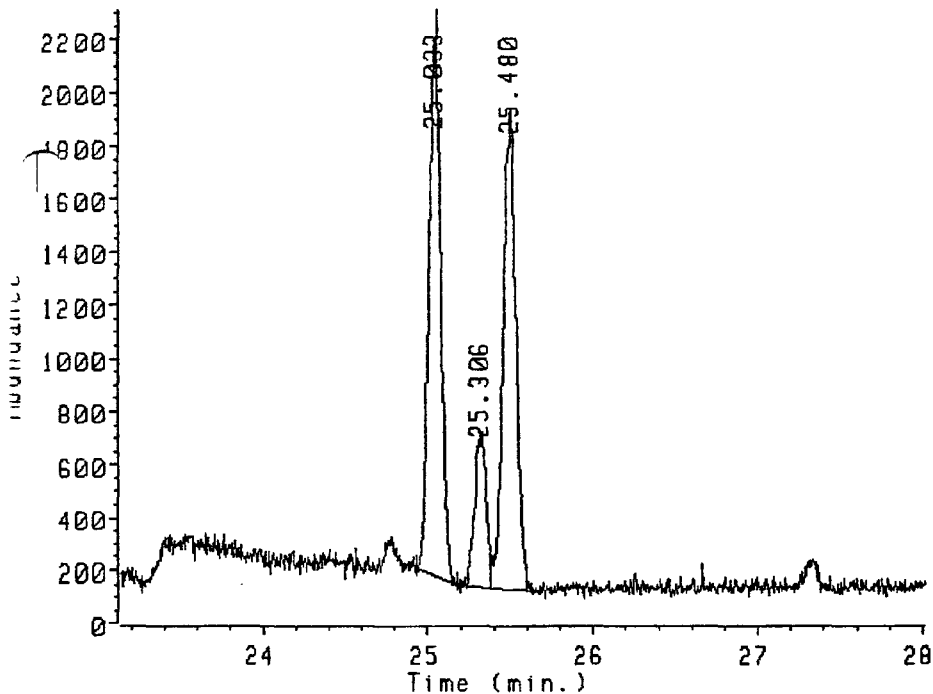
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

021015

Ion 321.90 amu. from DATA:ICALA01A.D



Ion 321.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.033	BV	0.086	102390	24.926	25.179
2	25.306	PV	0.084	28766	25.179	25.378
3	25.480	VB	0.091	95712	25.378	25.665

03221231

5
↑
Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

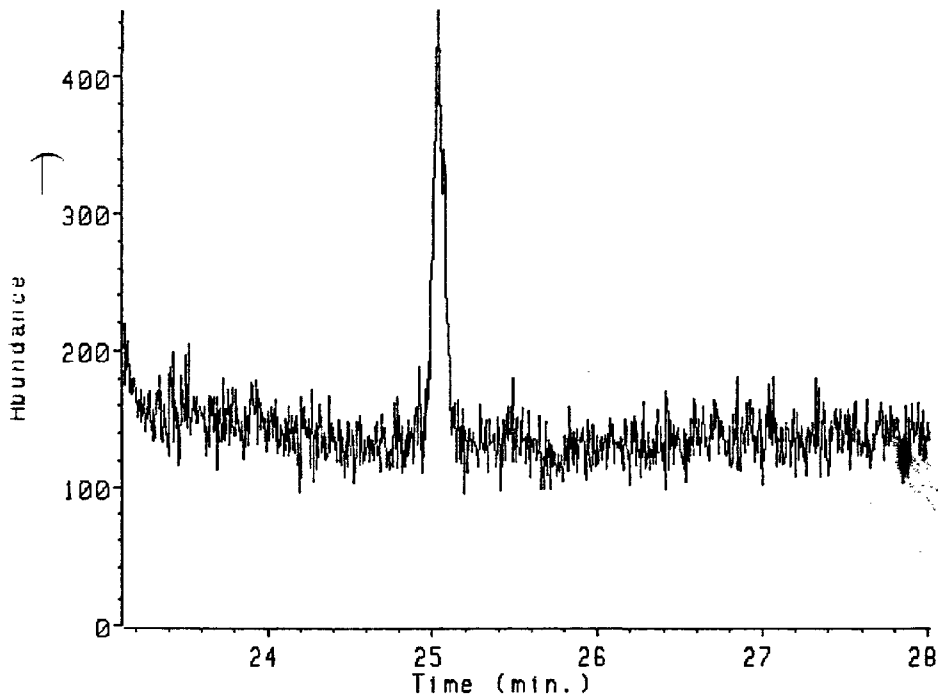
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

021016

Ion 327.90 amu. from DATA:ICALA01A.D



on 327.90 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

0 peaks detected

03221232

Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

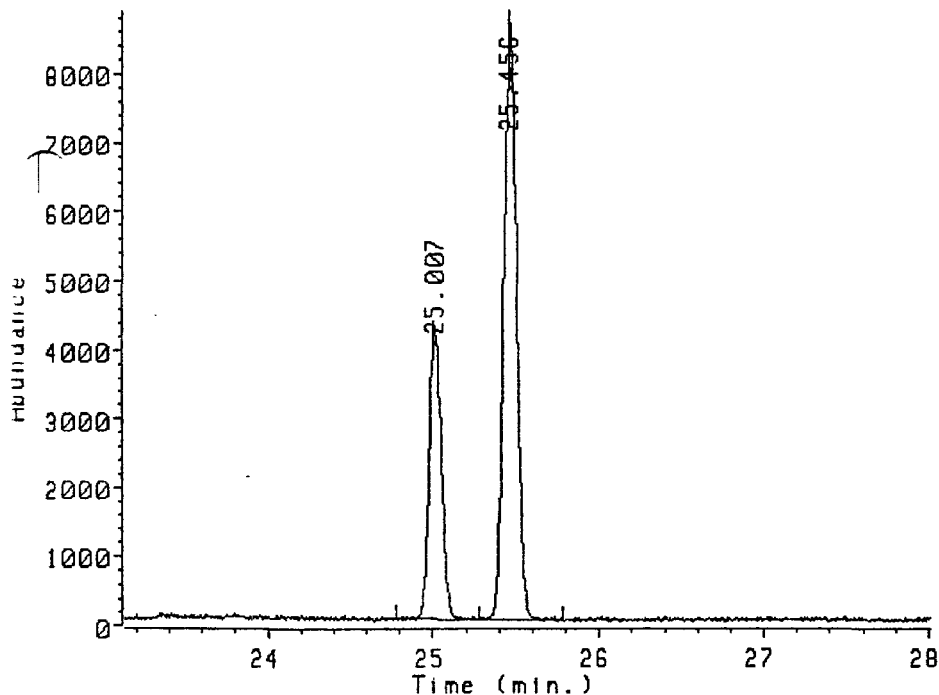
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

021017

Ion 331.80 amu. from DATA:ICALA01A.D



on 331.80 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.007	UB	0.087	218250	24.784	25.281
2	25.456	UB	0.090	455837	25.281	25.779

03221233



Data file: DATA:ICALA01A.D
File type: GC / MS DATA FILE

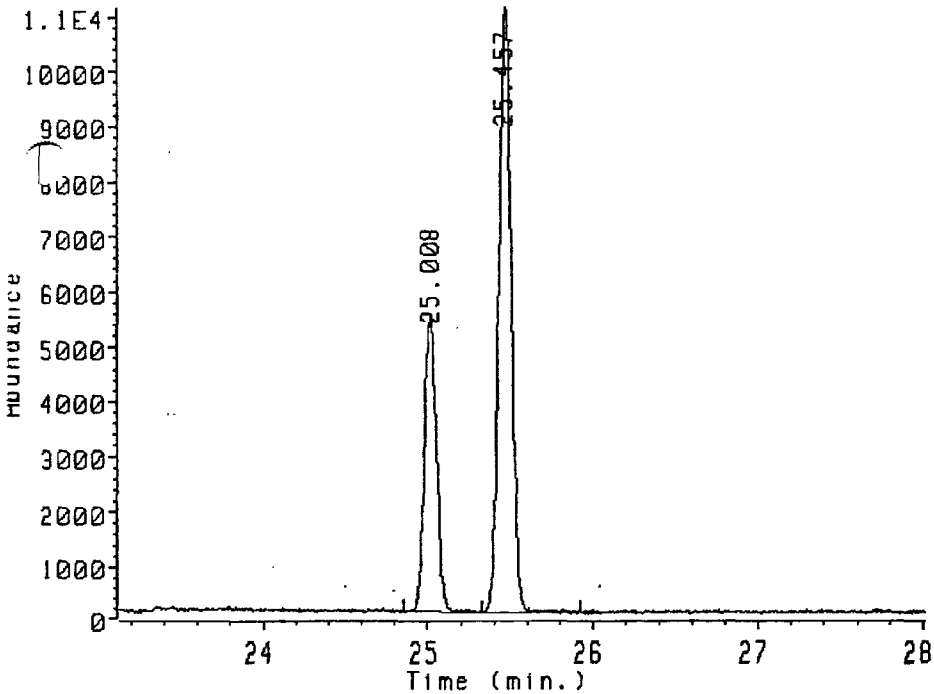
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:07 am
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 1
Replicate num : 1

021018

Ion 333.80 amu. from DATA:ICALA01A.D



on 333.80 amu. from DATA:ICALA01A.D
COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.008	BV	0.087	279885	24.855	25.329
2	25.457	PB	0.086	573510	25.329	25.921

↑
Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

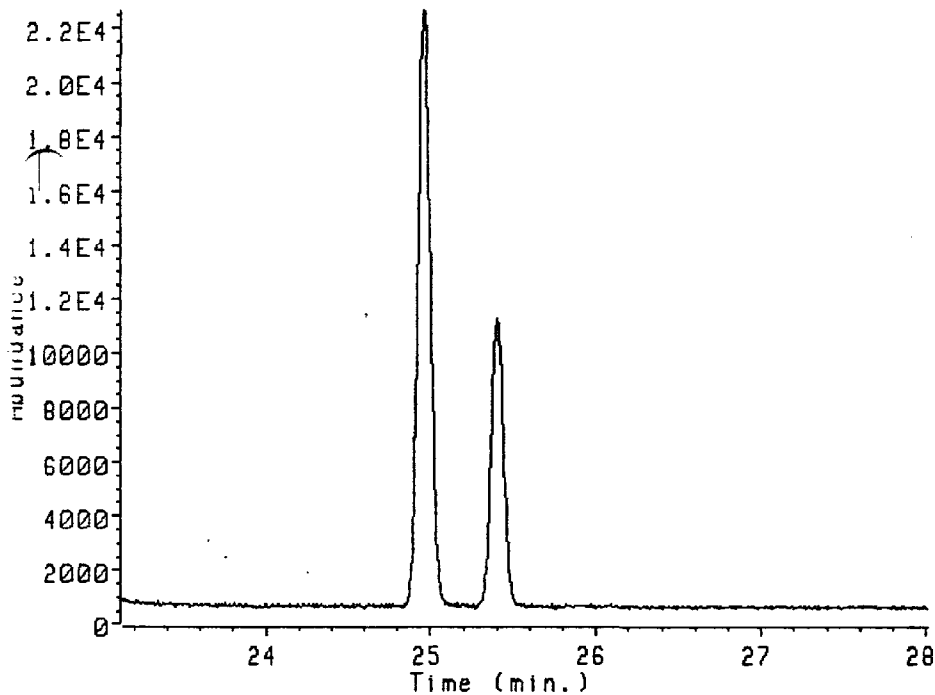
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

021019

TIC of DATA:ICALB02A.D



3 1972

Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

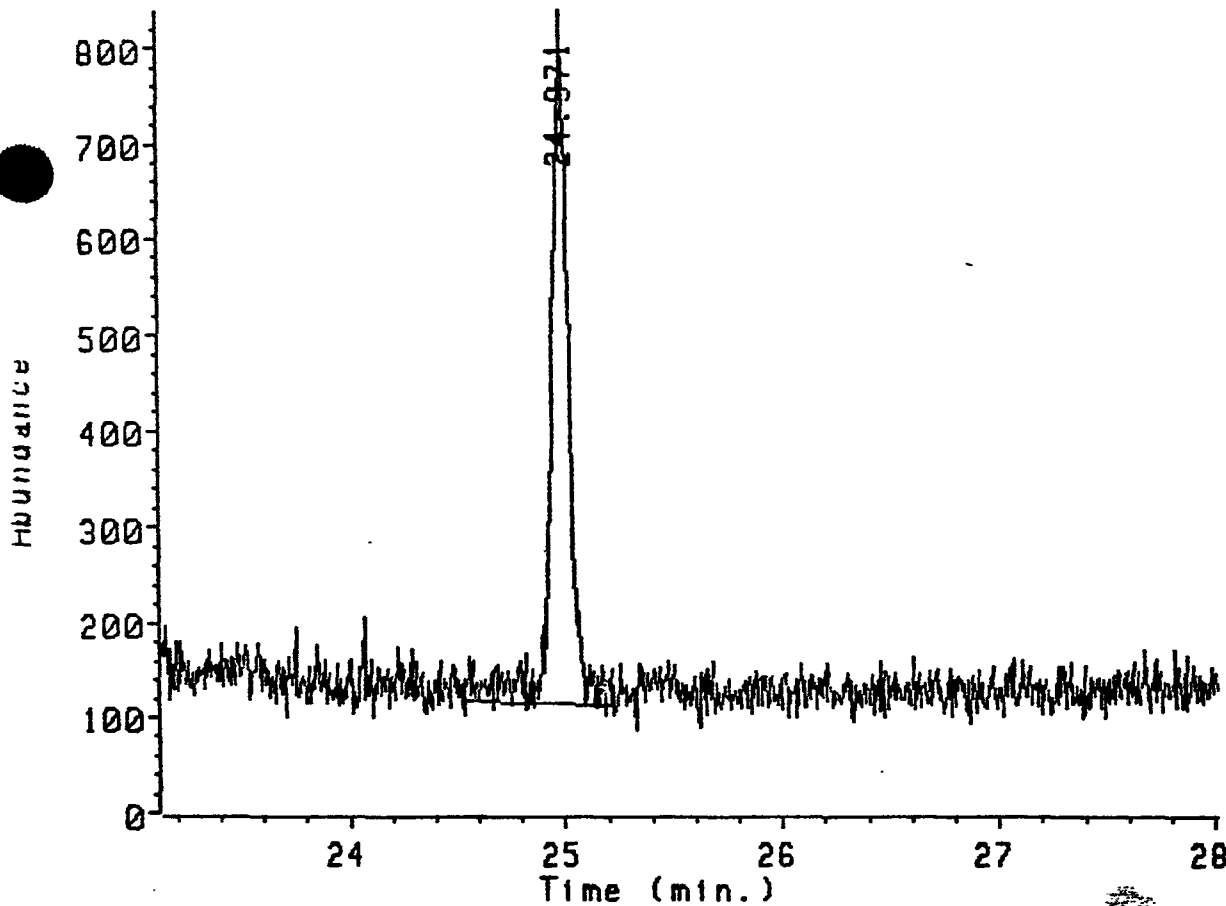
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrment: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

021020

Ion 258.90 amu. from DATA:ICALB02A.D



on 258.90 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.971	BV	0.140	41228	24.525	25.218

03221236

Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

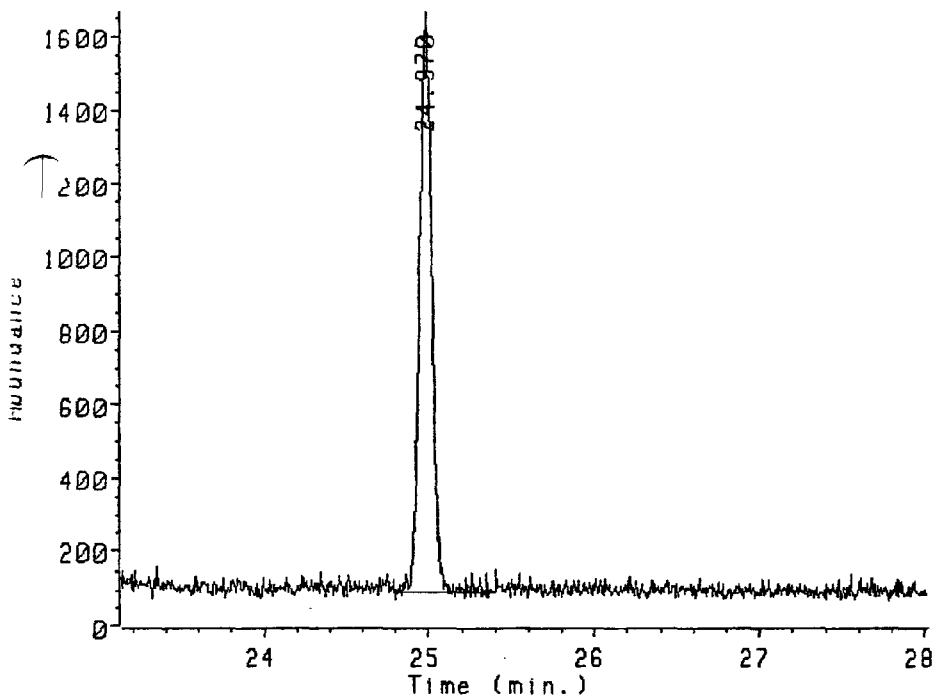
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

021021

Ion 319.90 amu. from DATA:ICALB02A.D



on 319.90 amu. from DATA:ICALB02A.D
LP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.970	BB	0.132	81667	24.784	25.315

03221237

Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

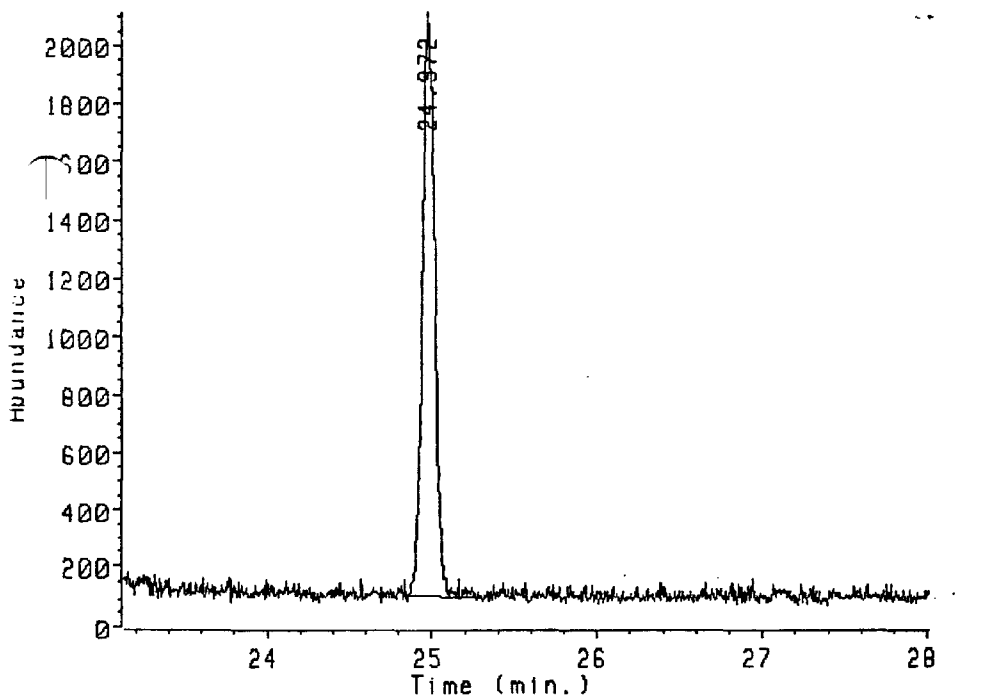
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

021022

Ion 321.90 amu. from DATA:ICALB02A.D



Ion 321.90 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.972	BB	0.127	103594	24.832	25.291

03221238

Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

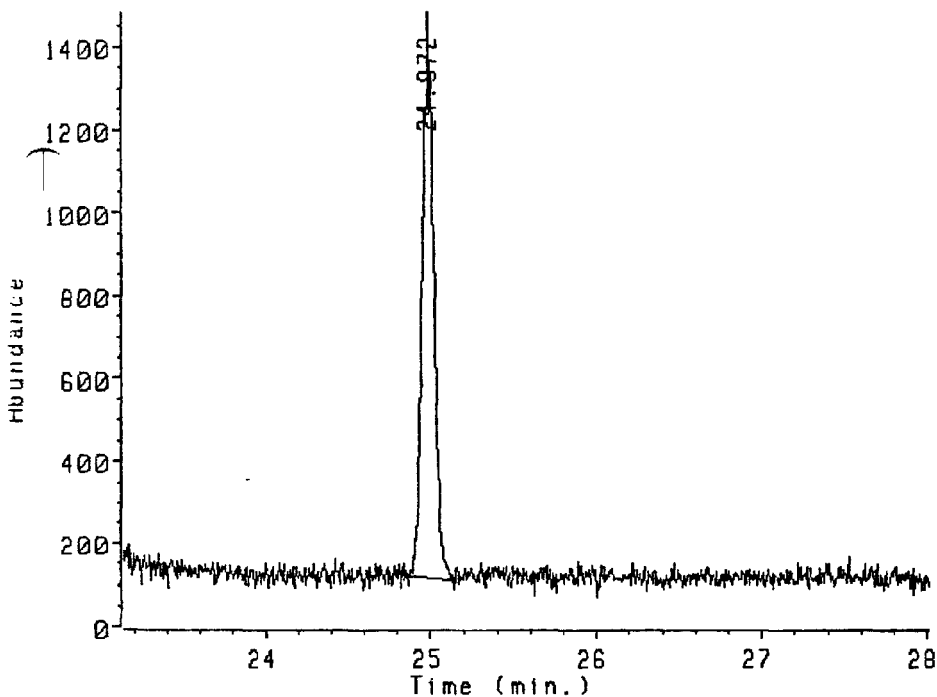
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

021023

Ion 327.90 amu. from DATA:ICALB02A.D



on 327.90 amu. from DATA:ICALB02A.D
LP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.972	BB	0.123	64544	24.832	25.122

03221239

Data file: DATA:ICALB02A.D
File type: GC / MS DATA FILE

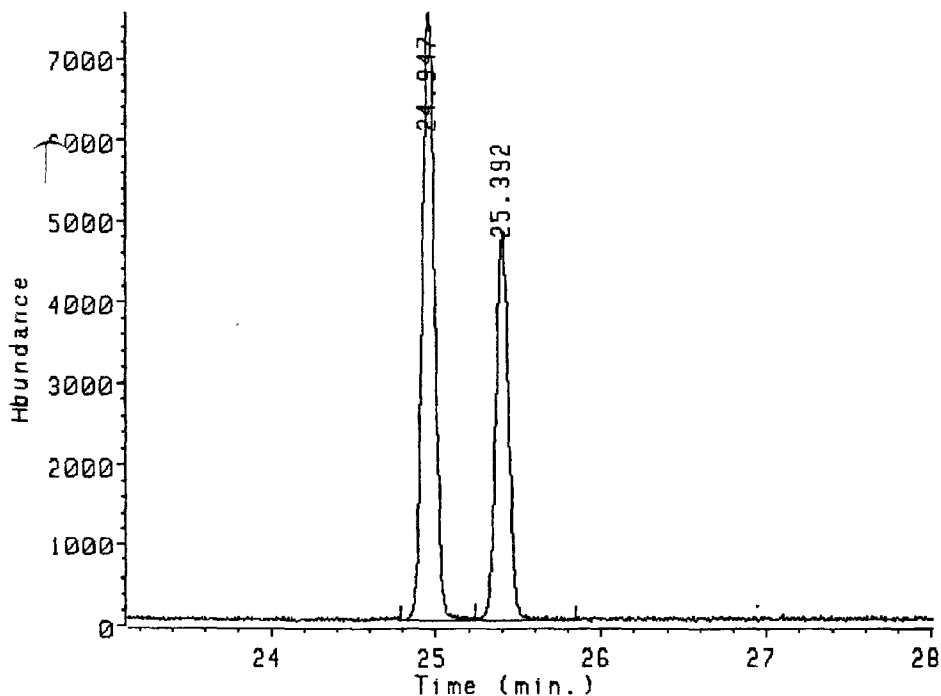
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 1

021024

Ion 331.80 amu. from DATA:ICALB02A.D



Ion 331.80 amu. from DATA:ICALB02A.D
CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.947	BU	0.148	388540	24.784	25.242
2	25.392	UB	0.136	246363	25.242	25.845

03221240



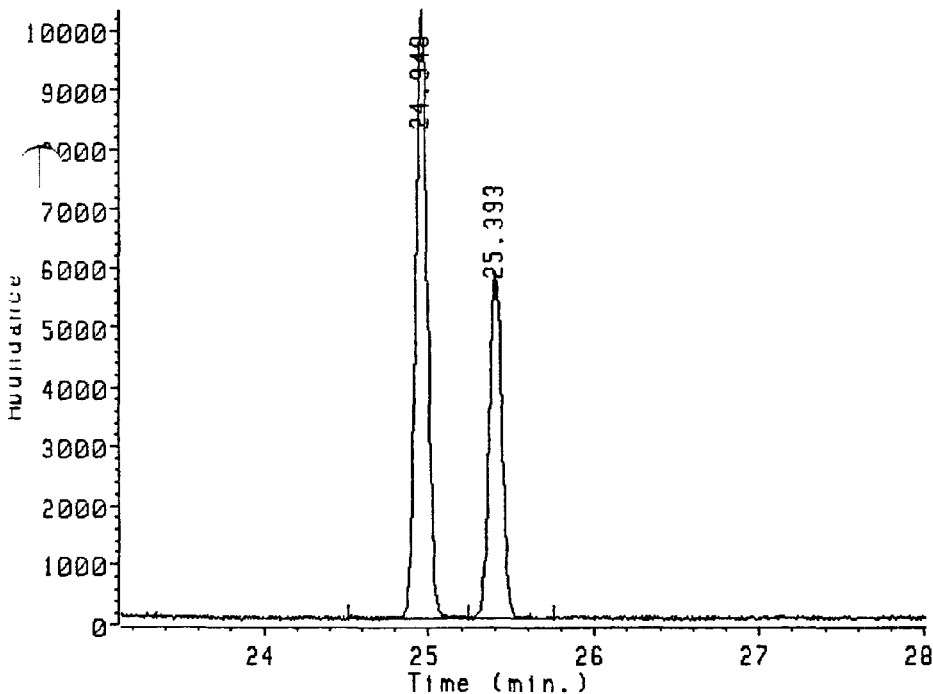
Data file: DATA:ICALB02A.D
 File type: GC / MS DATA FILE
 Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 11:39 am
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 1

021025

Ion 333.80 amu. from DATA:ICALB02A.D



on 333.80 amu. from DATA:ICALB02A.D
 LP-CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.948	BV	0.139	508121	24.512	25.242
2	25.393	UB	0.130	303039	25.242	25.749

03221241

↑
Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

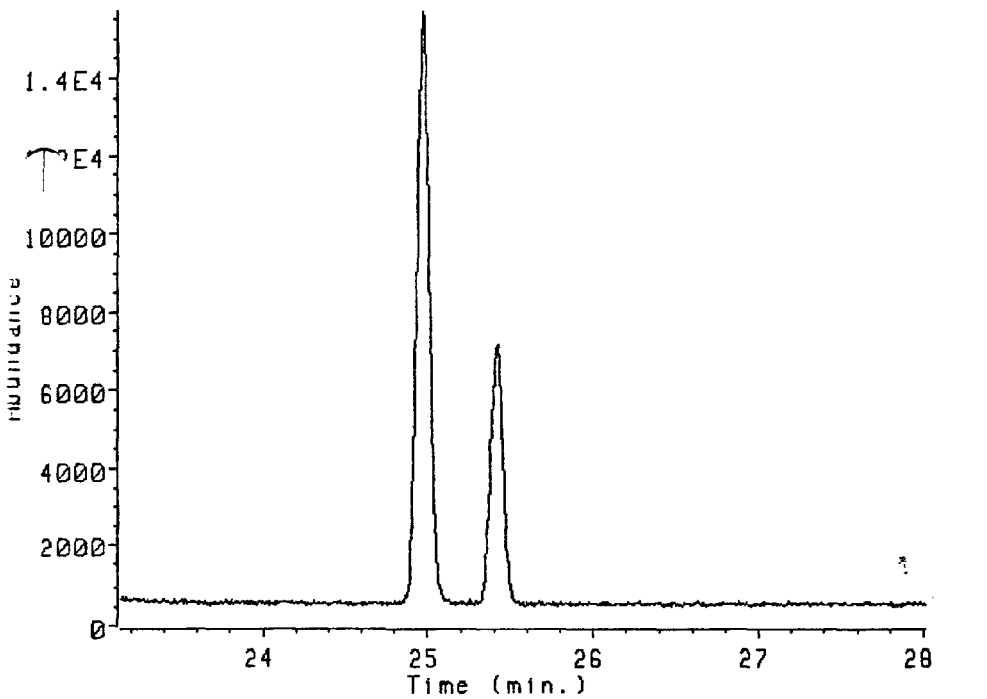
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

029026

TIC of DATA:ICALB02B.D



Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

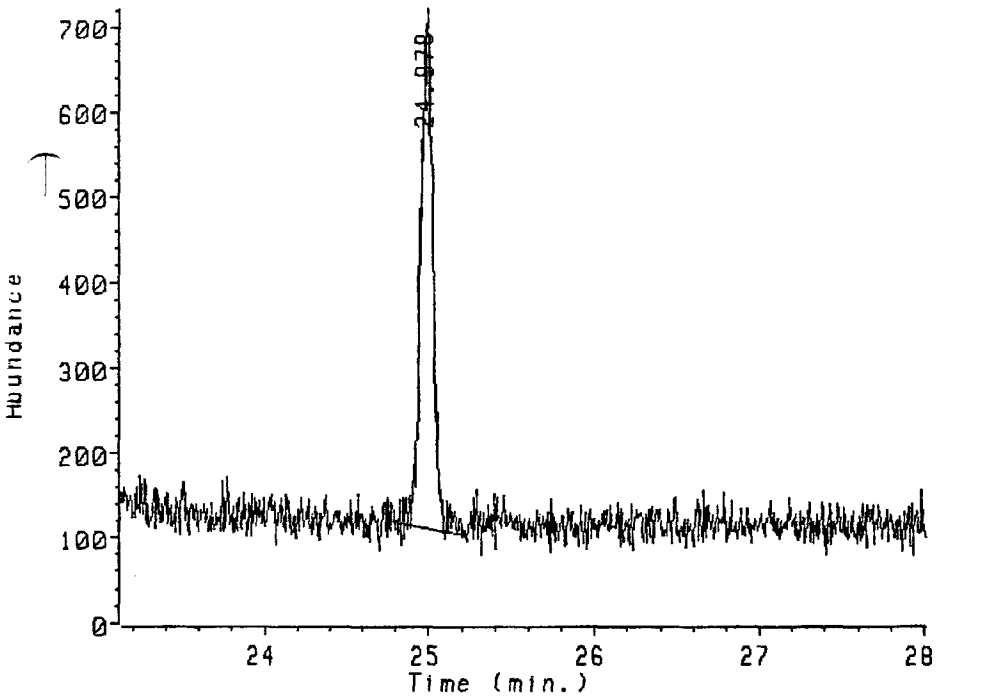
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

021027

Ion 258.90 amu. from DATA:ICALB02B.D



on 258.90 amu. from DATA:ICALB02B.D
LP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.119	31638	24.784	25.218

↑

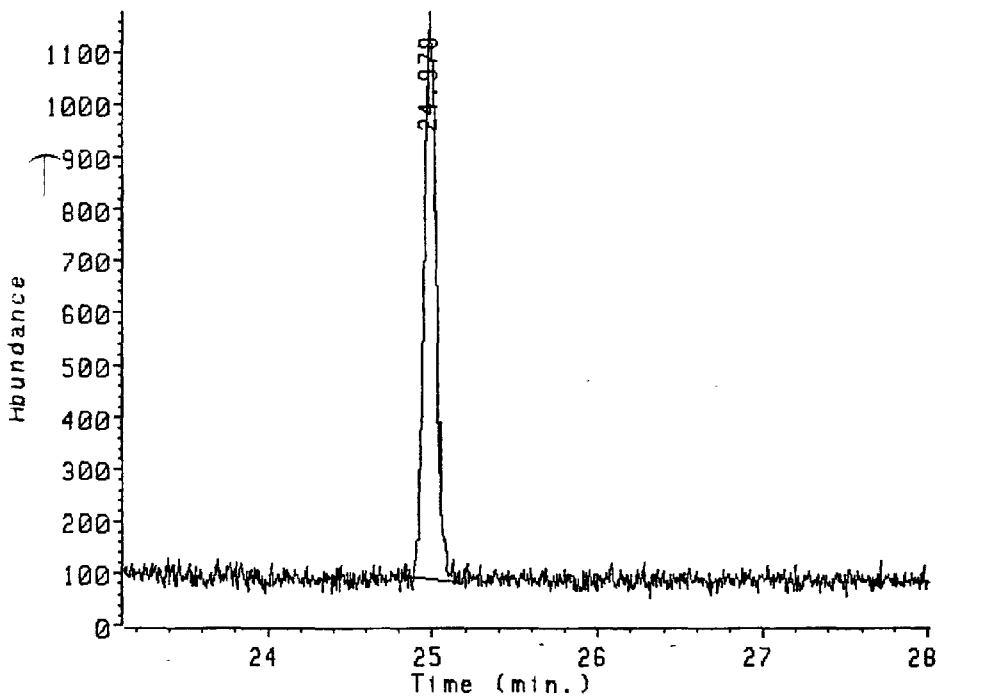
Data file: DATA:ICALB02B.D
 File type: GC / MS DATA FILE
 Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 2

0 2 1 0 2 0

Ion 319.90 amu. from DATA:ICALB02B.D



Ion 319.90 amu. from DATA:ICALB02B.D
 CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.136	55207	24.832	25.168

03221244

Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

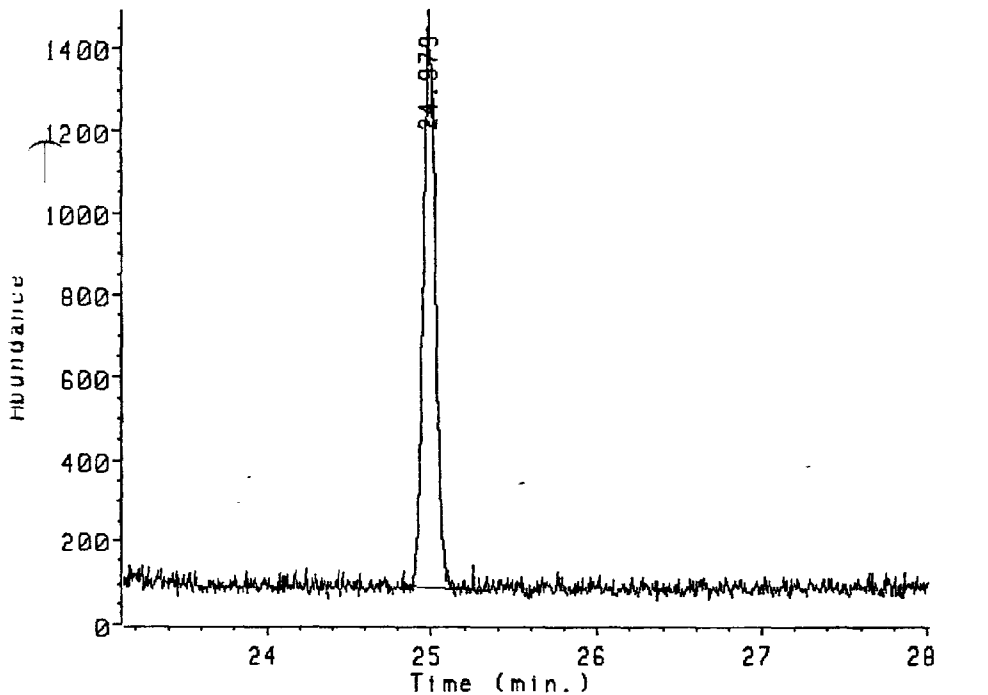
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

021029

Ion 321.90 amu. from DATA:ICALB02B.D



on 321.90 amu. from DATA:ICALB02B.D
L CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.135	69533	24.832	25.339

03221245

Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

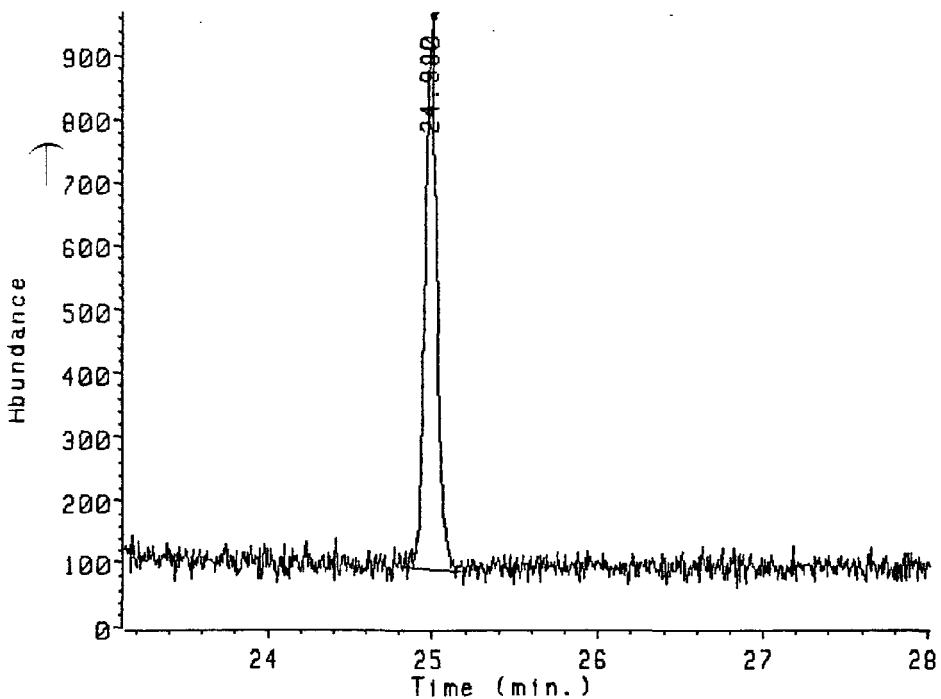
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

021030

Ion 327.90 amu. from DATA:ICALB02B.D



Ion 327.90 amu. from DATA:ICALB02B.D
CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.142	44177	24.808	25.170

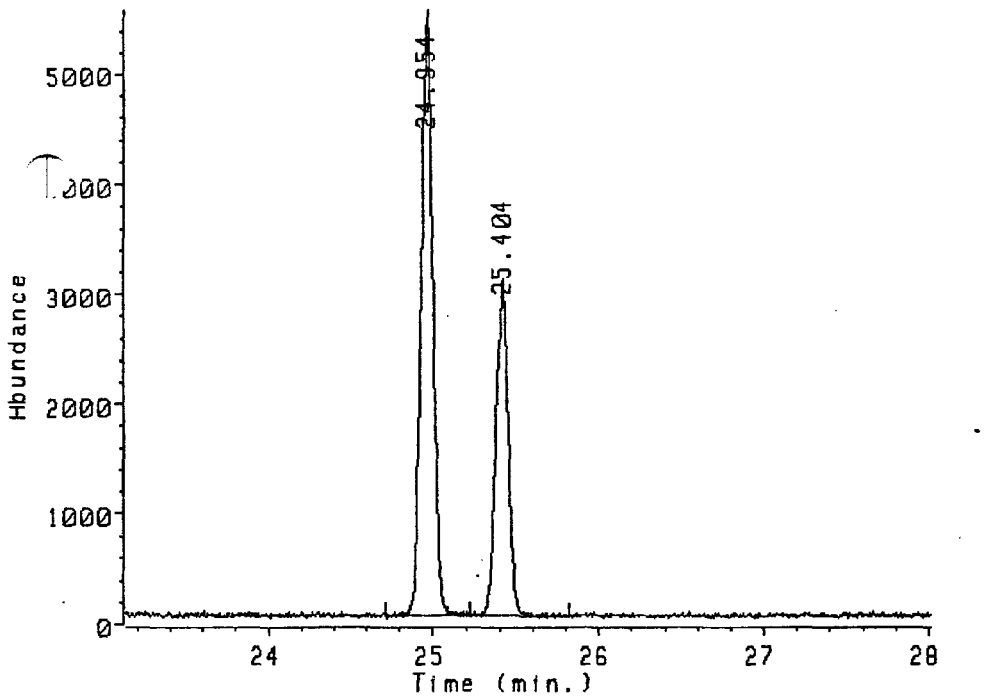
Data file: DATA:ICALB02B.D
 File type: GC / MS DATA FILE
 Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 2

021031

Ion 331.80 amu. from DATA:ICALB02B.D



Ion 331.80 amu. from DATA:ICALB02B.D
 CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	BV	0.084	270067	24.712	25.218
2	25.404	VB	0.147	155714	25.218	25.822



Data file: DATA:ICALB02B.D
File type: GC / MS DATA FILE

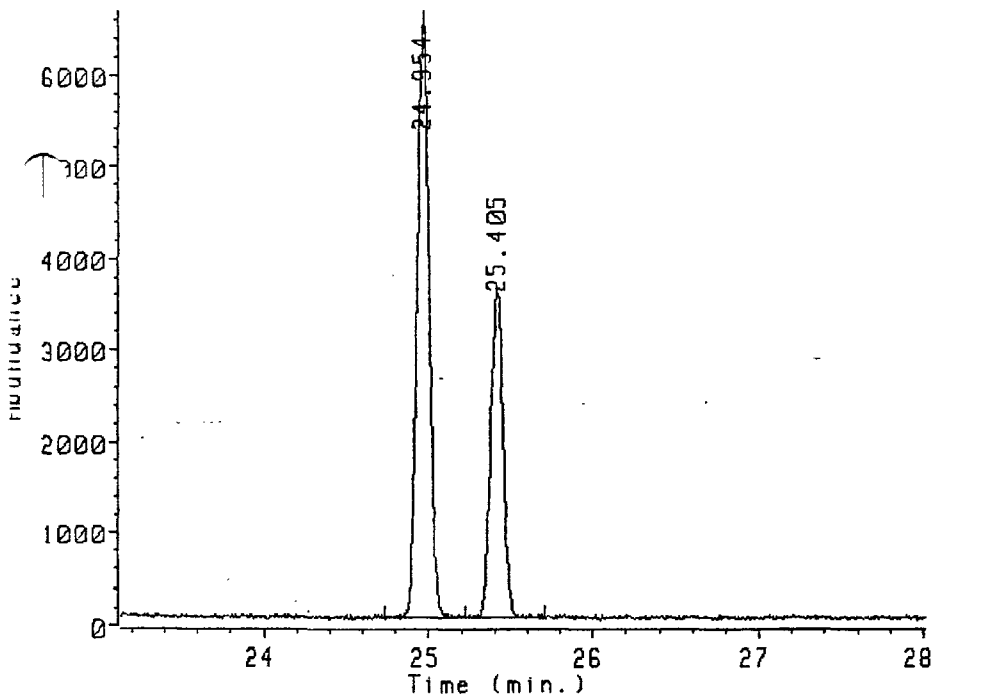
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:11 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 2

021032

Ion 333.80 amu. from DATA:ICALB02B.D



Ion 333.80 amu. from DATA:ICALB02B.D
CLP CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	BU	0.138	334764	24.736	25.218
2	25.405	UB	0.137	190294	25.218	25.701

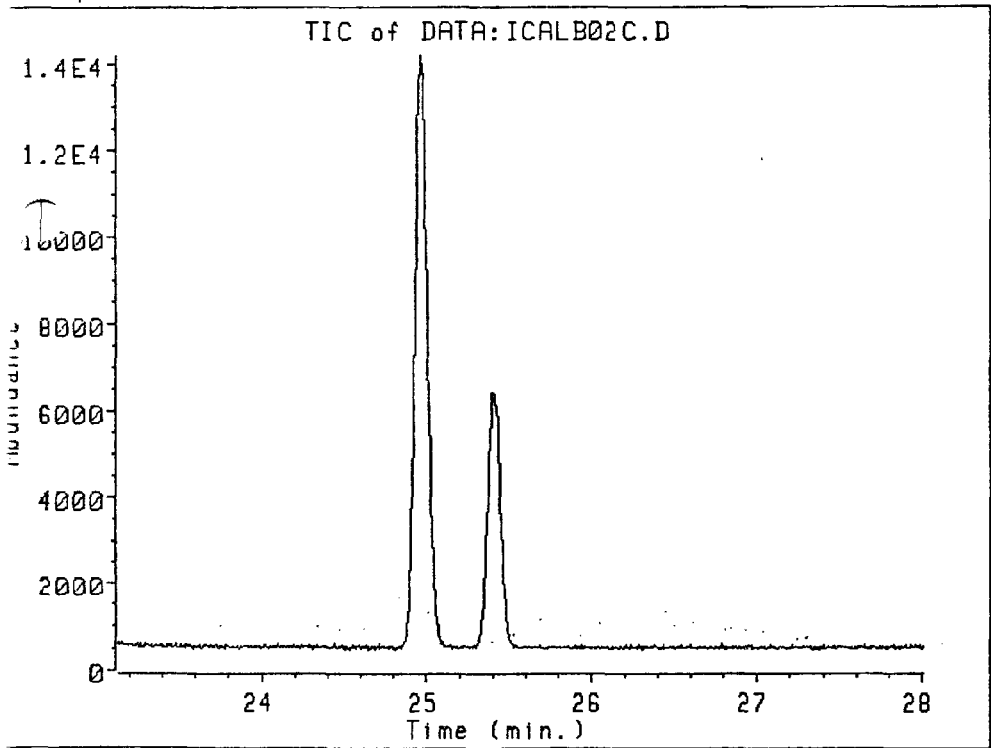
Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

021035





Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

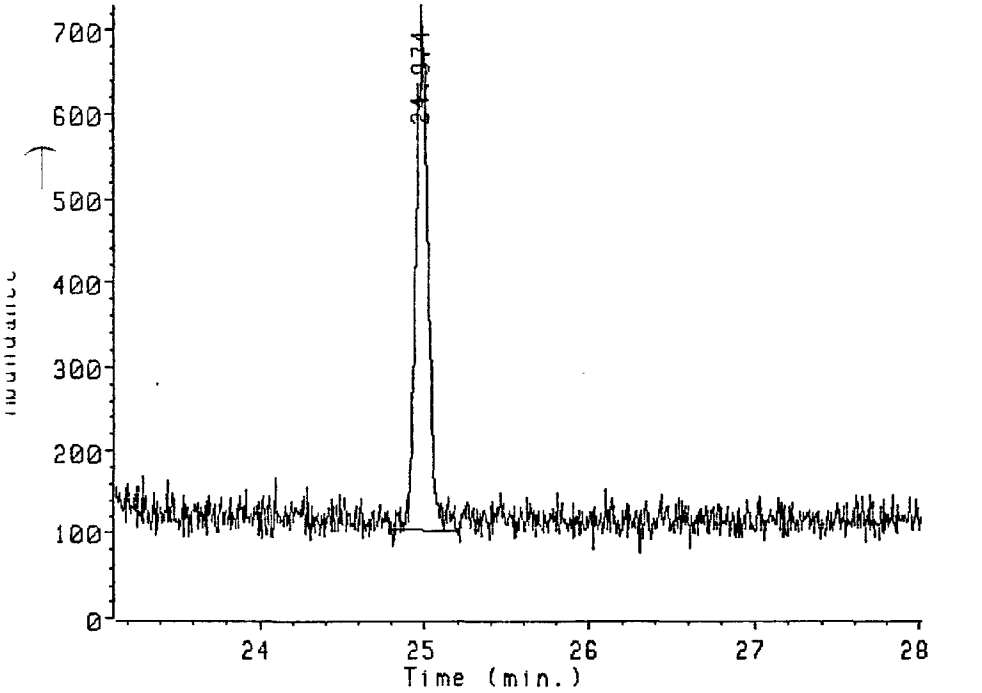
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

021034

Ion 258.90 amu. from DATA:ICALB02C.D



Ion 258.90 amu. from DATA:ICALB02C.D
CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.974	BB	0.124	32393	24.784	25.194

T

Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

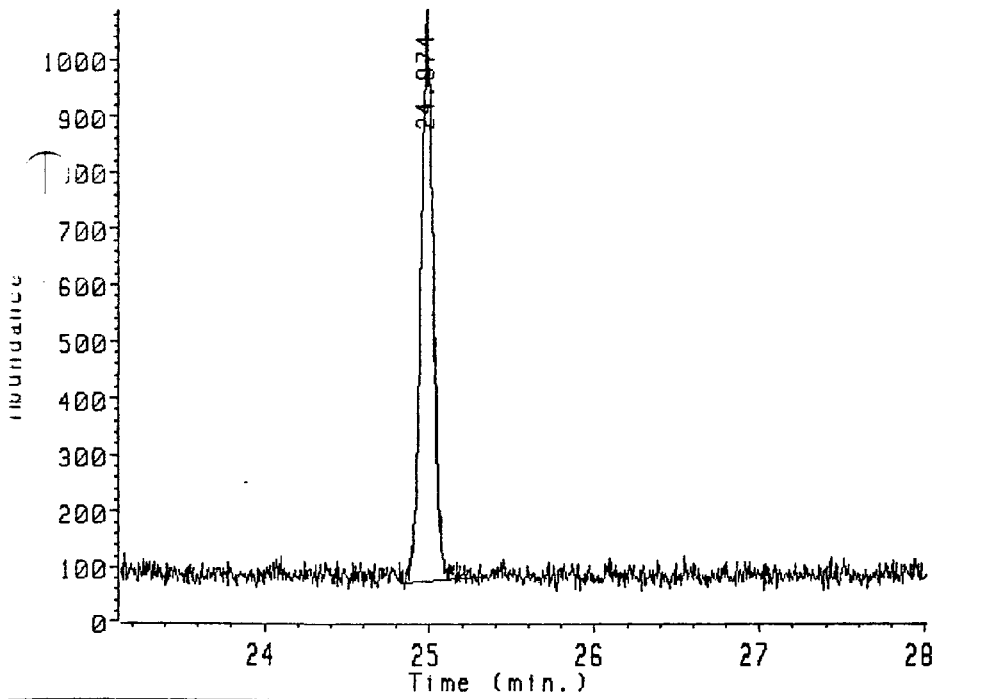
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

021035

Ion 319.90 amu. from DATA:ICALB02C.D



on 319.90 amu. from DATA:ICALB02C.D
LP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.974	BU	0.135	52633	24.832	25.314

Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

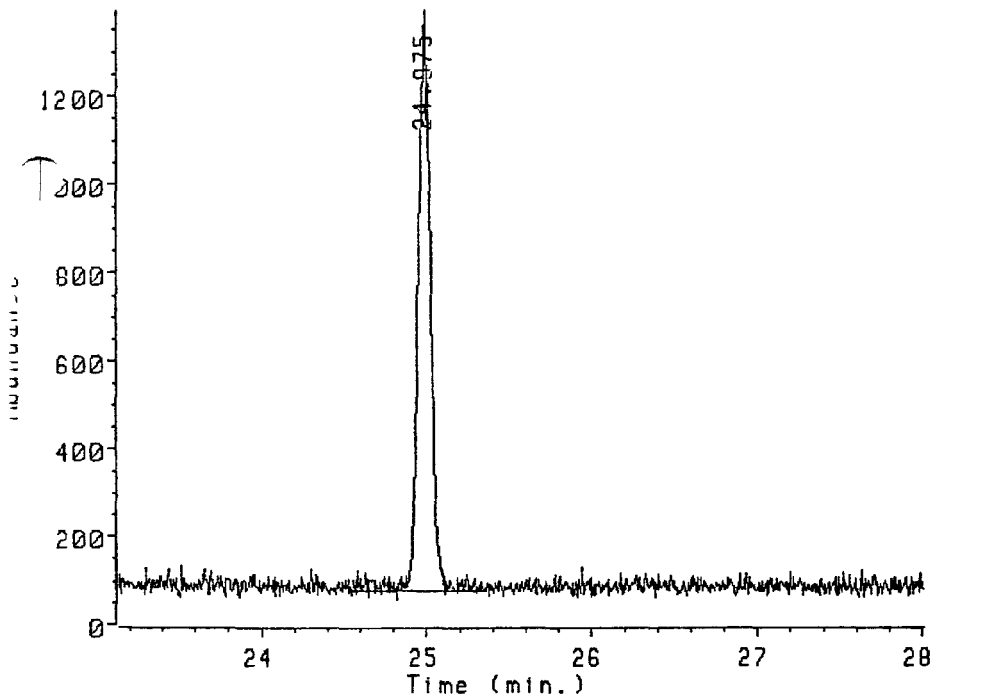
Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

021036

Ion 321.90 amu. from DATA:ICALB02C.D



on 321.90 amu. from DATA:ICALB02C.D
_P CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.141	70447	24.524	25.338

03221252

↑
 Data file: DATA:ICALB02C.D
 File type: GC / MS DATA FILE

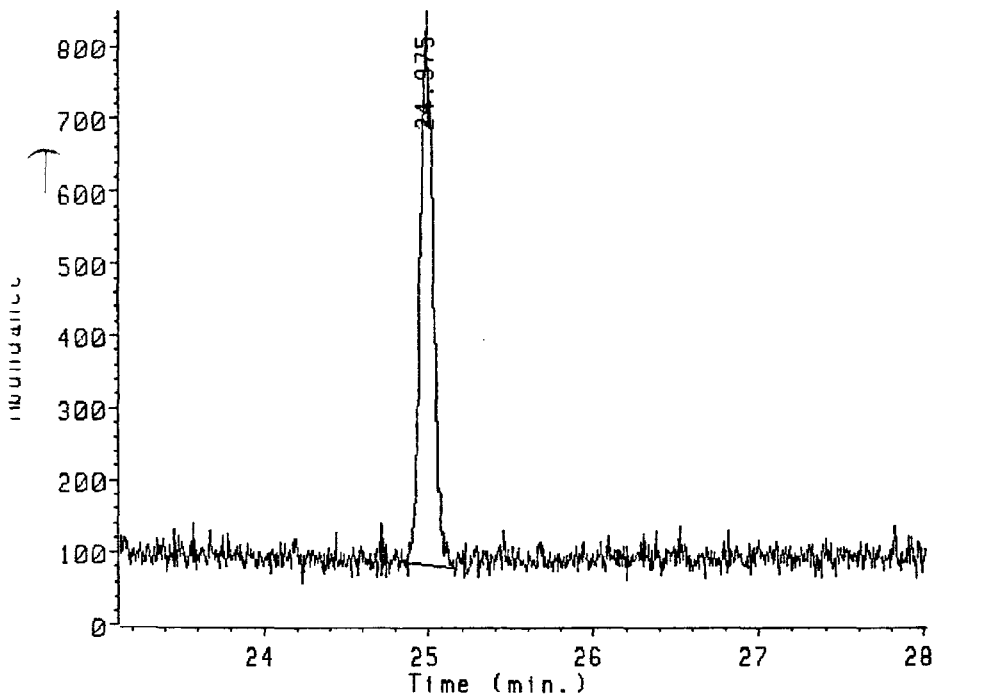
Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 3

021037

Ion 327.90 amu. from DATA:ICALB02C.D



Ion 327.90 amu. from DATA:ICALB02C.D
 CLP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.136	40204	24.832	25.150

03221253

27

3 1890



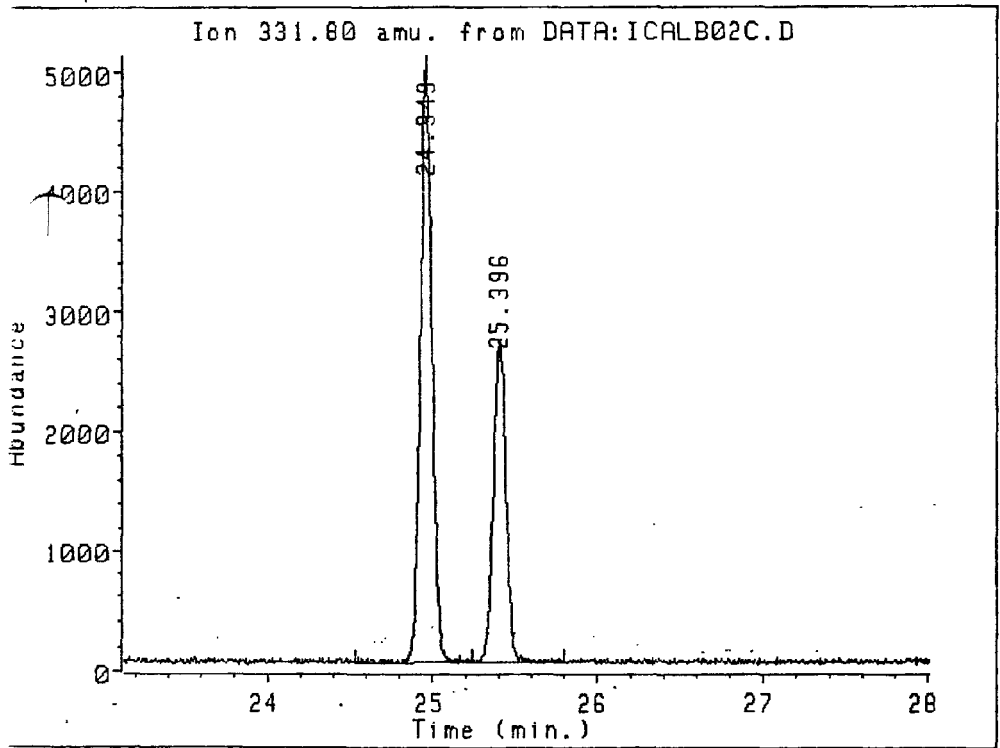
Data file: DATA:ICALB02C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN I
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 2
Replicate num : 3

021058



on 331.80 amu. from DATA:ICALB02C.D
LP CALIBRATION SOLN I

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.949	UV	0.127	245540	24.530	25.242
2	25.396	UV	0.087	140270	25.242	25.797

03221254

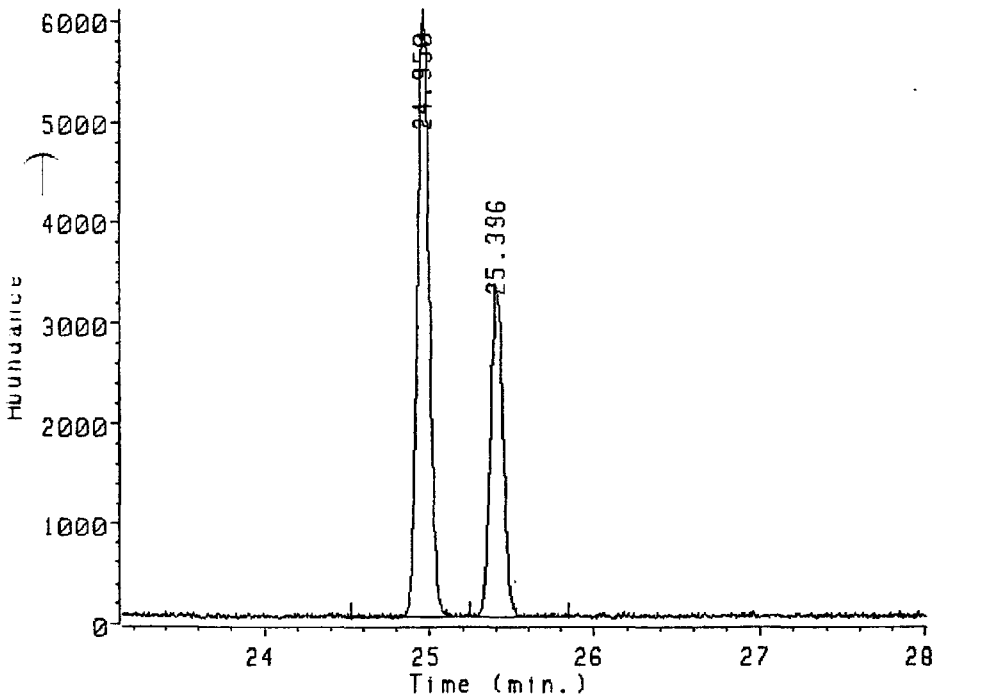
Data file: DATA:ICALB02C.D
 File type: GC / MS DATA FILE
 Name Info: CLP CALIBRATION SOLN I
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 12:43 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 2
 Replicate num : 3

021039

Ion 333.80 amu. from DATA:ICALB02C.D



on 333.80 amu. from DATA:ICALB02C.D
LP_CALIBRATION SOLN I

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.950	BV	0.141	304190	24.524	25.242
2	25.396	VB	0.089	172777	25.242	25.845

Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

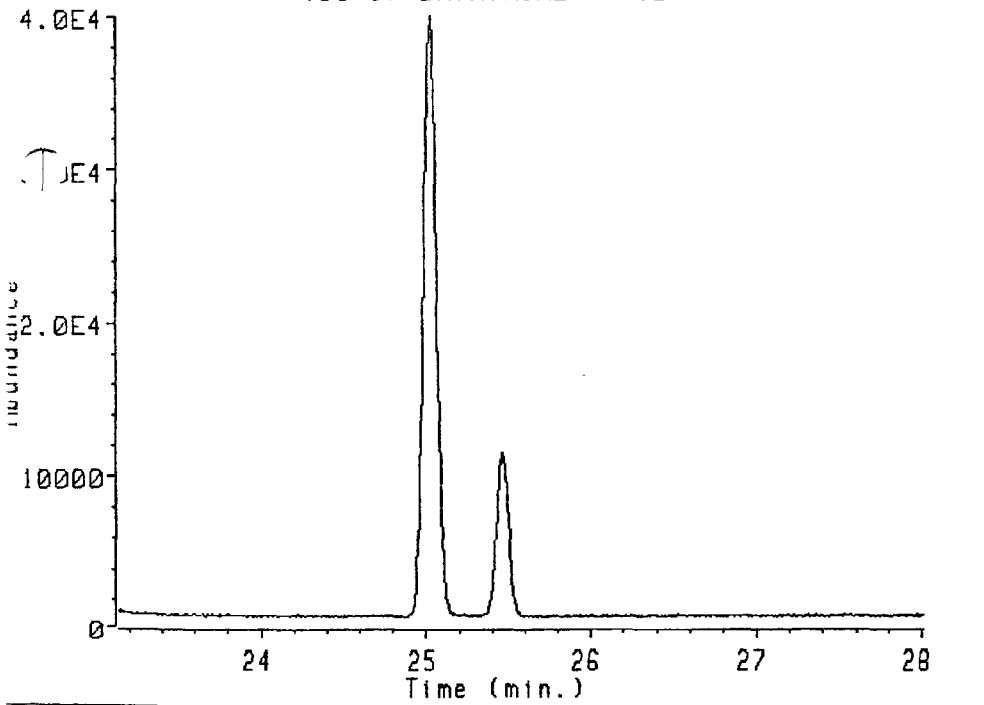
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

021040

TIC of DATA:NCALA02A.D



Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

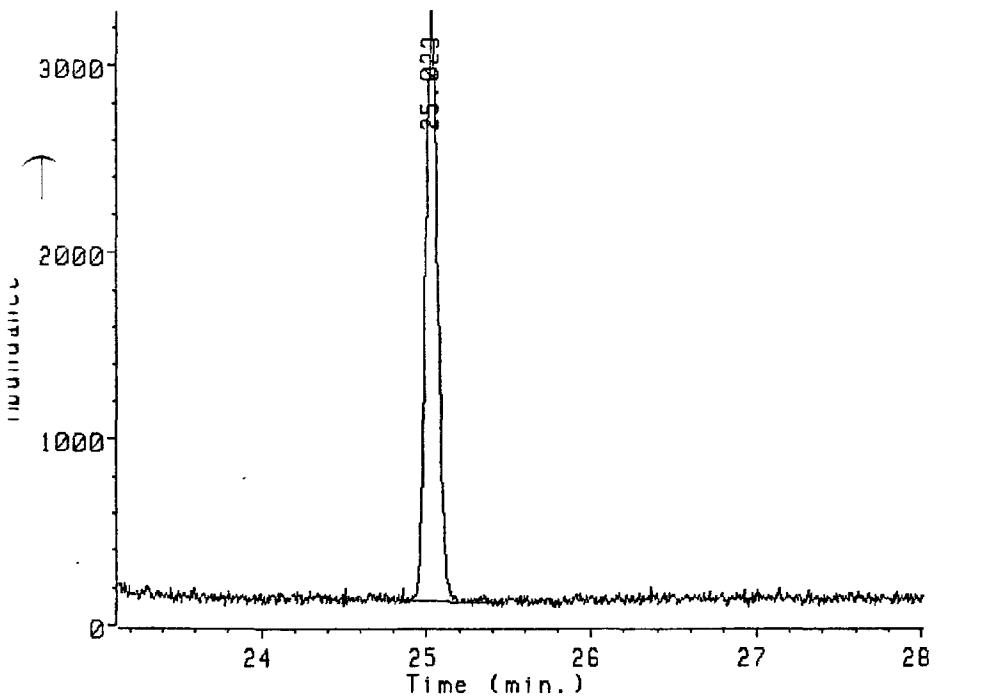
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

021041

Ion 258.90 amu. from DATA:NCALA02A.D



Ion 258.90 amu. from DATA:NCALA02A.D
LP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	25.023	BB	0.133	167049	24.856	25.436

03221257

Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

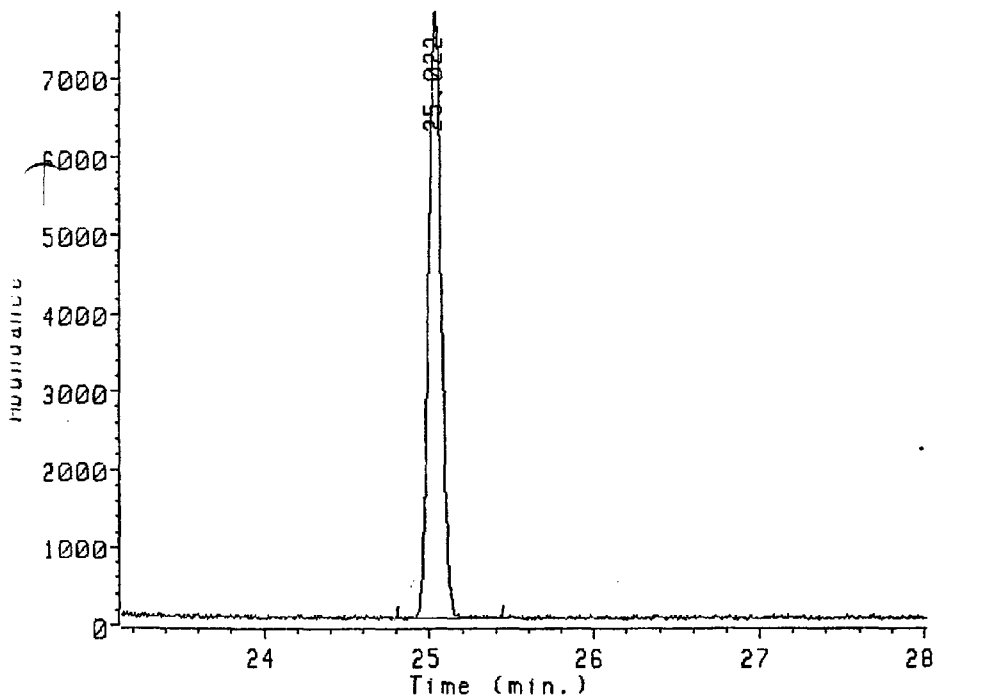
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

021042

Ion 319.90 amu. from DATA:NCALA02A.D



Ion 319.90 amu. from DATA:NCALA02A.D
LP CALIBRATION SOLN II

S. #	Ret Time	Type	Width	Area	Start Time	End Time
1	25.022	BB	0.142	421706	24.808	25.436

03221258

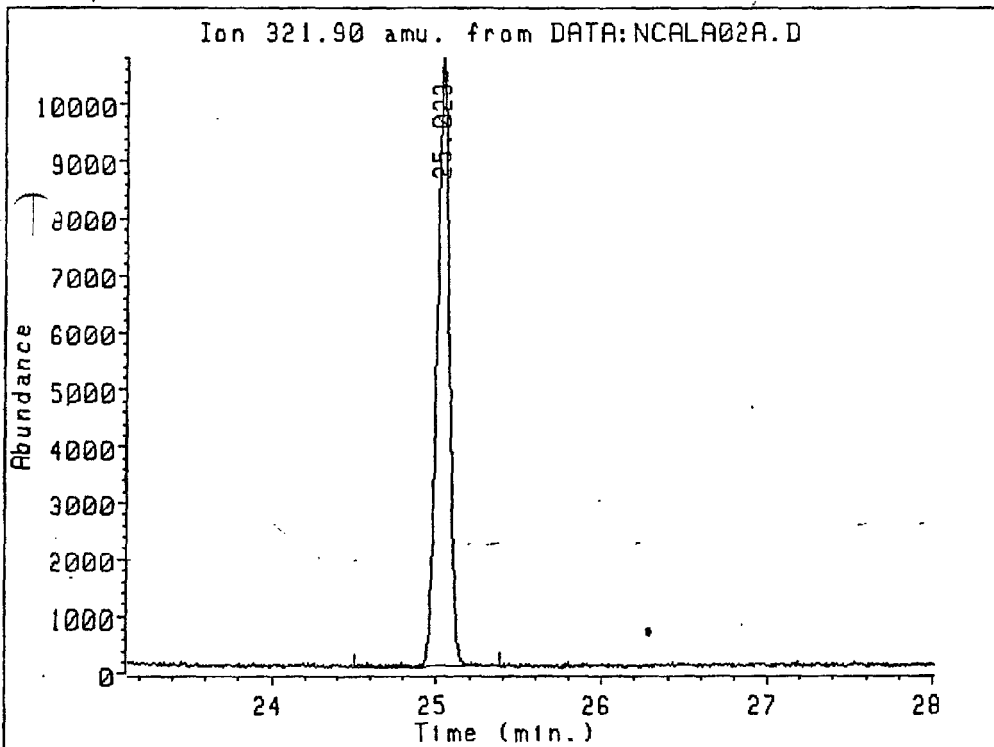
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

021073



Ion 321.90 amu. from DATA:NCALA02A.D

CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.023	BB	0.132	555954	24.501	25.387

03221259

↑
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

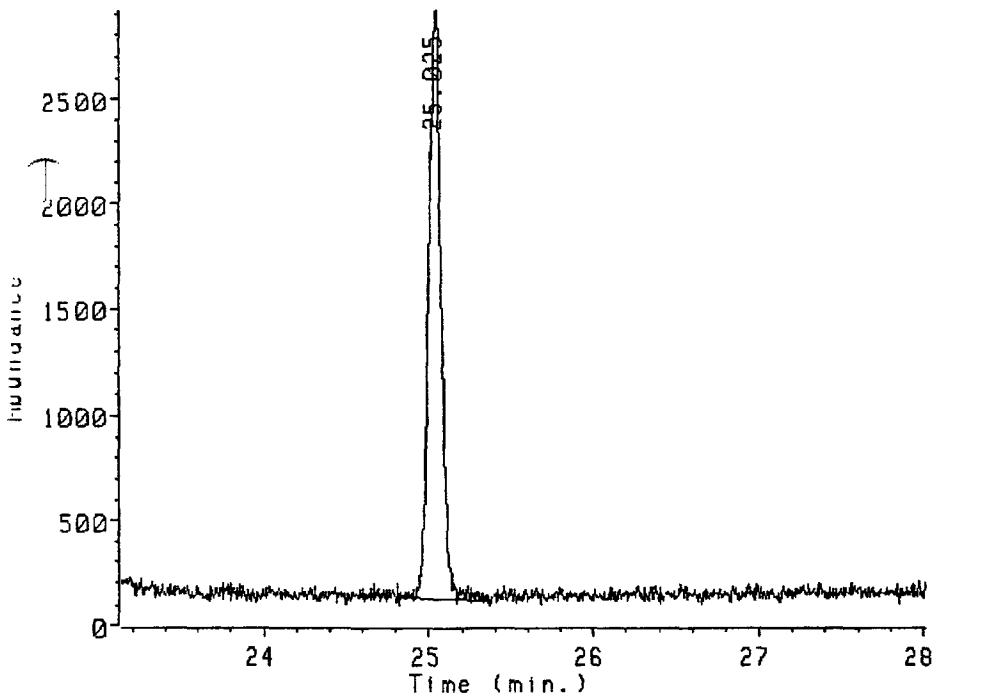
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

021044

Ion 327.90 amu. from DATA:NCALA02A.D



on 327.90 amu. from DATA:NCALA02A.D
LP CALIBRATION SOLN II

sal.#	Ret Time	Type	Width	Area	Start Time	End Time
1	25.025	BV	0.128	147075	24.808	25.363

03221260

Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

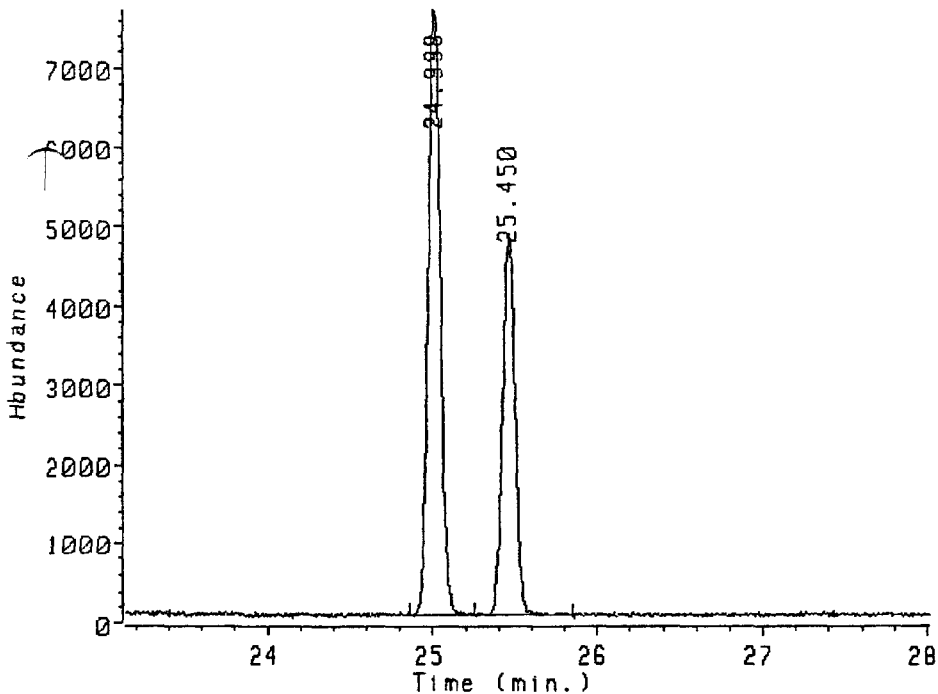
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

021045

Ion 331.80 amu. from DATA:NCALA02A.D



Ion 331.80 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.998	BV	0.132	401101	24.856	25.247
2	25.450	PB	0.140	253790	25.247	25.846

03221261

↑
Data file: DATA:NCALA02A.D
File type: GC / MS DATA FILE

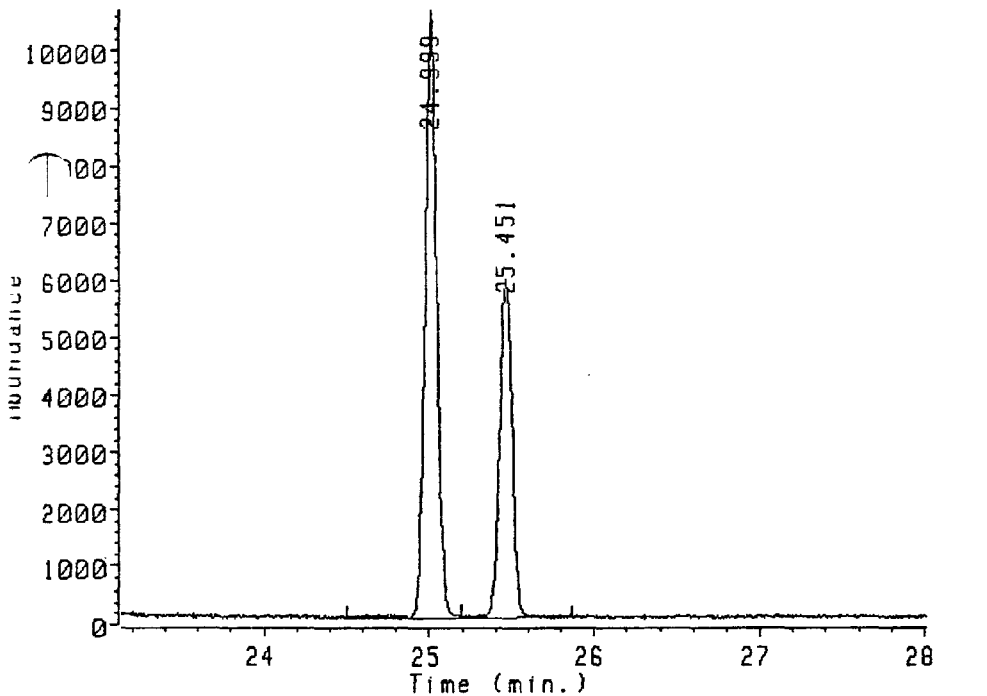
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 1:45 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 1

021046

Ion 333.80 amu. from DATA:NCALA02A.D



Ion 333.80 amu. from DATA:NCALA02A.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.999	BU	0.135	515970	24.501	25.194
2	25.451	UB	0.130	311433	25.194	25.870

03221262

Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

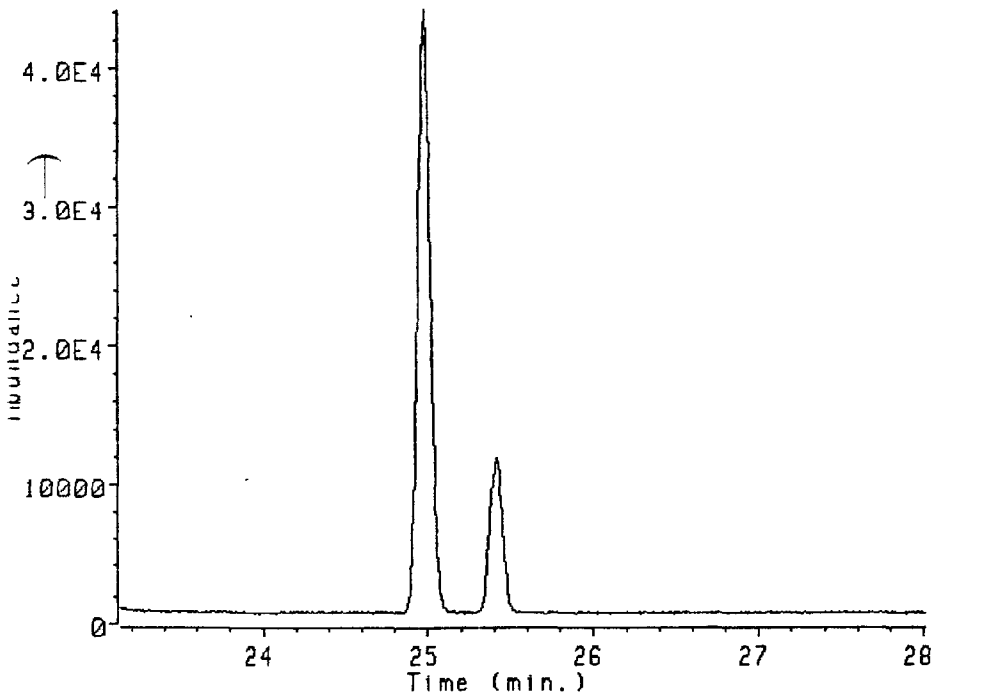
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

021047

TIC of DATA:NCALA02B.D



↑
 Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE

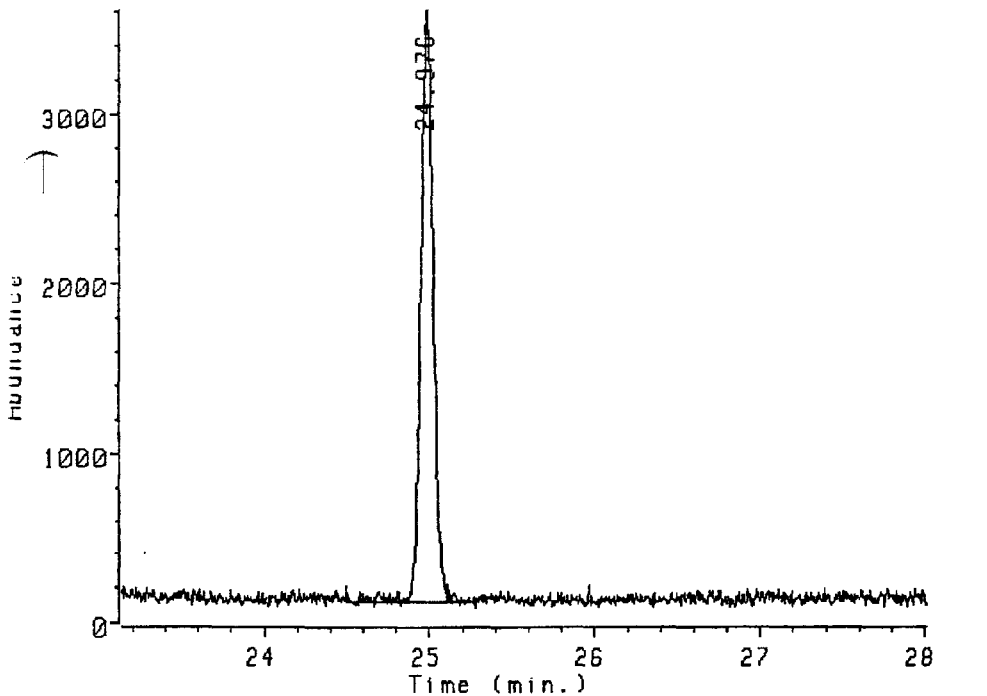
Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

021048

Ion 258.90 amu. from DATA:NCALA02B.D



on 258.90 amu. from DATA:NCALA02B.D
 LP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.123	178879	24.497	25.266

03221264

Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

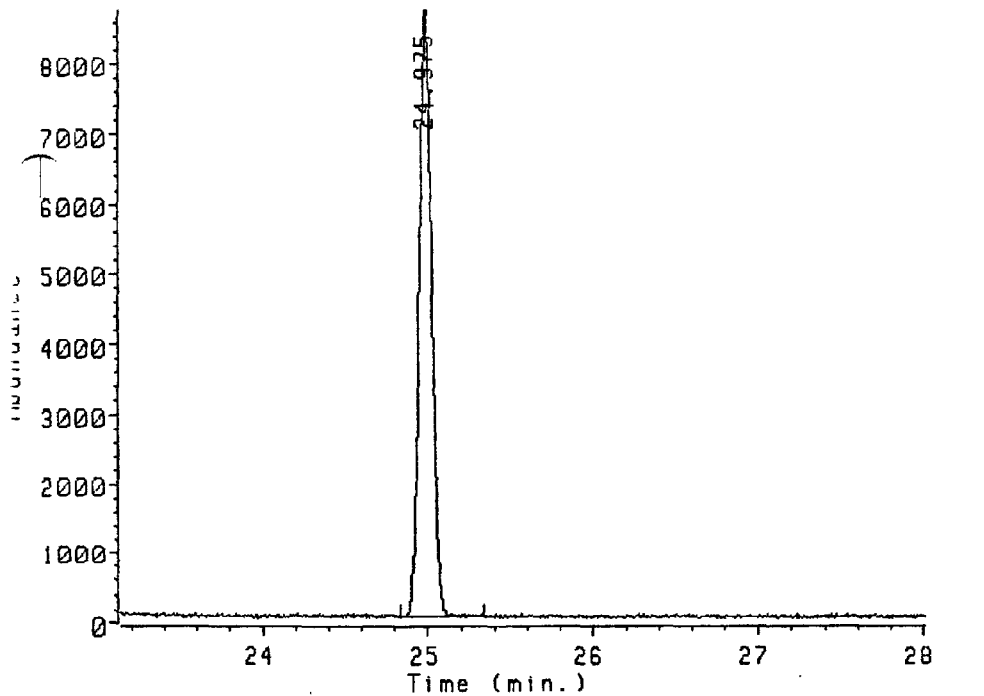
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

021049

Ion 319.90 amu. from DATA:NCALA02B.D



Ion 319.90 amu. from DATA:NCALA02B.D
P CALIBRATION SOLN II

Scan#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.150	446509	24.832	25.339



Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

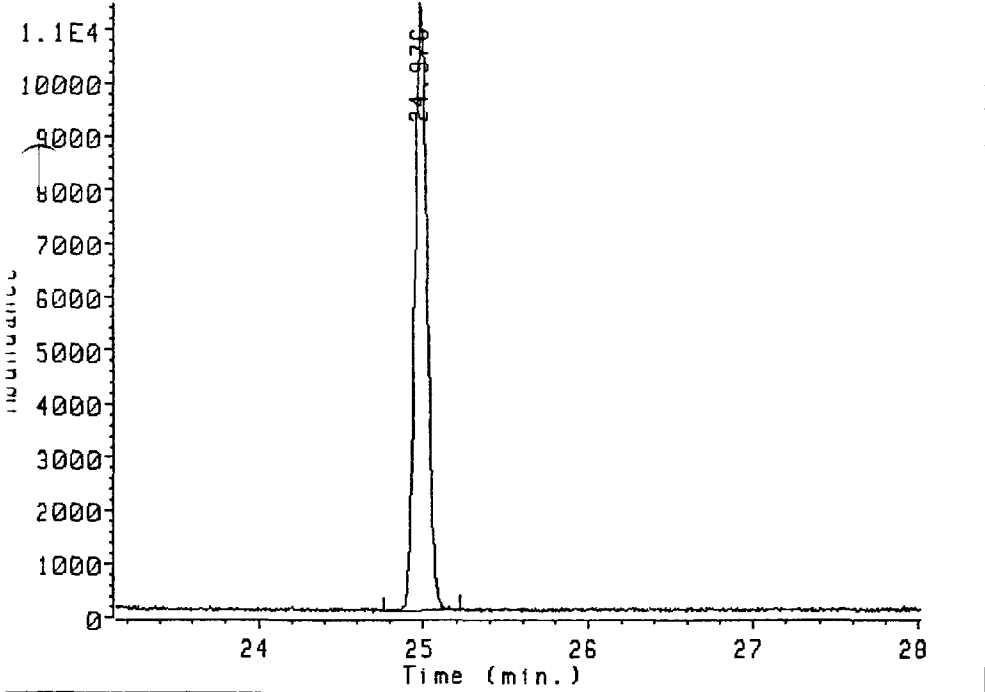
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

021050

Ion 321.90 amu. from DATA:NCALA02B.D



Ion 321.90 amu. from DATA:NCALA02B.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.150	583866	24.760	25.218

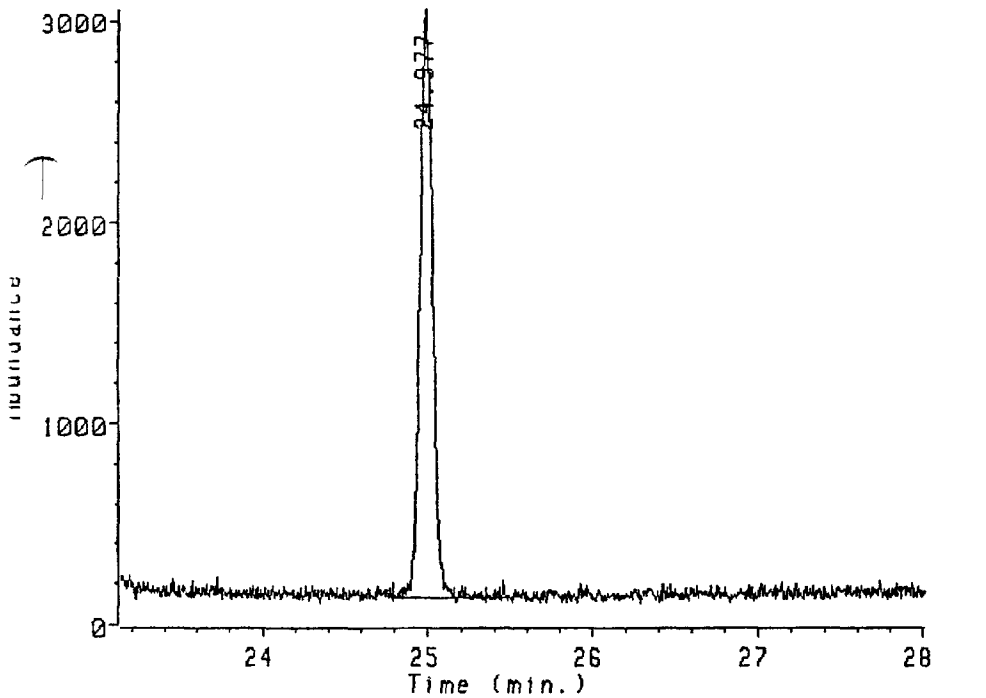
Data file: DATA:NCALA02B.D
 File type: GC / MS DATA FILE
 Name Info: CLP CALIBRATION SOLN II
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 2
 Replicate num : 2

021051

Ion 327.90 amu. from DATA:NCALA02B.D



on 327.90 amu. from DATA:NCALA02B.D
LP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.977	BB	0.138	154612	24.784	25.483

03221267

Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

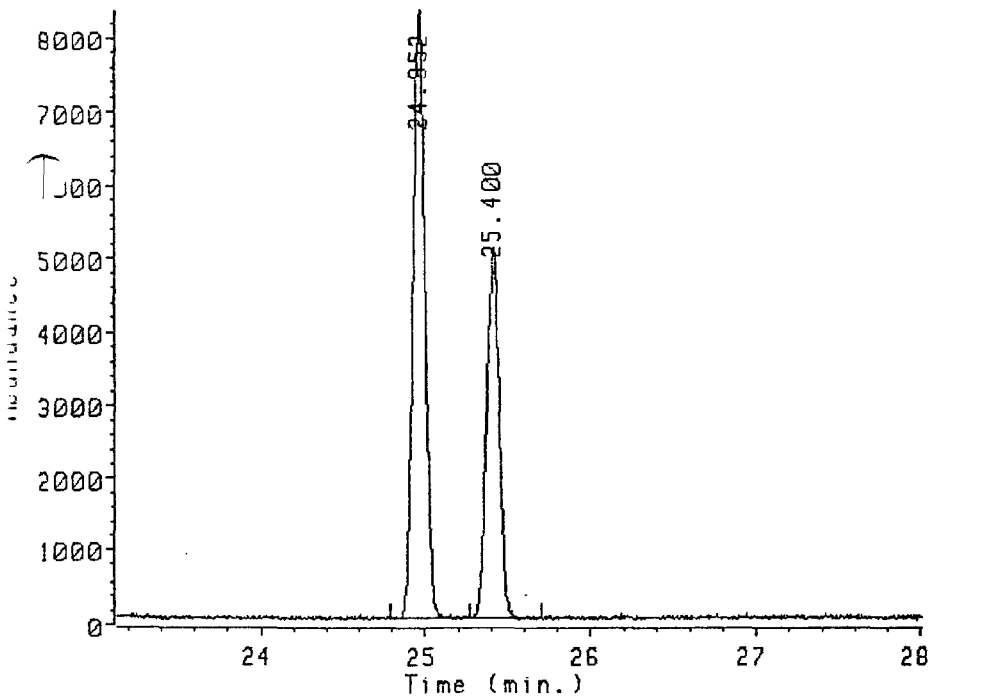
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

021052

Ion 331.80 amu. from DATA:NCALA02B.D



Ion 331.80 amu. from DATA:NCALA02B.D
CLP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.952	UV	0.141	415810	24.784	25.266
2	25.400	UV	0.132	258862	25.266	25.700

Data file: DATA:NCALA02B.D
File type: GC / MS DATA FILE

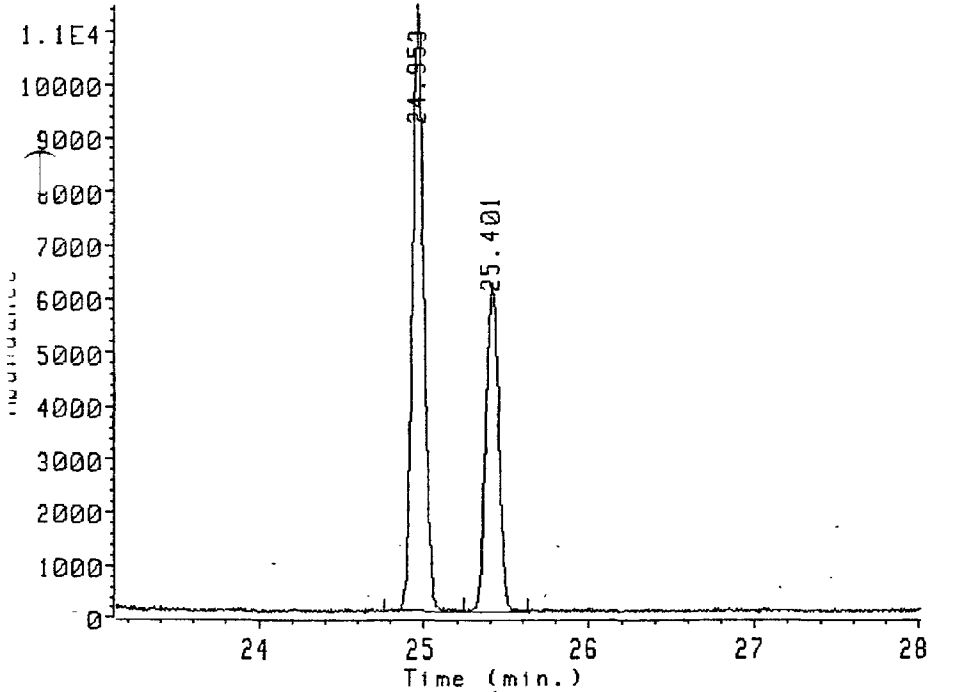
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:17 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 2

021053

Ion 333.80 amu. from DATA:NCALA02B.D



Ion 333.80 amu. from DATA:NCALA02B.D
CLP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.953	UV	0.128	542426	24.760	25.242
2	25.401	UV	0.136	322356	25.242	25.628

03221269

↑
Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

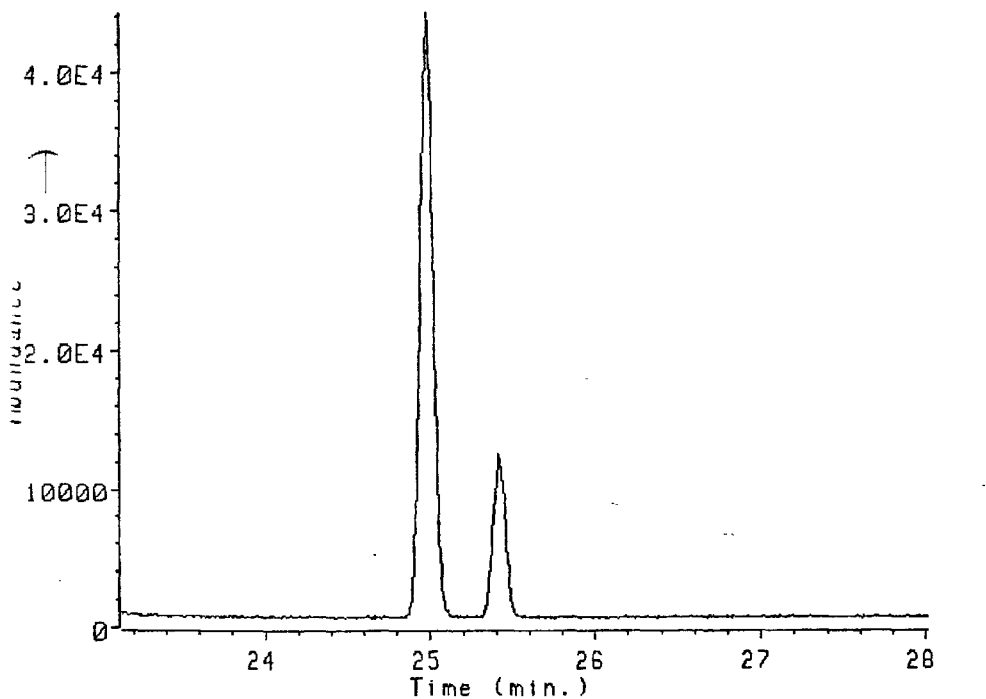
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

021054

TIC of DATA:NCALA02C.D



03221270

Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

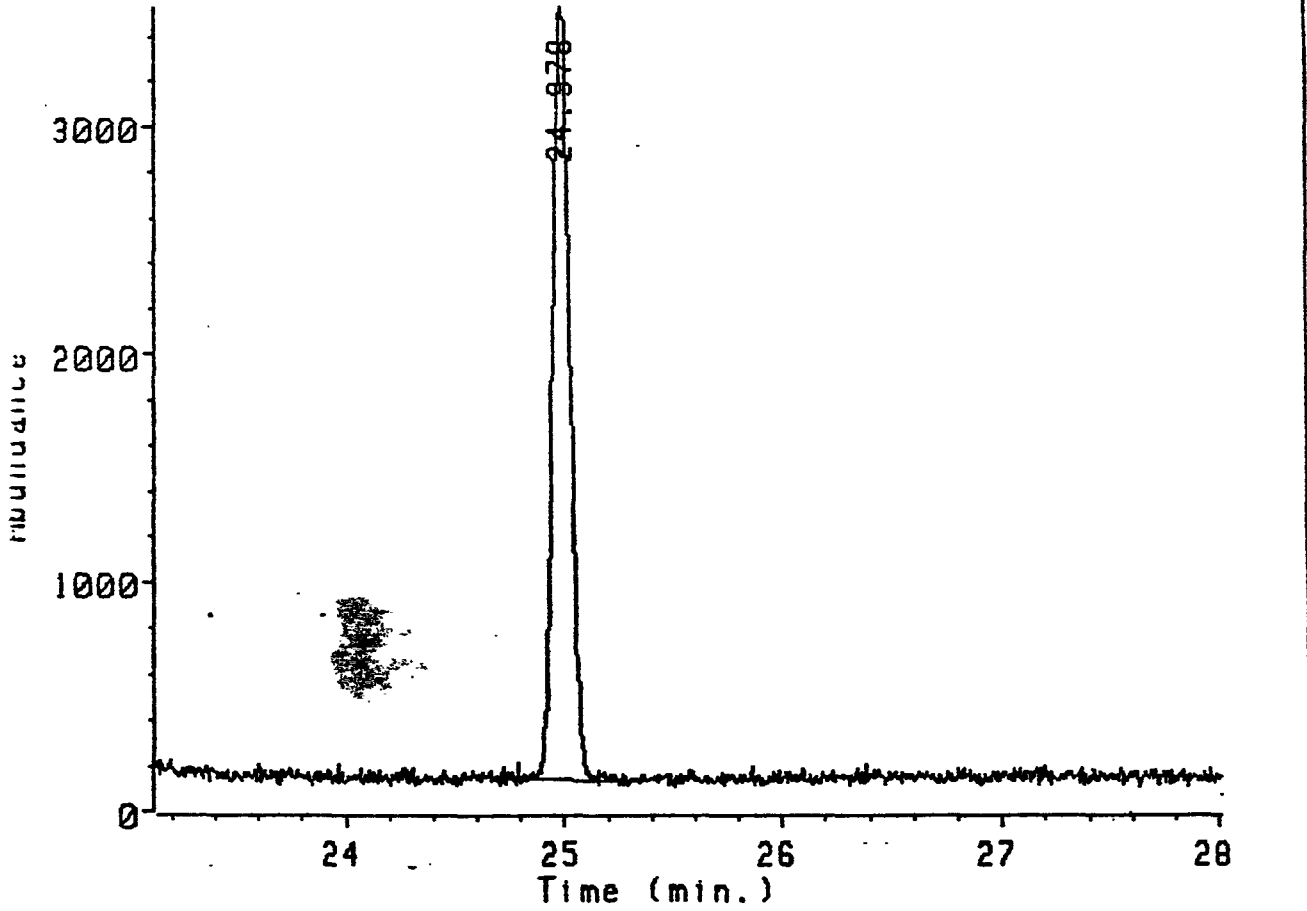
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

021055

Ion 258.90 amu. from DATA:NCALA02C.D



Ion 258.90 amu. from DATA:NCALA02C.D
CLP CALIBRATION SOLN II

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	^BB	0.130	184844	24.784	25.290

03221271

Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

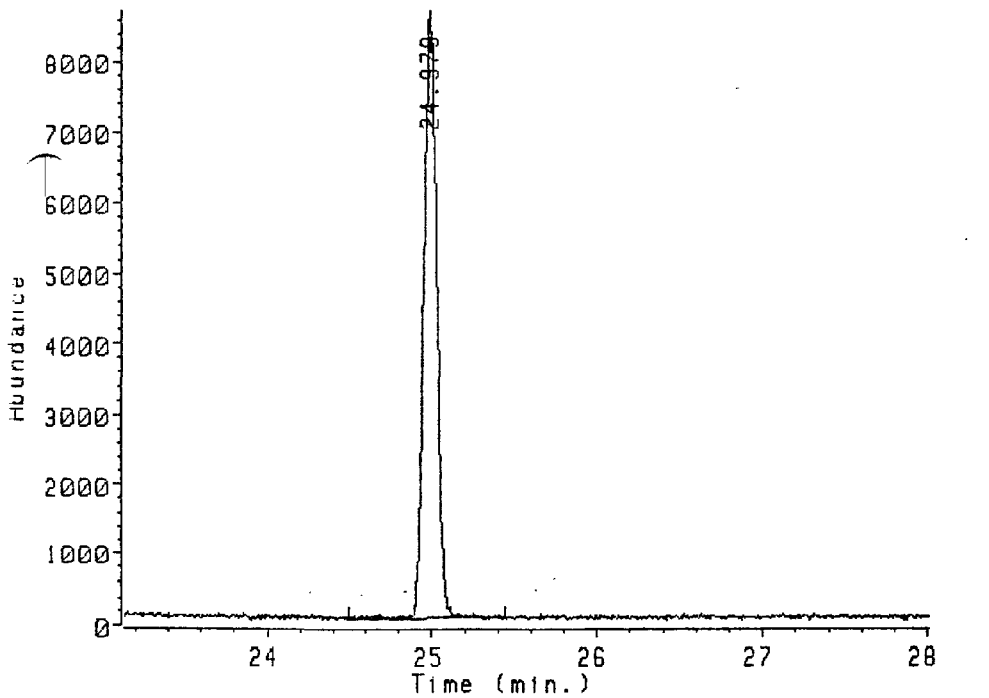
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 67 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

021056

Ion 319.90 amu. from DATA:NCALA02C.D



on 319.90 amu. from DATA:NCALA02C.D
LP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.149	465248	24.497	25.435

03221272

↑
Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

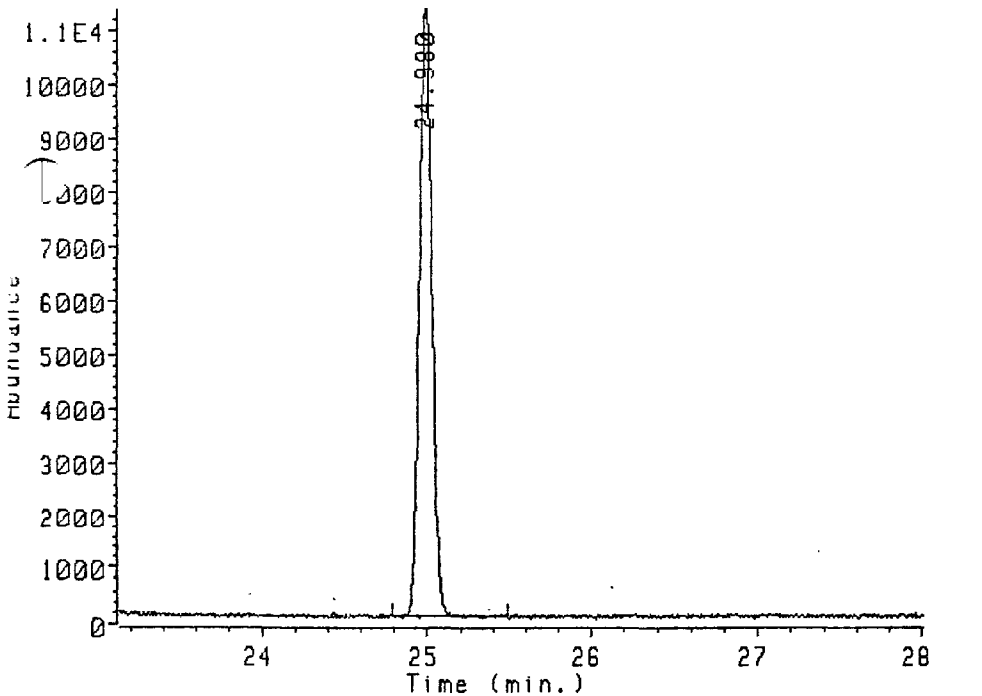
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

021057

Ion 321.90 amu. - from DATA:NCALA02C.D



Ion 321.90 amu. from DATA:NCALA02C.D
_P CALIBRATION SOLN II

el. #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.149	597732	24.784	25.483

03221273

Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

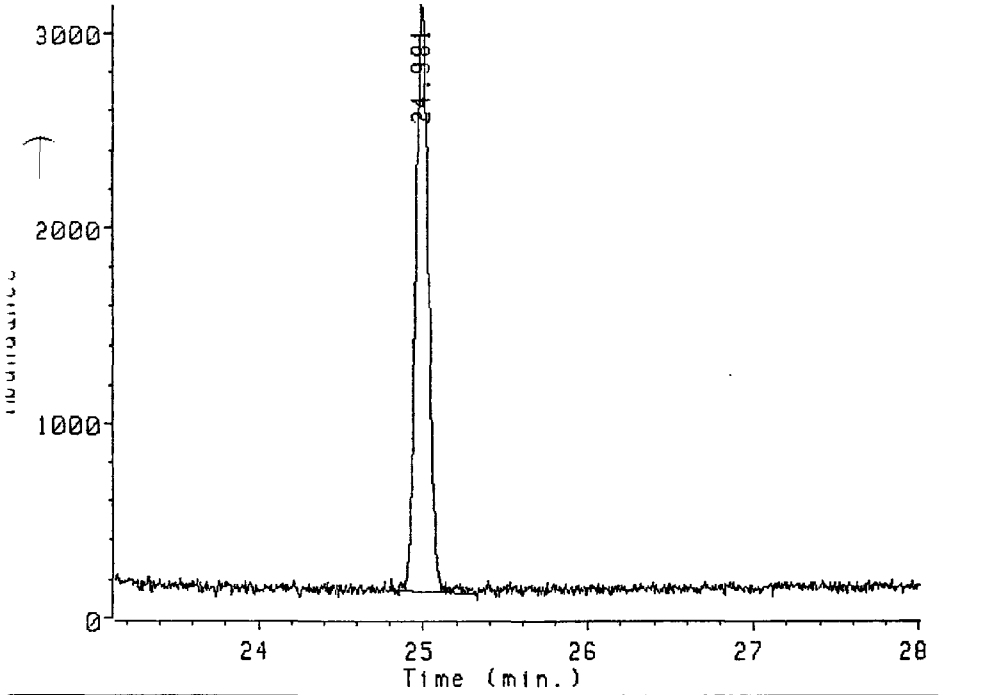
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

021050

Ion 327.90 amu. from DATA:NCALA02C.D



Ion 327.90 amu. from DATA:NCALA02C.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.981	BU	0.135	158244	24.808	25.314

Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

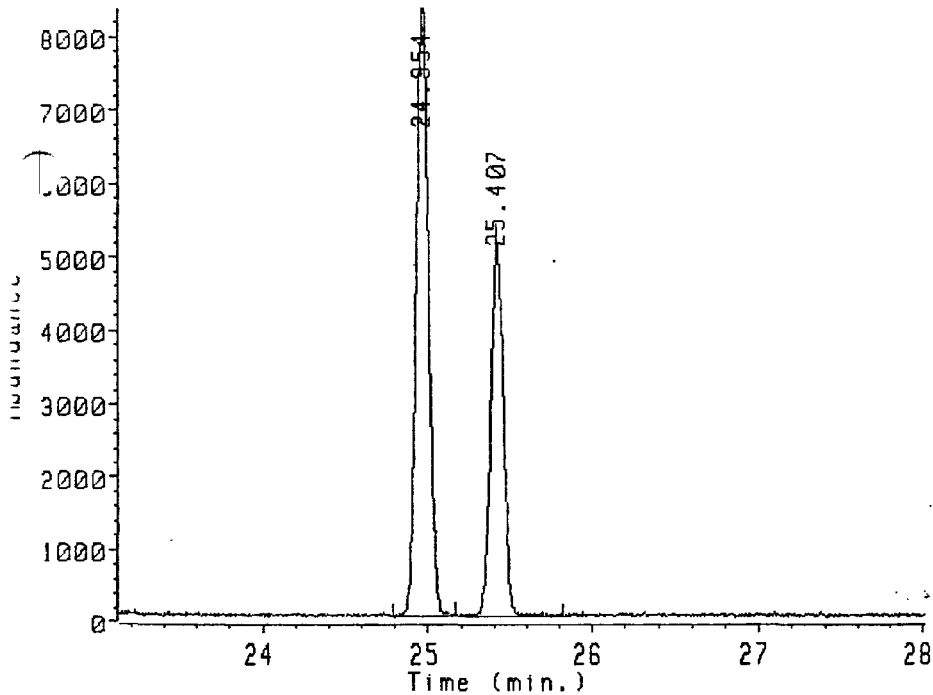
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

021059

Ion 331.80 amu. from DATA:NCALA02C.D



Ion 331.80 amu. from DATA:NCALA02C.D
CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.954	BV	0.144	436747	24.784	25.170
2	25.407	VB	0.152	270270	25.170	25.821

03221275

Data file: DATA:NCALA02C.D
File type: GC / MS DATA FILE

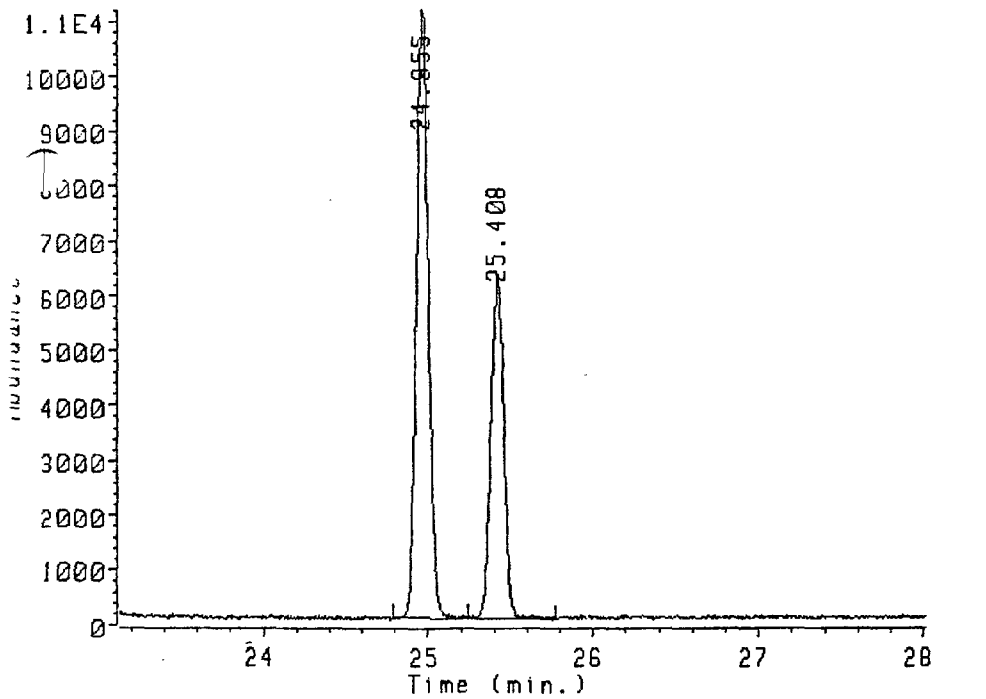
Name Info: CLP CALIBRATION SOLN II
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 2:50 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 2
Replicate num : 3

021060

Ion 333.80 amu. from DATA:NCALA02C.D



Ion 333.80 amu. from DATA:NCALA02C.D

CLP CALIBRATION SOLN II

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.955	UB	0.145	557568	24.784	25.242
2	25.408	UB	0.137	328103	25.242	25.773

03221276

↑
Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

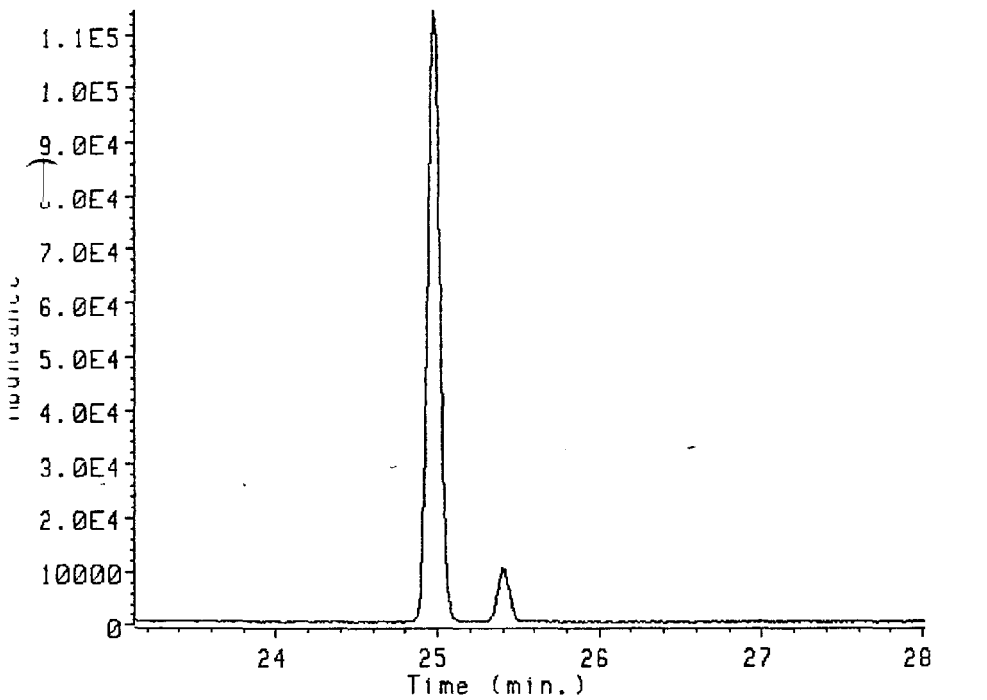
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
ALS bottle num : 3
Replicate num : 1

021061

TIC of DATA:NCALA03A.D



Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

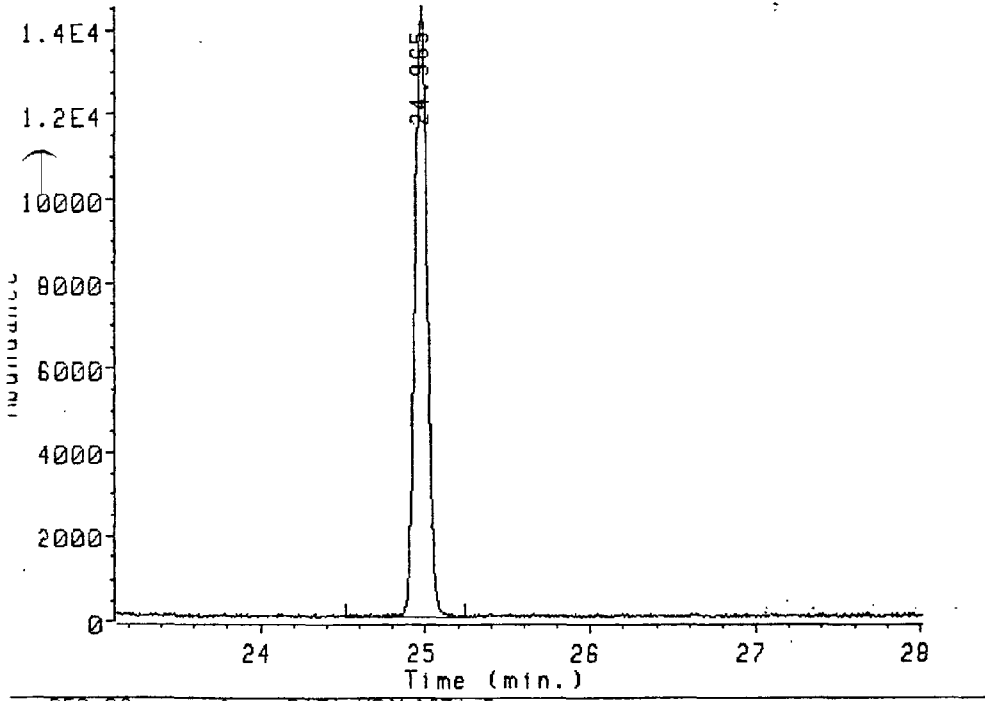
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1

021062

Ion 258.90 amu. from DATA:NCALA03A.D



on 258.90 amu. from DATA:NCALA03A.D
P CALIBRATION SOLN III

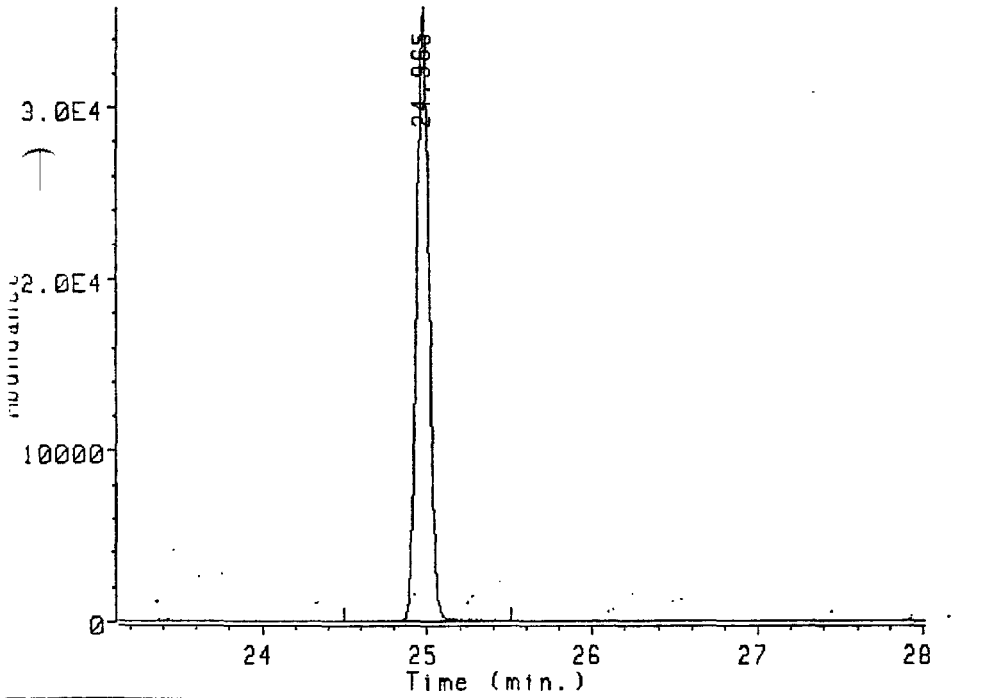
Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.965	BU	0.090	761126	24.519	25.242

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE
 Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

Ion 319.90 amu. from DATA:NCALA03A.D



on 319.90 amu. from DATA:NCALA03A.D
LP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.965	BB	0.090	1874520	24.497	25.508



Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

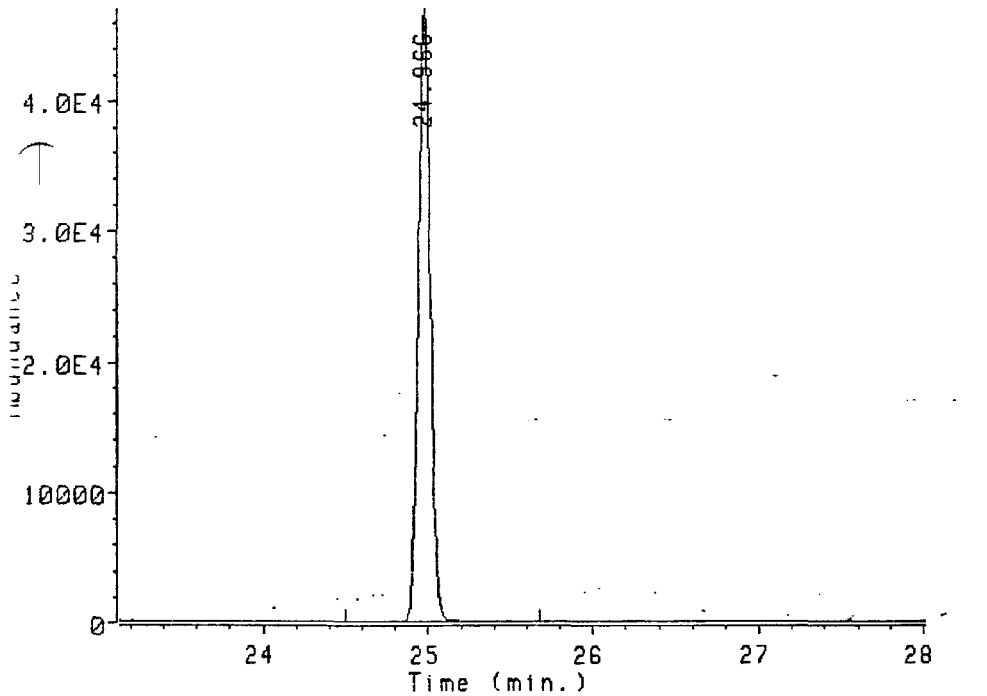
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1

021064

Ion 321.90 amu. from DATA:NCALA03A.D



on 321.90 amu. from DATA:NCALA03A.D
LP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.966	BB	0.154	2435132	24.497	25.677

Data file: DATA:NCALA03A.D
 File type: GC / MS DATA FILE

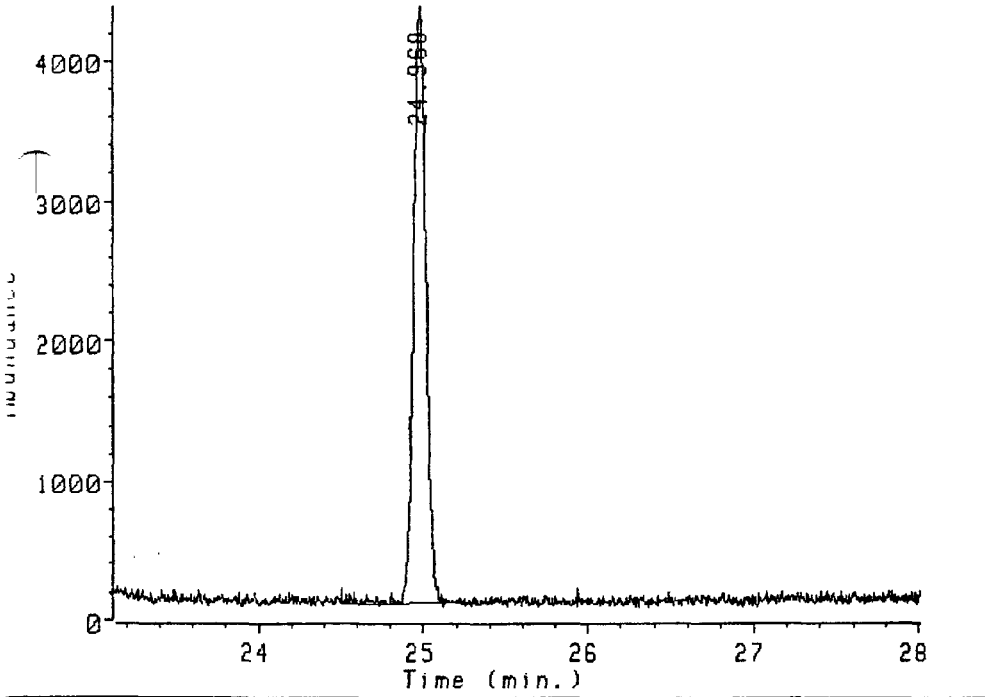
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 1

021065

Ion 327.90 amu. from DATA:NCALA03A.D



on 327.90 amu. from DATA:NCALA03A.D
 LP CALIBRATION SOLN III

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.968	BB	0.140	225524	24.507	25.315

Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

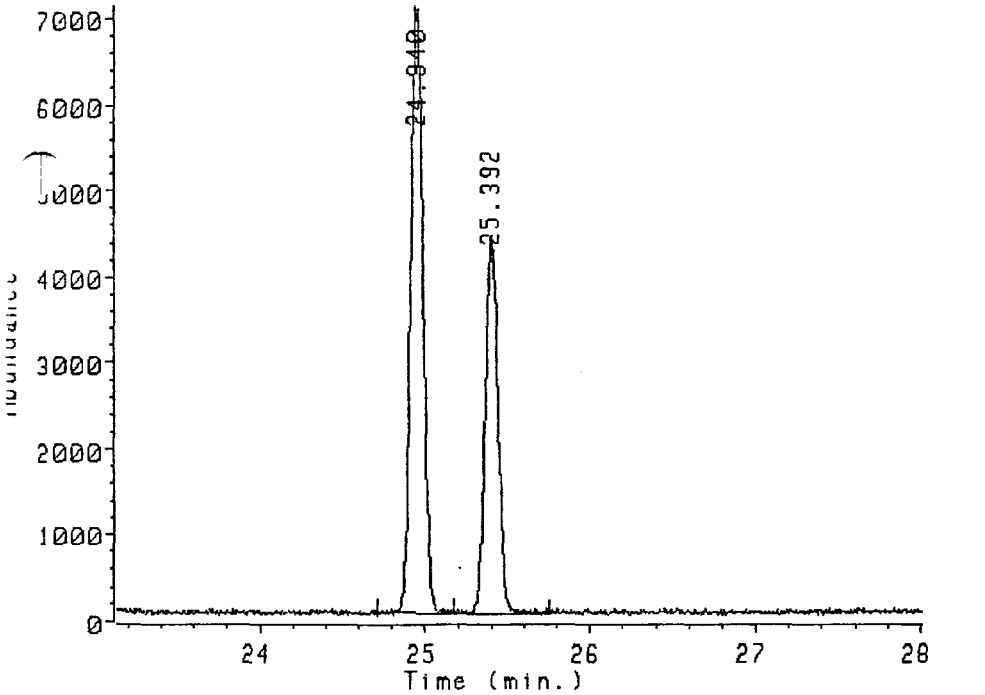
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1

021066

Ion 331.80 amu. from DATA:NCALA03A.D



Ion 331.80 amu. from DATA:NCALA03A.D
CLP CALIBRATION SOLN III

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.940	BV	0.087	365137	24.712	25.177
2	25.392	VB	0.128	228821	25.177	25.749



Data file: DATA:NCALA03A.D
File type: GC / MS DATA FILE

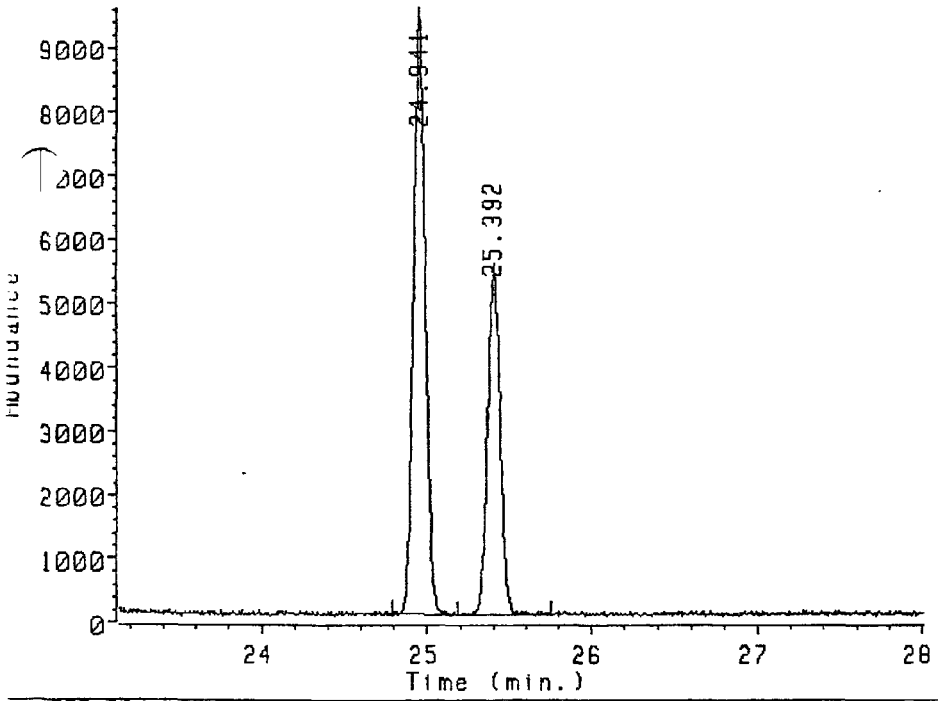
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:22 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 1

021067

Ion 333.80 amu. from DATA:NCALA03A.D



on 333.80 amu. from DATA:NCALA03A.D
LP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.941	BU	0.155	460954	24.784	25.185
2	25.392	PB	0.131	280484	25.185	25.749

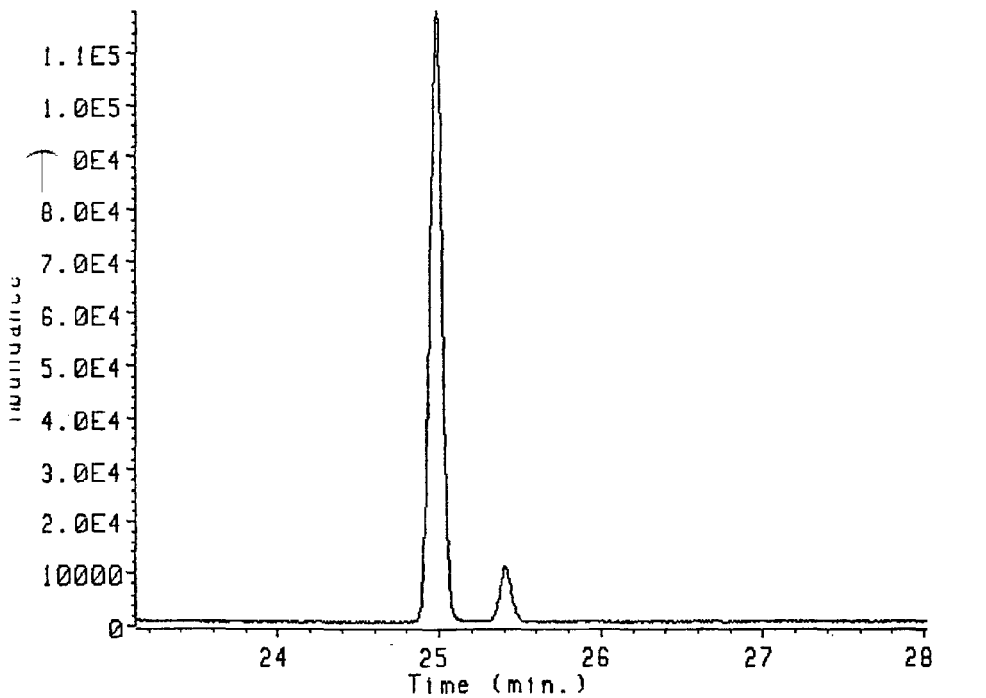
↑
Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : .2

TIC of DATA:NCALA03B.D



021069

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

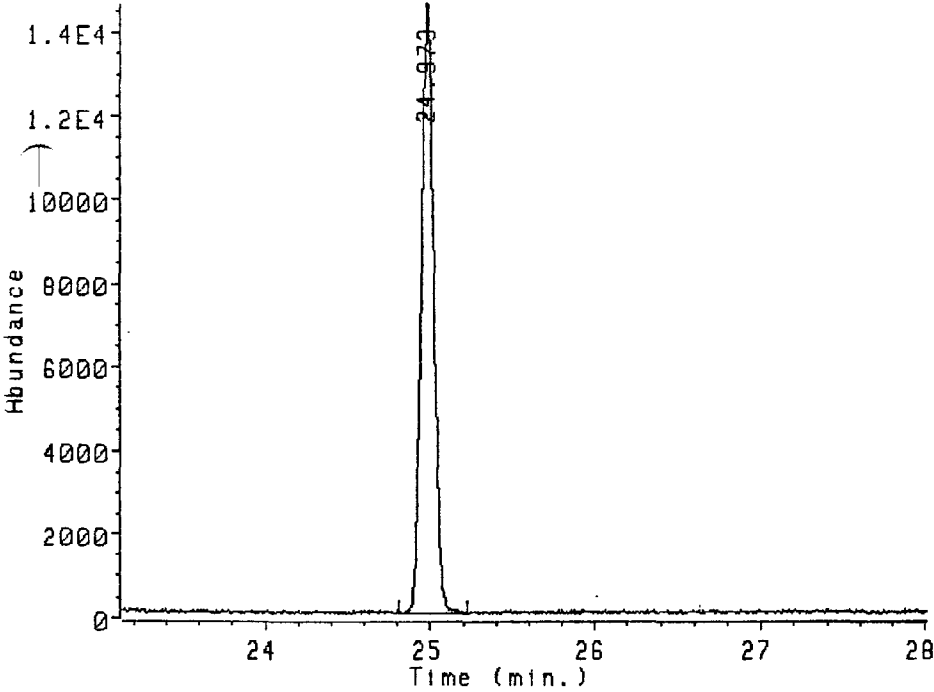
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

021060

Ion 258.90 amu. from DATA:NCALA03B.D



on 258.90 amu. from DATA:NCALA03B.D
LP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.157	767960	24.808	25.225

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

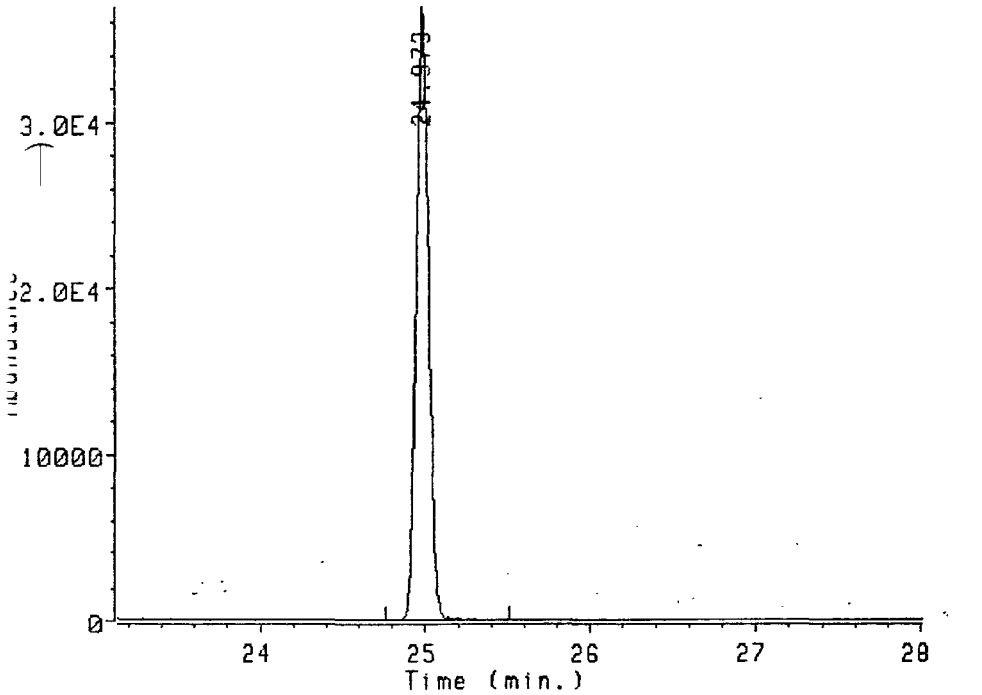
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

021070

Ion 319.90 amu. from DATA:NCALA03B.D



Ion 319.90 amu. from DATA:NCALA03B.D
CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.141	1930166	24.760	25.508

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

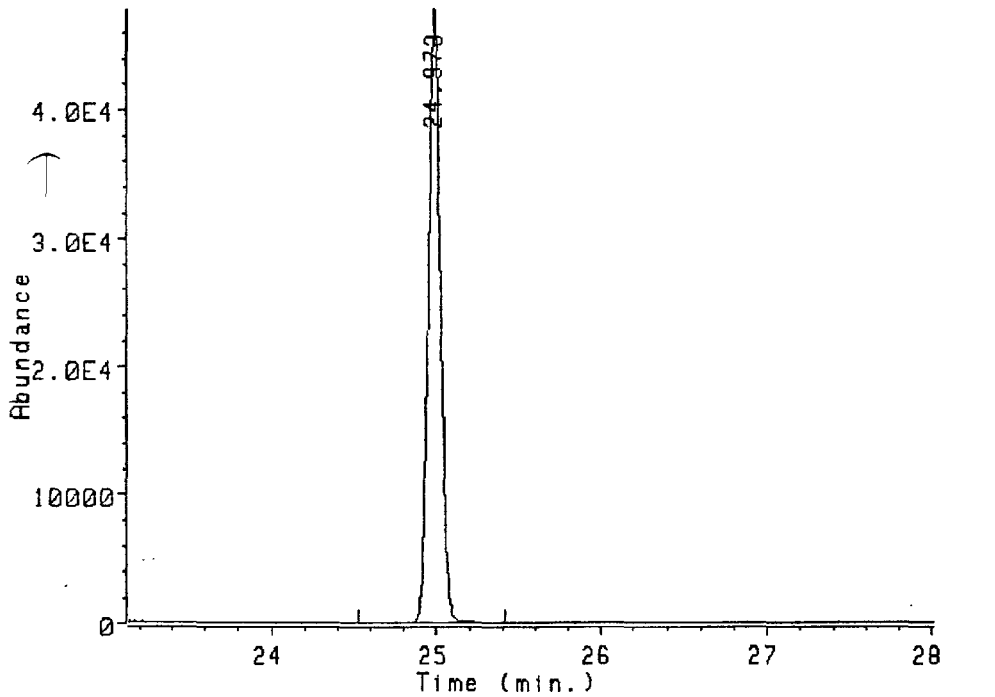
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

021071

Ion 321.90 amu. from DATA:NCALA03B.D



Ion 321.90 amu. from DATA:NCALA03B.D
CLP CALIBRATION SOLN III

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.973	BB	0.143	2487907	24.524	25.411

ta file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

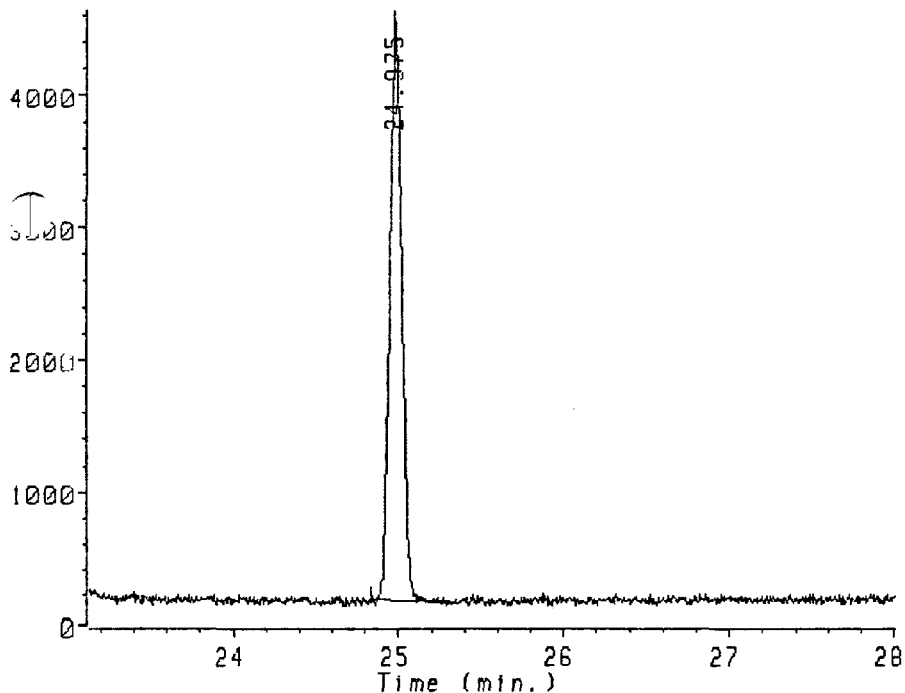
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2

021072

Ion 327.90 amu. from DATA:NCALA03B.D



on 327.90 amu. from DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.975	BB	0.143	225238	24.832	25.315

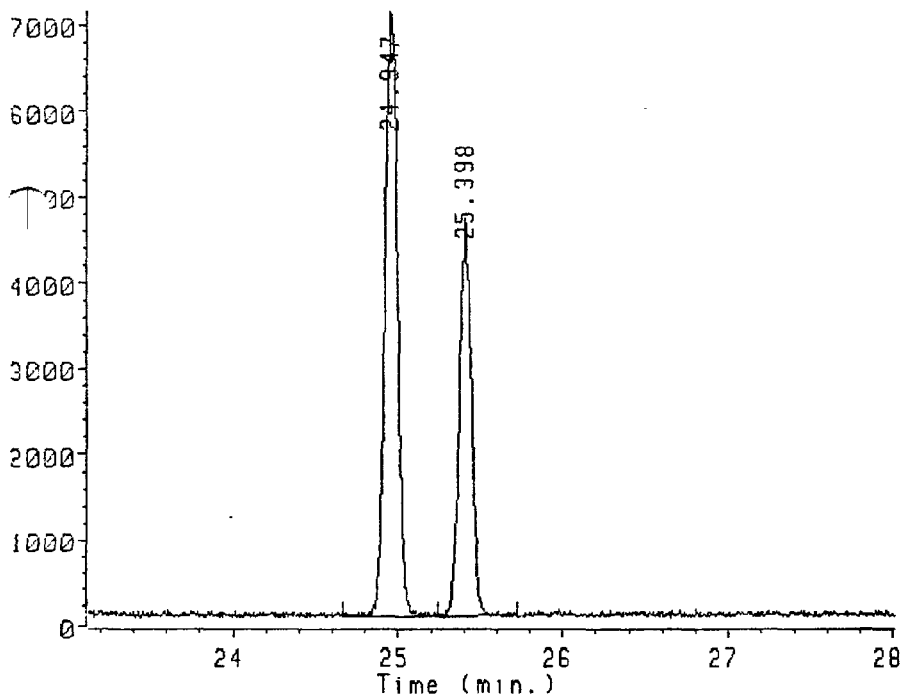
Data file: DATA:NCALA03B.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 2

Ion 331.80 amu. from DATA:NCALA03B.D



Ion 331.80 amu. from DATA:NCALA03B.D
 CLP CALIBRATION SOLN III

Ret Time	Type	Width	Area	Start Time	End Time
24.947	BV	0.147	377126	24.663	25.242
25.398	VB	0.086	230121	25.242	25.725

021073

Data file: DATA:NCALA03B.D
File type: GC / MS DATA FILE

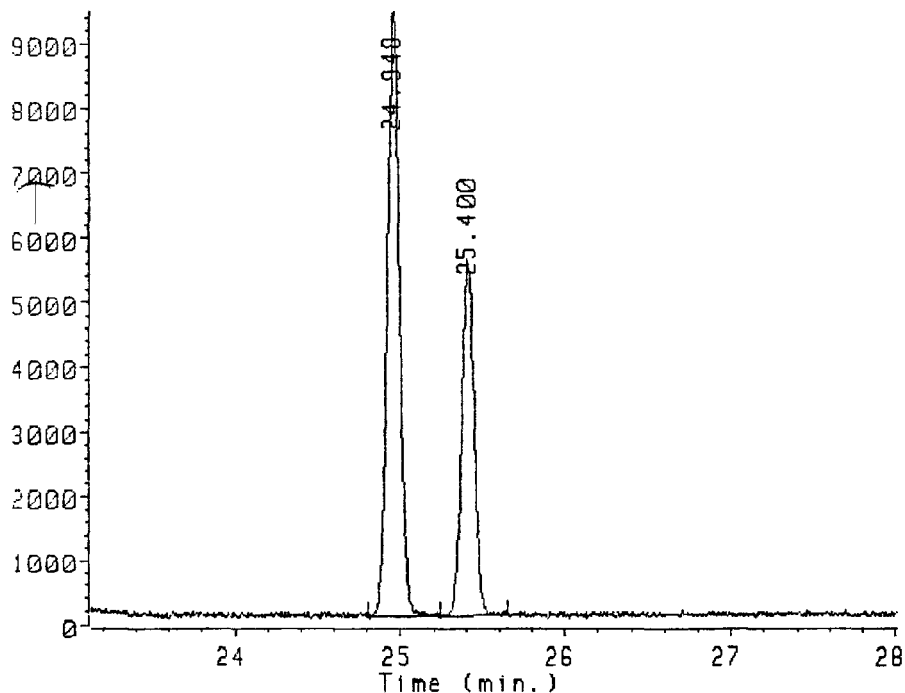
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 3:54 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 2

021074

Ion 333.80 amu. from DATA:NCALA03B.D



n 333.80 amu. from DATA:NCALA03B.D
P CALIBRATION SOLN III

a:	Ret Time	Type	Width	Area	Start Time	End Time
1	24.948	BU	0.147	477220	24.808	25.242
2	25.400	PB	0.137	283684	25.242	25.652

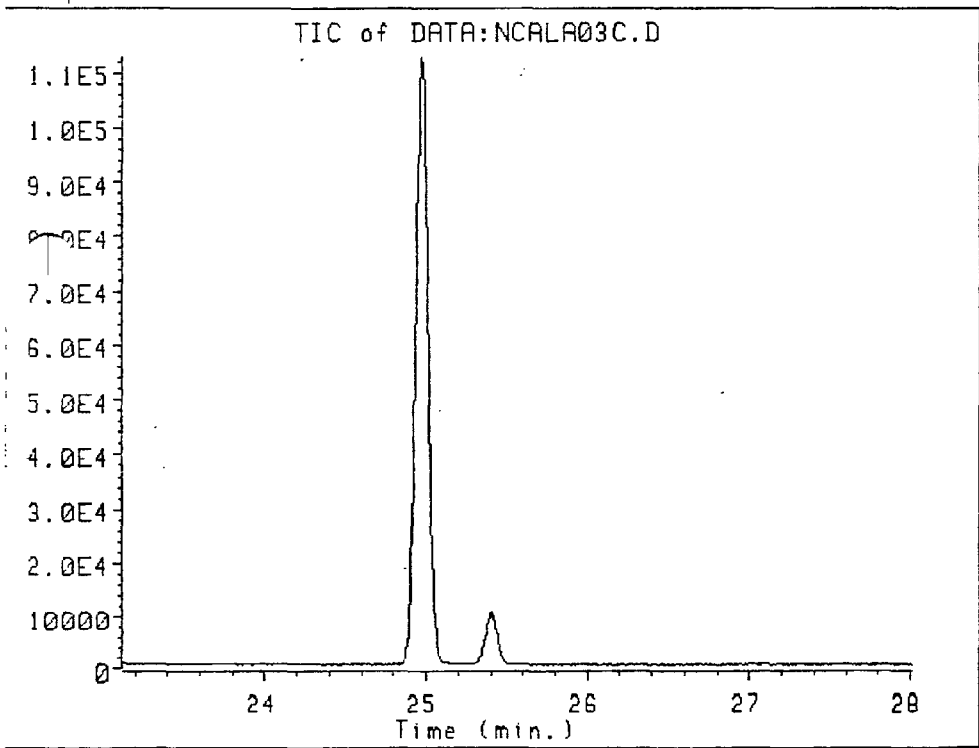
03221290

Data file: DATA:NCALA03C.D
File type: GC / MS DATA FILE
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 3

021075



Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

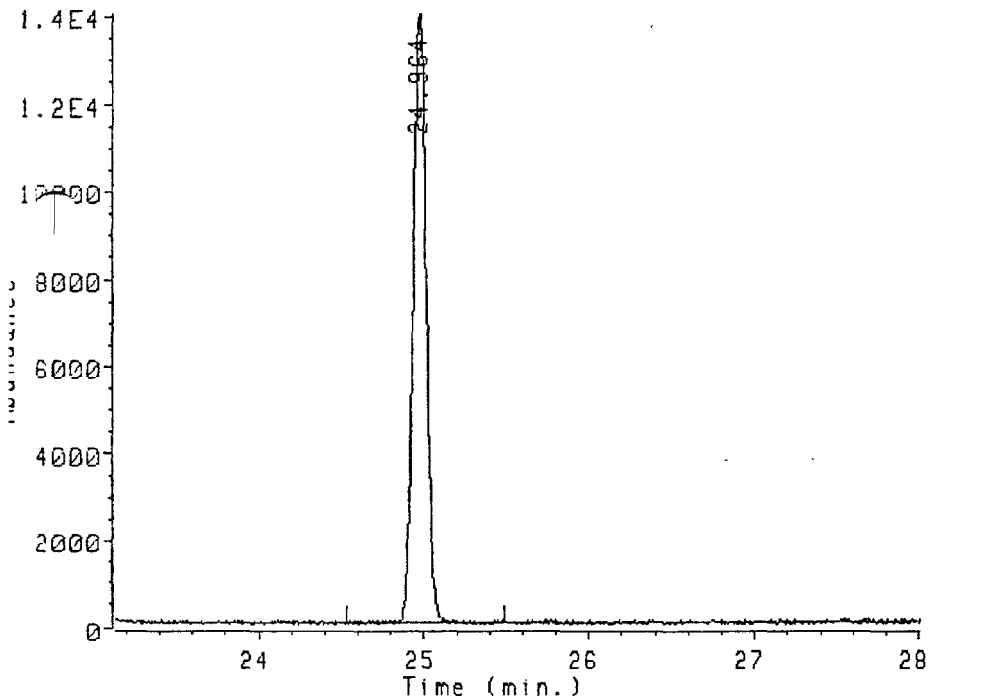
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

021076

Ion 258.90 amu. from DATA:NCALA03C.D



Ion 258.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Ret Time	Type	Width	Area	Start Time	End Time
24.964	BB	0.090	748534	24.531	25.484

Uta file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

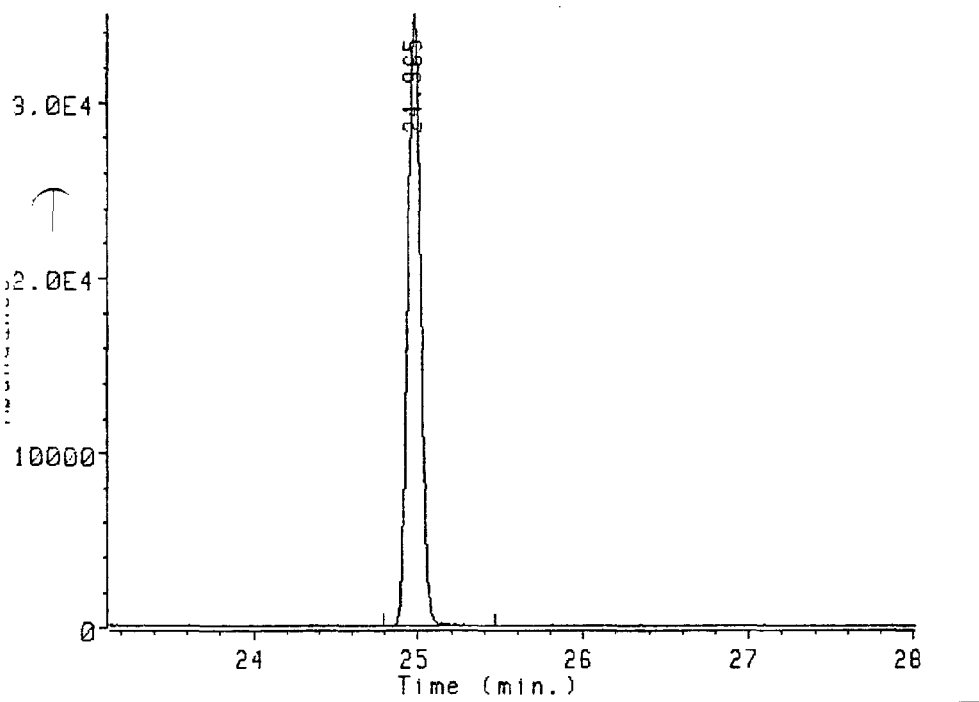
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

021077

Ion 319.90 amu. from DATA:NCALA03C.D



Ion 319.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Ret Time	Type	Width	Area	Start Time	End Time
24.965	BB	0.091	1860633	24.784	25.460

Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE

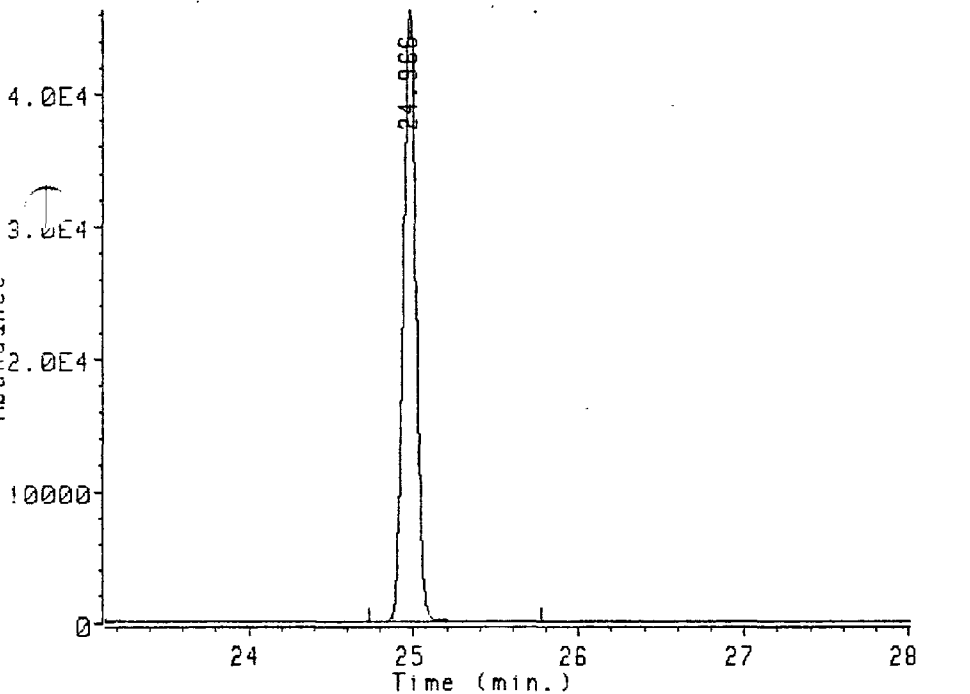
Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

021078

Ion 321.90 amu. from DATA:NCALA03C.D



Ion 321.90 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Ret Time	Type	Width	Area	Start Time	End Time
24.966	BB	0.141	2416488	24.736	25.773

↑
Data file: DATA:NCALA03C.D
File type: GC / MS DATA FILE

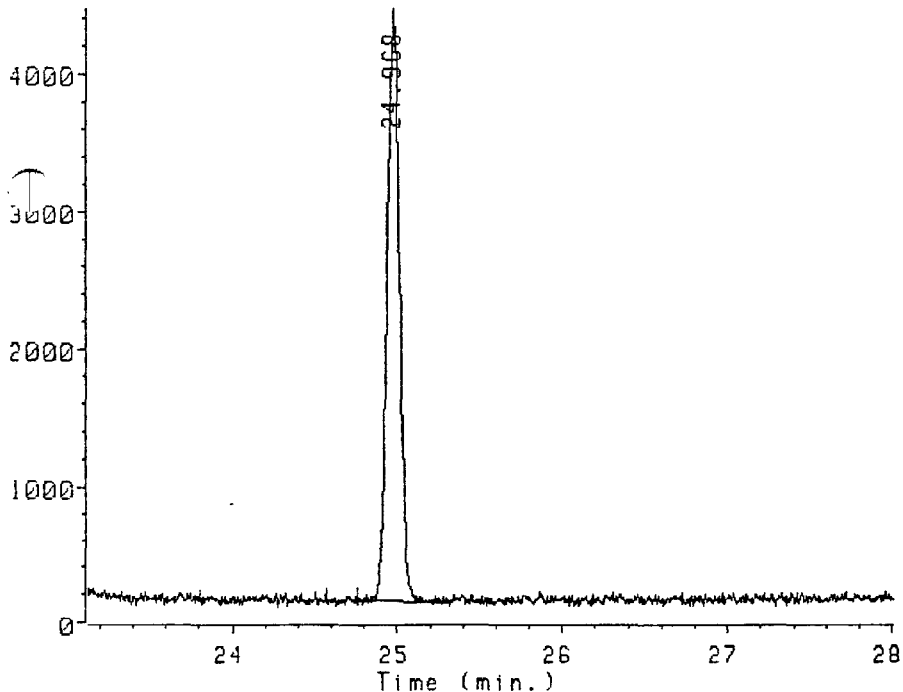
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 3

021079

Ion 327.90 amu. from DATA:NCALA03C.D



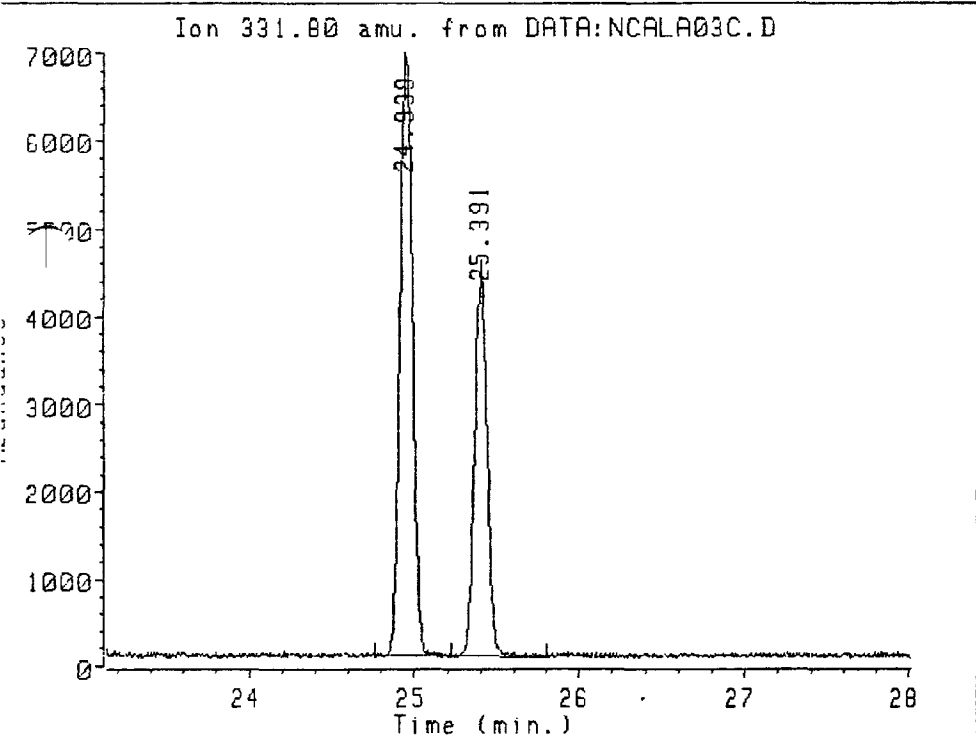
Ion 327.90 amu. from DATA:NCALA03C.D
CLP CALIBRATION SOLN III

↑
1 Ret Time Type Width Area Start Time End Time
24.968 BB 0.152 221614 24.760 25.315

Data file: DATA:NCALA03C.D
 File type: GC / MS DATA FILE
 Name Info: CLP CALIBRATION SOLN III
 Misc Info:
 Operator : MS OPERATOR
 Date : 10 Dec 87 4:26 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 3
 Replicate num : 3

021030



Ion 331.80 amu. from DATA:NCALA03C.D
 CLP CALIBRATION SOLN III

Ret Time	Type	Width	Area	Start Time	End Time
24.939	UB	0.087	362437	24.760	25.218
25.391	UB	0.126	226614	25.218	25.797

Data file: DATA:NCALA03C.D
File type: GC / MS DATA FILE

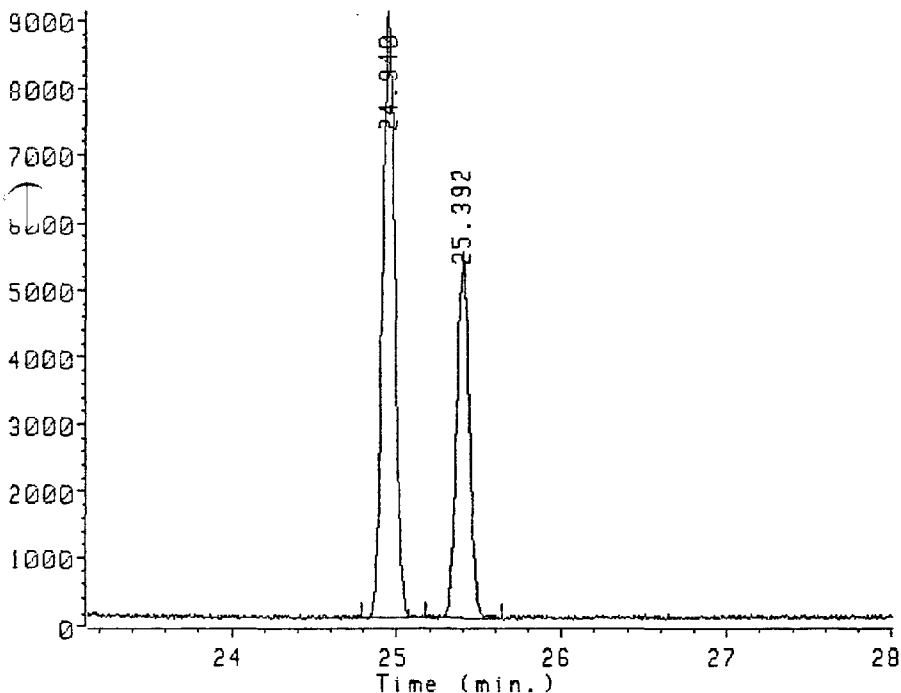
Name Info: CLP CALIBRATION SOLN III
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:26 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 3
Replicate num : 3

021081

Ion 333.80 amu. from DATA:NCALA03C.D



n 333.80 amu. from DATA:NCALA03C.D
P CALIBRATION SOLN III

a	Ret Time	Type	Width	Area	Start Time	End Time
1	24.940	BU	0.087	455495	24.784	25.179
2	25.392	PB	0.124	279459	25.179	25.638

71

3 1934

↑
Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

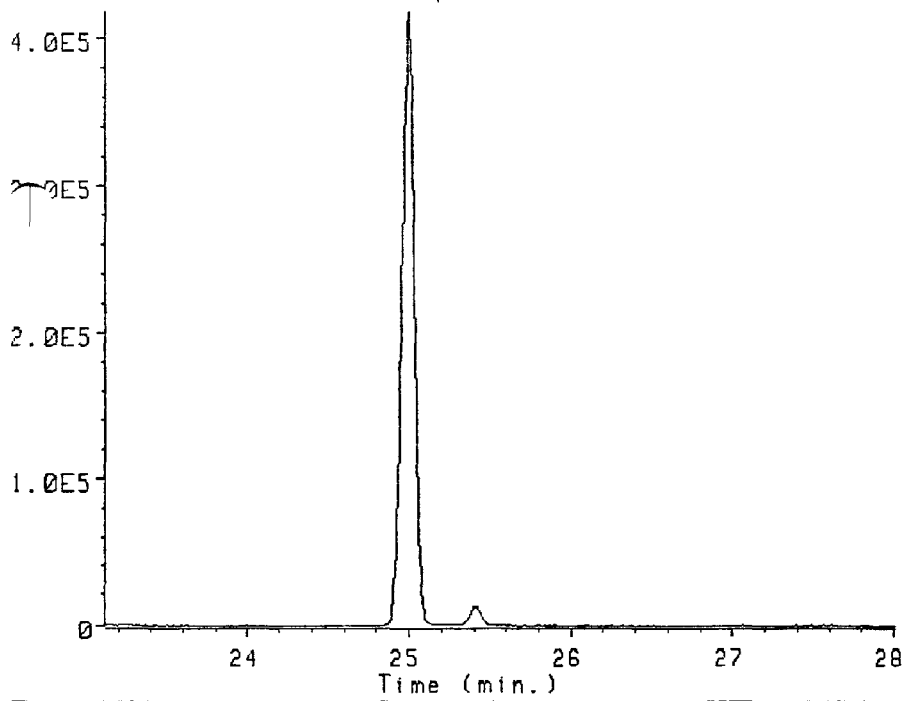
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

021082

TIC of DATA:NCALA04A.D



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03221298

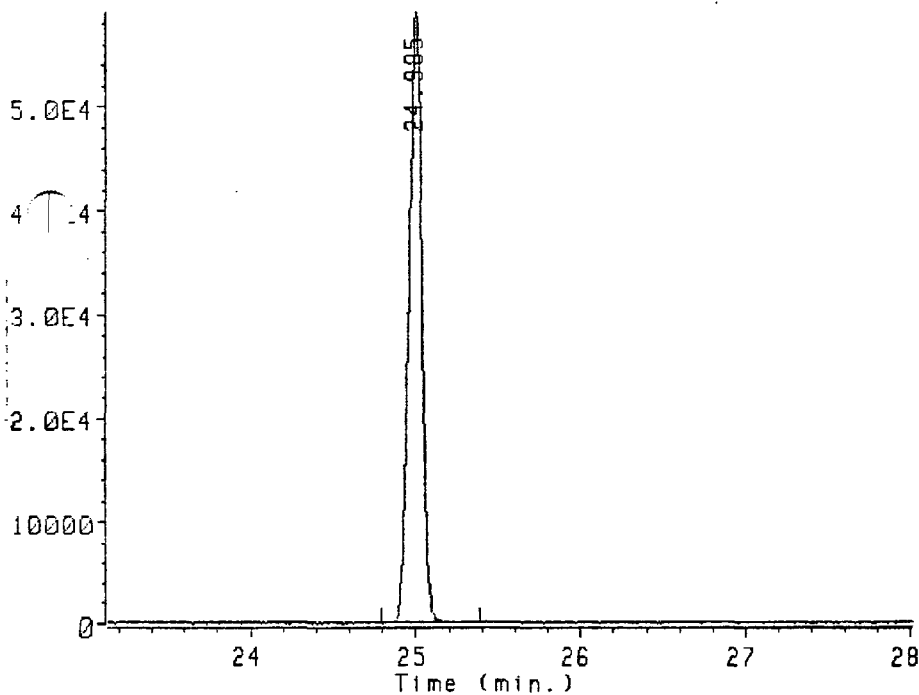
Data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

Ion 258.90 amu. from DATA:NCALA04A.D



m 258.90 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

Ret Time	Type	Width	Area	Start Time	End Time
24.985	BB	0.090	3186158	24.784	25.387

021033

Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

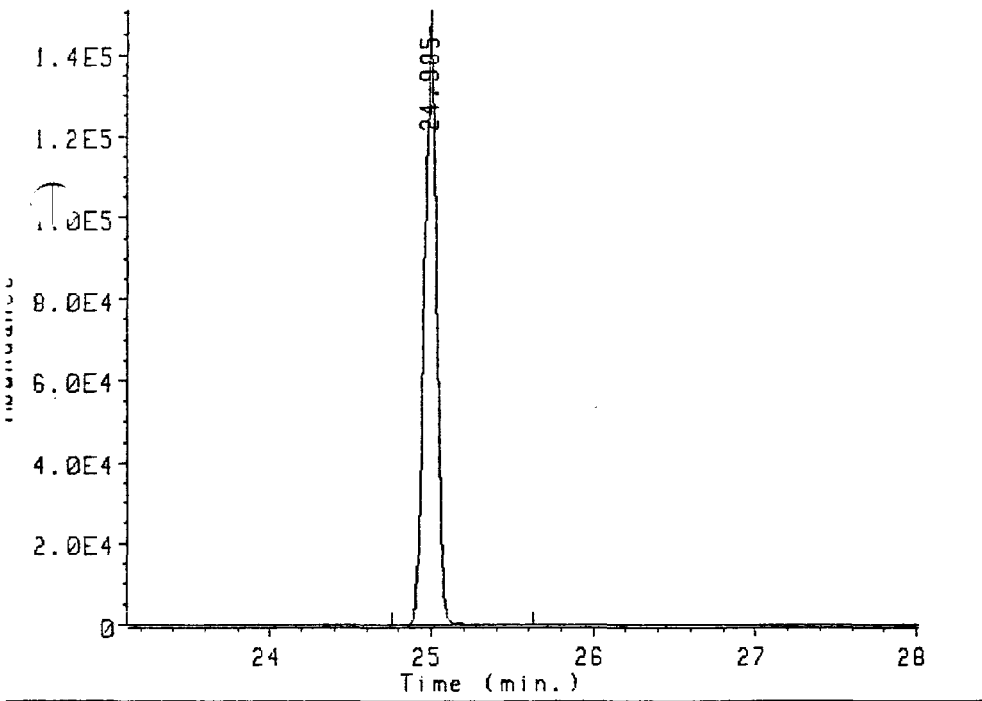
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

021004

Ion 319.90 amu. from DATA:NCALA04A.D



Ion 319.90 amu. from DATA:NCALA04A.D
CLP CALIBRATION SOLN IV

Ret Time	Type	Width	Area	Start Time	End Time
24.985	BB	0.092	7761312	24.760	25.628

3 1937

74
Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

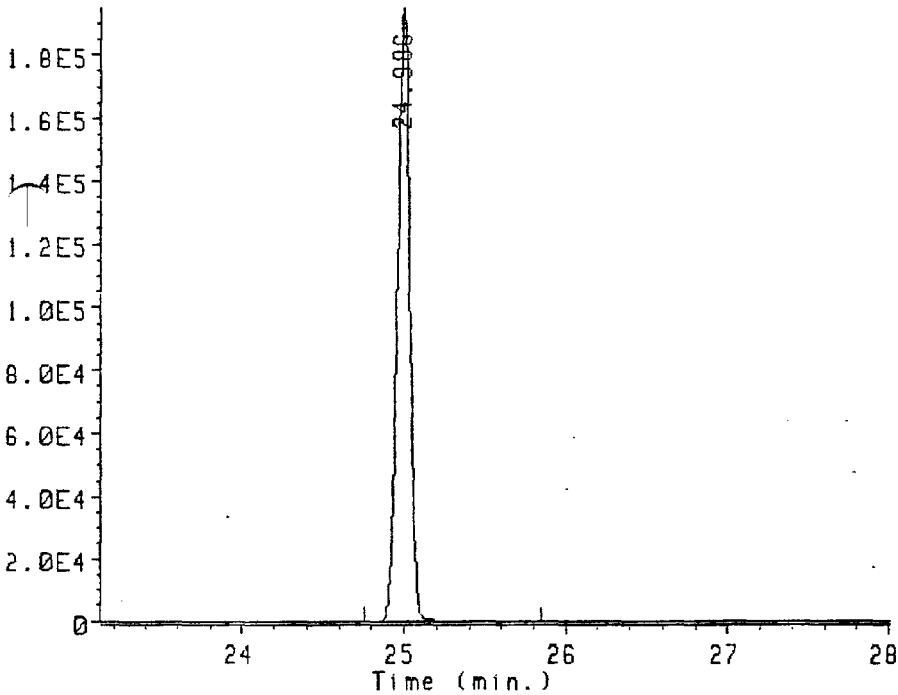
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

021015

Ion 321.90 amu. from DATA:NCALA04A.D



Ion 321.90 amu. from DATA:NCALA04A.D
CLP CALIBRATION SOLN IV

Ret Time	Type	Width	Area	Start Time	End Time
24.986	BB	0.087	10280454	24.760	25.846

03221301

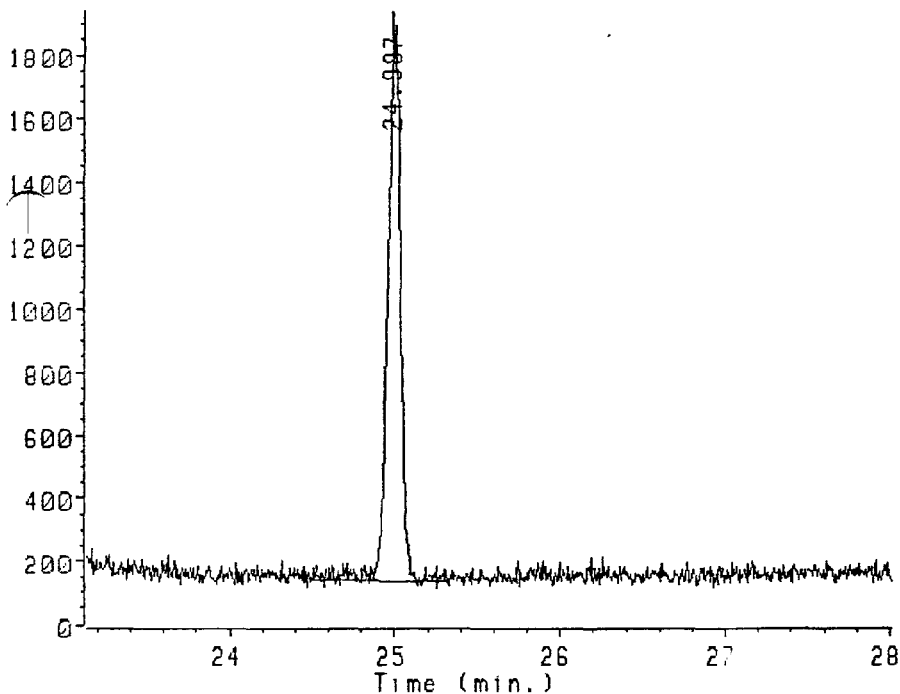
data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

Ion 327.90 amu. from DATA:NCALA04A.D



Ion 327.90 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

Ret Time	Type	Width	Area	Start Time	End Time
24.987	BB	0.091	96269	24.500	25.315

021006

76
Data file: DATA:NCALA04A.D
File type: GC / MS DATA FILE

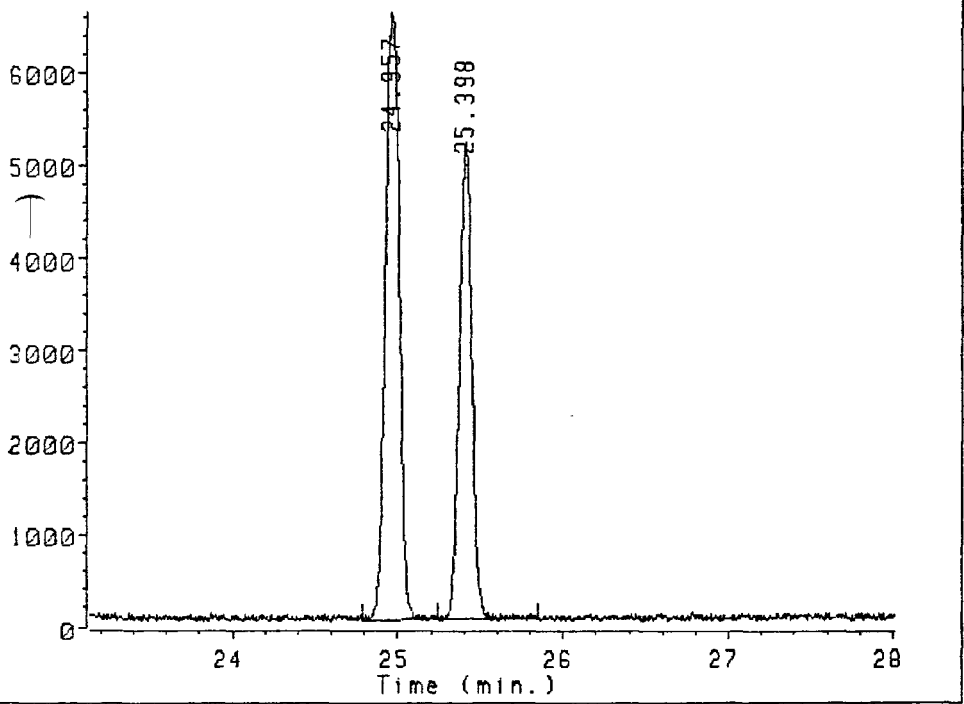
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 1

021027

Ion 331.80 amu. from DATA:NCALA04A.D



Ion 331.80 amu. from DATA:NCALA04A.D
CLP CALIBRATION SOLN IV

Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.957	BU	0.096	381115	24.784	25.239
2	25.398	UB	0.087	266939	25.239	25.846

77.
 Data file: DATA:NCALA04A.D
 File type: GC / MS DATA FILE

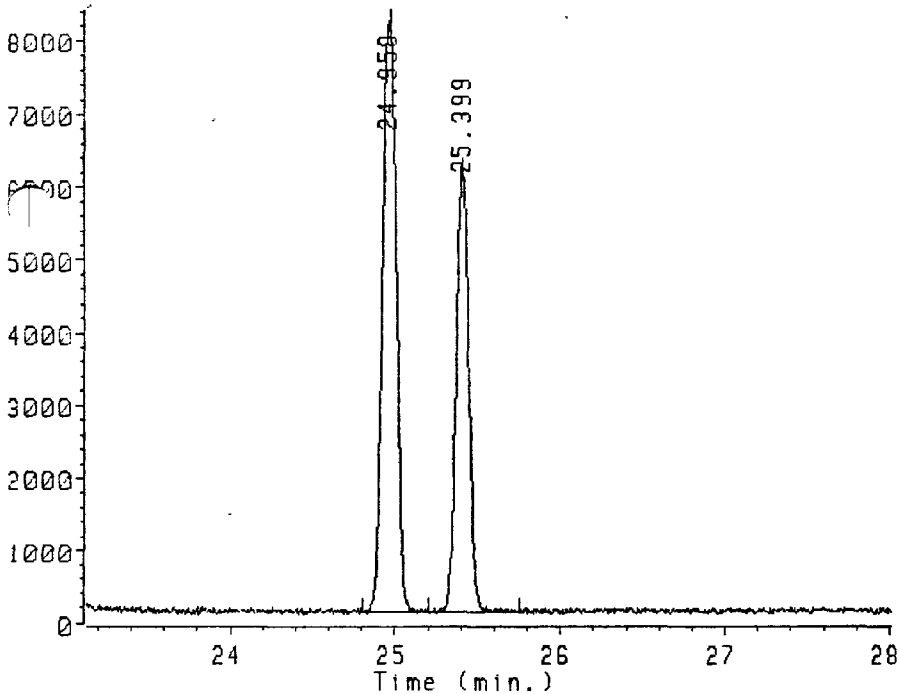
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 4:58 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 1

021000

Ion 333.80 amu. from DATA:NCALA04A.D



Ion 333.80 amu. from DATA:NCALA04A.D
 CLP CALIBRATION SOLN IV

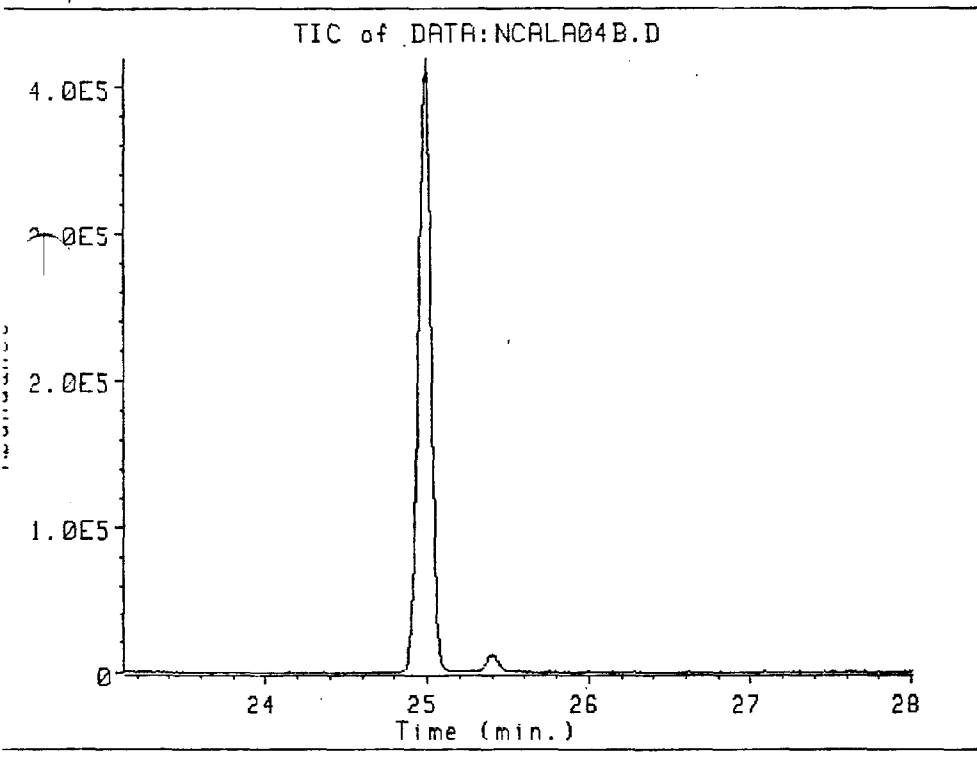
Peak	Ret Time	Type	Width	Area	Start Time	End Time
1	24.958	BU	0.096	473276	24.808	25.208
2	25.399	PB	0.087	322534	25.208	25.749

↑
Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

021089



↑

79

3 1942

┆
Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

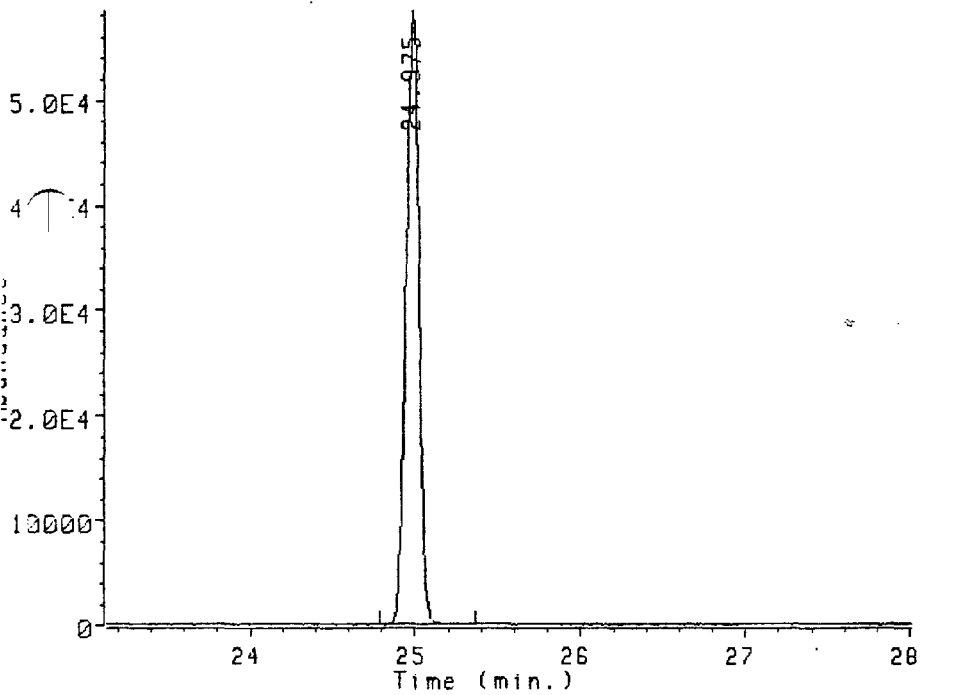
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

021090

Ion 258.90 amu. from DATA:NCALA04B.D



Ion 258.90 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

Ret Time	Type	Width	Area	Start Time	End Time
24.975	BB	0.174	3159515	24.784	25.363

03221306

ta file: DATA:NCALA04B.D
 File type: GC / MS DATA FILE

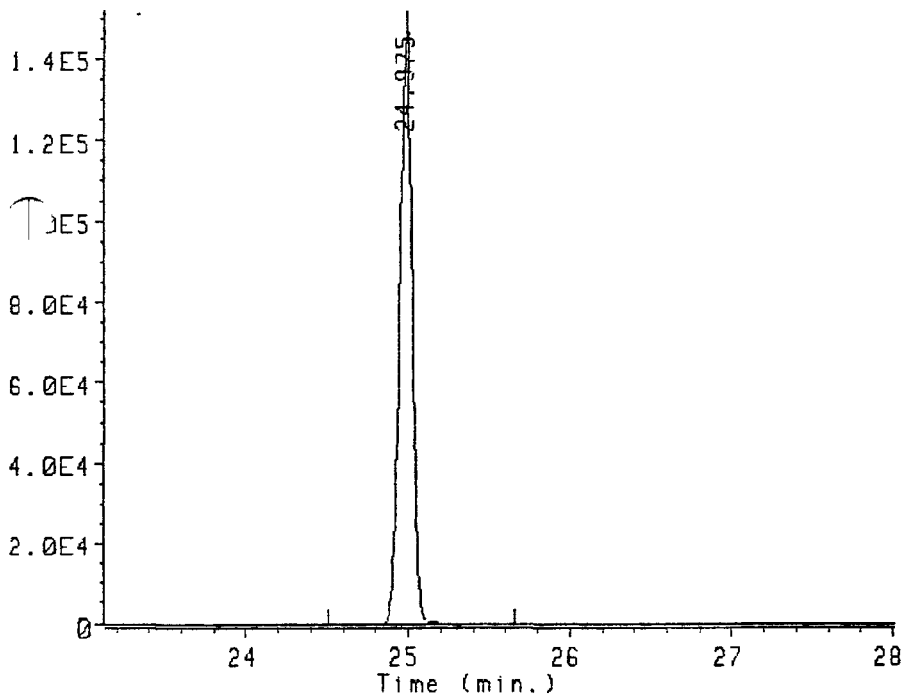
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 2

021091

Ion 319.90 amu. from DATA:NCALA04B.D



Ion 319.90 amu. from DATA:NCALA04B.D
 CLP CALIBRATION SOLN IV

Ret Time	Type	Width	Area	Start Time	End Time
24.975	BB	0.152	7858218	24.506	25.652

03221307

81

3 1944

Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

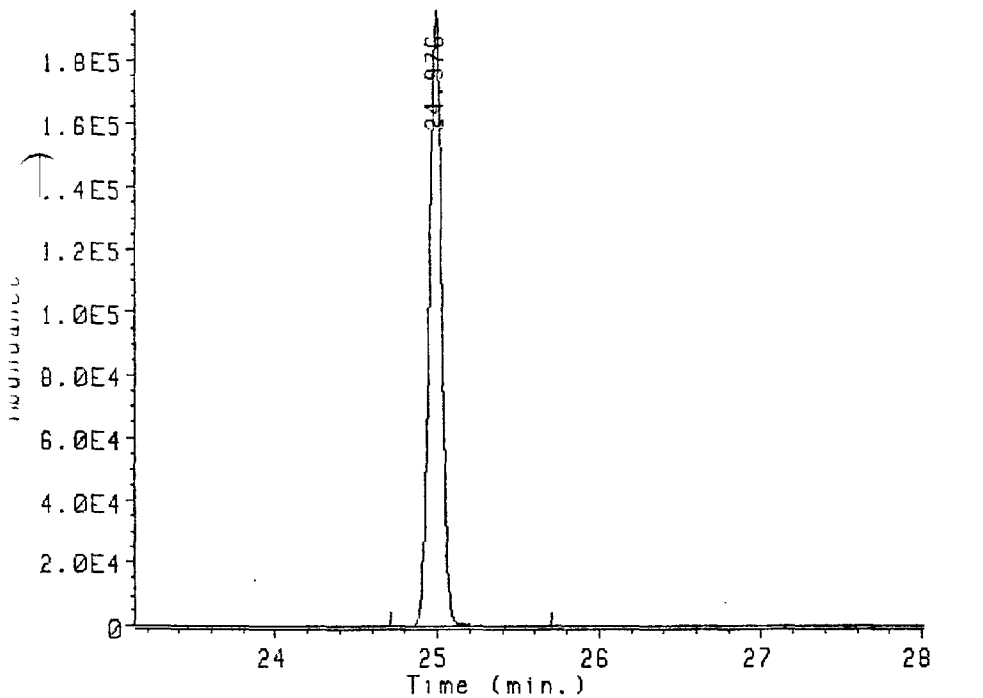
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

021002

Ion 321.90 amu. from DATA:NCALA04B.D



Ion 321.90 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

Scan#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.976	BB	0.161	10355753	24.711	25.700

03221308

Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

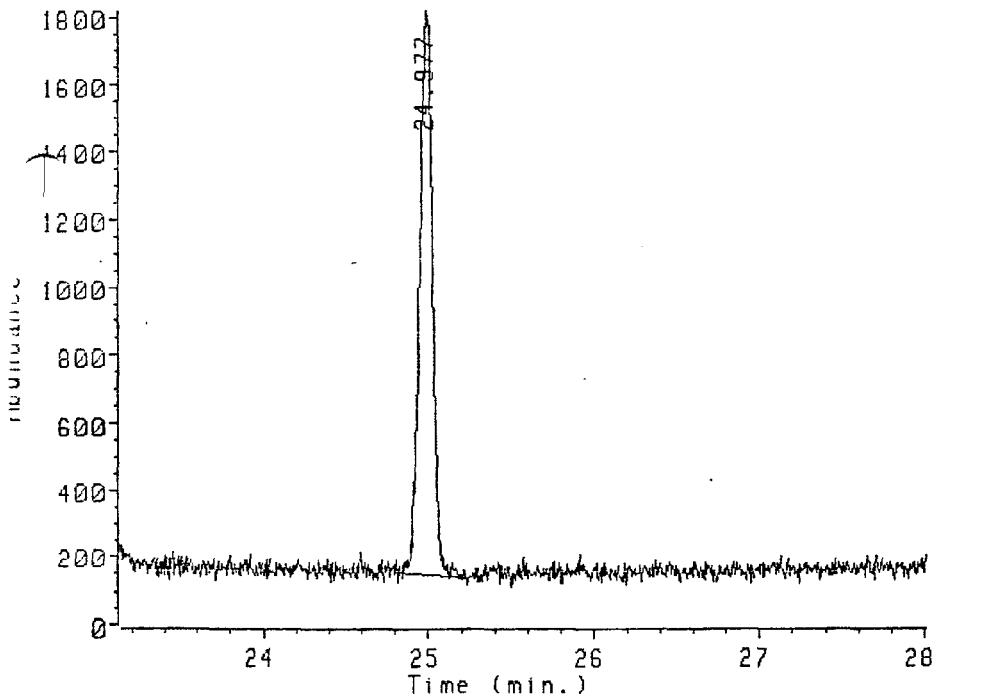
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

021003

Ion 327.90 amu. from DATA:NCALA04B.D



on 327.90 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.977	BB	0.124	91642	24.808	25.228

Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

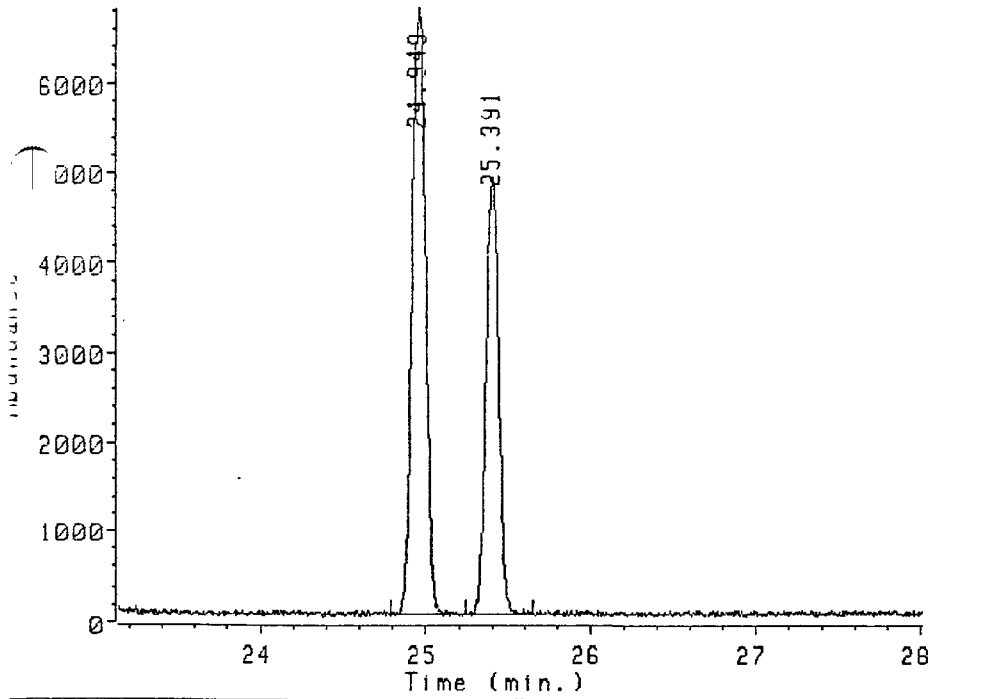
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

021094

Ion 331.80 amu. from DATA:NCALA04B.D



Ion 331.80 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.949	BV	0.137	379549	24.784	25.242
2	25.391	PB	0.131	255513	25.242	25.652

84

3 1947

Data file: DATA:NCALA04B.D
File type: GC / MS DATA FILE

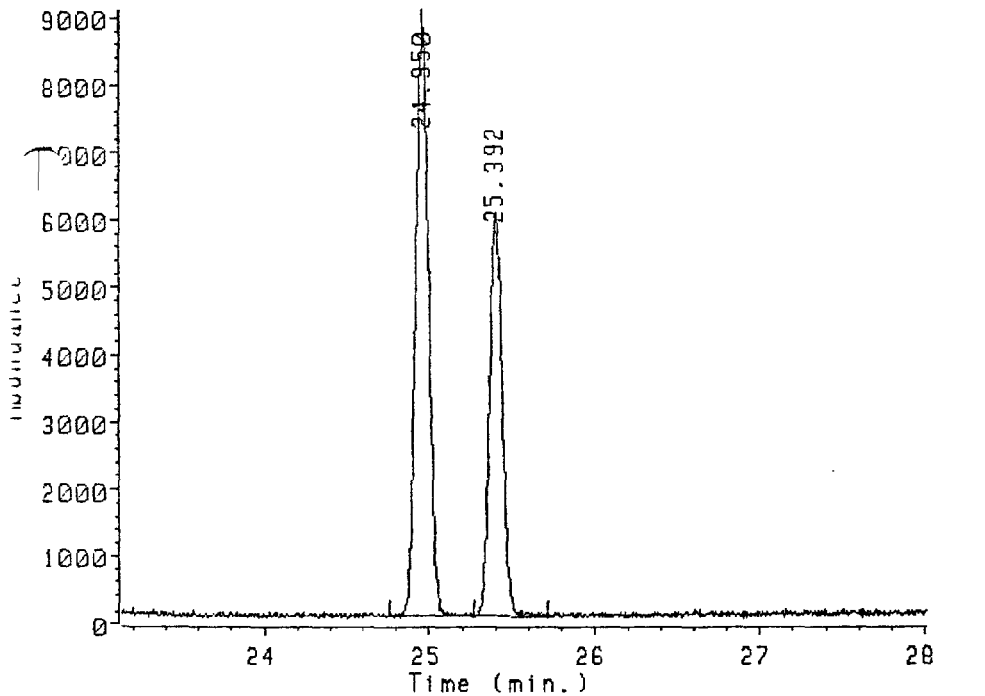
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 5:30 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 2

021095

Ion 333.80 amu. from DATA:NCALA04B.D



Ion 333.80 amu. from DATA:NCALA04B.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.950	BV	0.150	478280	24.760	25.266
2	25.392	PB	0.127	309835	25.266	25.712

03221311

85

3 1948

Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

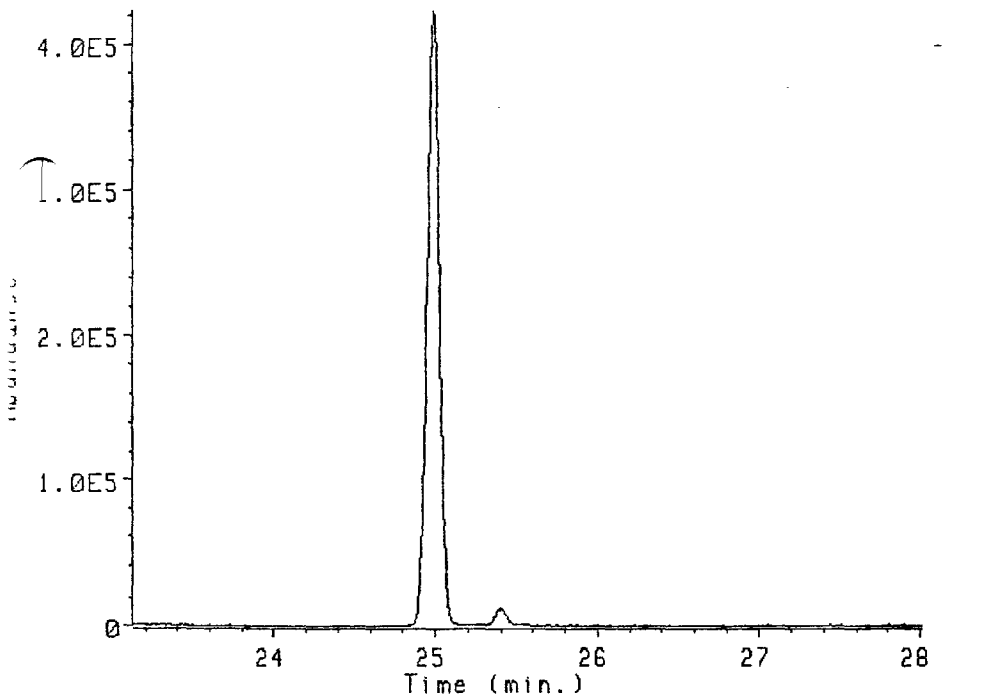
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

021096

TIC of DATA:NCALA04C.D



03221312

86

3 1949

Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

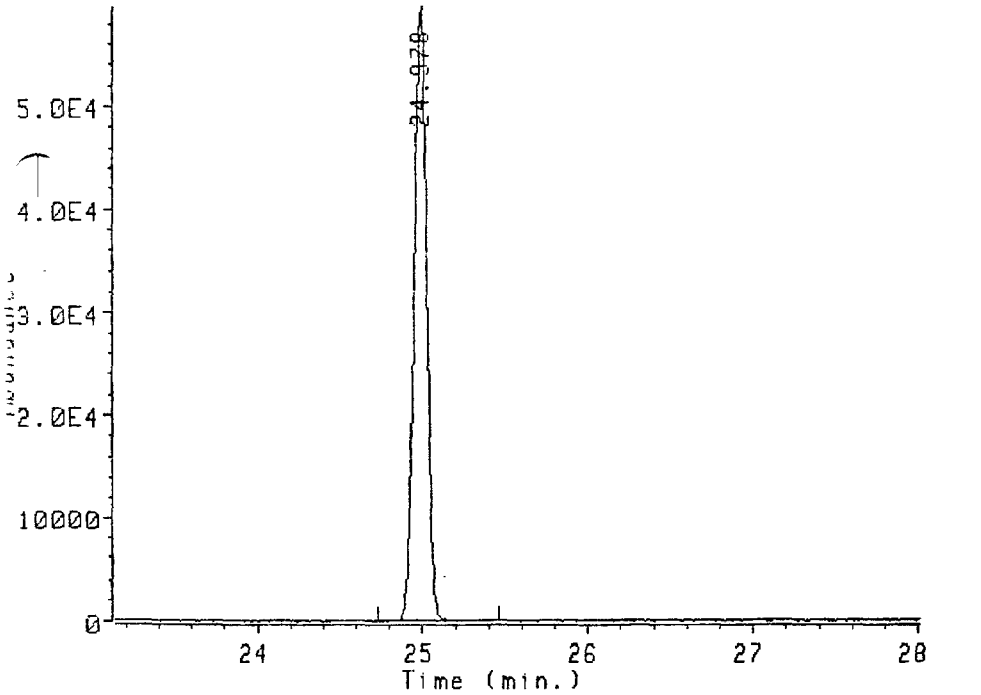
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

021097

Ion 258.90 amu. from DATA:NCALA04C.D



Ion 258.90 amu. from DATA:NCALA04C.D
CLP CALIBRATION SOLN IV

Sol. #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.151	3178940	24.735	25.459

03221313

87

3 1950

Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

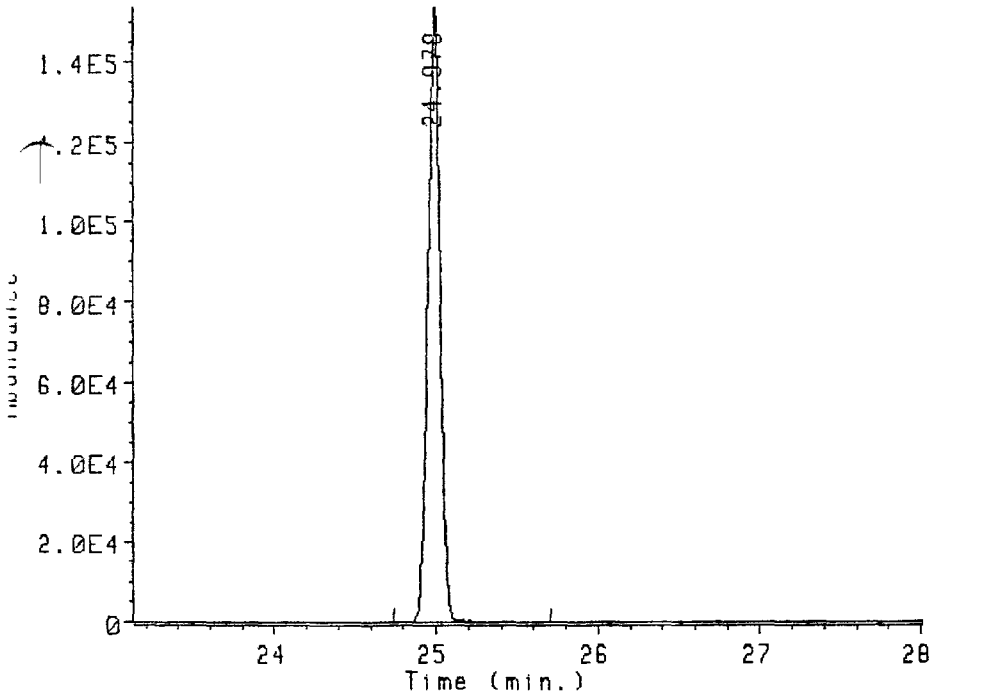
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

021098

Ion 319.90 amu. from DATA:NCALA04C.D



Ion 319.90 amu. from DATA:NCALA04C.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.978	BB	0.171	7911157	24.735	25.700

03221314

Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

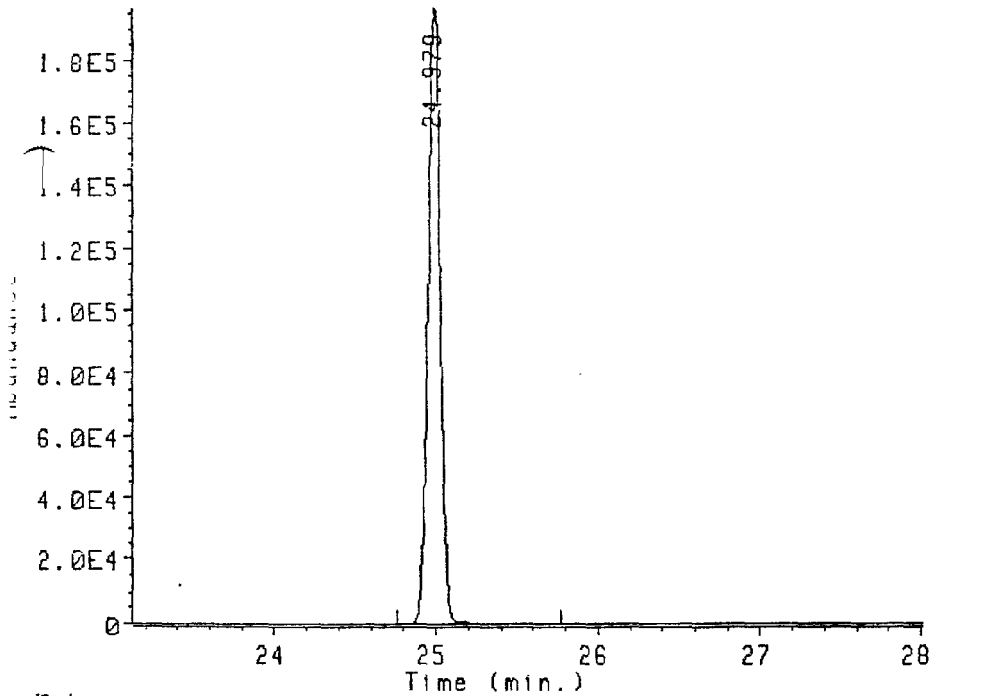
Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

021099

Ion 321.90 amu. from DATA:NCALA04C.D



Ion 321.90 amu. from DATA:NCALA04C.D
CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.979	BB	0.178	10384749	24.760	25.773

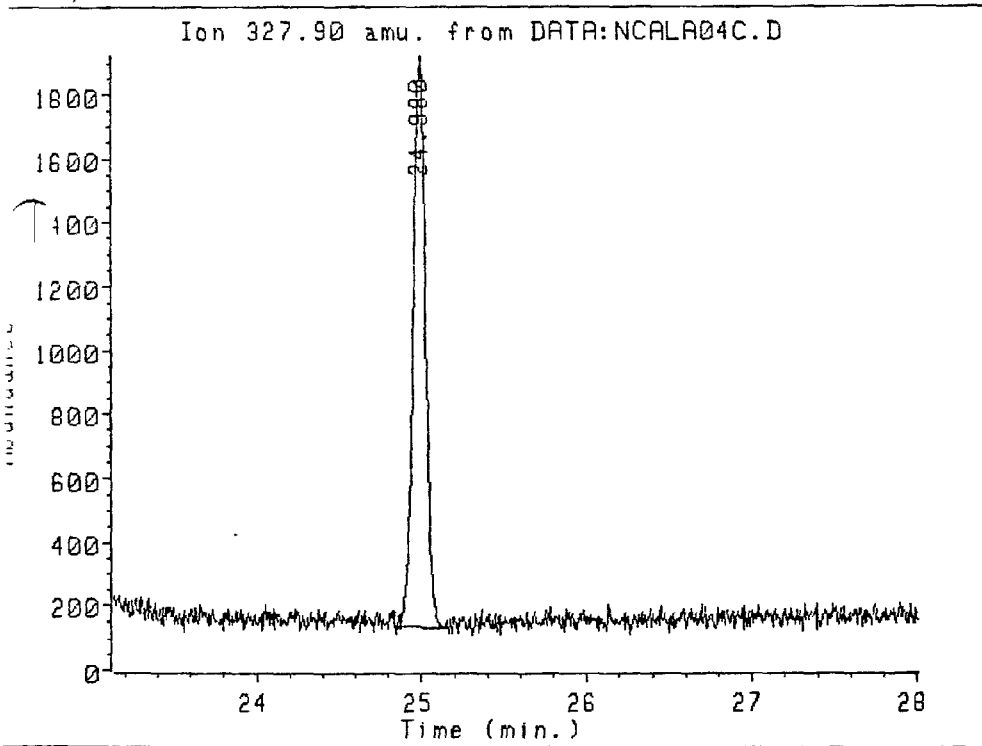
Data file: DATA:NCALA04C.D
File type: GC / MS DATA FILE

Name Info: CLP CALIBRATION SOLN IV
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 1
Als bottle num : 4
Replicate num : 3

021100



Ion 327.90 amu. from DATA:NCALA04C.D
CLP CALIBRATION SOLN IV

Scan#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.980	BB	0.137	94122	24.832	25.170

98

Data File: DATA:NCALA04C.D
 File type: GC / MS DATA FILE

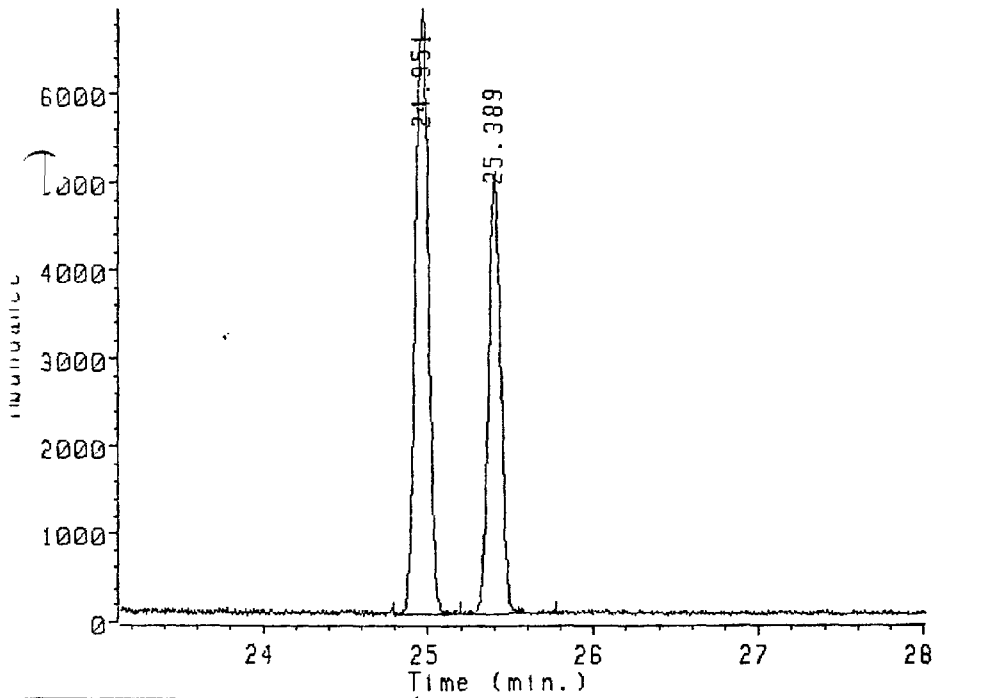
Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

021101

Ion 331.80 amu. from DATA:NCALA04C.D



Ion 331.80 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	24.951	BU	0.134	380354	24.784	25.194
2	25.389	UB	0.121	253568	25.194	25.773

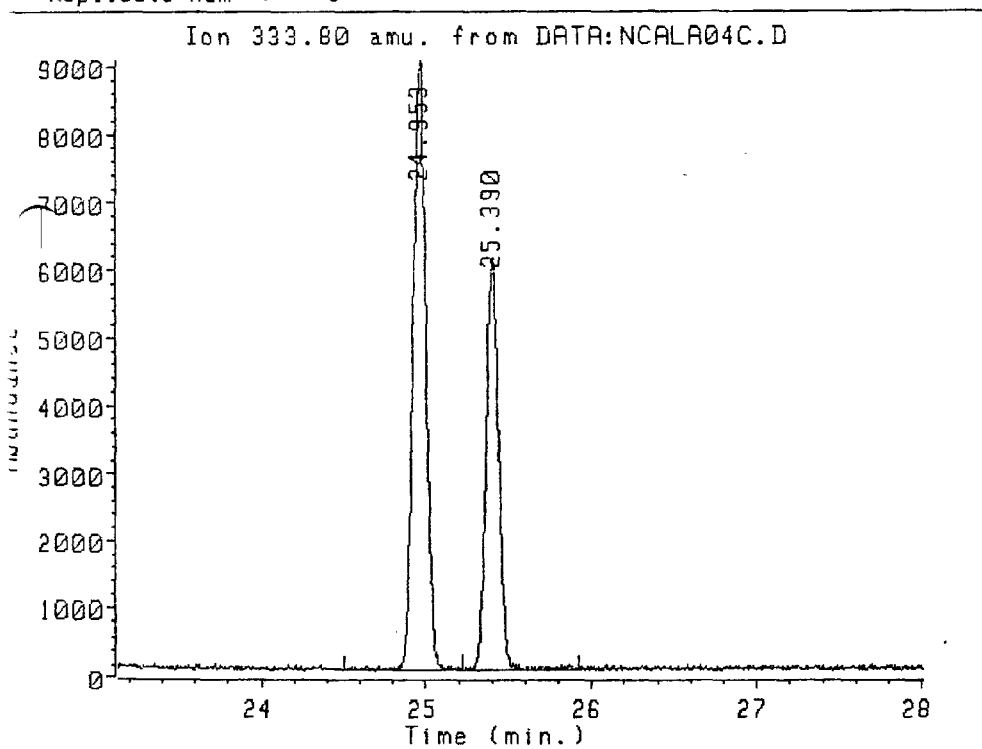
91

Data file: DATA:NCALA04C.D
 File type: GC / MS DATA FILE
 Name Info: CLP CALIBRATION SOLN IV
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:02 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 1
 Als bottle num : 4
 Replicate num : 3

021102



Ion 333.80 amu. from DATA:NCALA04C.D
 CLP CALIBRATION SOLN IV

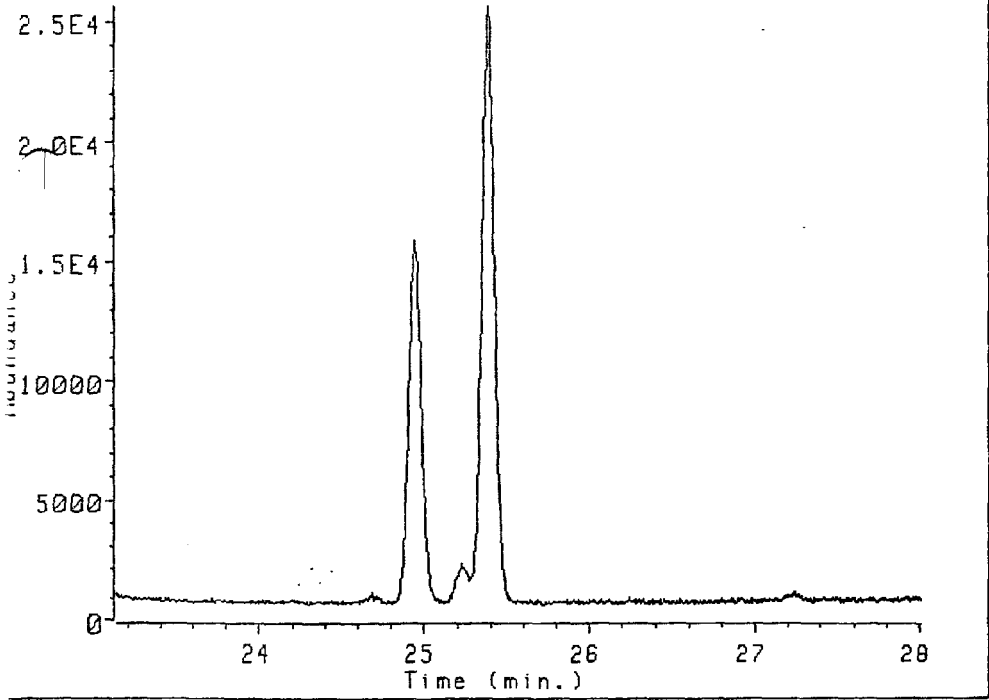
Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.953	BV	0.091	486909	24.506	25.218
2	25.390	UB	0.136	315334	25.218	25.918

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

TIC of DATA:NCALB01A.D



021103

3 1956

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

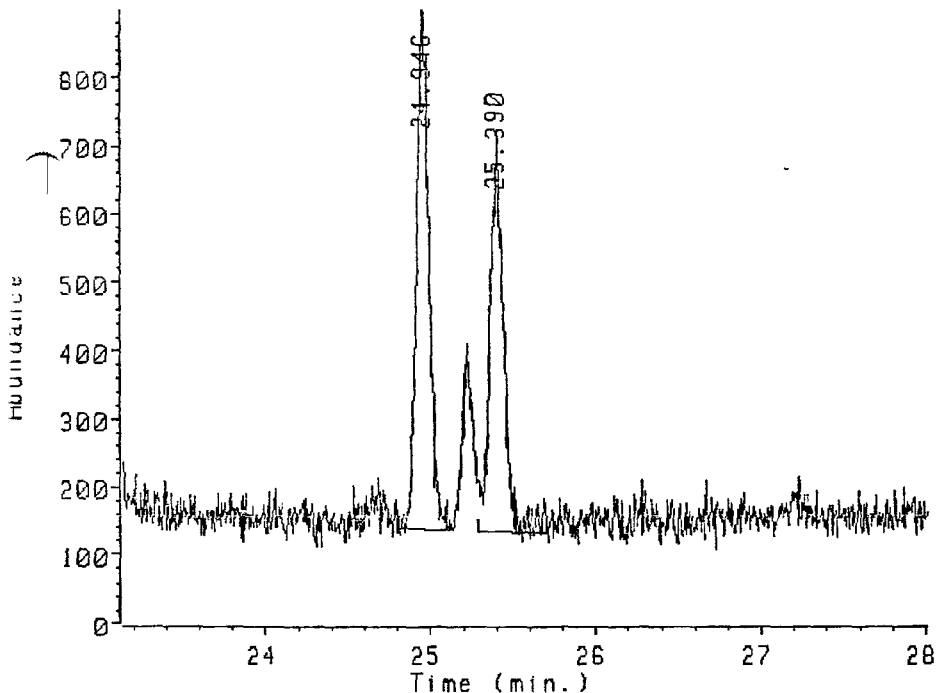
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

021104

Ion 258.90 amu. from DATA:NCALB01A.D



on 258.90 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.946	UB	0.091	39870	24.809	25.122
2	25.390	UB	0.101	31957	25.291	25.702

03221320

94

Data file: DATA:NCALB01A.D
 File type: GC / MS DATA FILE

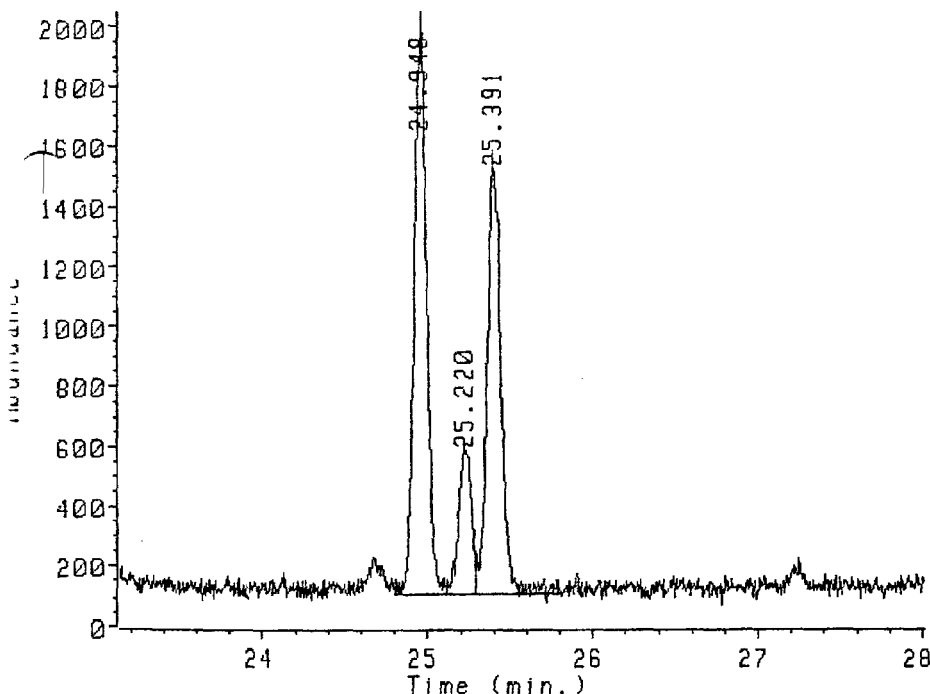
Name Info: COLUMN PERFORMANCE MIX
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 1
 Replicate num : 1

021105

Ion 319.90 amu. from DATA:NCALB01A.D



Ion 319.90 amu. from DATA:NCALB01A.D
 COLUMN PERFORMANCE MIX

Peak#	Ret Time	Type	Width.	Area	Start Time	End Time
1	24.948	UU	0.089	98901	24.803	25.122
2	25.220	UU	0.087	25754	25.122	25.290
3	25.391	UB	0.147	81636	25.290	25.798

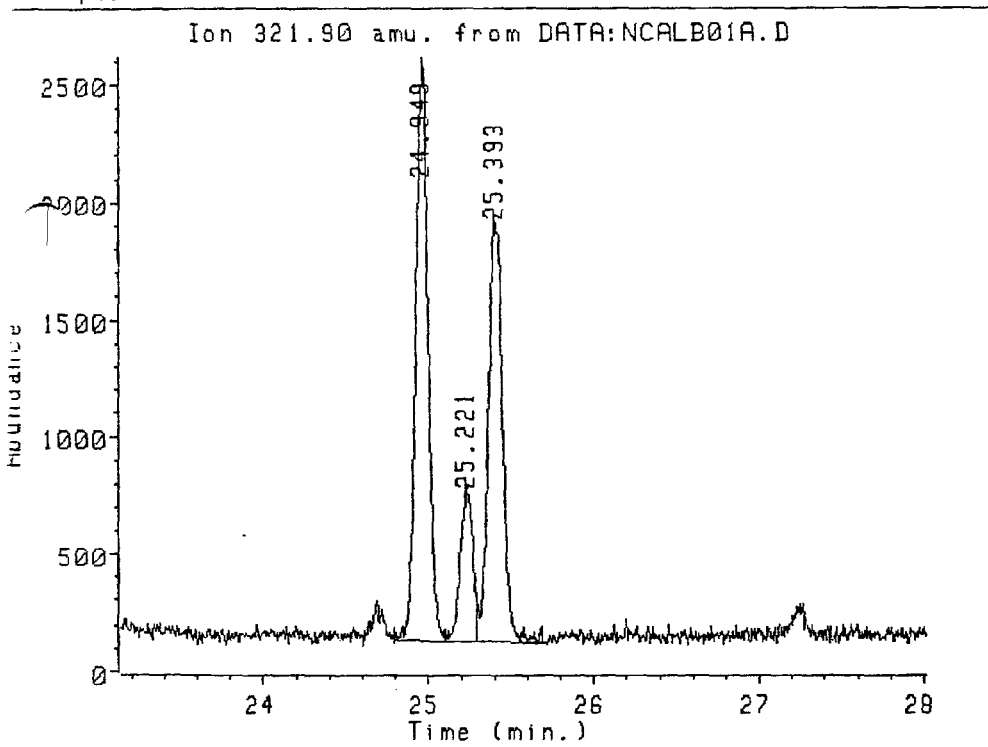
Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

021106



on 321.90 amu. from DATA:NCALB01A.D

COLUMN PERFORMANCE MIX

Scan #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.949	UU	0.088	128555	24.788	25.102
2	25.221	UU	0.086	34074	25.102	25.291
3	25.393	UU	0.150	105301	25.291	25.702

96

Data file: DATA:NCALB01A.D
 File type: GC / MS DATA FILE

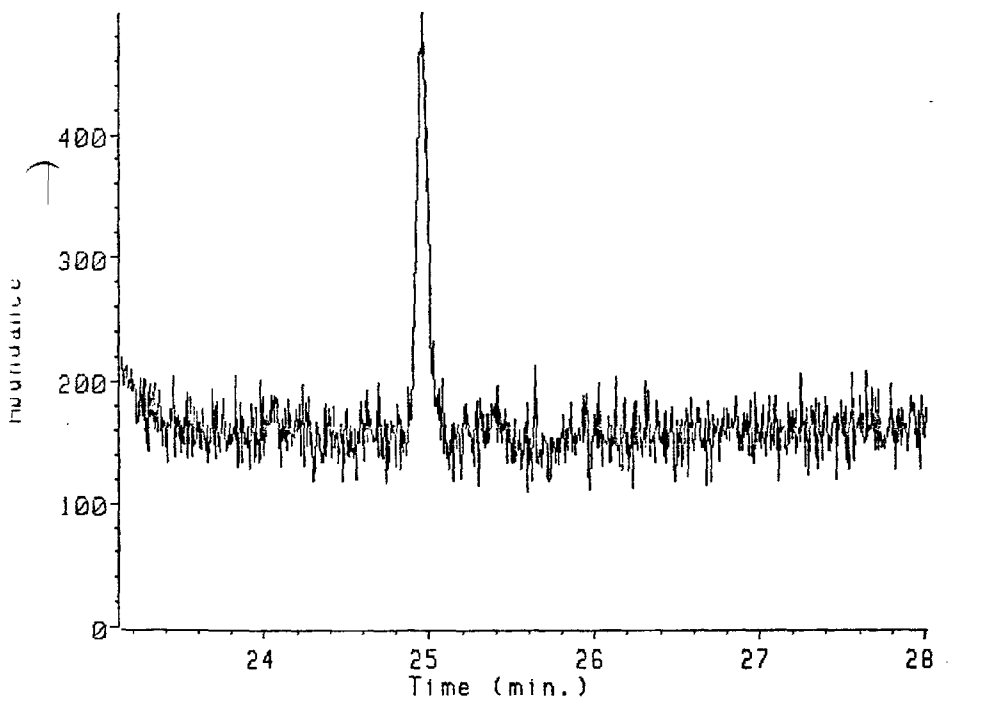
Name Info: COLUMN PERFORMANCE MIX
 Misc Info:
 Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
 Instrument: MS_5970
 Inlet : GC

Sequence index : 2
 Als bottle num : 1
 Replicate num : 1

021107

Ion 327.90 amu. from DATA:NCALB01A.D



on 327.90 amu. from DATA:NCALB01A.D
 COLUMN PERFORMANCE MIX

0 peaks detected

Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

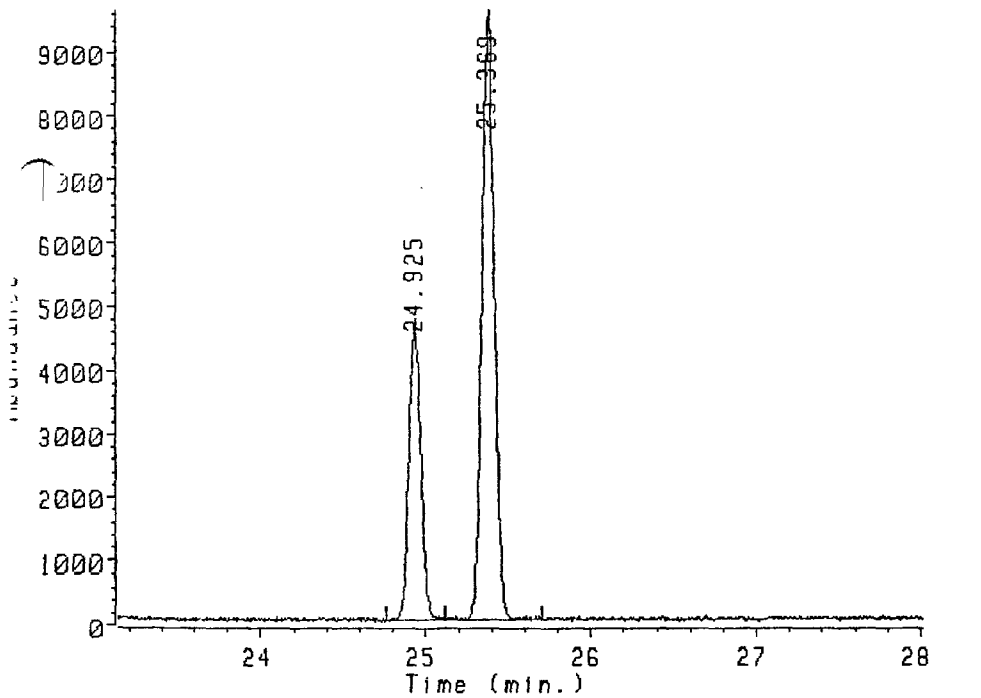
Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrument: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

021108

Ion 331.80 amu. from DATA:NCALB01A.D



Ion 331.80 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

Scan #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.925	BU	0.139	233907	24.760	25.122
2	25.369	UB	0.130	492927	25.122	25.702

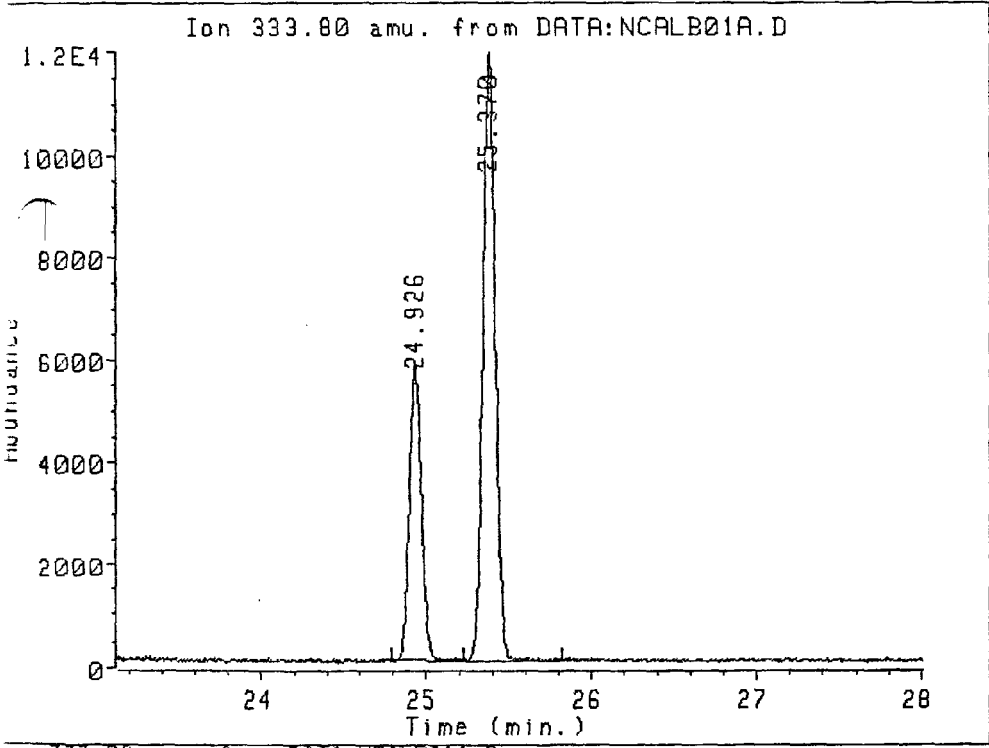
Data file: DATA:NCALB01A.D
File type: GC / MS DATA FILE

Name Info: COLUMN PERFORMANCE MIX
Misc Info:
Operator : MS OPERATOR

Date : 10 Dec 87 6:34 pm
Instrment: MS_5970
Inlet : GC

Sequence index : 2
Als bottle num : 1
Replicate num : 1

021109



on 333.80 amu. from DATA:NCALB01A.D
COLUMN PERFORMANCE MIX

Peak #	Ret Time	Type	Width	Area	Start Time	End Time
1	24.926	BU	0.139	289994	24.784	25.219
2	25.370	PB	0.140	611865	25.219	25.822

3 1962

ATTACHMENT 5
CHAIN OF CUSTODY, GC/MS/MS LOG, EXTRACTION RECORD

021110

03221326



INTERNATIONAL
TECHNOLOGY
CORPORATION

CHAIN-OF-CUSTODY RECORD

R/A Control No. 65700

C/C Control No. 47152

PROJECT NAME/NUMBER Jacksonville Office 480078

LAB DESTINATION TMS - Indianapolis, Indiana

SAMPLE TEAM MEMBERS D. Simons & D. Perry

CARRIER/WAYBILL NO. FED Ex #443526J582

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
WH2260	Jacksonville, Arkansas	07/25/88	Soil	125cc GLASS		
WH2261		07/25/88	Soil	125cc GLASS		
WH2262	Jacksonville Arkansas	07/25/88	Soil	125cc GLASS		

Special Instructions: _____

Possible Sample Hazards: _____

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: D. Simons 08/01/88 @ 1:00 pm

3. Relinquished By: _____

Received By: _____

Received by: _____

2. Relinquished By: Federal Express

4. Relinquished By: _____

Received By: Nora Hauring 8/2/88 09:20 AM

Received By: _____

03221327

021111

3 1963



INTERNATIONAL
TECHNOLOGY
CORPORATION

REQUEST FOR ANALYSIS

PROJECT NAME Jacksonville Office
 PROJECT NUMBER 480078.01.08.02
 PROJECT MANAGER Dana Simons
 BILL TO Hercules, Inc

DATE SAMPLES SHIPPED _____
 LAB DESTINATION _____
 LABORATORY CONTACT _____
 SEND LAB REPORT TO _____

R/A Control No. 6500
 C/C Control No. 47152

08/01/88
TMS Analytical
Cindy Kraus
Dorene Kivallita



INTERNATIONAL
TECHNOLOGY
CORPORATION

CHAIN-OF-CUSTODY RECORD

PROJECT NAME/NUMBER Jacksonville Office 480078
 SAMPLE TEAM MEMBERS D. Simons & D. Perry

LAB DESTINATION TMS - Indianapolis, Indiana
 CARRIER/WAYBILL NO. FED Ex #443526J582

R/A Control No. 65700

C/C Control No. 47152

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
WH2260	Jacksonville, Arkansas	07/29/88	Soil	125cc GLASS		
WH2261	Jacksonville, Arkansas	07/29/88	Soil	125cc GLASS		
WH2262	Jacksonville, Arkansas	07/29/88	Soil	125cc GLASS		
/	/	/	/	/		
/	/	/	/	/		
/	/	/	/	/		
/	/	/	/	/		
/	/	/	/	/		

Special Instructions: _____

Possible Sample Hazards: _____

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: D. Simons 08/01/88 6:00 am

3. Relinquished By: _____

021112

03221328

3 1964

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE

AIRBILL NUMBER

5263

DATE: 8/2/88

From (Your Name): **TRUCK** Phone Number (Very Important): **(602) 442-3111**

To (Recipient's Name): **SEPA** Recipient's Phone Number (Very Important): **(602) 442-3111**

Company: **TRUCK** Department/Floor No.: **7000**

Street Address: **9141** Exact Street Address (Use of P.O. Boxes or R.F.D. Zip Codes Will Delay Delivery And Result In Extra Charge): **677**

City: **PHOENIX** State: **AZ** ZIP Required For Correct Invoicing: **85008** City: **PHOENIX** State: **AZ** ZIP Street Address Zip Required: **85008**

YOUR BILLING REFERENCE INFORMATION (FIRST 34 CHARACTERS WILL APPEAR ON INVOICE)

X 450078-1-88-12

PAYMENT Bill Sender Bill Recipient's FedEx Acct. No. Bill 3rd Party FedEx Acct. No. Bill Credit Card

HOLD FOR PICK-UP AT THIS FEDERAL EXPRESS LOCATION:

Street Address (See Service Guide or Call 800-238-5355): **City: State:**

City: State:

ZIP * Zip Code of Street Address Required:

SERVICES CHECK ONE TIME BOX

PRIORITY 1 Overnight Delivery Using Your Packaging

OVERNIGHT LETTER Overnight Delivery

Courier-Pak Overnight Envelope 12" x 15"

Overnight Box 12W x 17H x 3"

Overnight Tube 36" x 18" x 8" x 8"

STANDARD AIR Delivery not later than second business day

DELIVERY AND SPECIAL HANDLING - CHECK SERVICES REQUIRED

HOLD FOR PICK-UP (P.O. Boxes not eligible)

LIVELIVE OVERNIGHT

DELIVER SATURDAY (Extra charge)

DANGEROUS GOODS (P.O. Boxes and Postboxes may not be used)

CONSTANT TEMPERATURE SERVICE (CTS) (Extra charge. Cts Not Guaranteed)

DRY ICE

OTHER SPECIAL SERVICE

packages	weight	TOTAL DECLARED VALUE	INSURANCE SIZE
	LBS		
	LBS		
	LBS		
Total			

Emp. No. Date

Cash Received Return Shipment Third Party Drop In Drop To Hold

Street Address City State Zip

Received By: **X Morris Neuring**

Date/Time Received: **8/2/88 09:20** FedEx Employee Number:

SERVICE COMMITMENT

PRIORITY 1: Delivery is scheduled early next business morning in most locations. It may take less or more business days if the destination is outside our primary service areas.

STANDARD AIR: Delivery is guaranteed next business day after second business day. It may take less or more business days if the destination is outside our primary service areas.

Sender authorizes Federal Express to deliver his shipment without obtaining delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting thereon.

Release Signature:

Received At: Regular Stop Drop Stop BSC Station

Federal Express Corp. Employee No. **37106**

Date/Time For Federal Express Use: **8/1/88**

FEDERAL EXPRESS

REC-1138900

FECS-150-25

REVISION DATE 10/86

PRINTED U.S.A. - INORE

RECIPIENT'S COPY

03221329

021113

3 1965

3 1966

method file name	range	dup	method file name	range	dup
A DATA:TMSD10.M	1:	2 1			M
B DATA:FLUSH.M	3:	3 1			N
C DATA:TMSD10.M	4:	12 1			O
D DATA:TMSD10.M	1:	2 1			P
E DATA:FLUSH.M	3:	3 1			Q
F DATA:TMSD10.M	13:	25 1			R
G	:				S
H	:				T
I	:				U
J	:				V
K	:				W
L	:				X



021114

- Index Sample Identification
- 1....COLUMN PERFORMANCE MIX
 - 2....CALIBRATION SOLN 1
 - 3....1SDOCTANE
 - 4....E01 METHOD BLANK
 - 5....2178
 - 6....HERC METHOD BLANK
 - 7....SOIL BLANK
 - 8....SOIL SPIKE
 - 9....PE - 8
 - 10....WH 2260
 - 11....WH 2261
 - 12....WH 2262
 - 13....2122
 - 14....2123
 - 15....2124
 - 16....2125

021115

Next Page Previous Page More Info EXIT

- Index Sample Identification
- 17....2080
 - 18....2081
 - 19....2082
 - 20....2086
 - 21....2087
 - 22....2088
 - 23....2092
 - 24....2093
 - 25....2094
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Next Page Previous Page More Info EXIT

DATE: 8-2-88

SHIPMENT NUMBER HER0802A

3 1968

INITIALS JDS

SID SAMPLE #	EPA SAMPLE #	SAMPLE WEIGHT	EXTRACTION VOLUME	OPTION A CLEANUP	OPTION D CLEANUP	SPIKING SOL'N ADDED	COMMENTS
MB	—	5.00g	6 mL	✓		Sp. sol. II	
SB	0CL34504	5.00		✓		"	
SS	0CL35539	5.00		✓		Sp. sol. I	
PE-B	—	5.00		✓		Sp. sol. II	
WH2260		4.98		✓			soil
" 2261		5.00		✓			"
" 2262		5.03		✓			"

0.21116

03221332

021117