N60478.AR.000073
NWS EARLE
5090.3a

Groundwater Monitoring Study

Sampling Results

Round 4

Waste Oil Storage Tank
Building C-14
Naval Weapons Station Earle
Colts Neck, New Jersey

Contract Number N62472-86-C-1487

OPTION I

Project No. 5

November 1990

Gannett Fleming, Inc.
Harrisburg, PA

Gannett Fleming

Groundwater Monitoring Study

Sampling Results

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Gannett Fleming, Inc.
Harrisburg, PA

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Sampling Results

The fourth round of sampling of OPTION I for the Building C-14 waste oil storage tank area has been completed. A summary of the sampling results is presented in Table 1. The laboratory analysis report from QC, Inc., a New Jersey Certified Laboratory, can be found in Attachment A. The Chain of Custody forms are also found in Attachment A. The Ground Water Analysis Forms (Nos. VWX-15, VWX-16, and VWX-17) are presented in Attachment B. The location of the monitoring wells is shown in Figure 1.

For this sampling round, the following parameters were measured: petroleum hydrocarbons, total dissolved solids (TDS), total organic carbon (TOC), base neutral compounds, and pH. The limitations set for these parameters (as found in Table 1 of contract number N62472-86-C-1487, Amendment 7) are:

Parameter	Limitation
Base/Neutral Compounds	---
Petroleum Hydrocarbons	10 ppm
TDS	500 ppm
TOC	---
pH	5-9

Petroleum hydrocarbons were not detected in any of the wells. The TDS concentrations in all samples were below the limitation levels. The TOC concentrations measured were less than 7 mg/L. The pH of the samples from wells C-14A, C-14C and C-29A was measured to be slightly less than the lower limit of 5.

Revised

Groundwater Monitoring Study
Naval Weapons Station Earle
Summary of Results*

PARAMETER	Well No. C-14A	Well No. C-14B	Well No. C-14C	Well NO. C-29A	TRIP BLANK	FIELD BLANK
Elevation of top of monitor well casing above ground level	0	1.83 ft.	2.17 ft.	3.50 ft.	---	---
Depth to Water Table from top of casing	8.2 ft.	15.66 ft.	13.50 ft.	12.00 ft.	---	---
Depth to Water Table from ground level	8.2 ft.	13.83 ft.	11.33 ft.	8.50 ft.	---	---
Petroleum Hydrocarbons	<0.5 mg/L	<0.5 mg/L	<0.5 mg/L	<0.5 mg/L	<0.5 mg/L	<0.5 mg/L
pH	4.71	5.16	4.27	4.54	5.43	5.50
Total Dissolved Solids (TDS)	120 mg/L	82 mg/L	94 mg/L	130 mg/L	<2 mg/L	<2 mg/L
Total Organic Carbon	5.8 mg/L	1.6 mg/L	6.6 mg/L	3.2 mg/L	<1.0 mg/L	<1.0 mg/L

*Results given with a less than symbol were undetected and the value given is the detection limit.

SUMMARY OF RESULTS
(Continued)

PARAMETER
Base Neutral Extractables
by GC/MS

Name	Well No. C-14A		Well No. C-14B		Well No. C-14C		Well No. C-29A		Field Blank		Trip Blank	
	Results	Comments	Results	Comments	Results	Comments	Results	Comments	Results	Comments	Results	Comments
	PPB		PPB		PPB		PPB		PPB		PPB	
Bis (2-chloroethyl) Ether	10	U	10	U	10	U	11	U	10	U	10	U
1, 2-Dichlorobenzene	5	U	5	U	5	U	11	U	10	U	10	U
1, 4-Dichlorobenzene	5	U	5	U	5	U	11	U	10	U	10	U
1, 3-Dichlorobenzene	5	U	5	U	5	U	11	U	10	U	10	U
Bis (2-chloroisopropyl) Ether	10	U	10	U	10	U	11	U	10	U	10	U
N-Nitrosodipropyl Amine	10	U	10	U	10	U	11	U	10	U	10	U
Hexachloroethane	10	U	10	U	10	U	11	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U	11	U	10	U	10	U
Isophorone	10	U	10	U	10	U	11	U	10	U	10	U
Bis (2-chloroethoxy) Methane	10	U	10	U	10	U	11	U	10	U	10	U
1, 2, 4-Trichlorobenzene	10	U	10	U	10	U	11	U	10	U	10	U
Naphthalene	10	U	10	U	10	U	11	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U	11	U	10	U	10	U
Hexachlorocyclopentadiene	10	U	10	U	10	U	11	U	10	U	10	U
2-Chloronaphthalene	10	U	10	U	10	U	11	U	10	U	10	U
Dimethyl Phthalate	10	U	10	U	10	U	11	U	10	U	10	U
2, 6-Dinitroluene	10	U	10	U	10	U	11	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	11	U	10	U	10	U
Acenaphthene	10	U	10	U	10	U	11	U	10	U	10	U

SUMMARY OF RESULTS
(Continued)

PARAMETER
Base Neutral Extractables
by GC/MS

Name	Well No. C-14A		Well No. C-14B		Well No. C-14C		Well No. C-29A		Field Blank		Trip Blank	
	Results	Comments	Results	Comments	Results	Comments	Results	Comments	Results	Comments	Results	Comments
	PPB		PPB		PPB		PPB		PPB		PPB	
2, 4-Dinitrotoluene	10	U	10	U	10	U	11	U	10	U	10	U
Diethyl Phthalate	10	U	10	U	10	U	11	U	10	U	10	U
N-Nitrosodimethyl Amine	10	U	10	U	10	U	11	U	10	U	10	U
4-Chlorophenylphenyl Ether	10	U	10	U	10	U	11	U	10	U	10	U
Fluorene	10	U	10	U	10	U	11	U	10	U	10	U
Azobenzene	10	U	10	U	10	U	11	U	10	U	10	U
N-Nitrosodiphenyl Amine	10	U	10	U	10	U	11	U	10	U	10	U
4-Bromophenylphenyl Ether	10	U	10	U	10	U	11	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	11	U	10	U	10	U
Phenanthrene	10	U	10	U	10	U	11	U	10	U	10	U
Anthracene	10	U	10	U	10	U	11	U	10	U	10	U
Dibutyl Phthalate	10	U	10	U	10	U	11	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U	11	U	10	U	10	U
Benzidine	50	U	50	U	50	U	54	U	50	U	50	U
Pyrene	10	U	10	U	10	U	11	U	10	U	10	U
Butylbenzyl Phthalate	10	U	10	U	10	U	22	U	10	U	10	U
3, 3-Dichlorobenzidine	20	U	20	U	20	U	11	U	20	U	20	U
Benzo (A) Anthracene	10	U	10	U	10	U	11	U	10	U	10	U
Chrysene	10	U	10	U	10	U	11	U	10	U	10	U

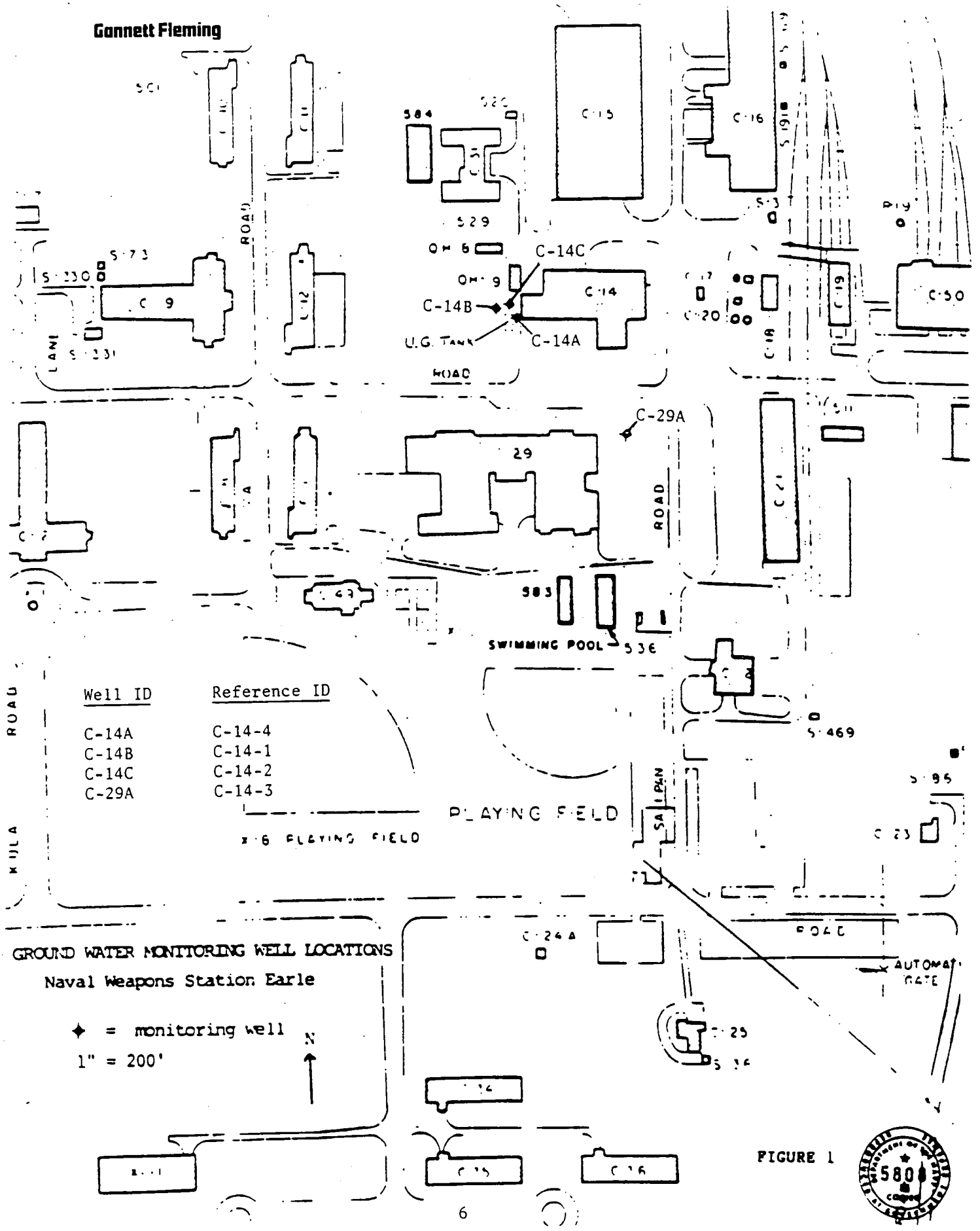
SUMMARY OF RESULTS
(Continued)

PARAMETER
Base Neutral Extractables
by GC/MS

Name	Well No. C-14A		Well No. C-14B		Well No. C-14C		Well No. C-29A		Field Blank		Trip Blank	
	Results	Comments	Results	Comments	Results	Comments	Results	Comments	Results	Comments	Results	Comments
	PPB		PPB		PPB		PPB		PPB		PPB	
Bis (2-ethylhexyl) Phthalate	3	J	10	U	4	J	3	BJ	10	U	10	U
Dioctyl-Phthalate	10	U	10	U	10	U	11	U	10	U	10	U
Benzo (K) Fluoranthene	10	U	10	U	10	U	11	U	10	U	10	U
Benzo (B) Fluoranthene	10	U	10	U	10	U	11	U	10	U	10	U
Benzo (A) Pyrene	10	U	10	U	10	U	11	U	10	U	10	U
Indeno (1, 2, 3-CD) Pyrene	10	U	10	U	10	U	11	U	10	U	10	U
Dibenzo (A, H) Anthracene	10	U	10	U	10	U	11	U	10	U	10	U
Benzo (GHI) Perylene	10	U	10	U	10	U	11	U	10	U	10	U

COMMENTS:
U = Not Detected
J = Detected but below Method Detection Limit
B = Compound found in Blank
NM = Not Measured

Gannett Fleming



Well ID	Reference ID
C-14A	C-14-4
C-14B	C-14-1
C-14C	C-14-2
C-29A	C-14-3

GROUND WATER MONITORING WELL LOCATIONS

Naval Weapons Station Earle

✦ = monitoring well

1" = 200'

FIGURE 1

ATTACHMENT A

Laboratory Analysis Results

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

ANALYTICAL DATA REPORT PACKAGE
FOR
GANNET & FLEMING INC.

PART 1 OF 3

Field Sample ID	Laboratory Sample ID	Date of Collection
14 A	296400	11/01/90
14 B	296401	11/01/90
14 C	296402	11/01/90
29 C	296403	11/01/90
FIELD BLANK	296404	11/01/90
TRIP BLANK	296405	11/01/90

Laboratory Name: QC Inc.

Certification No.: PADER No. 09-131
NJDEP No. 77166

Supervisor/Manager Signature: Thomas J. Hines

Printed Name: Thomas J. Hines

Date: 11-30-90

QC G-1

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

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I X-1/X-2	Semivolatile Organic Quality Control Summary.	8
	Semivolatile Organic Data Results, RICs, Mass Spectra and Quantitation Reports:	
	(14 A).....	20
	(14 B).....	42
	(14 C).....	60
	(29 C).....	82
	(TRIP BLANK).....	104
	(FIELD BLANK).....	126

Chain of Custody Without Shuttle

000001

QC Inc
1205 Industrial Highway
P.O. Box 514 • Southampton, Pennsylvania 18966-0514
(215) 355-3900

I.D. NUMBER 296400 - 296405

NAME OF UNIT AND ADDRESS

GANNETT FLEMING

* TIER I *

SAMPLE NO.	NO. OF CONT.	DESCRIPTION OF SAMPLES
14A	5	2-QUART GLASS, 1-PT. PLASTIC, 2-QUART GLASS SULFURIC, 29 (296400 (296401) 14A
14B	5	2-QUART GLASS, 1-PT. PLASTIC, 2-QUART GLASS SULFURIC 14B (296402)
14C	5	2-QUART GLASS, 1-PT. PLASTIC, 2-QUART GLASS SULFURIC 14C (296403)
29C	5	2-QUART GLASS, 1-PT. PLASTIC, 2-QUART GLASS SULFURIC (296404)
TRIP BLANK	5	2-QUART GLASS, 1-PT. PLASTIC, 2-QUART GLASS SULFURIC (296405)
FIELD BLANK	5	2-QUART GLASS, 1-PT. PLASTIC, 2-QUART GLASS SULFURIC
		EACH LOCATION IS GETTING: PET. HYDROCARBONS, pH, TDS, TOC, BASE NEUTRALS (INCLUDING FIELD & TRIP)

PERSON ASSUMING RESPONSIBILITY FOR SAMPLE

QC INC.

SAMPLE NUMBER	RELINQUISHED BY	RECEIVED BY	TIME	DATE	REASON FOR CHANGE OF CUSTODY
296400	Scott E Roadarmel	Roadarmel	4:15 pm	11/1/90	Lab - [illegible]
296405	Roadarmel	W. Erwin	3:20 pm	11/2/90	Wet chem
"	Roadarmel	W. Hamilton	3:20	11/2/90	GCMS - semis

LAB COPY

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

LABORATORY CHRONICLE

Laboratory Sample ID No: 296400-296405

	I	Date	II
Receipt/Refrigeration	11/01/90		
Organics Extraction			
1. Base/Neutral Extractables	11/05/90		11/07/90
2. Acid Extractables			
3. Pesticides/PCB's			
4. Dioxin			
Analyses			
1. Volatiles			
2. Base/Neutral Extractables	11/12,13/90		
3. Acid Extractables			
4. Pesticides/PCB's			
5. Dioxin			
Inorganics			
1. Metals			
2. Cyanides			
3. Phenols			
Other Analytes			
1.			
2.			
3.			
4.			

SECTION SUPERVISOR REVIEW & APPROVAL
(Signature) William S. Schmidt
(Printed Name) William S. Schmidt
(Date) 11/30/90

Q.A. DIRECTOR REVIEW & APPROVAL
(Signature) Mary A. Serembus
(Printed Name) Mary A. Serembus
(Date) 11-30-90

Form QC G-5

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

LABORATORY CHRONICLE

Laboratory Sample ID No: 296400-296405

	I	Date	II
Receipt/Refrigeration	11/01/90		
Organics Extraction			
1. Base/Neutral Extractables			
2. Acid Extractables			
3. Pesticides/PCB's			
4. Dioxin			
Analyses			
1. Volatiles			
2. Base/Neutral Extractables			
3. Acid Extractables			
4. Pesticides/PCB's			
5. Dioxin			
Inorganics			
1. Metals			
2. Cyanides			
3. Phenols			
Other Analytes			
1. Petroleum Hydrocarbons	11/19/90		
2. Total Organic Carbon	11/16/90		
3. Total Dissolved Solids	11/13/90		
4. pH	11/05/90		

SECTION SUPERVISOR REVIEW & APPROVAL
(Signature) [signature]
(Printed Name) Raphael C. Fratti
(Date) 11/30/90

Q.A. DIRECTOR REVIEW & APPROVAL
(Signature) Mary A. Serembus
(Printed Name) Mary A. Serembus
(Date) 11-30-90

Form QC G-5

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

METHODOLOGY SUMMARY

Base Neutral Extractables	USEPA Method 8270 Test Methods for Evaluating Solid Extraction: USEPA Method 3520
Petroleum Hydrocarbons	USEPA Method 418.1 Methods for Chemical Analysis of Water and Wastes
Total Organic Carbon	USEPA Method 415.1 Methods for Chemical Analysis of Water and Wastes
Total Dissolved Solids	USEPA Method 160.1 Methods for Chemical Analysis of Water and Wastes
pH	USEPA Method 150.1 Methods for Chemical Analysis of Water and Wastes

QC Inc

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CASE NARRATIVE

SEMIVOLATILE ORGANIC ANALYSES

Holding Times

Required maximum holding time for extraction and analysis of Semivolatile Organic samples was met.

GC/MS Tuning and Performance

Required GC/MS tune performance check frequency and ion abundance criteria for Decafluorotriphenylphosphine (DFTPP) were met.

No visible tailing for Pentachlorophenol or Benzidine was observed.

Degradation of DDT to DDE and DDD was less than twenty percent.

Initial & Continuing Calibration

All System Performance Check Compounds (SPCCs) and Calibration Check Compounds (CCCs) met required criteria.

Blanks

A method blank was extracted with every sample batch and analyzed to monitor contamination.

BWD1107 contained 35 ug/L of bis(2-Ethylhexyl) Phthalate.
BWD1113 contained 12 ug/L of bis(2-Ethylhexyl) Phthalate.

Surrogates

Surrogate recovery limits were met for all method blanks and samples the following exceptions:

Sample ID	Surrogate	% Recovery	Limits
BWD1105	Terphenyl	183	33-141
BWD1113	Terphenyl	181	33-141
14 C	Terphenyl	197	33-141

QC Inc

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SEMIVOLATILE RERUN LOG

ACCESSION#	LAB FILE ID'S	DATE	TIME	ANALYSIS	REASON
AQ BLK 11/5	BWD1105	11/15/90	14:24	Primary	Poor surrogate recoveries

The QC samples, matrix spike and sample dulpicate, were extracted on 11/5 in accordance with methode EPA-625 and were inappropriate with method SW846-8270. To correct this problem new QC samples, matrix spike and matrix spike duplicate were extracted on 11/13.

Signature William S. Schmidt

Name/Title: William S. Schmidt
Semivolatile Group Leader

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: QC INC. Contract: GANNETT

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

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	14A	82	82	86				0	0
02	14B	69	79	120				0	0
03	14C	80	97	197 *				0	1
04	29C	69	71	112				0	0
05	FIELD_BLANK	66	90	124				0	0
06	TRIP_BLANK	74	101	99				0	0
07	WATER_NOV_MS	82	102	154 *				0	1
08	14C_MS	102	110	257 *				0	1
09	14C_MSD	96	104	225 *				0	1
10	WATER_NOV_MS	82	99	38				0	0
11	AQ_BLANK_11-	70	70	120				0	0
12	AQ_BLK_11-5	75	66	183 *				0	1
13	AQ_BLK_11-13	99	91	181 *				0	1

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-110)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QC INC. Contract: GANNETT

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

Matrix Spike - EPA Sample No.: 14C

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,4-Dichlorobenzene	200	0	196	98 *	36 97
N-Nitroso-di-n-prop.(1)	200	0	250	125 *	41 116
1,2,4-Trichlorobenzene	200	0	183	92	39 98
Acenaphthene	200	0	228	114	46-118
2,4-Dinitrotoluene	200	0	296	148 *	24- 96
Pyrene	200	0	506	253 *	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	200	187	94	4	28	36 97
N-Nitroso-di-n-prop.(1)	200	224	112	11	38	41 116
1,2,4-Trichlorobenzene	200	183	92	0	28	39 98
Acenaphthene	200	222	111	3	31	46-118
2,4-Dinitrotoluene	200	270	135 *	9	38	24- 96
Pyrene	200	472	236 *	7	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 6 out of 12 outside limits

COMMENTS: 14C
1000MLS/1.0ML

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QC INC. Contract: GANNETT

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

Matrix Spike - EPA Sample No.: WATER NOV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,4-Dichlorobenzene	105	0	79.6	76	36 97
N-Nitroso-di-n-prop.(1)	105	0	113	108	41 116
1,2,4-Trichlorobenzene	105	0	79.7	76	39 98
Acenaphthene	105	0	101	96	46-118
2,4-Dinitrotoluene	105	0	53.8	51	24- 96
Pyrene	105	0	49.0	47	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	103	73.1	71	7	28	36 97
N-Nitroso-di-n-prop.(1)	103	88.7	86	23	38	41 116
1,2,4-Trichlorobenzene	103	70.2	68	11	28	39 98
Acenaphthene	103	78.7	76	23	31	46-118
2,4-Dinitrotoluene	103	4.66	5 *	164 *	38	24- 96
Pyrene	103	76.0	74	-45 *	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 6 outside limits
Spike Recovery: 1 out of 12 outside limits

COMMENTS: WATER MONTHLY NOVEMBER
970MLS/1ML

Due to matrix interference in the spike, pyrene was quanitated against d10-phenanthrene.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: BWD1105R Lab Sample ID: BWD1105

Date Extracted: 11/05/90 Extraction:(SepF/Cont/Sonc) CONT

Date Analyzed: 11/16/90 Time Analyzed: 1743

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

Instrument ID: FINN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	14A	296400	296400	11/12/90
02	14B	296401	296401	11/12/90
03	14C	296402	296402	11/13/90
04	FIELD_BLANK	296405	296405	11/13/90
05	TRIP_BLANK	296404	296404	11/13/90

COMMENTS: AQ BLK 11/05
1000MLS/1.0ML

FORM IV SV 1/87 Rev.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: BWD1107 Lab Sample ID: BWD1107

Date Extracted: 11/07/90 Extraction:(SepF/Cont/Sonc) CONT

Date Analyzed: 11/13/90 Time Analyzed: 2041

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

Instrument ID: FINN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	29C	296403	296403	11/13/90
02	WATER_NOV_MS	297726_MSD	297726SD	11/15/90
03	WATER_NOV_MS	297726_MS	297726S	11/15/90

COMMENTS: AQ BLK 11/07
1000MLS/1.0ML

FORM IV SV 1/87 Rev.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: BWD1113 Lab Sample ID: BWD1113

Date Extracted: 11/13/90 Extraction:(SepF/Cont/Sonc) CONT

Date Analyzed: 11/20/90 Time Analyzed: 0639

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

Instrument ID: FINN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	14C_MS	296402_MS	296402S	11/20/90
02	14C_MSD	296402_MSD	296402SD	11/20/90

COMMENTS: AQ BLK 11/13
1000MLS/1.0ML

FORM IV SV 1/87 Rev.

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: DFTPPD1109P DFTPP Injection Date: 11/09/90

Instrument ID: FINN DFTPP Injection Time: 1602

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.0
68	Less than 2.0% of mass 69	0.1 (0.3)1
69	Mass 69 relative abundance	41.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 30.0% of mass 198	20.5
365	Greater than 1.00% of mass 198	1.00
441	Present, but less than mass 443	7.4
442	Greater than 40.0% of mass 198	53.3
443	17.0 - 23.0% of mass 442	9.5 (17.9)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50_NG_CALI	50_NG_CALI	HSD501109R	11/09/90	1809
02	80_NG_CALI	80_NG_CALI	HSD801109	11/09/90	1859
03	120_NG_CALI	120_NG_CALI	HSD1201109	11/09/90	1957
04	160_NG_CALI	160_NG_CALI	HSC1601109	11/09/90	2050
05	20_NG_CALI	20_NG_CALI	HSD201109	11/09/90	2139

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: DFTPPD1112P DFTPP Injection Date: 11/12/90

Instrument ID: FINN DFTPP Injection Time: 1659

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.8
68	Less than 2.0% of mass 69	0.3 (0.6)1
69	Mass 69 relative abundance	46.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	51.1
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 1.00% of mass 198	1.16
441	Present, but less than mass 443	5.7
442	Greater than 40.0% of mass 198	42.5
443	17.0 - 23.0% of mass 442	7.9 (18.7)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50_NG_CAL	50_NG_CAL	HSD501112	11/12/90	1718
02	14A	296400	296400	11/12/90	2106
03	14B	296401	296401	11/12/90	2358
04	14C	296402	296402	11/13/90	0053
05	TRIP_BLANK	296404	296404	11/13/90	0300
06	FIELD_BLANK	296405	296405	11/13/90	0359

FORM V SV 1/87 Rev.

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: DFTPPD1113P DFTPP Injection Date: 11/13/90

Instrument ID: FINN DFTPP Injection Time: 1219

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	37.6
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	41.7
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	23.5
365	Greater than 1.00% of mass 198	1.88
441	Present, but less than mass 443	9.2
442	Greater than 40.0% of mass 198	60.2
443	17.0 - 23.0% of mass 442	11.8 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50_NG_CALI	50_NG_CALI	HSD501113P	11/13/90	1243
02	160_NG_CAL	160_NG_CAL	HSD1601113	11/13/90	1432
03	80_NG_CAL	80_NG_CAL	HSD801113	11/13/90	1630
04	120_NG_CAL	120_NG_CAL	HSD1201113	11/13/90	1722
05	20_NG_CAL	20_NG_CAL	HSD201113	11/13/90	1816
06	AQ_BLANK_11-	BWD1107	BWD1107	11/13/90	2041
07	29C	296403	296403	11/13/90	2301

FORM V SV 1/87 Rev.

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: DFTPPD1115A DFTPP Injection Date: 11/15/90

Instrument ID: FINN DFTPP Injection Time: 0905

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.5
68	Less than 2.0% of mass 69	0.4 (1.2)1
69	Mass 69 relative abundance	36.8
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	44.1
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	22.6
365	Greater than 1.00% of mass 198	1.64
441	Present, but less than mass 443	8.6
442	Greater than 40.0% of mass 198	55.7
443	17.0 - 23.0% of mass 442	10.6 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50_NG_CALI	50_NG_CALI	HSD501115A	11/15/90	0935
02	WATER_NOV_MS	297726_MS	297726S	11/15/90	1718
03	WATER_NOV_MS	297726_MSD	297726SD	11/15/90	1809

FORM V SV 1/87 Rev.

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: DFTPPD1116A DFTPP Injection Date: 11/16/90

Instrument ID: FINN DFTPP Injection Time: 1040

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	39.4
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	45.6
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 1.00% of mass 198	1.39
441	Present, but less than mass 443	6.4
442	Greater than 40.0% of mass 198	42.7
443	17.0 - 23.0% of mass 442	8.4 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50_NG_CALI	50_NG_CALI	HSD501116A	11/16/90	1118
02	AQ_BLK_11-5	BWD1105	BWD1105R	11/16/90	1743

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5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Lab File ID: DFTPPD1119P DFTPP Injection Date: 11/19/90

Instrument ID: FINN DFTPP Injection Time: 1958

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.9
68	Less than 2.0% of mass 69	0.5 (1.4)1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.6
365	Greater than 1.00% of mass 198	1.37
441	Present, but less than mass 443	5.8
442	Greater than 40.0% of mass 198	40.6
443	17.0 - 23.0% of mass 442	8.0 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50_NG_CAL	50_NG_CAL	HSD501119P	11/19/90	2019
02	80_NG_CAL	80_NG_CAL	HSD801119	11/19/90	2200
03	120_NG_CAL	120_NG_CAL	HSD1201119	11/19/90	2252
04	160_NG_CAL	160_NG_CAL	HSD1601119	11/19/90	2346
05	20_NG_CAL	20_NG_CAL	HSD201119	11/20/90	0039
06	14C_MS	296402_MS	296402S	11/20/90	0257
07	14C_MSD	296402_MSD	296402SD	11/20/90	0353
08	AQ_BLK_11-13	BWD1113	BWD1113	11/20/90	0639

FORM V SV 1/87 Rev.

SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

14A

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296400

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296400

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/12/90

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

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

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
103-33-3	Azobenzene (2)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U

SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

14A

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296400

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296400

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/12/90

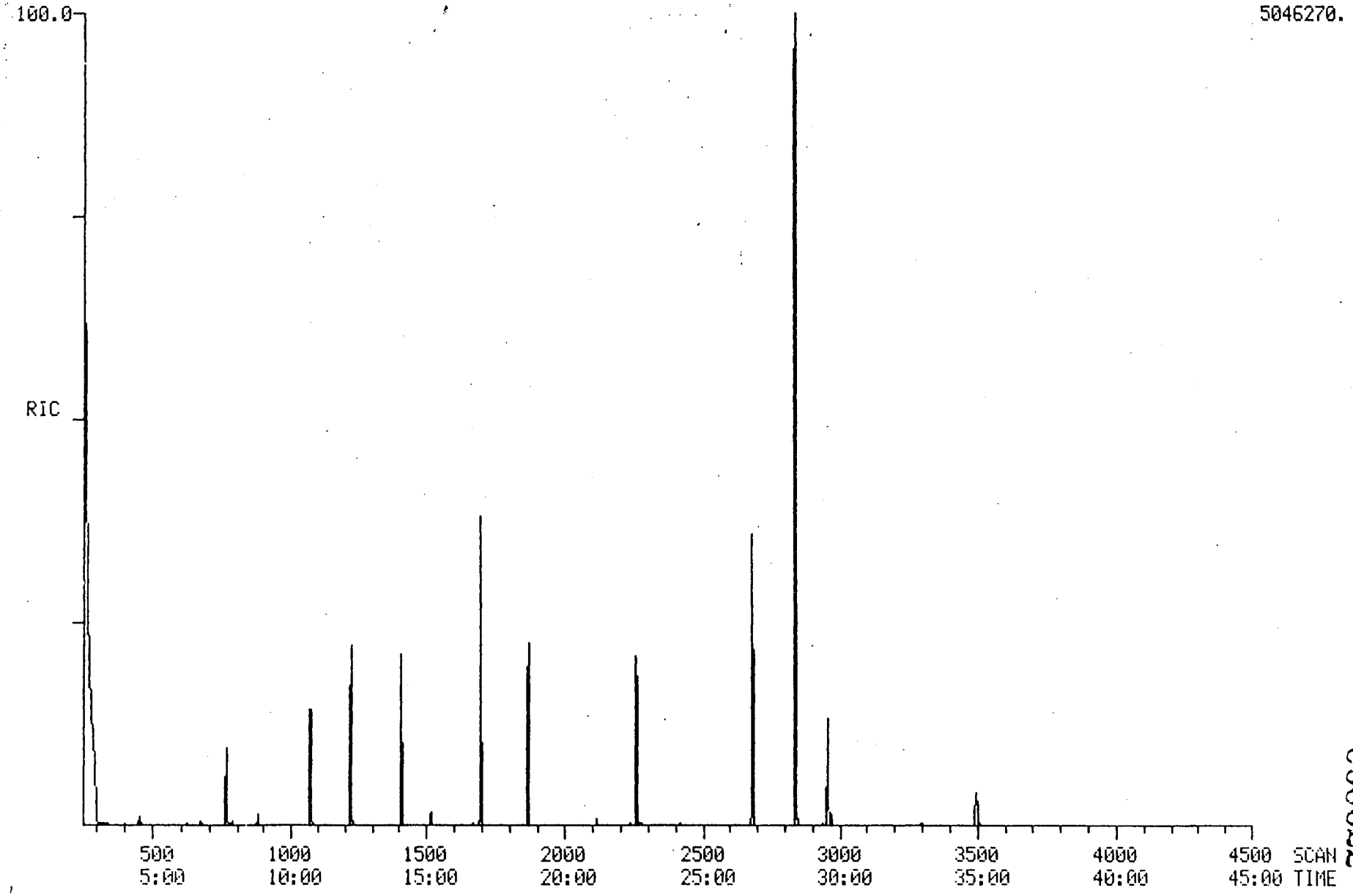
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

RIC
11/12/90 21:06:00
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296400 #1
CALI: CALTAB #3

SCANS 250 TO 4500

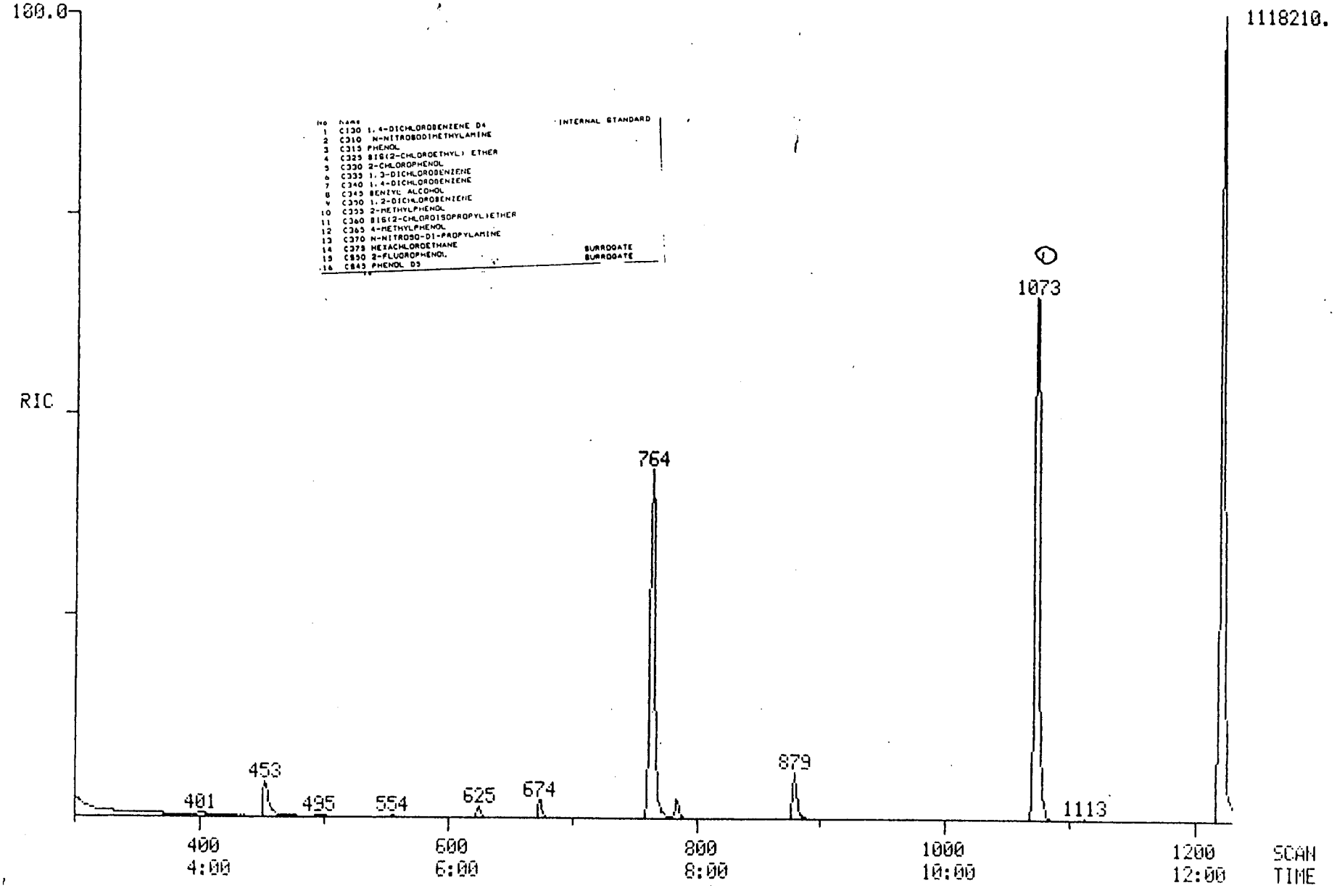


000022

RIC
11/12/90 21:06:00
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296400 #1
CALI: 296400 #3

SCANS 300 TO 1230



NO	NAME	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C830 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000023

Quantitation Report File: 296400

000024

Data: 296400.TI
11/12/90 21:06:00
Sample: 14A
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296400

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1073	10:44	1	1.000	A BB	518144.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								

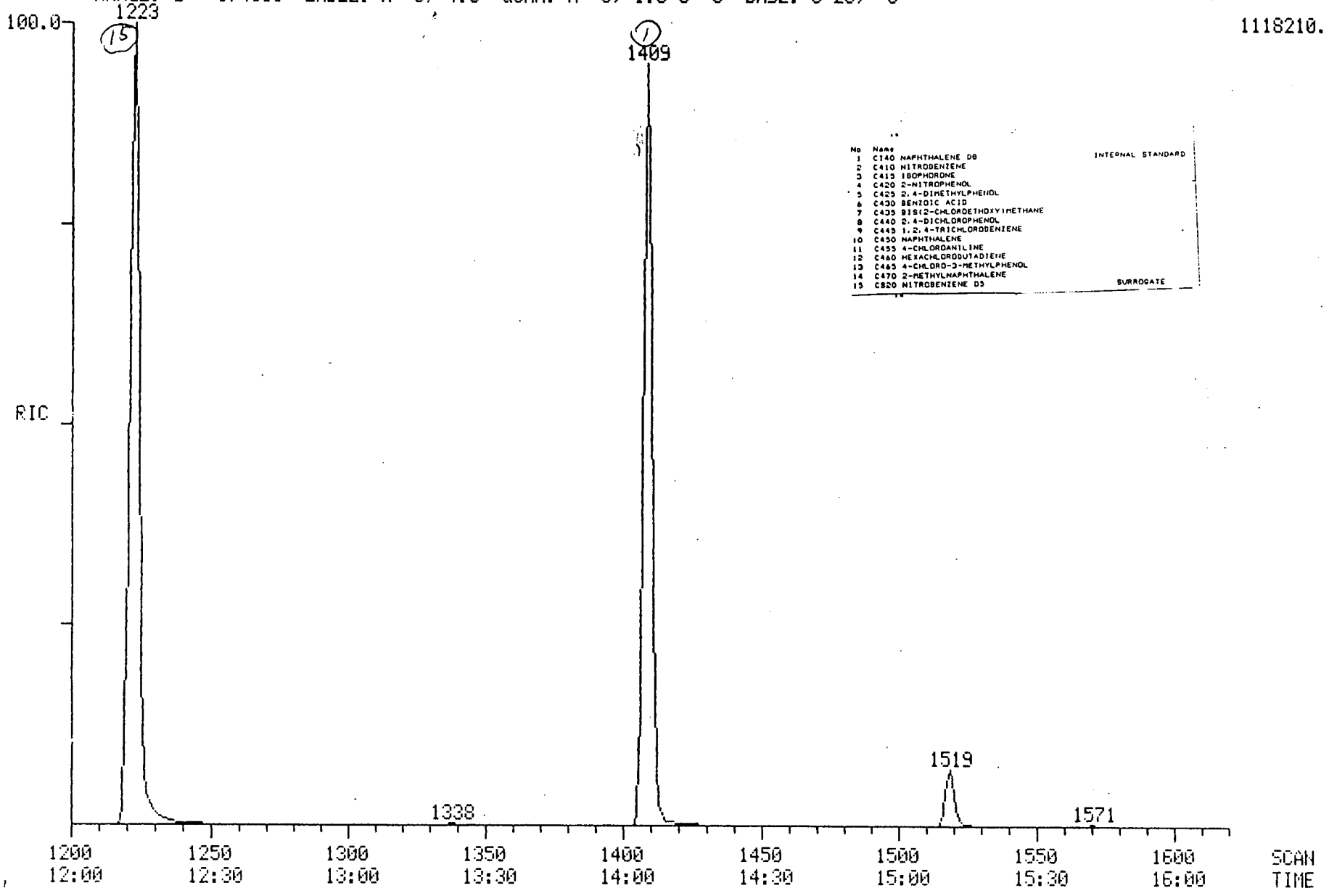
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:29		0.324						
3	9:56		0.923						
4	10:08		0.941						
5	10:12		0.948						
6	10:36		0.985						
7	10:48		1.004						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Rati
8	11:11		1.040						
9	11:11		1.040						
10	11:31		1.071						
11	11:38		1.081						
12	11:56		1.110						
13	11:55		1.107						
14	12:05		1.123						
15	7:16		0.675						
16	9:54		0.920						

RIC
11/12/90 21:06:00
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296400 #1
CALI: 296400 #3

SCANS 1200 TO 1620



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C820 NITROBENZENE D5	SURROGATE

000026

Quantitation R port File: 296400

000027

Data: 296400.TI
11/12/90 21:06:00
Sample: 14A
Conds.: 1000MLS/1.0ML
Formula:
Submitted by: GANNETT

Instrument: FINN
Analyst: WSS

Weight: 0.000
Acct. No.: 296400

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1409	14:05	1	1.000	A BB	1875290.	40.000 UG/ML	32.77
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	128	1413	14:08	1	1.003	A BB	~~448.~~	~~0.010 UG/ML~~	~~0.01~~ NO WSS
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	82	1223	12:14	1	0.868	A BB	1598170.	82.048 UG/ML	67.22 YES WSS

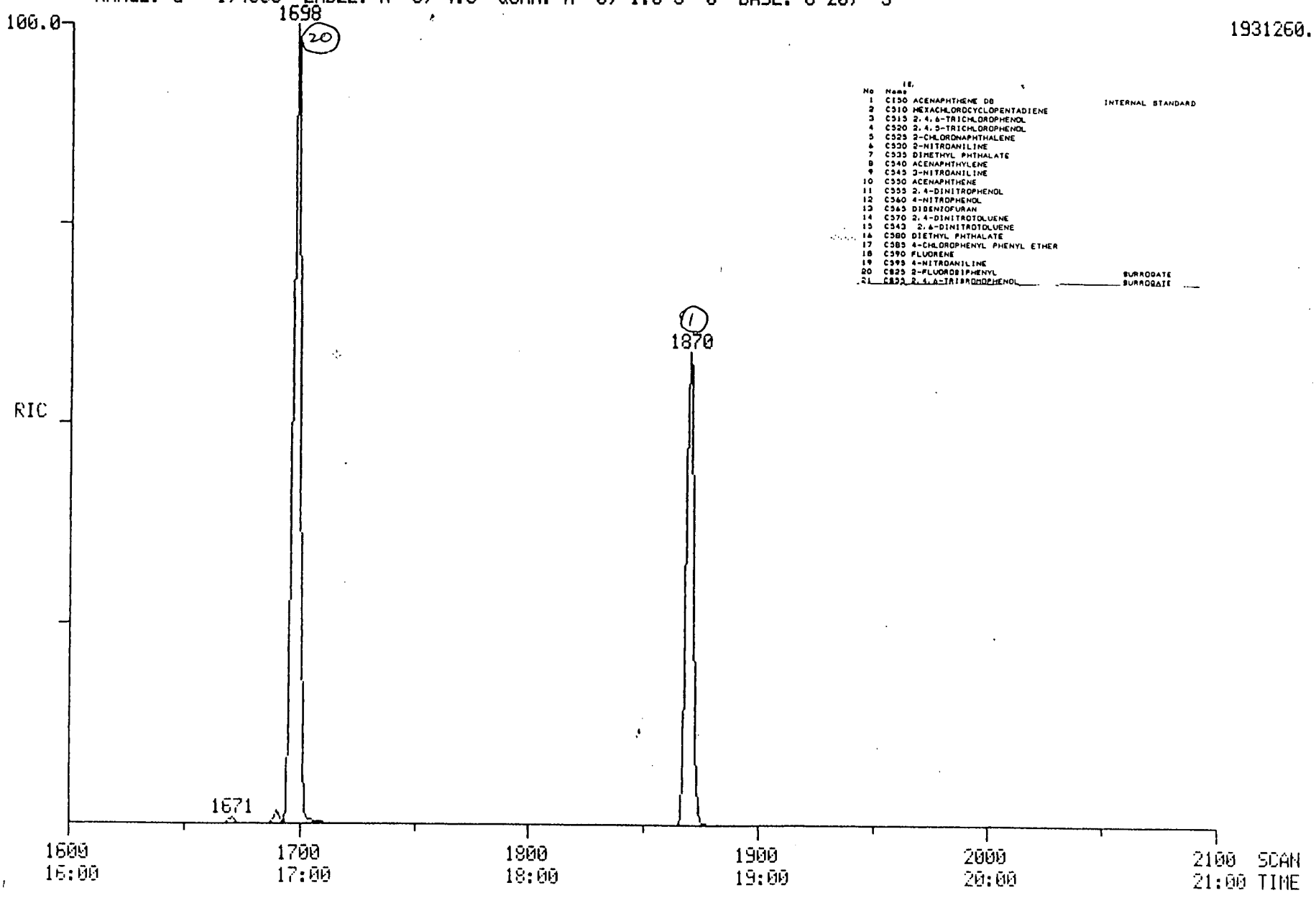
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17		0.871						
3	12:57		0.918						
4	13:08		0.931						
5	13:20		0.945						
6	13:48		0.978						
7	13:34		0.962						
8	13:47		0.977						
9	13:59		0.991						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:10	1.00	1.004	1.00	0.01	50.00	0.000	0.940	0.00
11	14:21		1.017						
12	14:31		1.029						
13	15:41		1.112						
14	16:00		1.134						
15	12:14	1.00	0.867	1.00	82.05	50.00	0.682	0.415	1.64

RIC
11/12/90 21:06:00
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296400 #1
CALI: 296400 #3

SCANS 1600 TO 2100



No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C625 2-FLUORODIPHENYL	SURROGATE
21	C630 2,4,6-TRIBROMOPHENOL	SURROGATE

000029

Quantitation Report File: 296400

000030

Data: 296400.TI
11/12/90 21:06:00
Sample: 14A
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296400

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

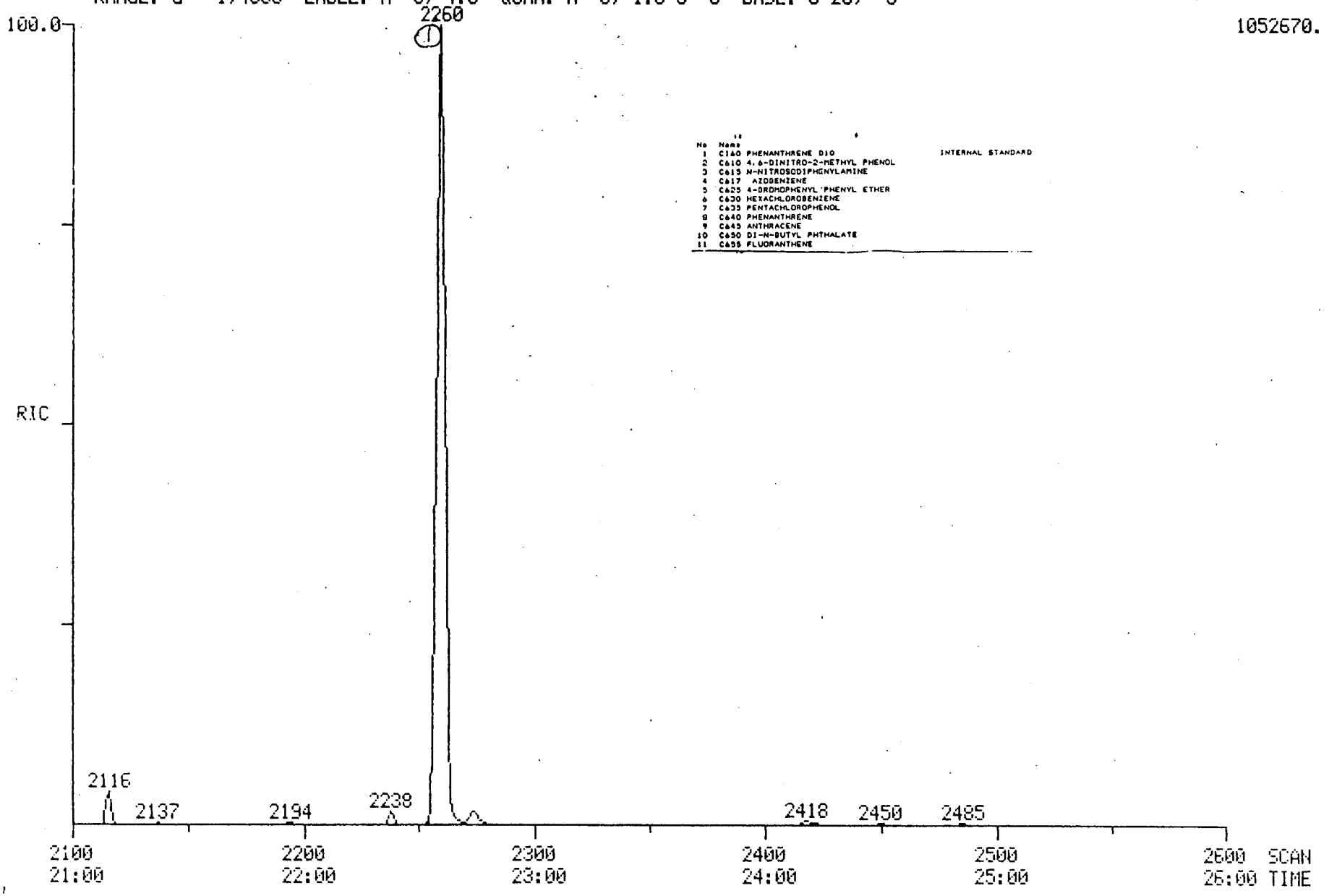
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1870	18:42	1	1.000	A BB	1035980.	40.000 UG/ML	32.64
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	154	1878	18:47	1	1.004	A BB	~~432.~~	~~0.016 UG/ML~~	~~0.01~~ NO WSS
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	172	1698	16:59	1	0.908	A BB	2422480.	82.543 UG/ML	67.35 Yes WSS
21	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25		0.877						
3	16:46		0.896						
4	16:52		0.901						
5	17:16		0.923						
6	17:35		0.939						
7	18:06		0.967						
8	18:21		0.980						
9	18:40		0.997						
10	18:49	1.00	1.005	1.00	0.02	50.00	0.000	1.033	0.00
11	18:57		1.012						
12	19:11		1.025						
13	19:16		1.029						
14	19:17		1.030						
15	18:14		0.974						
16	19:58		1.066						
17	20:12		1.079						
18	20:10		1.077						
19	20:16		1.083						
20	17:00	1.00	0.908	1.00	82.54	50.00	1.871	1.133	1.65
21	20:47		1.111						

RIC
11/12/90 21:06:00
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296400 #1
CALI: 296400 #3

SCANS 2100 TO 2600



No	Name	
1	C140 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000032

Quantitation Report File: 296400

000033

Data: 296400.TI
11/12/90 21:06:00
Sample: 14A
Conds.: 1000MLS/1.0ML
Formula:
Submitted by: GANNETT

Instrument: FINN
Analyst: WSS

Weight: 0.000
Acct. No.: 296400

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

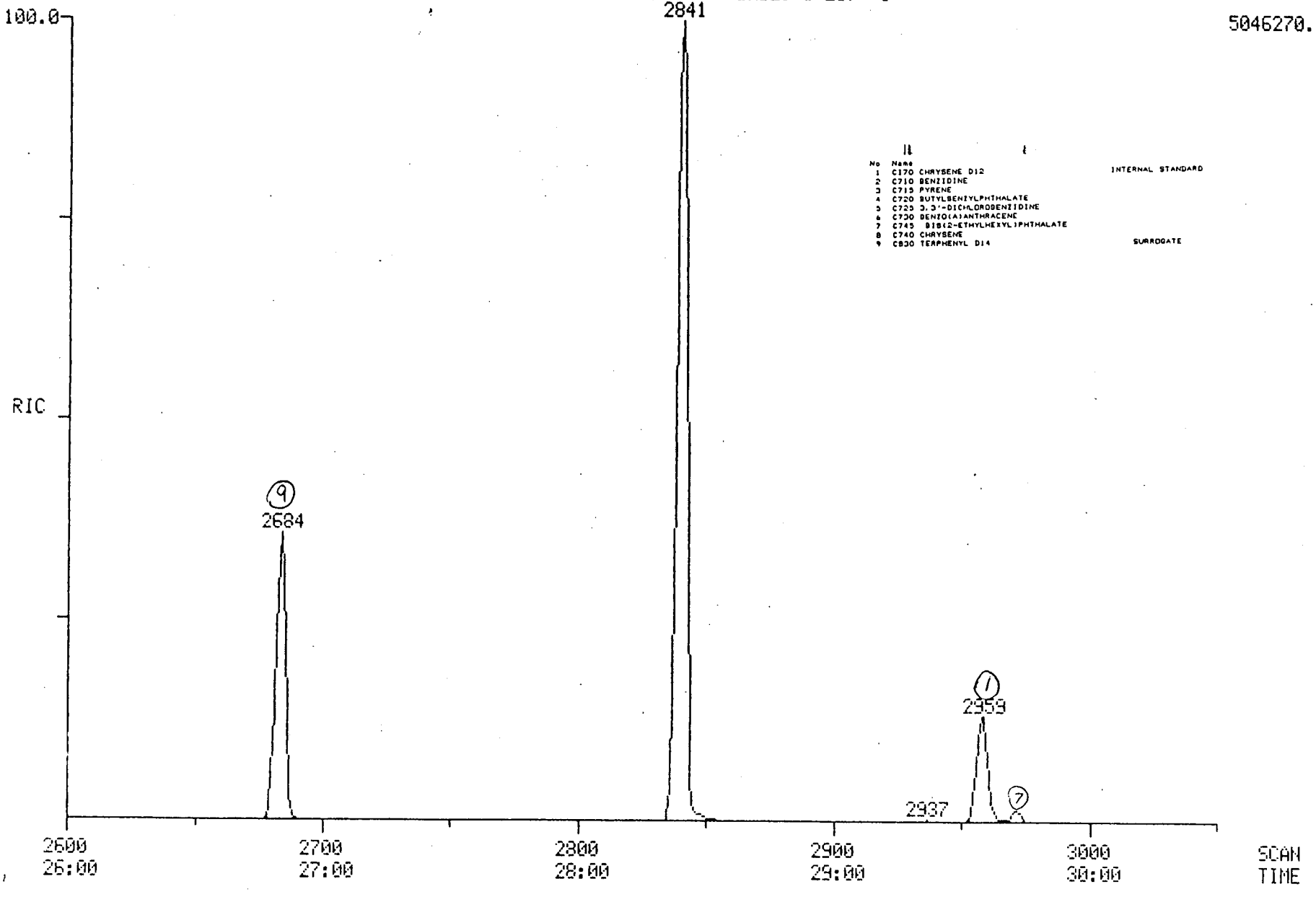
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2259	22:35	1	1.000	A BV	994606.	40.000 UG/ML	99.60
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	178	2265	22:39	1	1.003	A BB	~~1792.~~	~~0.038 UG/ML~~	~~0.09~~ NO WSS
9	178	2279	22:47	1	1.009	A BB	~~240.~~	~~0.005 UG/ML~~	~~0.01~~ NO WSS
10	149	2422	24:13	1	1.072	A BB	~~7568.~~	~~0.120 UG/ML~~	~~0.30~~ NO WSS
11	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20		0.900						
3	20:31		0.908						
4	20:37		0.912						
5	21:28		0.950						
6	21:35		0.955						
7	22:08		0.979						
8	22:41	1.00	1.003	1.00	0.04	50.00	0.001	1.903	0.00
9	22:49	1.00	1.009	1.00	0.00	50.00	0.000	2.006	0.00
10	24:14	1.00	1.072	1.00	0.12	50.00	0.006	2.547	0.00
11	25:48		1.141						

RIC
11/12/90 21:06:00
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296400 #1
CALI: 296400 #3

SCANS 2600 TO 3050



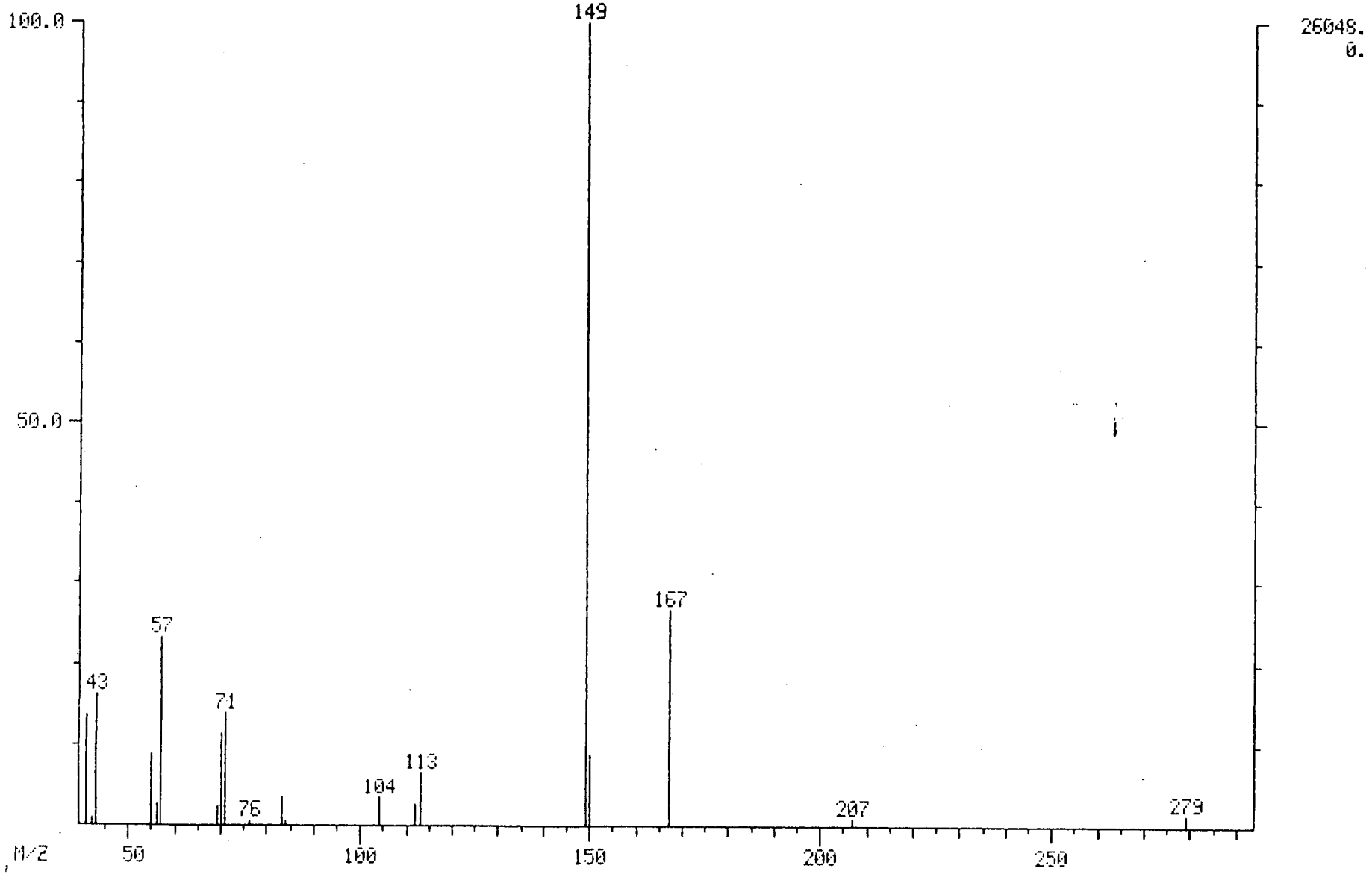
No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000024

MASS SPECTRUM
11/12/90 21:06:00 + 29:43
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: 296400 #2972
CALI: 296400 #3

BASE M/Z: 149
RIC: 64704.



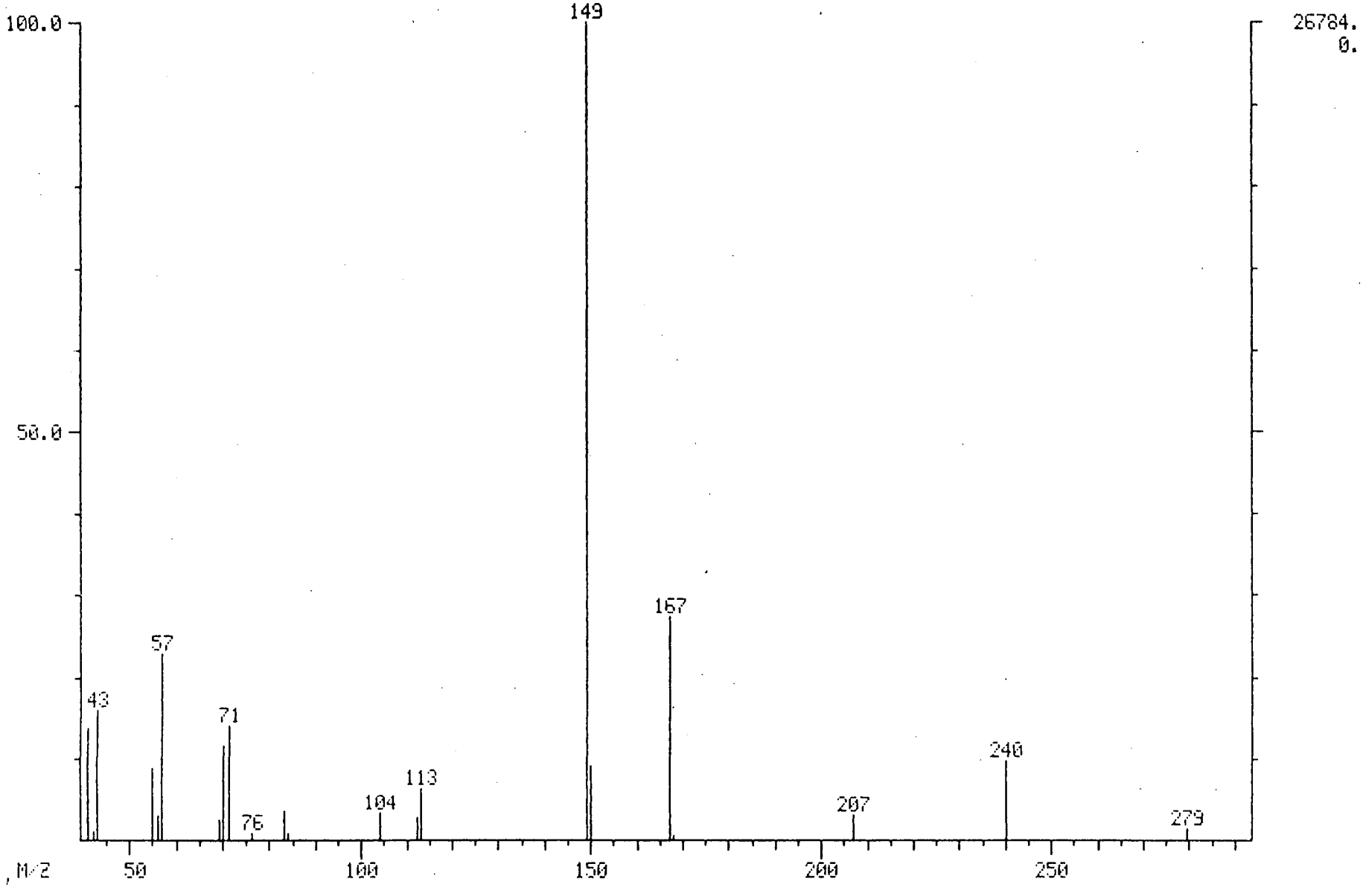
000035

MASS SPECTRUM
11/12/90 21:06:00 + 29:43
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
TEMP: 290 DEG. C

DATA: 296400 #2972
CALI: 296400 #3

BASE M/Z: 149
RIC: 70400.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

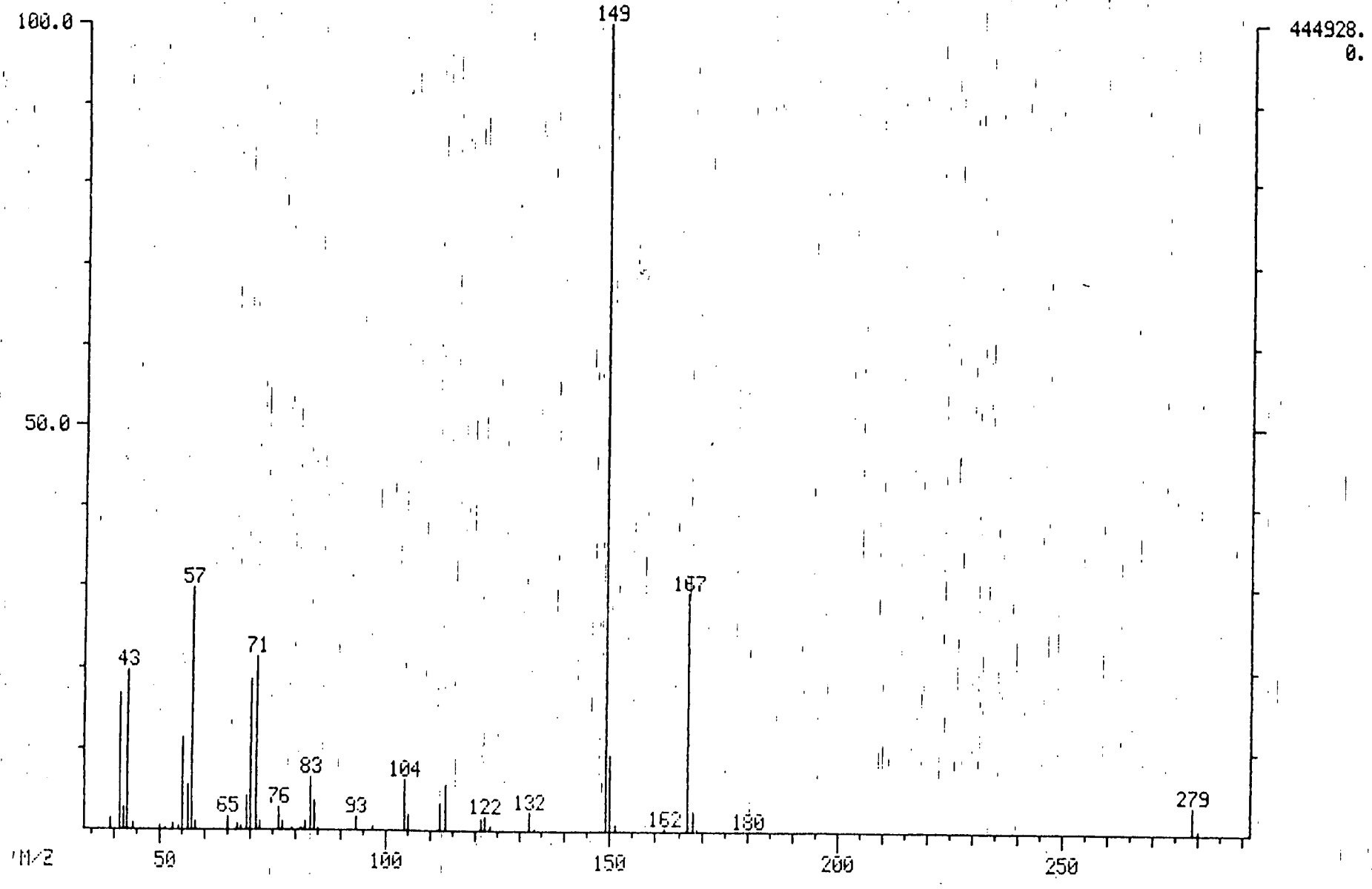


000036

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1454080.



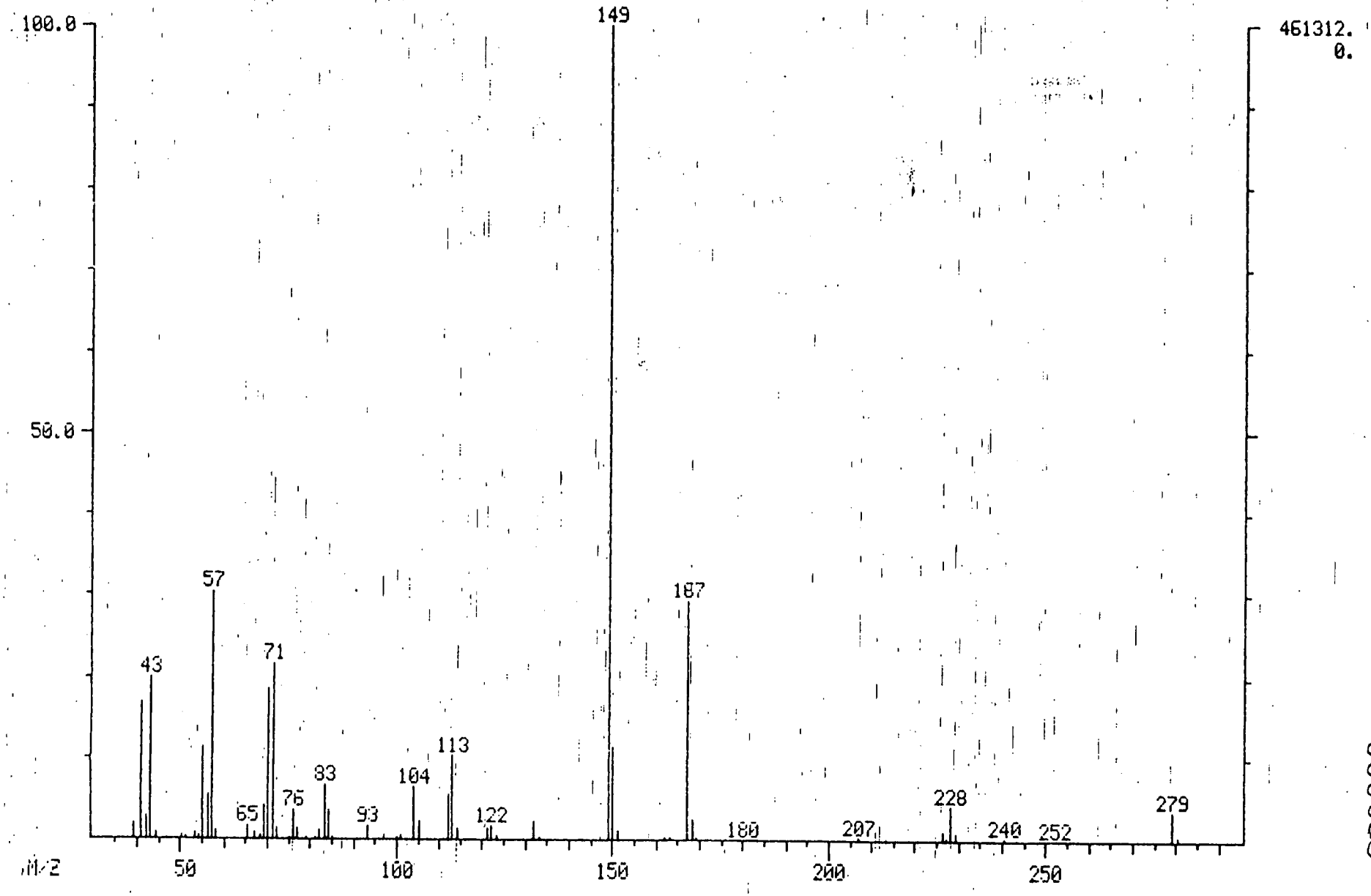
000037

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1609730.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE



000038

Quantitation Report File: 296400

000039

Data: 296400.TI
11/12/90 21:06:00
Sample: 14A
Conds.: 1000MLS/1.0ML
Formula:
Submitted by: GANNETT

Instrument: FINN
Analyst: WSS

Weight: 0.000
Acct. No.: 296400

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

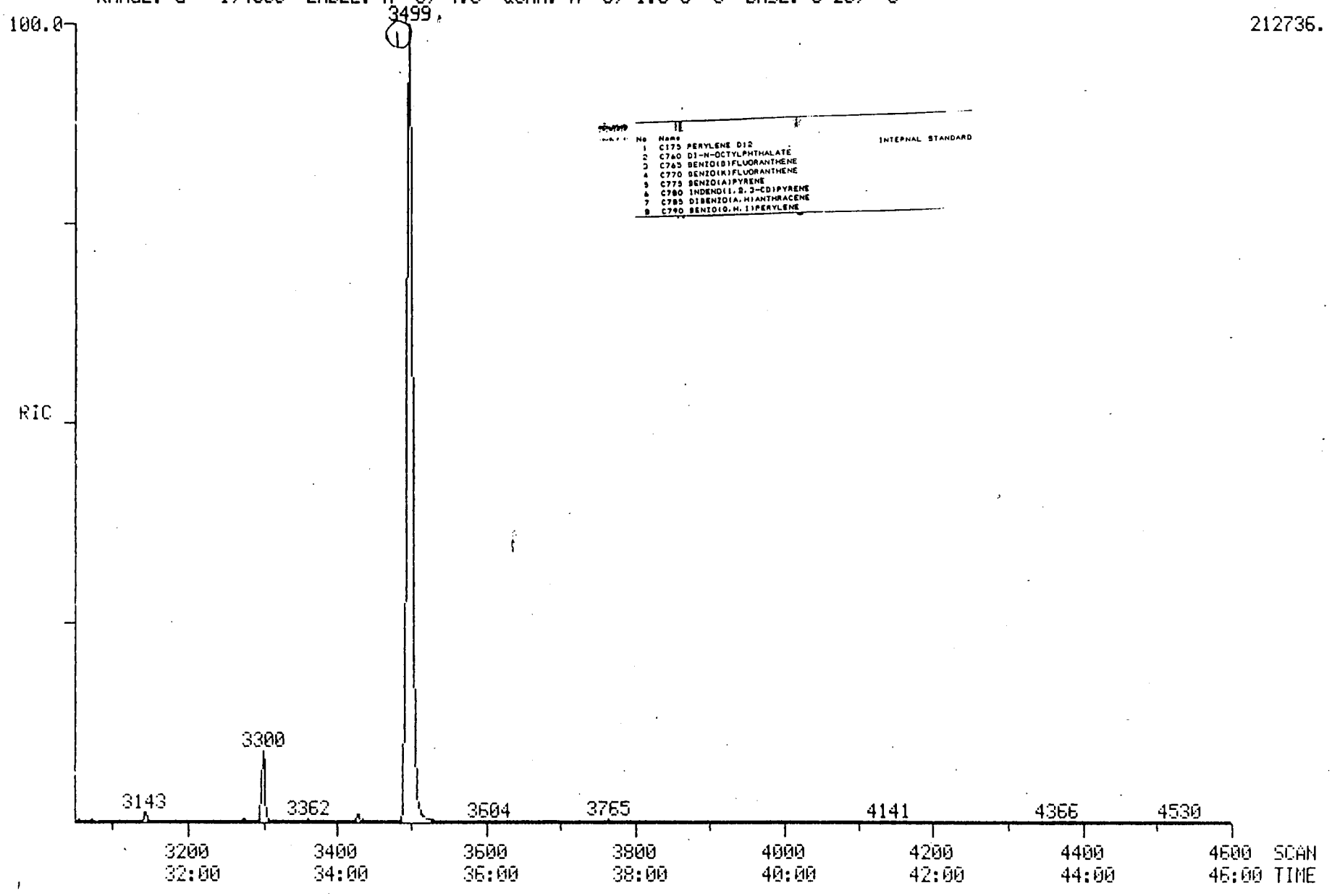
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	240	2958	29:35	1	1.000	A BB	1216020.	40.000 UG/ML	30.97	
2	NOT FOUND									
3	NOT FOUND									
4	149	2815	28:09	1	0.952	A BB	~~848.~~	~~0.045 UG/ML~~	~~0.03~~	NO WSS
5	NOT FOUND									
6	228	2957	29:34	1	1.000	A BB	~~336.~~	~~0.010 UG/ML~~	~~0.01~~	NO WSS
7	149	2972	29:43	1	1.005	A BB	105952.	3.267 UG/ML	2.53	Yes WSS
8	228	2957	29:34	1	1.000	A BB	~~336.~~	~~0.010 UG/ML~~	~~0.01~~	NO WSS
9	244	2684	26:50	1	0.907	A BB	2464350.	85.837 UG/ML	66.45	Yes WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13		0.885						
3	26:23		0.891						
4	28:10	1.00	0.951	1.00	0.04	50.00	0.001	0.624	0.00
5	29:32		0.998						
6	29:35	1.00	0.999	1.00	0.01	50.00	0.000	1.078	0.00
7	29:44	1.00	1.004	1.00	3.27	50.00	0.070	1.067	0.07
8	29:35	1.00	0.999	1.00	0.01	50.00	0.000	1.078	0.00
9	26:51	1.00	0.907	1.00	85.84	50.00	1.621	0.944	1.72

RIC
11/12/90 21:06:00
SAMPLE: 14A
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296400 #1
CALI: 296400 #3

SCANS 3050 TO 4600



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000040

Quantitation Report File: 296400

000041

Data: 296400.TI
11/12/90 21:06:00
Sample: 14A
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296400

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3499	34:59	1	1.000	A BB	720263.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:54		0.911						
3	33:17		0.951						
4	33:25		0.954						
5	34:45		0.992						
6	41:32		1.186						
7	41:49		1.194						
8	43:34		1.244						

000042
SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

14B

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296401

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296401

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/12/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
103-33-3	Azobenzene (2)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U

SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

14B

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296401

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296401

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/12/90

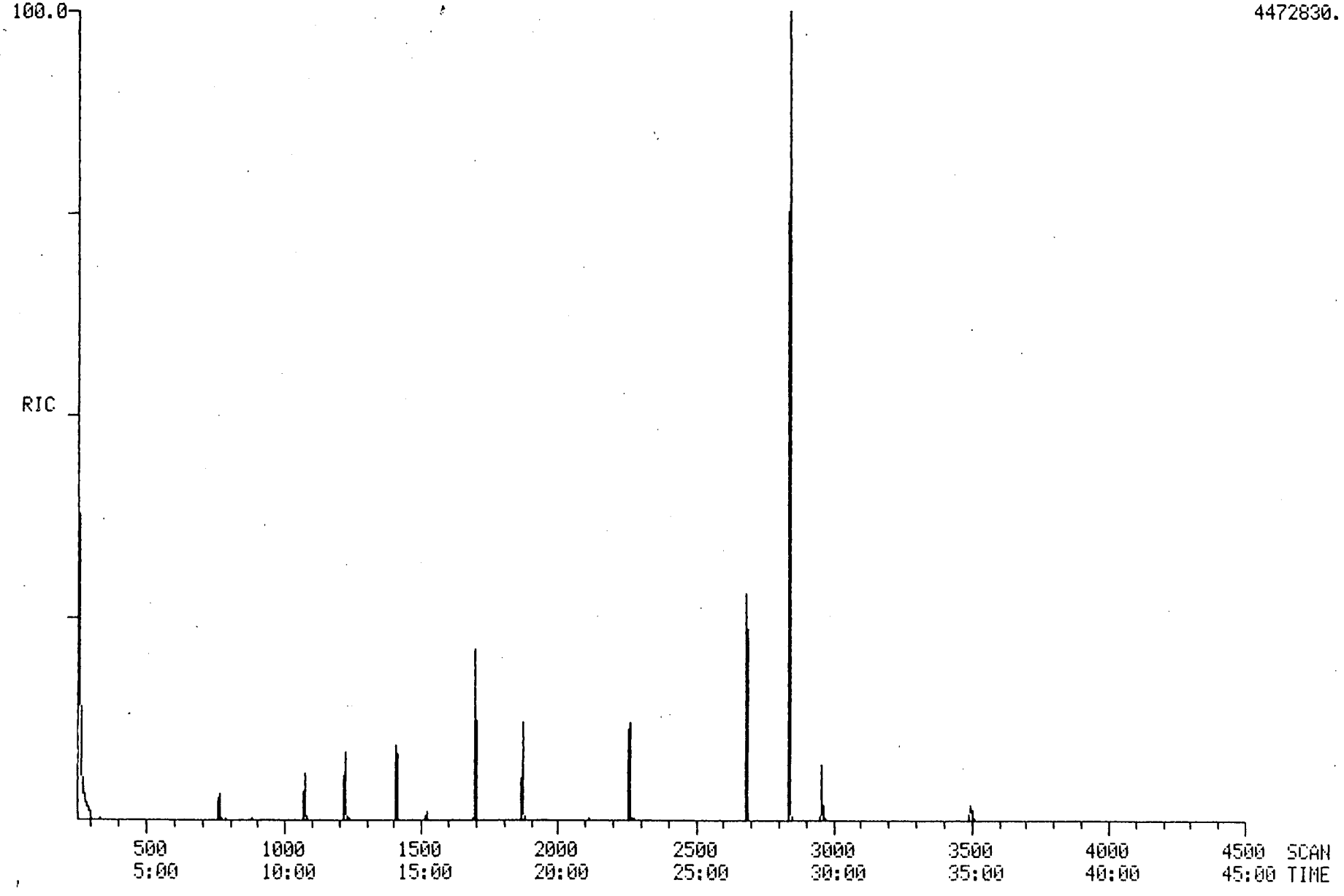
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

RIC
11/12/90 23:58:00
SAMPLE: 14B
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296401 #1
CALI: 296401 #3

SCANS 250 TO 4500

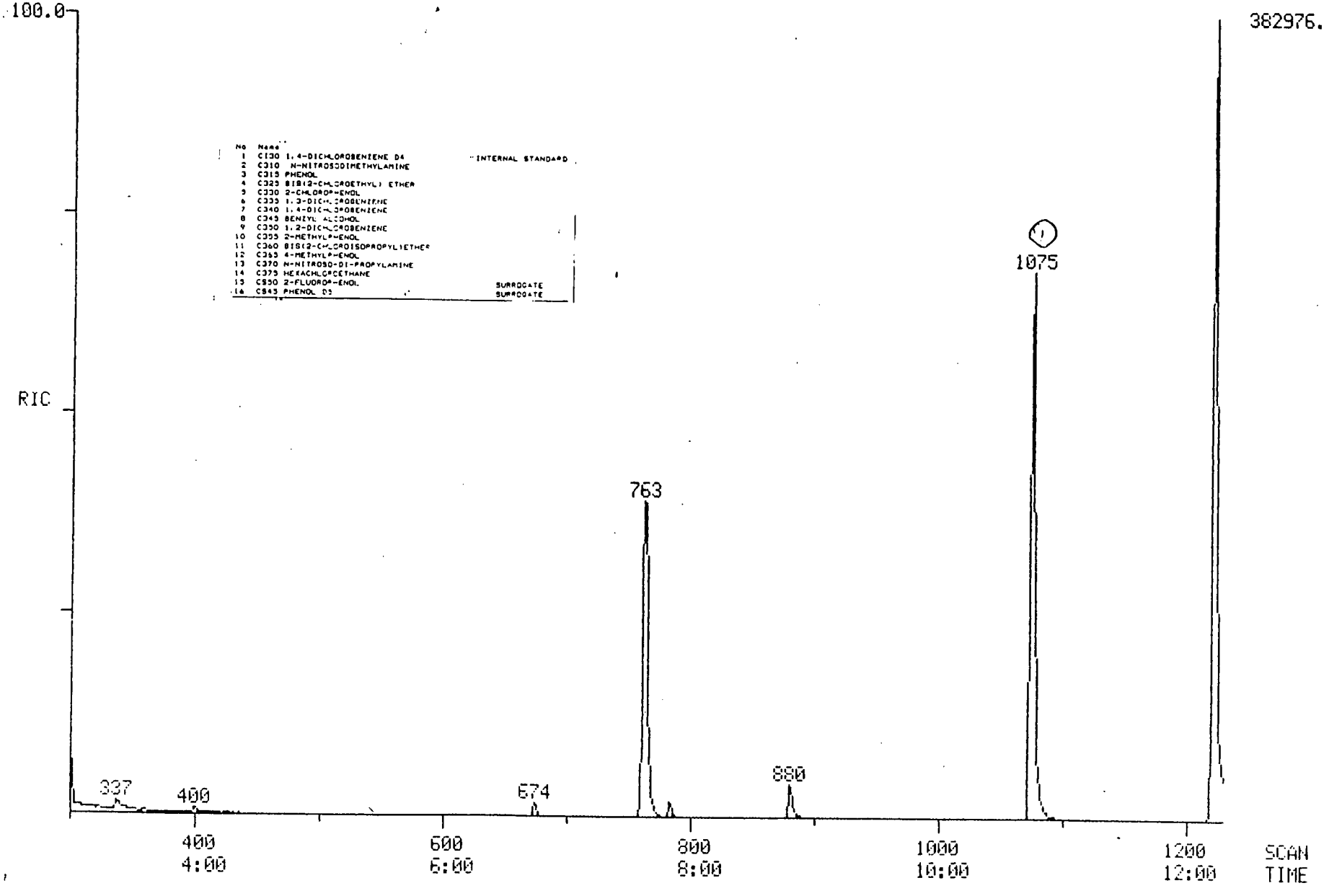


000044

RIC
11/12/90 23:58:00
SAMPLE: 14B
CONDS.: 1000MLS/1.0ML
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296401 #1
CALI: 296401 #3

SCANS 300 TO 1230



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C550 2-FLUOROPHENOL	SURROGATE
16	C545 PHENOL D5	SURROGATE

000045

Quantitation Report File: 296401

000046

Data: 296401.TI
11/12/90 23:58:00
Sample: 14B
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296401

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1075	10:45	1	1.000	A BB	205952.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								

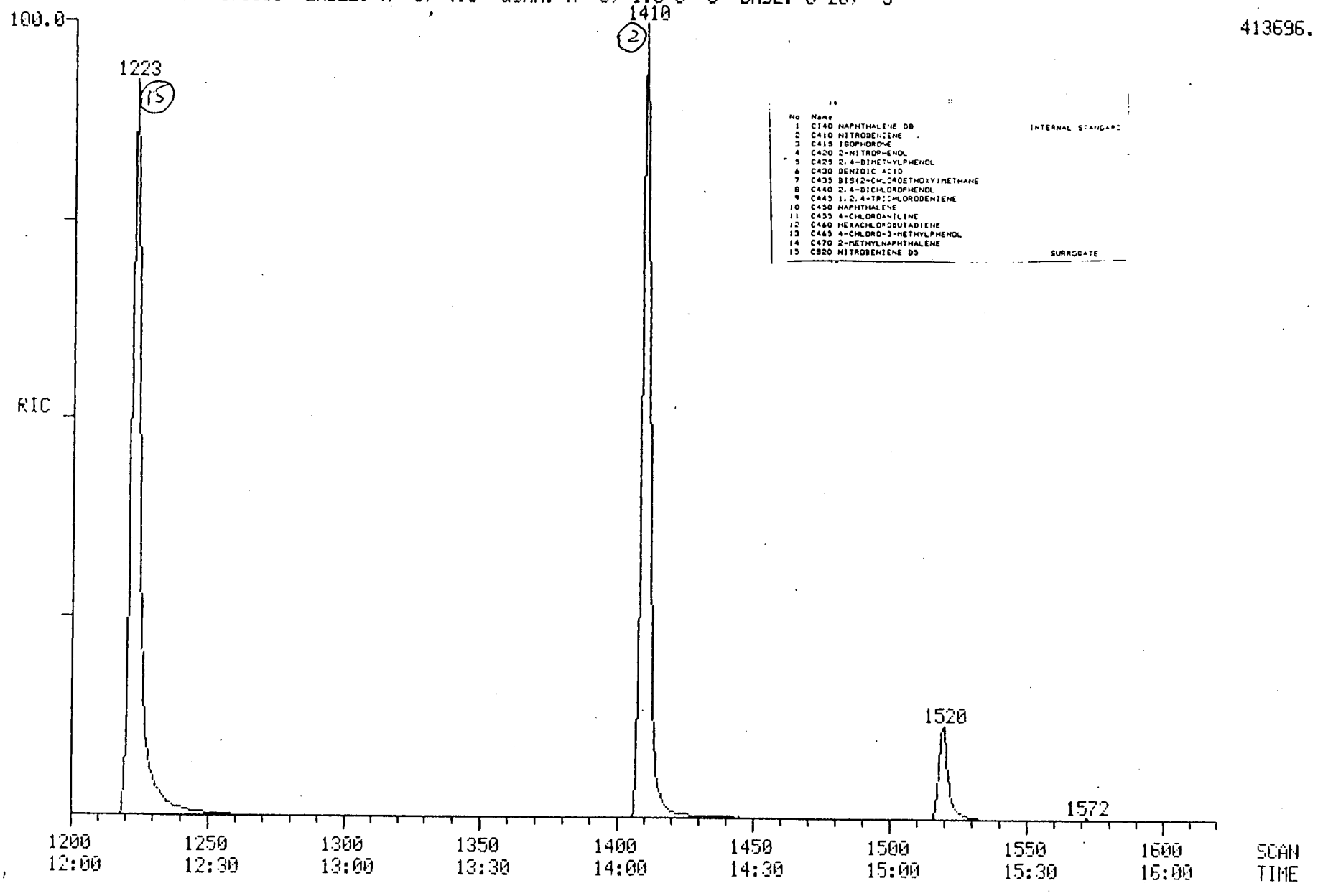
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:29		0.324						
3	9:56		0.923						
4	10:08		0.941						
5	10:12		0.948						
6	10:36		0.985						
7	10:48		1.004						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11		1.040						
9	11:11		1.040						
10	11:31		1.071						
11	11:38		1.081						
12	11:56		1.110						
13	11:55		1.107						
14	12:05		1.123						
15	7:16		0.675						
16	9:54		0.920						

RIC
11/12/90 23:58:00
SAMPLE: 14B
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296401 #1
CALI: 296401 #3

SCANS 1200 TO 1620



413696.

No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C820 NITROBENZENE D5	SURROGATE

000048

Quantitation Report File: 296401

000049

Data: 296401.TI
11/12/90 23:58:00
Sample: 14B
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296401

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1410	14:06	1	1.000	A BB	813344.	40.000 UG/ML	36.76
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	82	1223	12:14	1	0.867	A BB	581424.	68.823 UG/ML	63.24 yes WSS

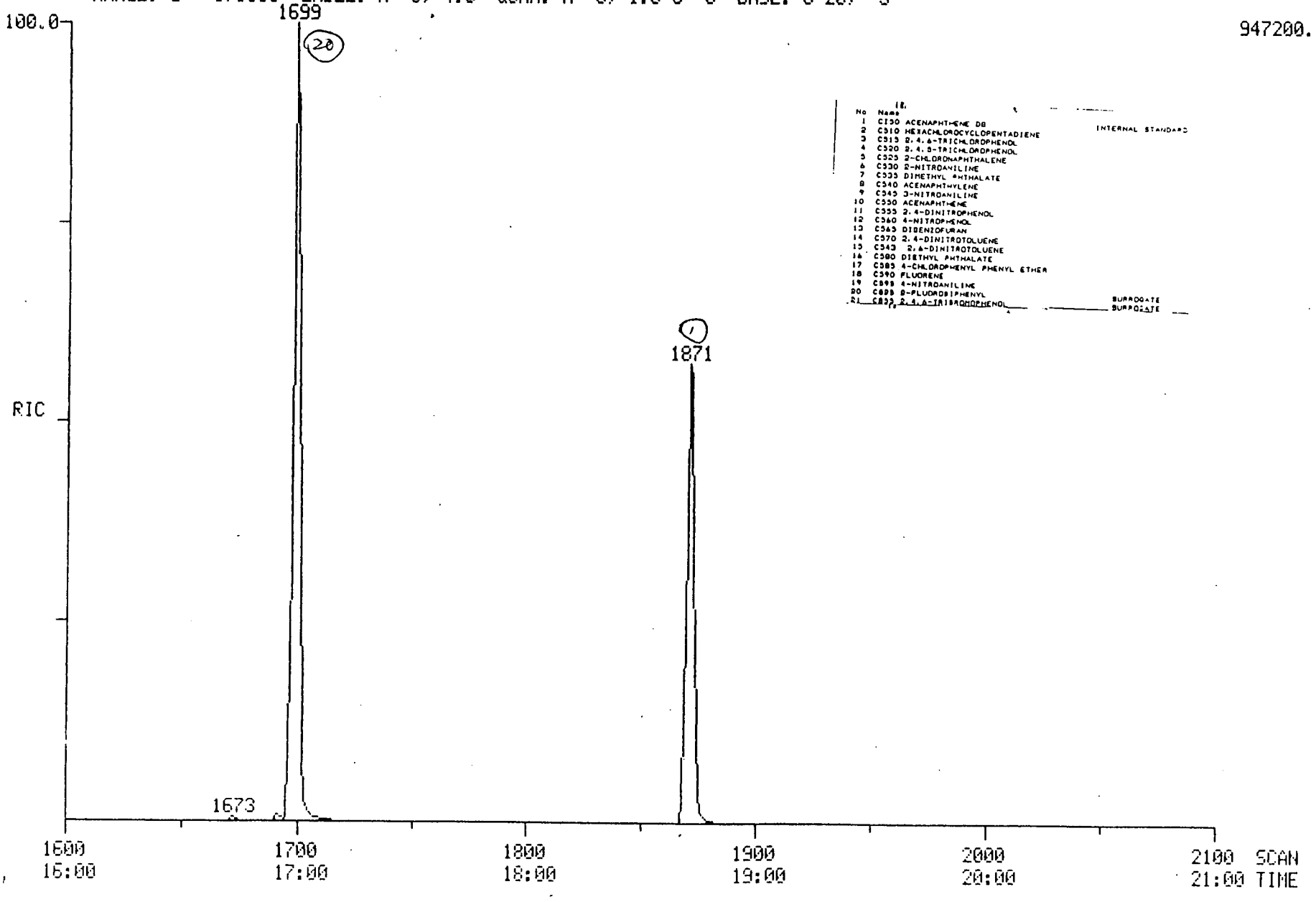
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17		0.871						
3	12:57		0.918						
4	13:08		0.931						
5	13:20		0.945						
6	13:48		0.978						
7	13:34		0.962						
8	13:47		0.977						
9	13:59		0.991						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:10		1.004						
11	14:21		1.017						
12	14:31		1.029						
13	15:41		1.112						
14	16:00		1.134						
15	12:14	1.00	0.867	1.00	68.82	50.00	0.572	0.415	1.38

RIC
11/12/90 23:58:00
SAMPLE: 14B
CONDS.: 1000MLS/1.0ML
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296401 #1
CALI: 296401 #3

SCANS 1600 TO 2100



947200.

No	Name	
1	C190 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C575 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C600 2-FLUOROBIPHENYL	SURROGATE
21	C605 2,4,6-TRIBROMOPHENOL	SURROGATE

000051

Quantitation Report File: 296401

000052

Data: 296401.TI
11/12/90 23:58:00
Sample: 14B
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296401

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1871	18:43	1	1.000	A BB	518528.	40.000 UG/ML	33.62
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	172	1699	16:59	1	0.908	A BB	1160110.	78.977 UG/ML	66.38
21	NOT FOUND								

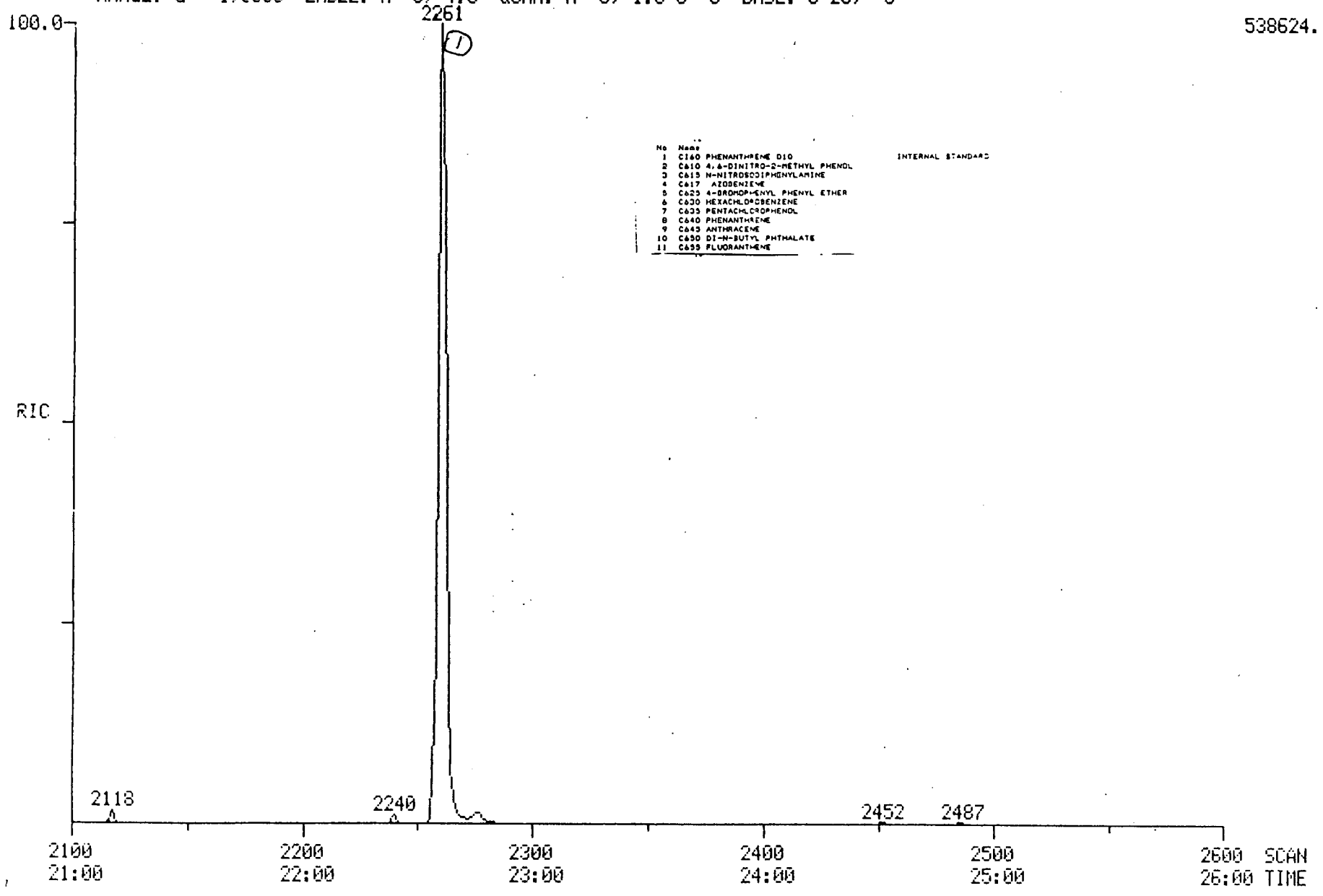
Yes WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25		0.877						
3	16:46		0.896						
4	16:52		0.901						
5	17:16		0.923						
6	17:35		0.939						
7	18:06		0.967						
8	18:21		0.980						
9	18:40		0.997						
10	18:49		1.005						
11	18:57		1.012						
12	19:11		1.025						
13	19:16		1.029						
14	19:17		1.030						
15	18:14		0.974						
16	19:58		1.066						
17	20:12		1.079						
18	20:10		1.077						
19	20:16		1.083						
20	17:00	1.00	0.908	1.00	78.98	50.00	1.790	1.133	1.58
21	20:47		1.111						

RIC
11/12/90 23:58:00
SAMPLE: 14B
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296401 #1
CALI: 296401 #3

SCANS 2100 TO 2600



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C643 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C659 FLUORANTHENE	

000054

Quantitation Report File: 296401

000055

Data: 296401.TI
11/12/90 23:58:00
Sample: 14B
Conds.: 1000MLS/1.0ML
Formula:
Submitted by: GANNETT

Instrument: FINN
Analyst: WSS

Weight: 0.000
Acct. No.: 296401

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

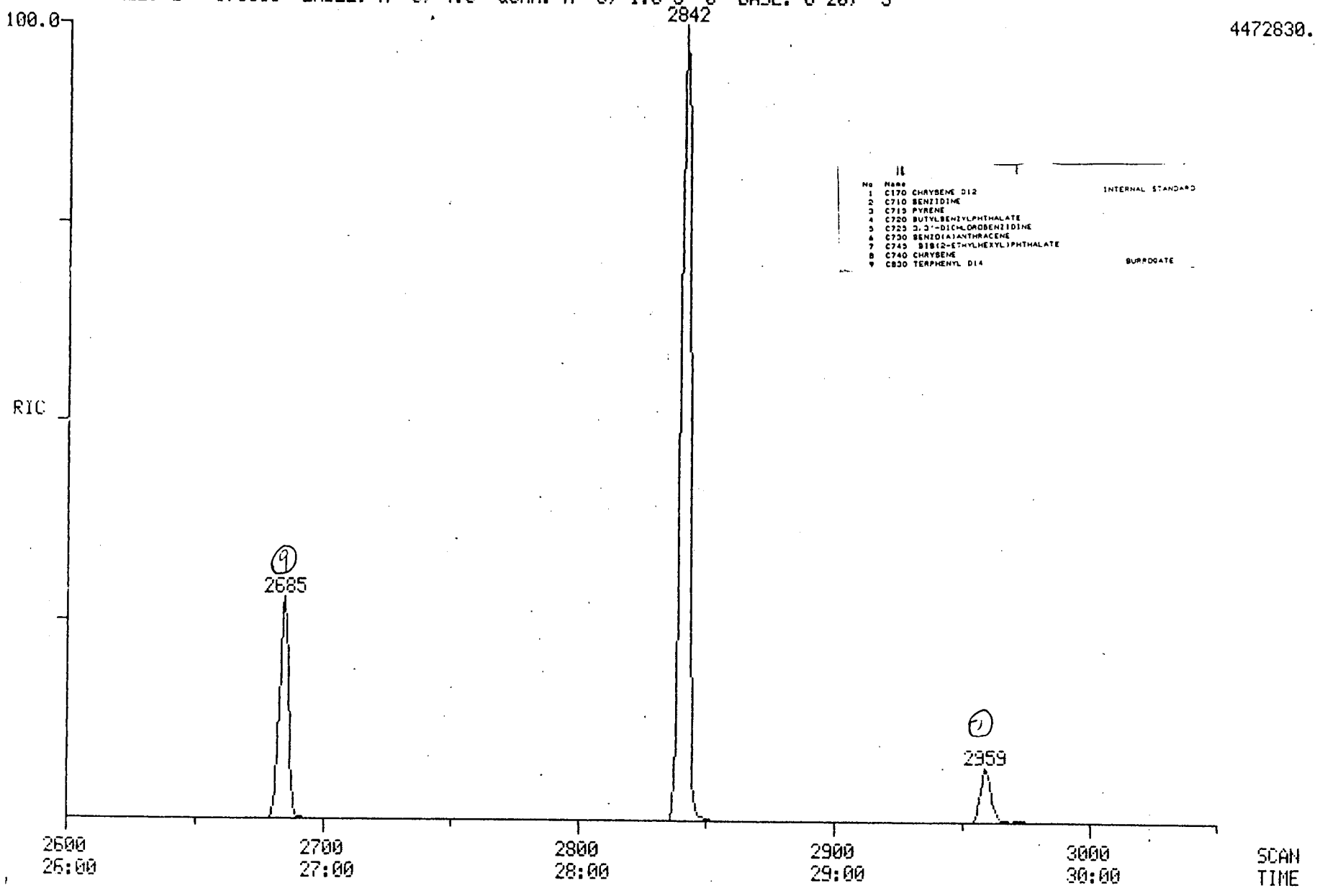
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2260	22:36	1	1.000	A BB	555098.	40.000 UG/ML	99.97
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	149	2424	24:14	1	1.073	A BB	~~464.~~	~~0.013 UG/ML~~	~~0.03~~ NO WSS
11	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20		0.900						
3	20:31		0.908						
4	20:37		0.912						
5	21:28		0.950						
6	21:35		0.955						
7	22:08		0.979						
8	22:41		1.003						
9	22:49		1.009						
10	24:14	1.00	1.072	1.00	0.01	50.00	0.001	2.547	0.00
11	25:48		1.141						

RIC
11/12/90 23:58:00
SAMPLE: 14B
CONDS.: 1000MLS/1.0ML
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296401 #1
CALI: 296401 #3

SCANS 2600 TO 3050



000056

Quantitation Report File: 296401

000057

Data: 296401.TI
11/12/90 23:58:00
Sample: 14B
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296401

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

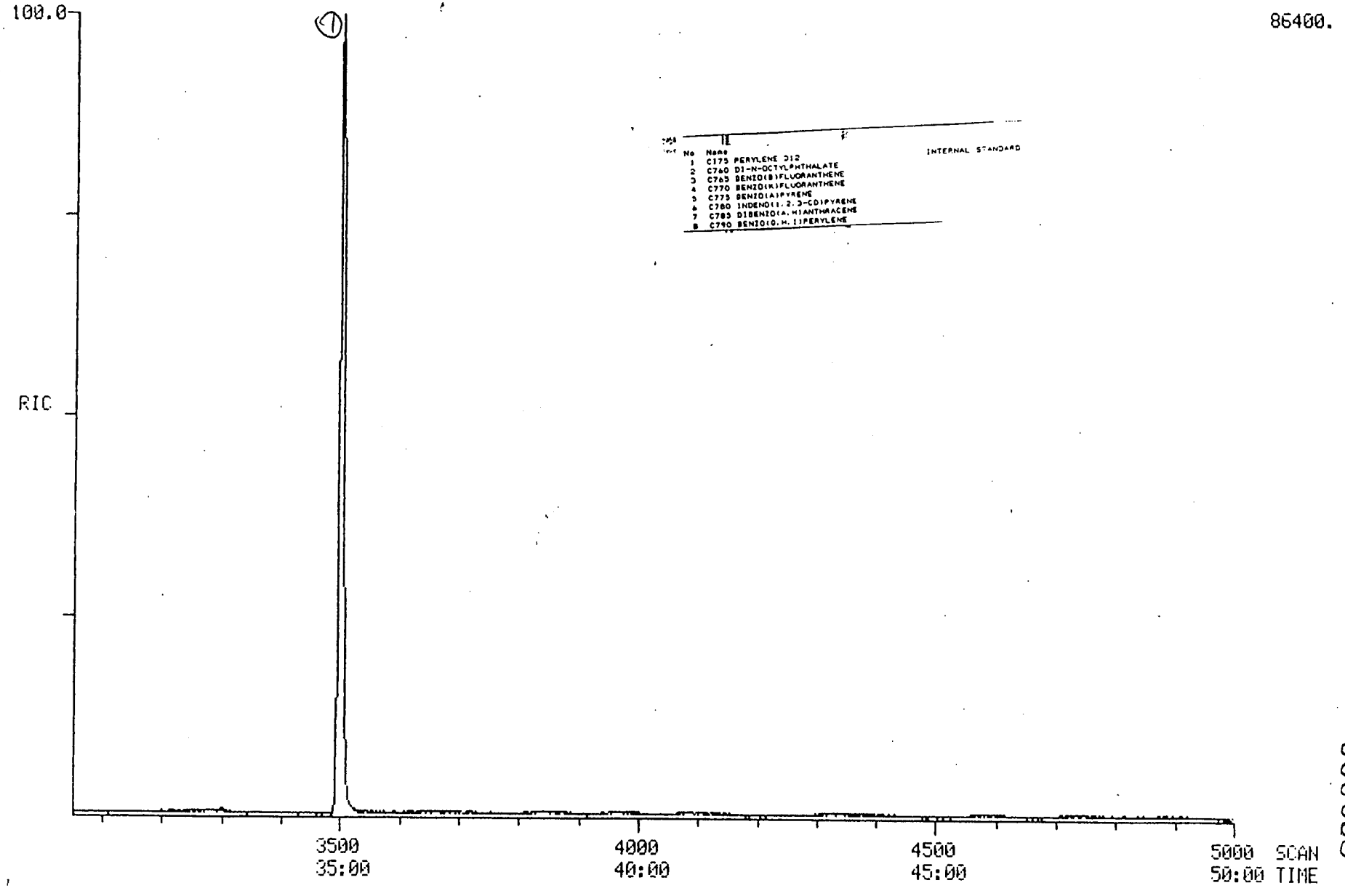
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2959	29:35	1	1.000	A BB	606183.	40.000 UG/ML	24.76
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	149	2973	29:44	1	1.005	A BB	~~26704.~~	~~1.652 UG/ML~~	~~1.02~~ NO WSS
8	NOT FOUND								
9	244	2684	26:50	1	0.907	A BB	1716100.	119.909 UG/ML	74.22 YES WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13		0.885						
3	26:23		0.891						
4	28:10		0.951						
5	29:32		0.998						
6	29:35		0.999						
7	29:44	1.00	1.004	1.00	1.65	50.00	0.035	1.067	0.03
8	29:35		0.999						
9	26:51	1.00	0.907	1.00	119.91	50.00	2.265	0.944	2.40

RIC
11/12/90 23:58:00
SAMPLE: 14B
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296401 #1
CALI: 296401 #3

SCANS 3050 TO 5000



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000058

Quantitation Report File: 296401

000059

Data: 296401.TI
11/12/90 23:58:00
Sample: 14B
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296401

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3499	34:59	1	1.000	A BB	333982.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:54		0.911						
3	33:17		0.951						
4	33:25		0.954						
5	34:45		0.992						
6	41:32		1.186						
7	41:49		1.194						
8	43:34		1.244						

000060
SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

14C

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296402

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296402

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
103-33-3	Azobenzene (2)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U

000061

SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

14C

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296402

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296402

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

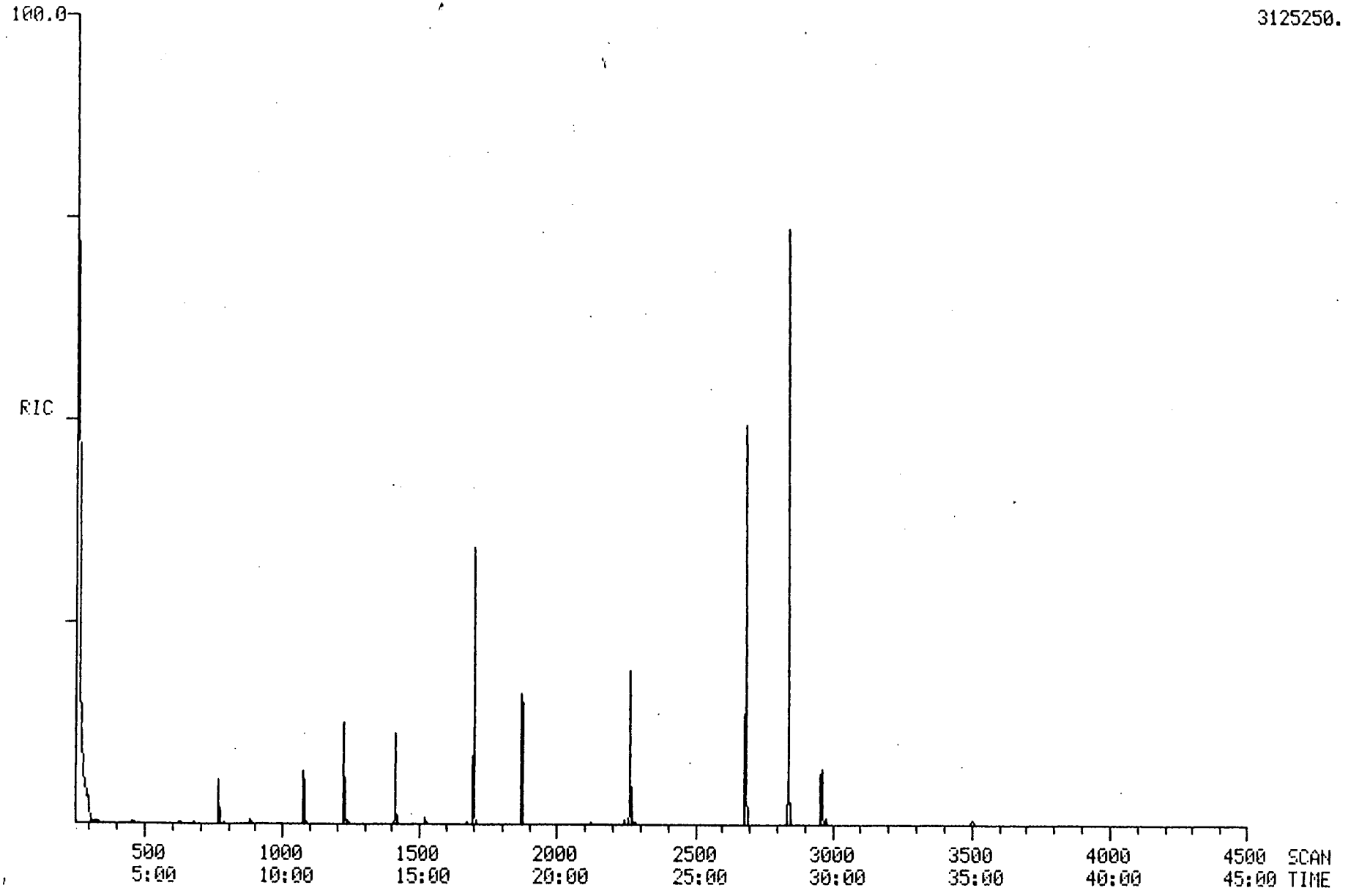
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	4	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

RIC
11/13/90 0:53:00
SAMPLE: 14C
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402 #1
CALI: 296402 #3

SCANS 250 TO 4500

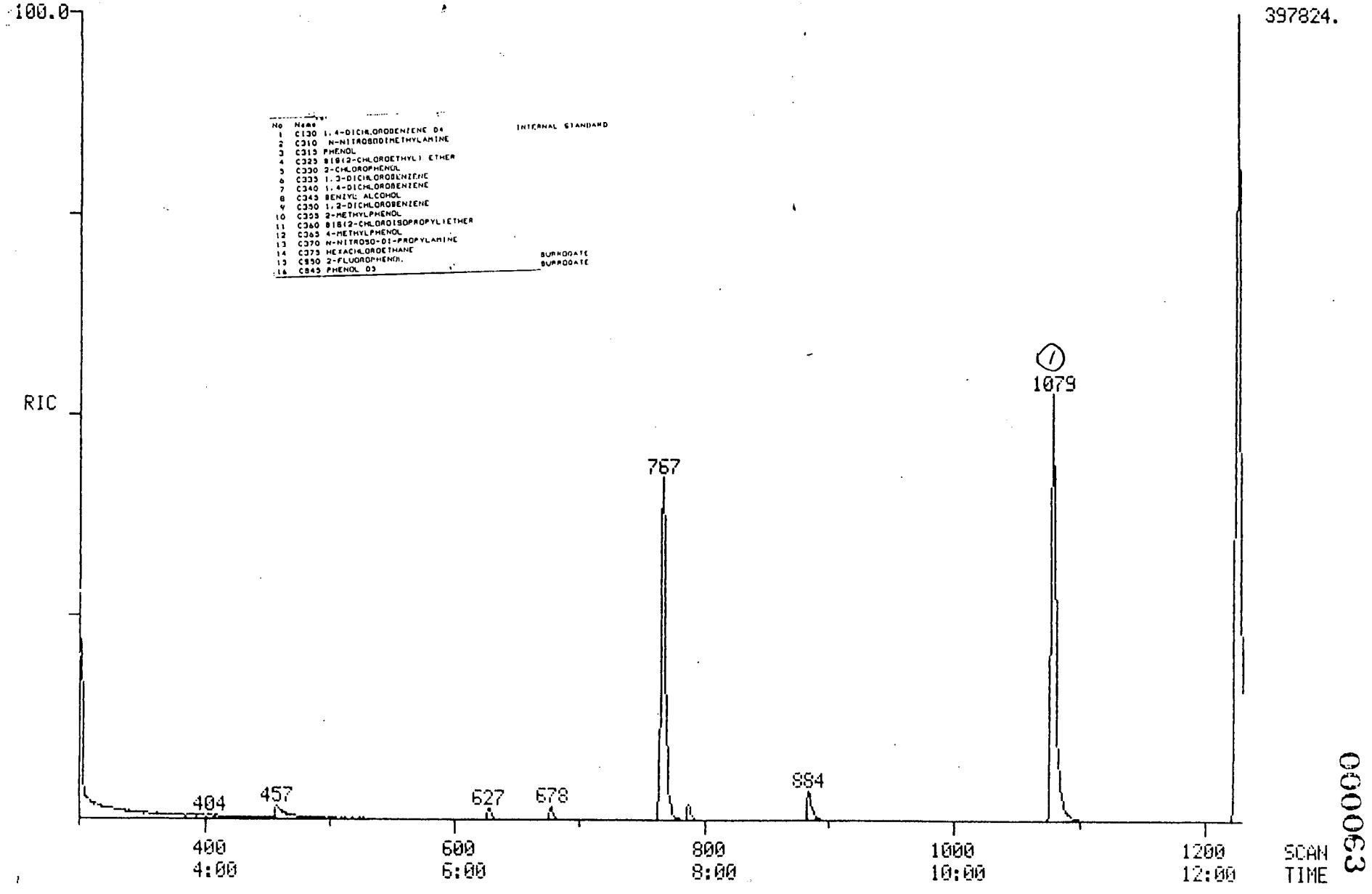


000062

RIC
11/13/90 0:53:00
SAMPLE: 14C
CONDS.: 1000ML5/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402 #1
CALI: 296402 #3

SCANS 300 TO 1230



000063

Quantitation Report File: 296402

000064

Data: 296402.TI
11/13/90 0:53:00
Sampl : 14C
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296402

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1078	10:47	1	1.000	A BB	192499.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:29		0.324						
3	9:56		0.923						
4	10:08		0.941						
5	10:12		0.948						
6	10:36		0.985						
7	10:48		1.004						

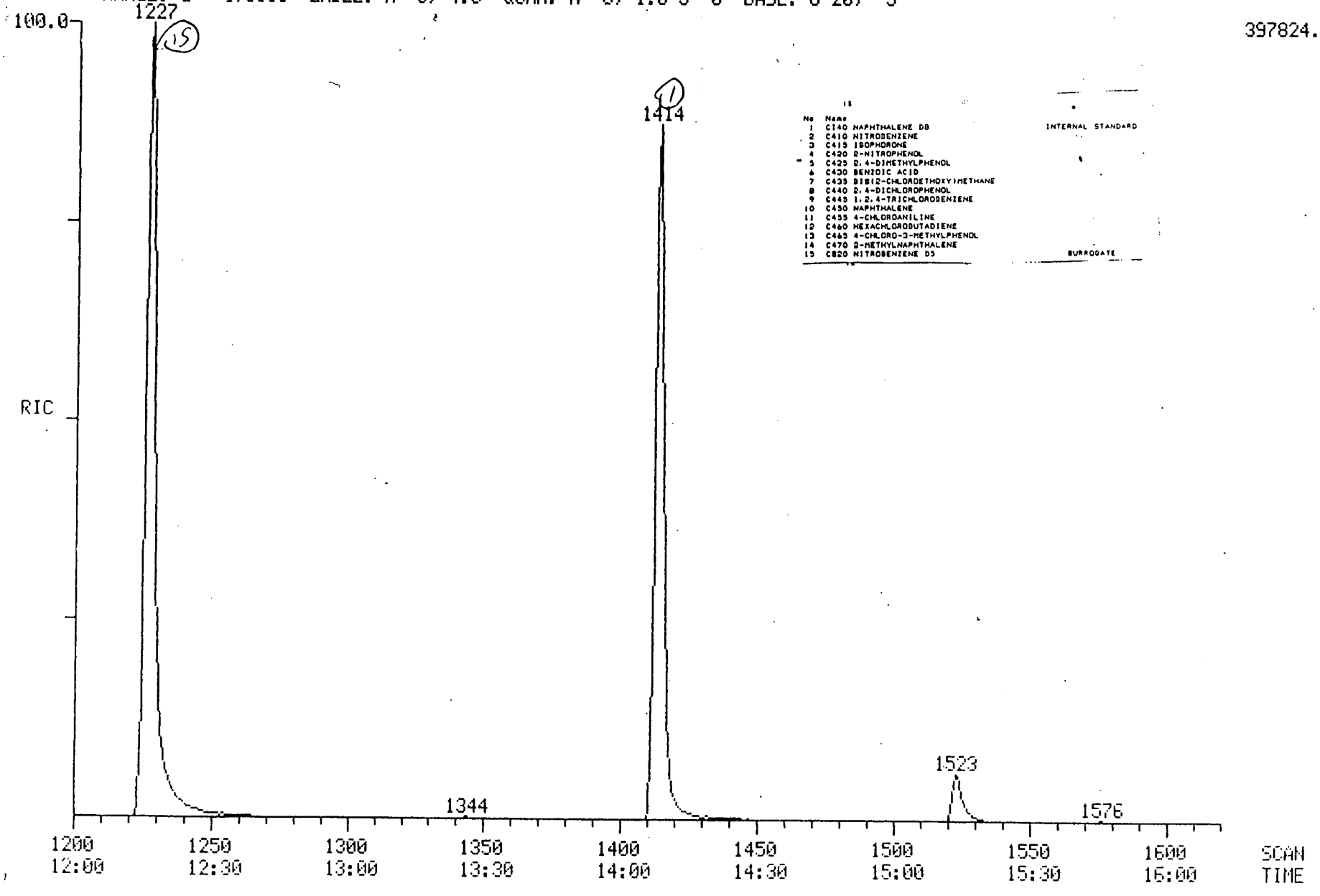
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11		1.040						
9	11:11		1.040						
10	11:31		1.071						
11	11:38		1.081						
12	11:56		1.110						
13	11:55		1.107						
14	12:05		1.123						
15	7:16		0.675						
16	9:54		0.920						

RIC
11/13/90 0:53:00
SAMPLE: 14C
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402 #1
CALI: 296402 #3

SCANS 1200 TO 1620

397824.



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C820 NITROBENZENE D5	SURROGATE

000096

Quantitation Report File: 296402

000067

Data: 296402.TI
11/13/90 0:53:00
Sample: 14C
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296402

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1414	14:08	1	1.000	A BB	746250.	40.000 UG/ML	33.28
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	82	1227	12:16	1	0.868	A BB	621652.	80.200 UG/ML	66.72

Yes WSS

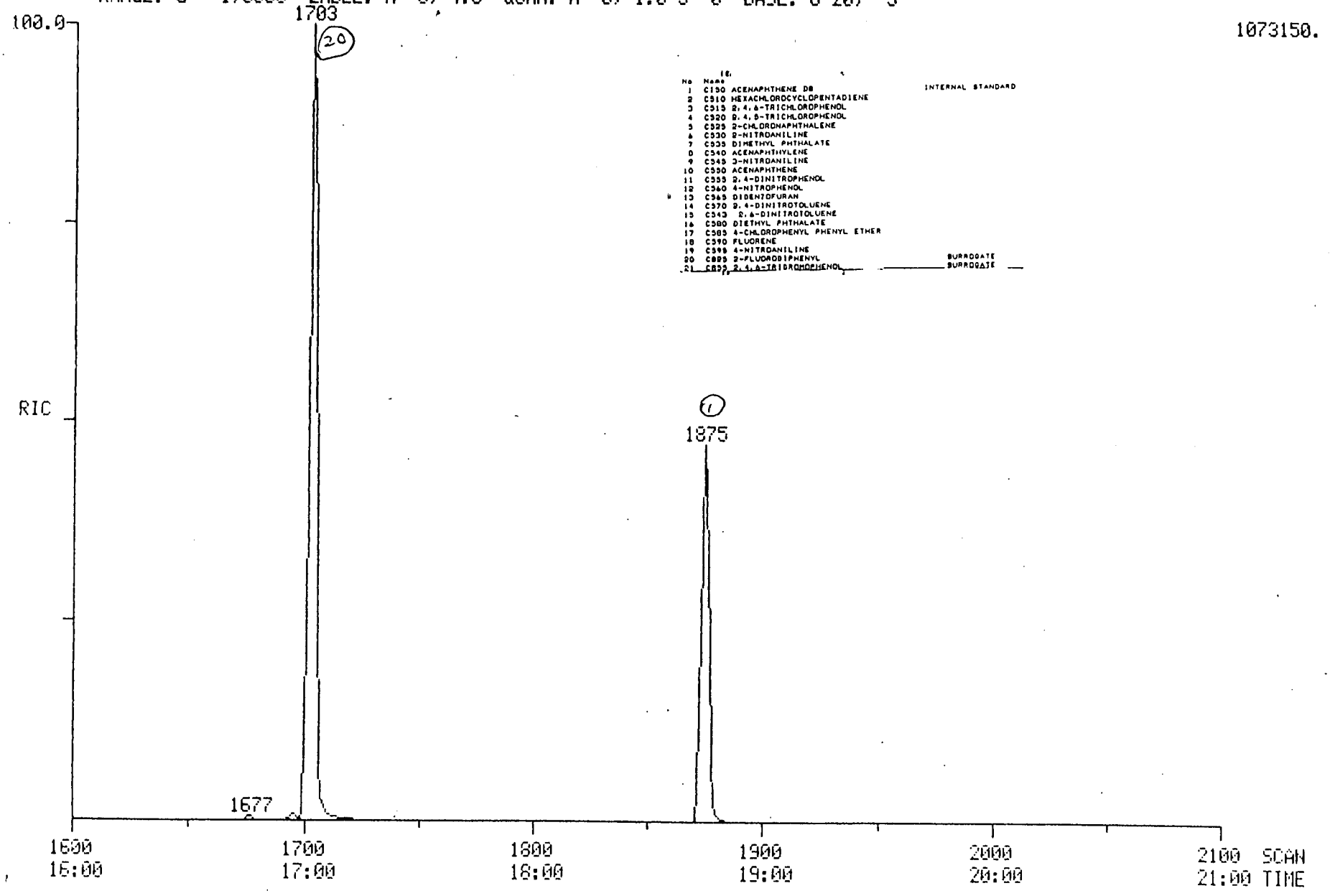
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17		0.871						
3	12:57		0.918						
4	13:08		0.931						
5	13:20		0.945						
6	13:48		0.978						
7	13:34		0.962						
8	13:47		0.977						
9	13:59		0.991						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:10		1.004						
11	14:21		1.017						
12	14:31		1.029						
13	15:41		1.112						
14	16:00		1.134						
15	12:14	1.00	0.867	1.00	80.20	50.00	0.666	0.415	1.60

RIC
11/13/90 0:53:00
SAMPLE: 14C
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402 #1
CALI: 296402 #3

SCANS 1600 TO 2100



1073150.

No	Name		
1	C150 ACENAPHTHENE D8		INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE		
3	C515 2,4,6-TRICHLOROPHENOL		
4	C520 2,4,5-TRICHLOROPHENOL		
5	C525 2-CHLORONAPHTHALENE		
6	C530 2-NITROANILINE		
7	C535 DIMETHYL PHTHALATE		
8	C540 ACENAPHTHYLENE		
9	C545 3-NITROANILINE		
10	C550 ACENAPHTHENE		
11	C555 2,4-DINITROPHENOL		
12	C560 4-NITROPHENOL		
13	C565 DIBENZOFURAN		
14	C570 2,4-DINITROTOLUENE		
15	C573 2,6-DINITROTOLUENE		
16	C580 DIETHYL PHTHALATE		
17	C585 4-CHLOROPHENYL PHENYL ETHER		
18	C590 FLUORENE		
19	C595 4-NITROANILINE		
20	C625 2-FLUOROBIPHENYL		SURROGATE
21	C630 2,4,6-TRIBROMOPHENOL		SURROGATE

000069

Quantitation Report File: 296402

Data: 296402.TI
11/13/90 0:53:00
Sample: 14C
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296402

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

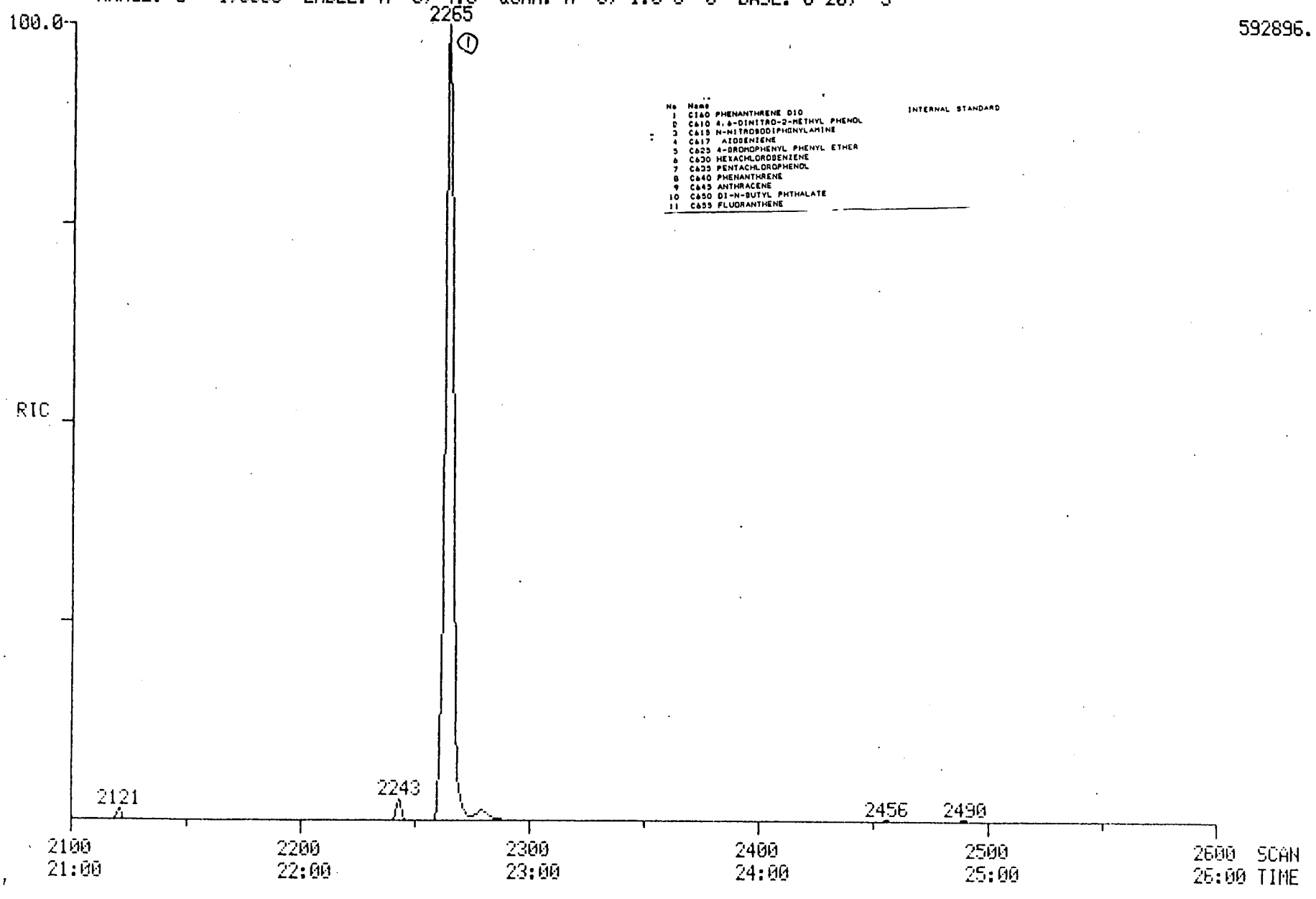
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1875	18:45	1	1.000	A BB	479584.	40.000 UG/ML	29.19
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	172	1703	17:02	1	0.908	A BB	1318190.	97.026 UG/ML	70.81 Yes WSS
21	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25		0.877						
3	16:46		0.896						
4	16:52		0.901						
5	17:16		0.923						
6	17:35		0.939						
7	18:06		0.967						
8	18:21		0.980						
9	18:40		0.997						
10	18:49		1.005						
11	18:57		1.012						
12	19:11		1.025						
13	19:16		1.029						
14	19:17		1.030						
15	18:14		0.974						
16	19:58		1.066						
17	20:12		1.079						
18	20:10		1.077						
19	20:16		1.083						
20	17:00	1.00	0.908	1.00	97.03	50.00	2.199	1.133	1.94
21	20:47		1.111						

RIC
11/13/90 0:53:00
SAMPLE: 14C
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402 #1
CALI: 296402 #3

SCANS 2100 TO 2600



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000072

Quantitation Report File: 296402

000073

Data: 296402.TI
11/13/90 0:53:00
Sample: 14C
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296402

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

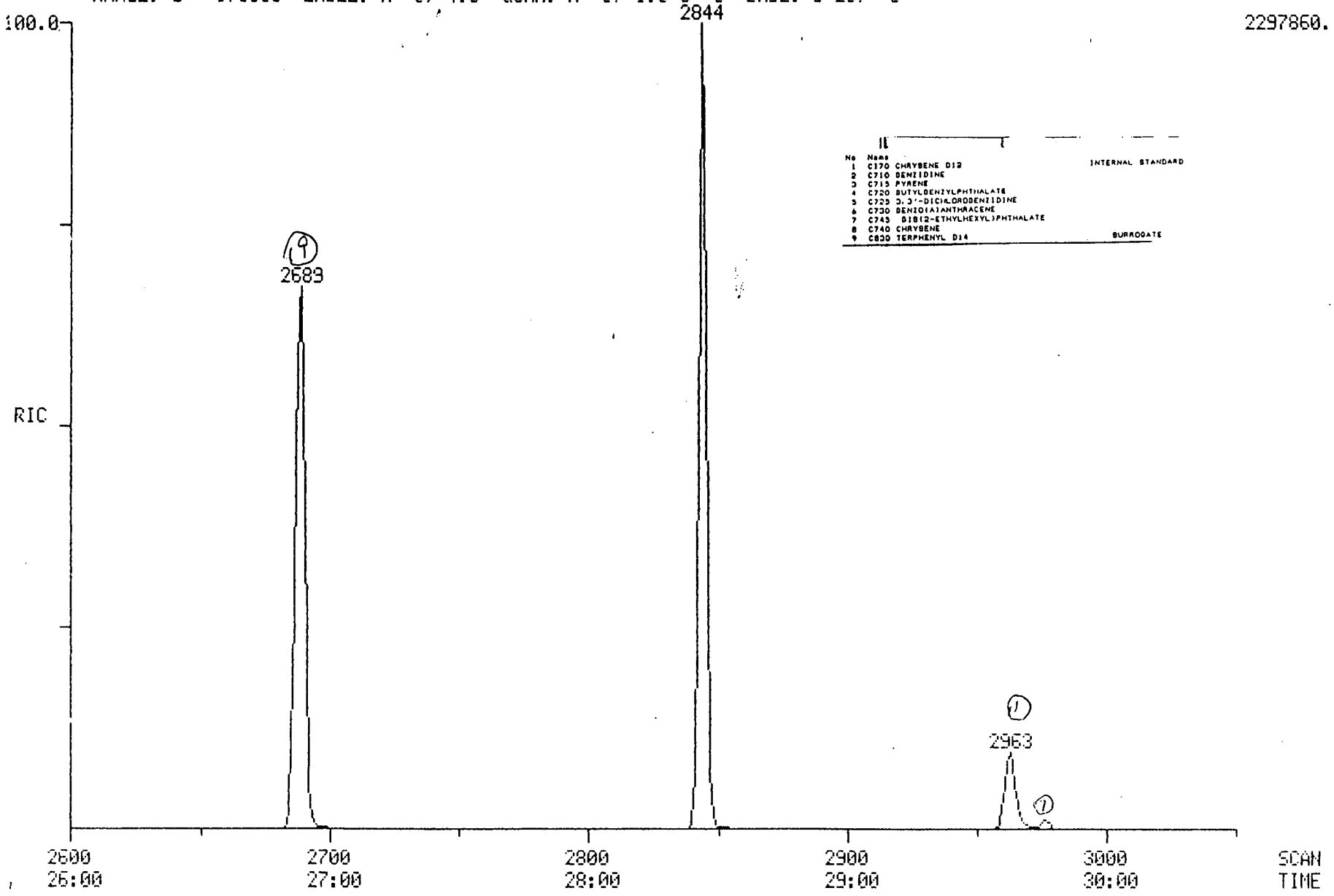
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2264	22:38	1	1.000	A BV	601861.	40.000 UG/ML	99.88
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	149	2428	24:17	1	1.072	A BB	~~1920.~~	~~0.050 UG/ML~~	~~0.13~~ NO WSS
11	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20		0.900						
3	20:31		0.908						
4	20:37		0.912						
5	21:28		0.950						
6	21:35		0.955						
7	22:08		0.979						
8	22:41		1.003						
9	22:49		1.009						
10	24:14	1.00	1.072	1.00	0.05	50.00	0.003	2.547	0.00
11	25:48		1.141						

RIC
11/13/90 0:53:00
SAMPLE: 14C
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402 #1
CALI: 296402 #3

SCANS 2600 TO 3050



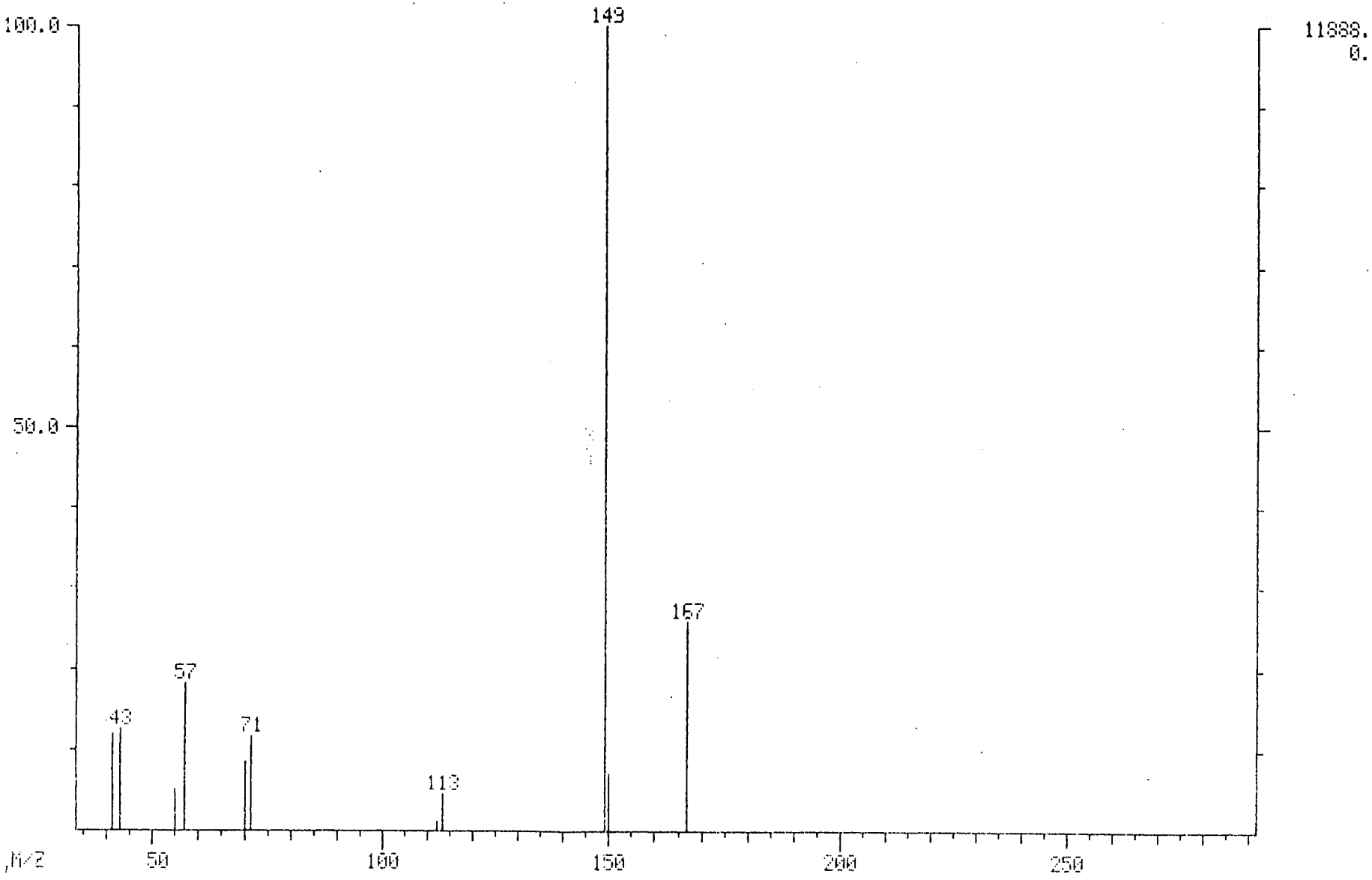
No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000074

MASS SPECTRUM
11/13/90 0:53:00 + 29:46
SAMPLE: 14C
CONDS.: 1000MLS/1.0ML
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: 296402 #2977
CALI: 296402 #3

BASE M/Z: 149
RIC: 24576.



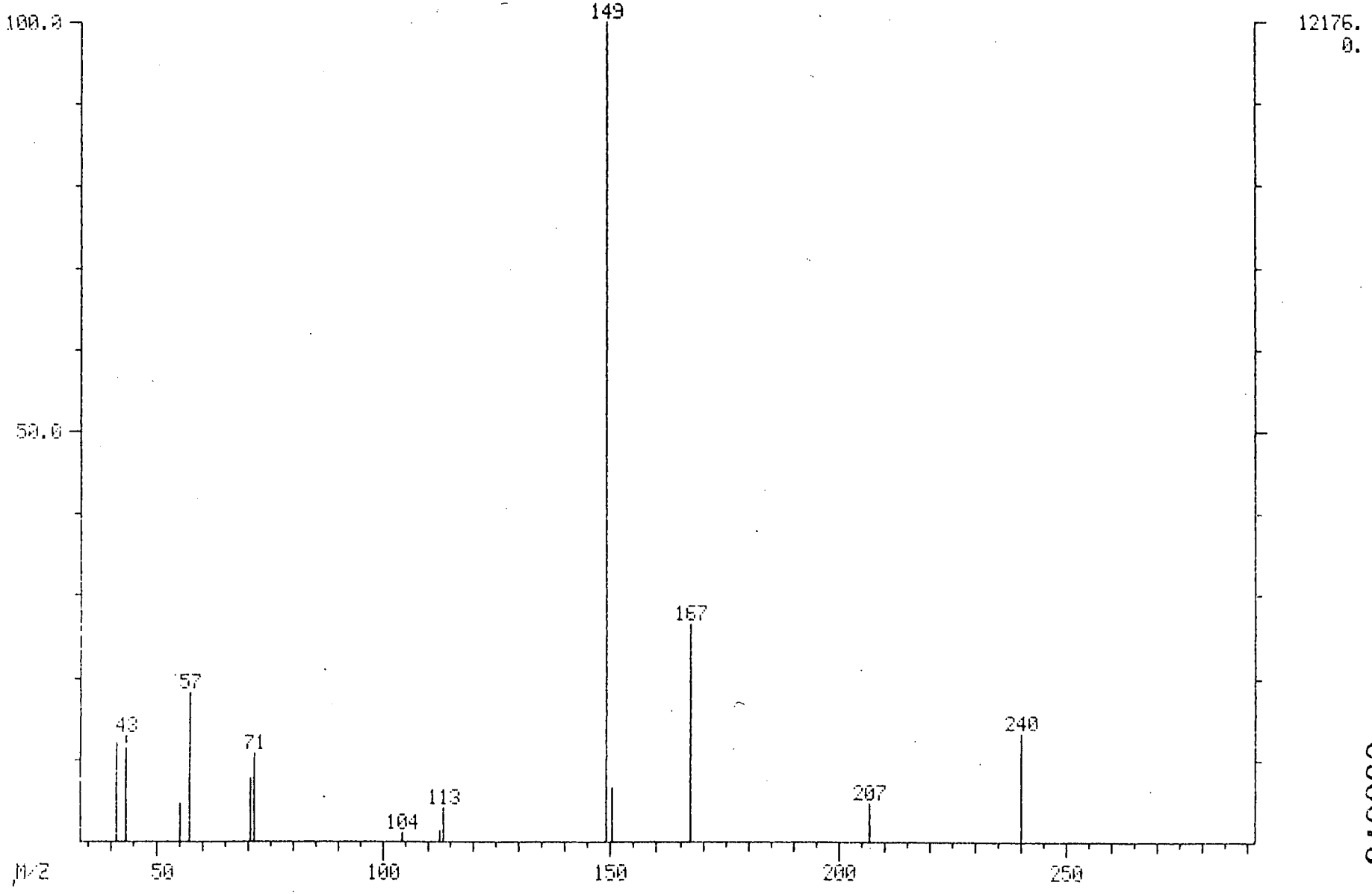
000025

MASS SPECTRUM
11/13/90 0:53:00 + 29:46
SAMPLE: 14C
CONDS.: 1000MLS/1.0ML
TEMP: 290 DEG. C

DATA: 296402 #2977
CALI: 296402 #3

BASE M/Z: 149
RIC: 27392.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE ,

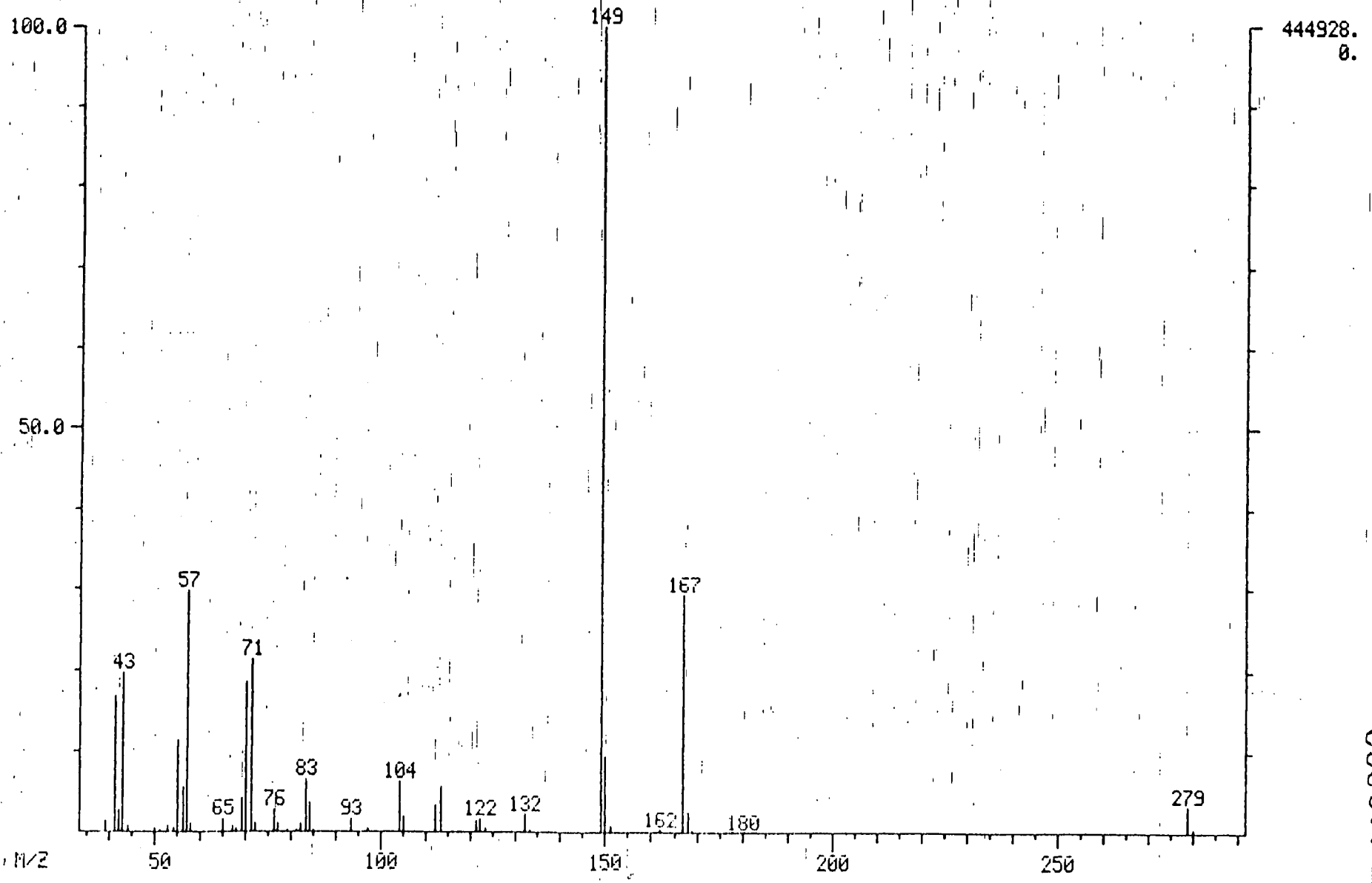


000076

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1454080.



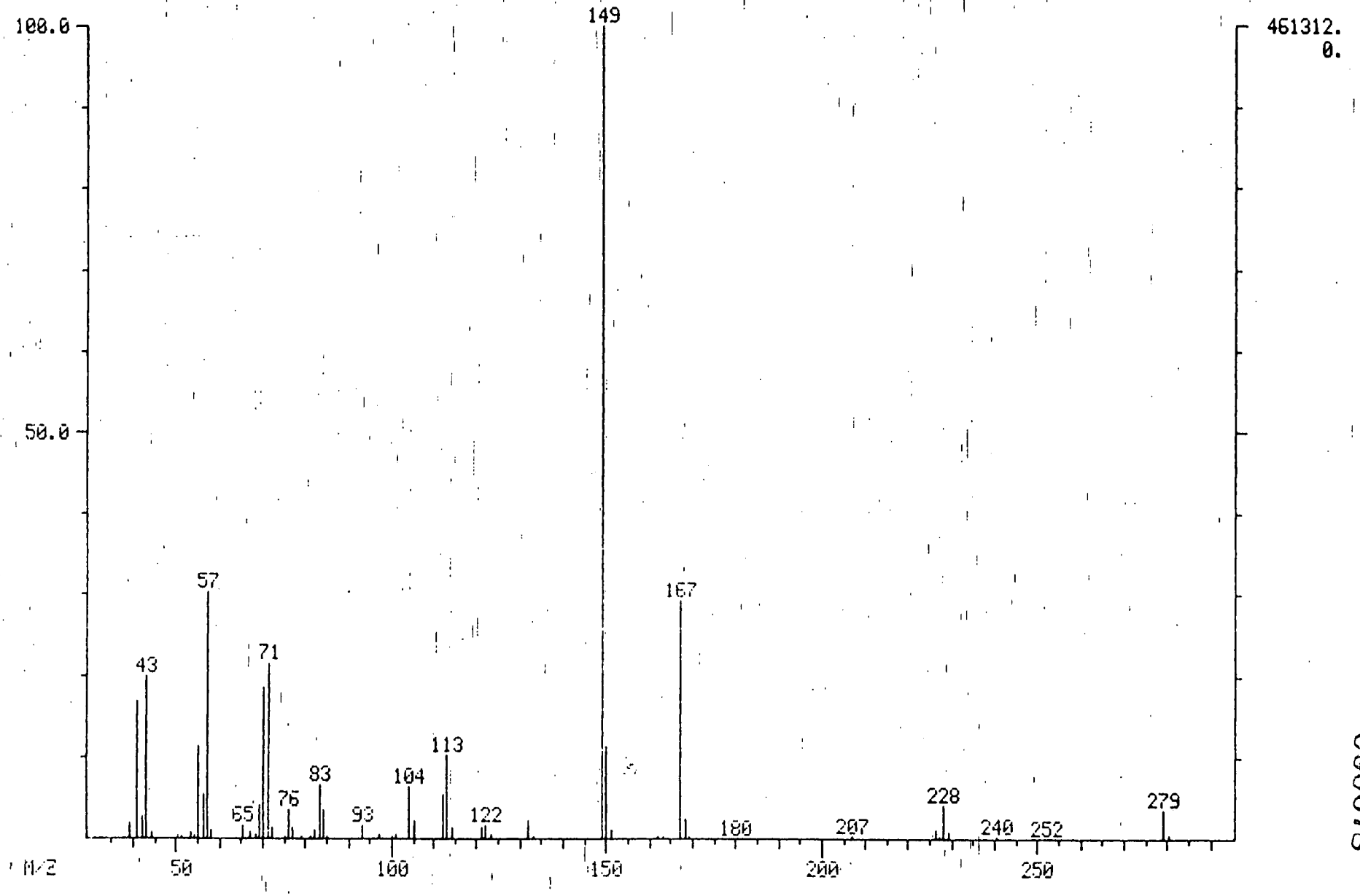
000077

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1609730.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE



000078

Quantitation Report File: 296402

000079

Data: 296402.TI
11/13/90 0:53:00
Sample: 14C
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296402

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

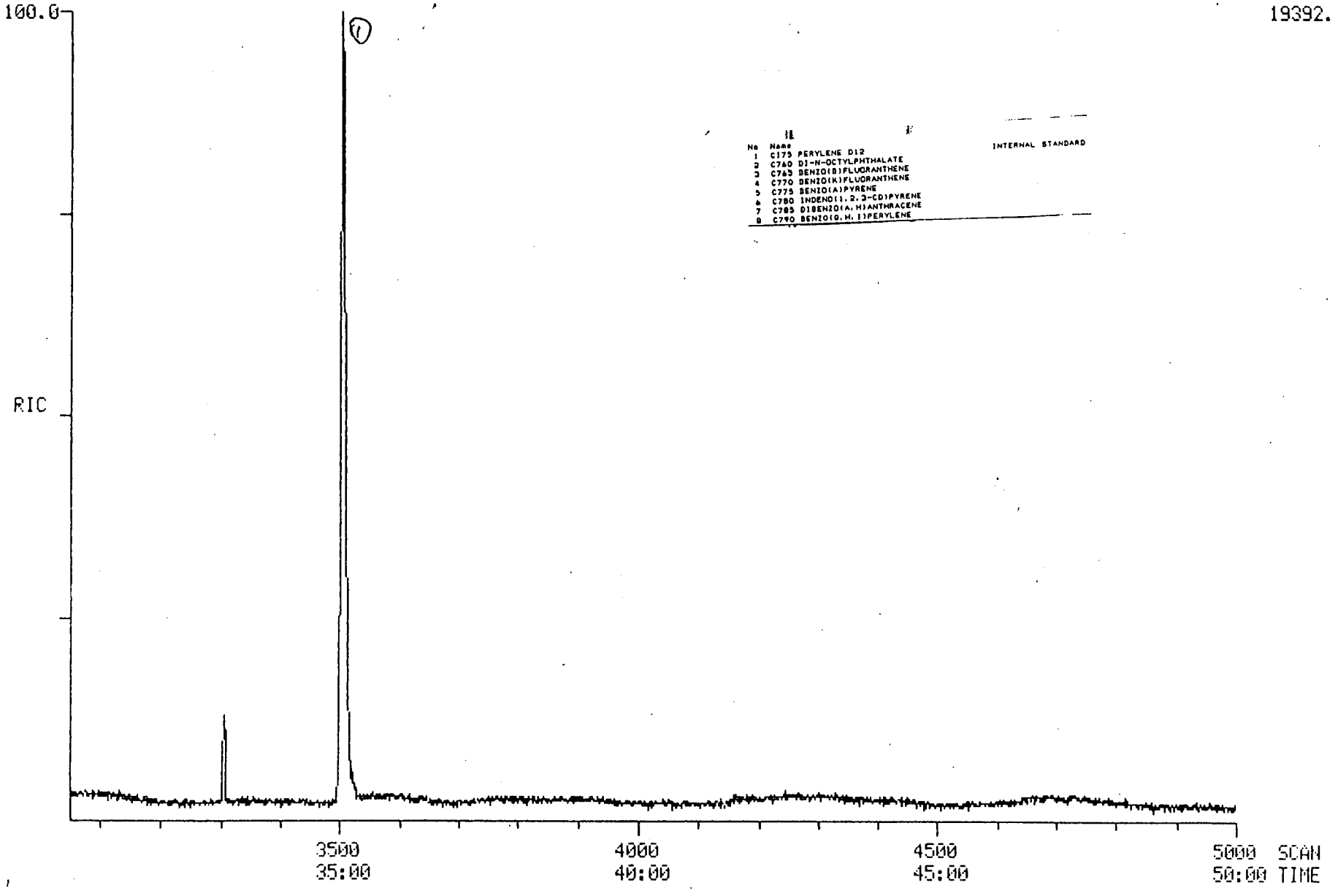
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2963	29:38	1	1.000	A BB	473561.	40.000 UG/ML	16.58
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	149	2977	29:46	1	1.005	A BB	47312.	3.746 UG/ML	1.55 Yes. WSS
8	NOT FOUND								
9	244	2688	26:53	1	0.907	A BB	2207740.	197.464 UG/ML	81.86 Yes WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13		0.885						
3	26:23		0.891						
4	28:10		0.951						
5	29:32		0.998						
6	29:35		0.999						
7	29:44	1.00	1.004	1.00	3.75	50.00	0.080	1.067	0.07
8	29:35		0.999						
9	26:51	1.00	0.907	1.00	197.46	50.00	3.730	0.944	3.95

RIC
11/13/90 0:53:00
SAMPLE: 14C
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402 #1
CALI: 296402 #3

SCANS 3050 TO 5000



000080

Quantitation Report File: 296402

000081

Data: 296402.TI
11/13/90 0:53:00
Sample: 14C
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296402

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3504	35:02	1	1.000	A BB	103929.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:54		0.911						
3	33:17		0.951						
4	33:25		0.954						
5	34:45		0.992						
6	41:32		1.186						
7	41:49		1.194						
8	43:34		1.244						

SAMPLE NO.

29C

1X
ORGANICS ANALYSIS DATA SHEET

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296403

Sample wt/vol: 930 (g/mL) ML Lab File ID: 296403

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/07/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
39638-32-9	bis(2-Chloroisopropyl)Ether	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
87-68-3	Hexachlorobutadiene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
91-58-7	2-Chloronaphthalene	11	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
83-32-9	Acenaphthene	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
103-33-3	Azobenzene (2)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
92-87-5	Benzidine	54	U

SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

29C

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296403

Sample wt/vol: 930 (g/mL) ML Lab File ID: 296403

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/07/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

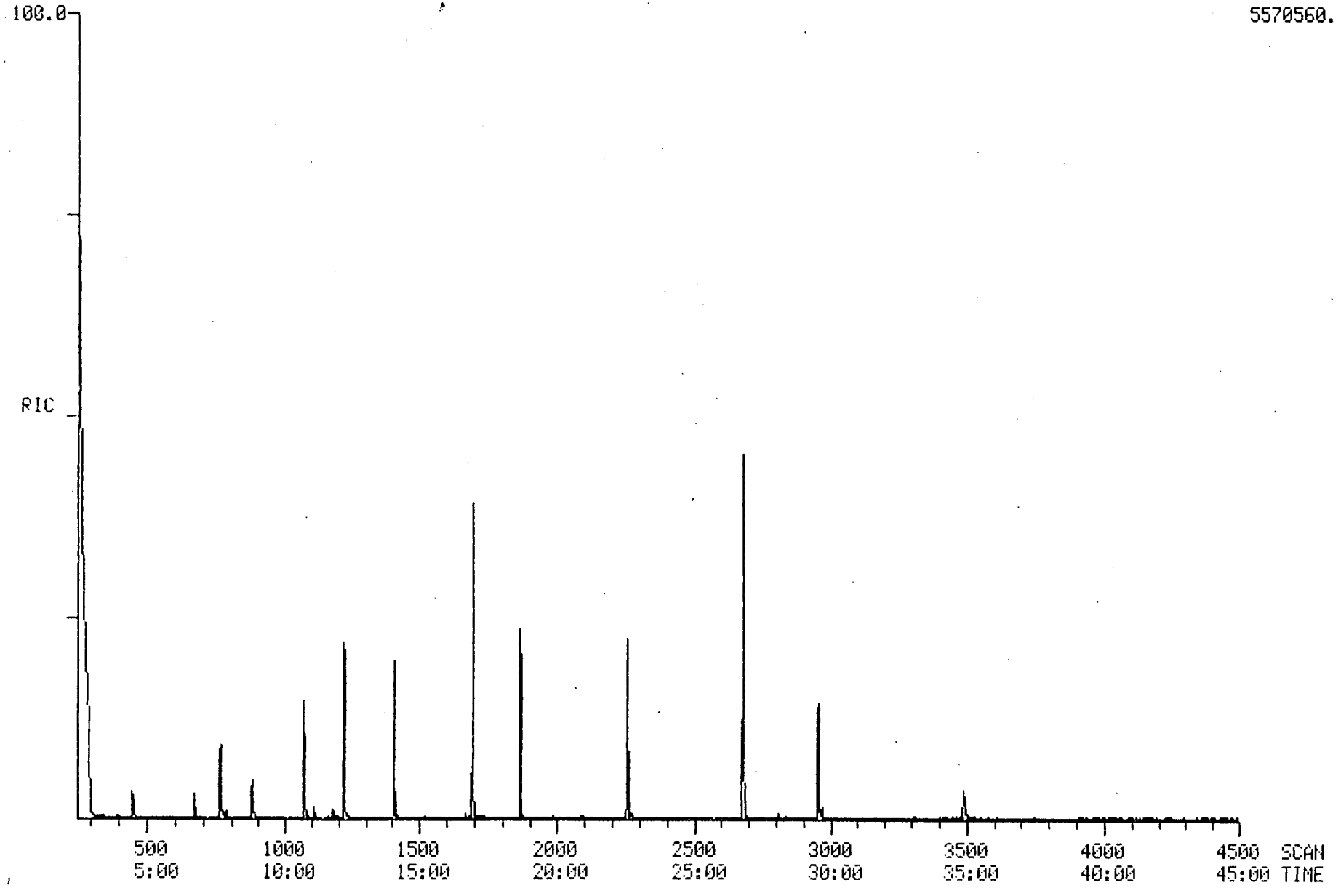
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	BJ
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

RIC
11/13/90 23:01:00
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296403 #1
CALI: CALTAB #3

SCANS 250 TO 4500

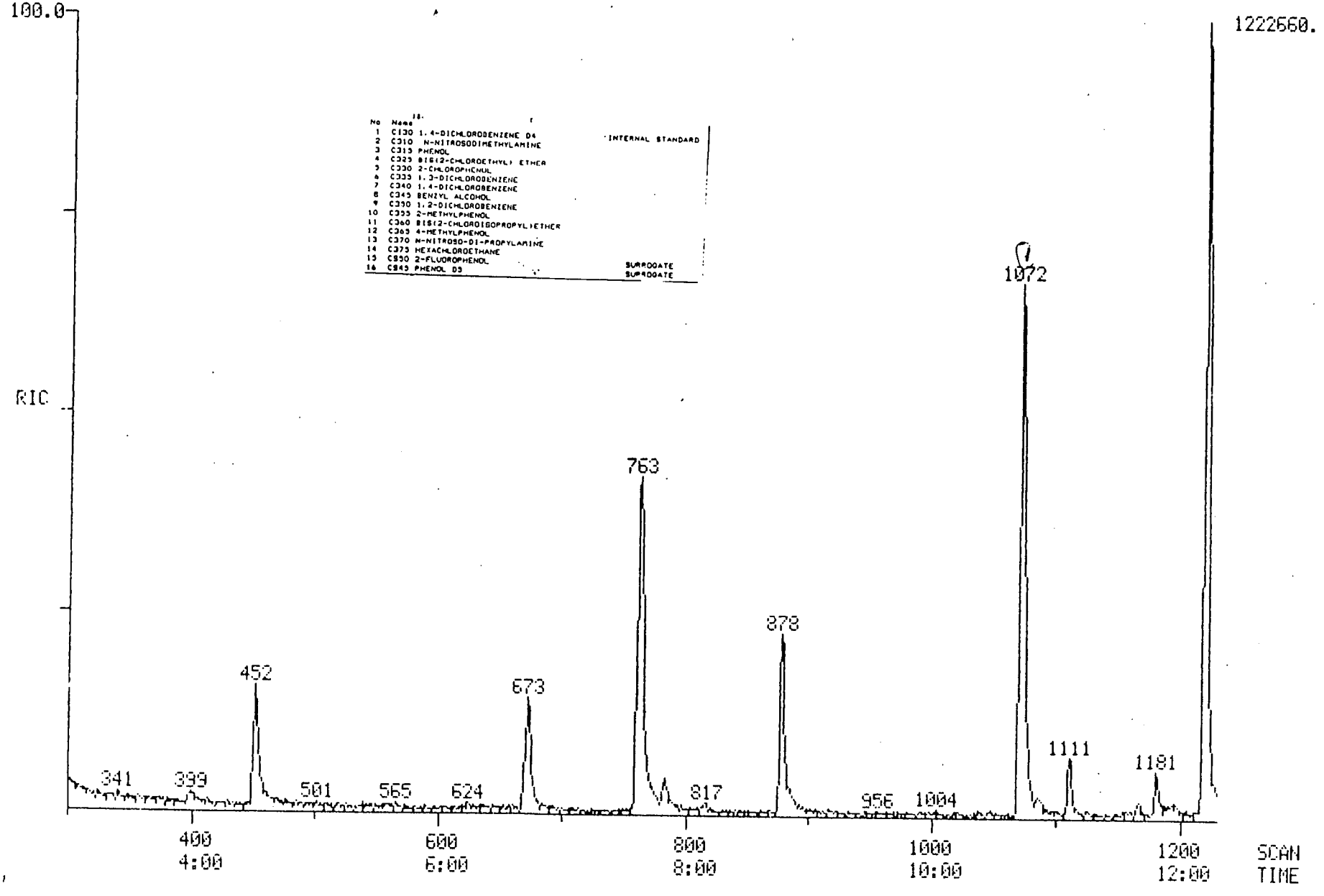


000084

RIC
11/13/90 23:01:00
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296403 #1
CALI: 296403 #3

SCANS 300 TO 1230



000085

Quantitation Report File: 296403

000086

Data: 296403.TI
11/13/90 23:01:00
Sample: 29C
Conds.: 930MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296403

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	152	1072	10:43	1	1.000	A BB	613899.	40.000 UG/ML	97.50	
2	NOT FOUND									
3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	146	1054	10:32	1	0.983	A BB	~~720.~~	~~0.030 UG/ML~~	~~0.07~~	NO WSS
7	146	1077	10:46	1	1.005	A VB	~~1480.~~	~~0.062 UG/ML~~	~~0.15~~	NO WSS
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	45	1144	11:26	1	1.067	A VB	~~960.~~	~~0.714 UG/ML~~	~~1.74~~	NO WSS
12	NOT FOUND									
13	70	1167	11:40	1	1.089	A BB	~~3032.~~	~~0.189 UG/ML~~	~~0.46~~	NO WSS
14	NOT FOUND									
15	112	786	7:52	1	0.733	A*BB	~~512.~~	~~0.031 UG/L~~	~~0.08~~	NO WSS
16	NOT FOUND									

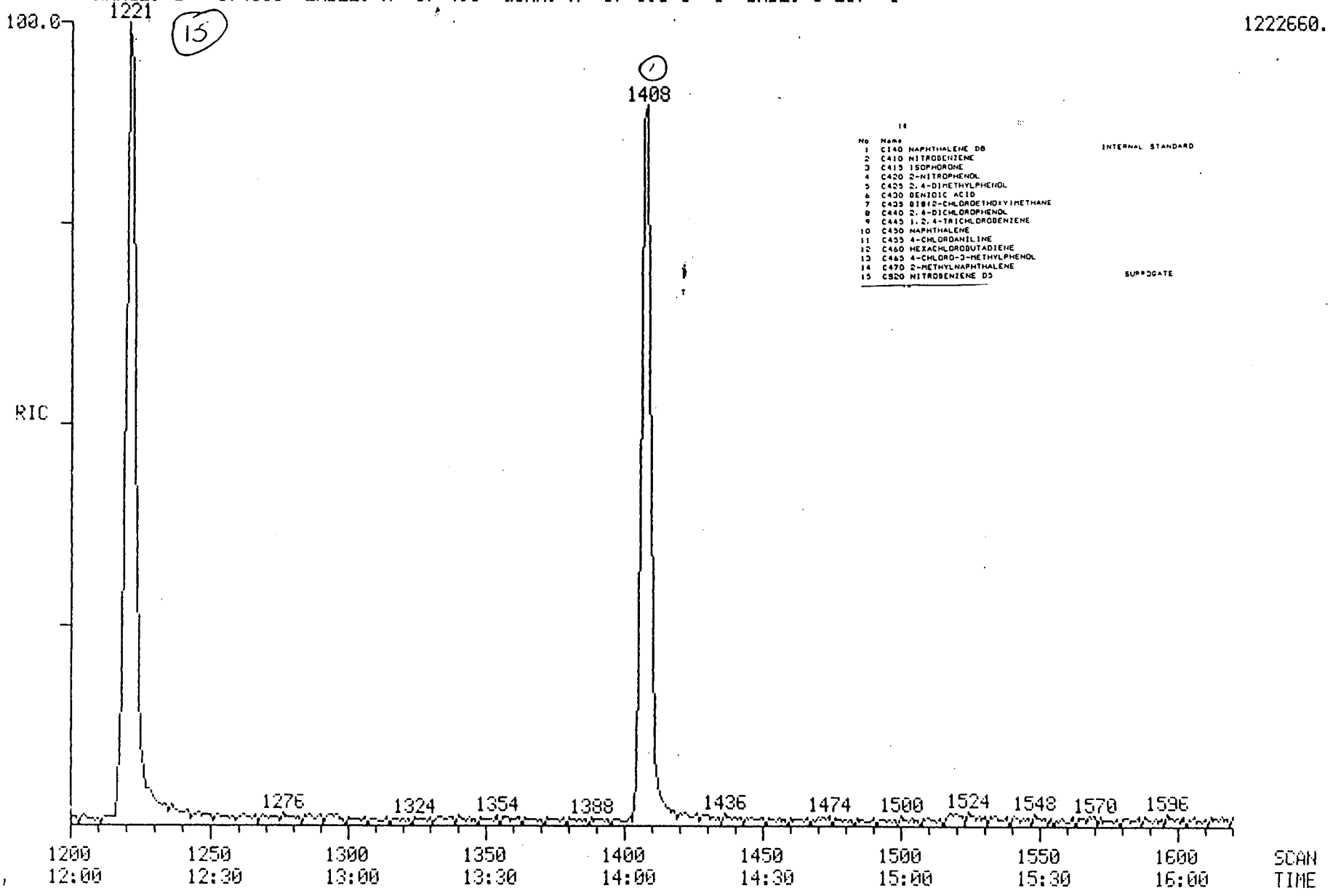
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:33		0.331						
3	9:55		0.925						
4	10:07		0.943						
5	10:11		0.949						
6	10:34	1.00	0.985	1.00	0.03	50.00	0.001	1.563	0.00
7	10:47	1.00	1.005	1.00	0.06	50.00	0.002	1.573	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11		1.042						
9	11:10		1.040						
10	11:30		1.072						
11	11:33	0.99	1.076	0.99	0.71	50.00	0.001	0.088	0.01
12	11:56		1.112						
13	11:55	0.98	1.110	0.98	0.19	50.00	0.004	1.046	0.00
14	12:03		1.123						
15	7:13	1.09	0.672	1.09	0.03	50.00	0.001	1.070	0.00
16	9:53		0.921						

RIC
11/13/90 23:01:00
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296403 #1
CALI: 296403 #3

SCANS 1200 TO 1620



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

000088

Quantitation Report File: 296403

000089

Data: 296403.TI
11/13/90 23:01:00
Sample: 29C
Conds.: 930MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296403

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	136	1407	14:04	1	1.000	A BB	2077560.	40.000 UG/ML	36.50	
2	NOT FOUND									
3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	180	1394	13:56	1	0.991	A BB	~~848.~~	~~0.047 UG/ML~~	~~0.04~~	NO WSS
10	128	1412	14:07	1	1.004	A BB	~~7968.~~	~~0.166 UG/ML~~	~~0.15~~	NO WSS
11	NOT FOUND									
12	225	1448	14:29	1	1.029	A BB	~~448.~~	~~0.042 UG/ML~~	~~0.04~~	NO WSS
13	NOT FOUND									
14	NOT FOUND									
15	82	1221	12:13	1	0.868	A BB	1704710.	69.323 UG/ML	63.26	Yes WSS

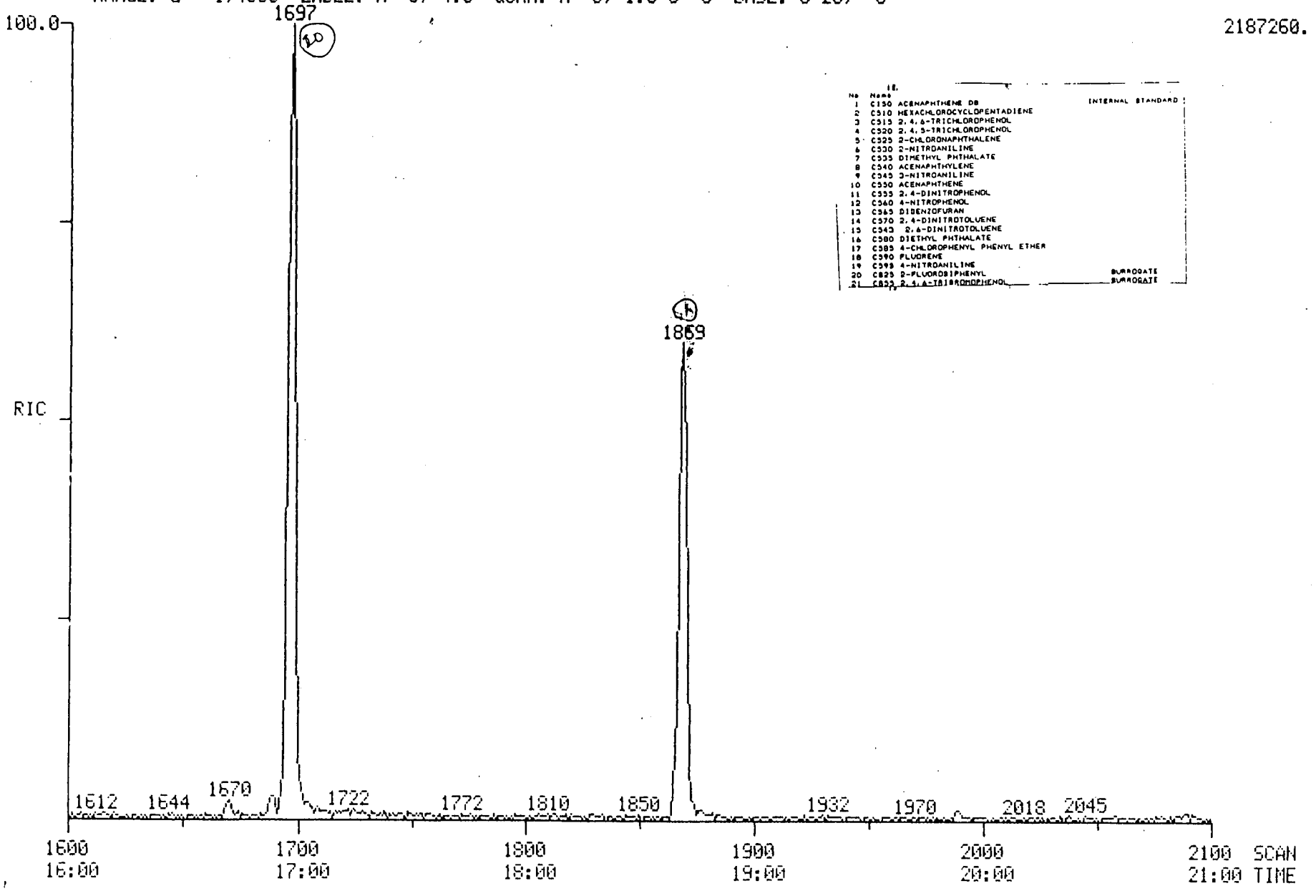
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17		0.872						
3	12:56		0.918						
4	13:07		0.930						
5	13:19		0.945						
6	13:48		0.979						
7	13:34		0.962						
8	13:46		0.977						
9	13:58	1.00	0.991	1.00	0.05	50.00	0.000	0.345	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:09	1.00	1.004	1.00	0.17	50.00	0.003	0.926	0.00
11	14:20		1.017						
12	14:30	1.00	1.029	1.00	0.04	50.00	0.000	0.204	0.00
13	15:40		1.111						
14	15:59		1.134						
15	12:14	1.00	0.868	1.00	69.32	50.00	0.656	0.473	1.39

RIC
11/13/90 23:01:00
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296403 #1
CALI: 296403 #3

SCANS 1600 TO 2100



No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C575 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C825 2-FLUOROBIPHENYL	SURROGATE
21	C830 2,4,6-TRIBROMOPHENOL	SURROGATE

000091

Quantitation Report File: 296403

000092

Data: 296403.TI
11/13/90 23:01:00
Sample: 29C
Conds.: 930MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296403

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

No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

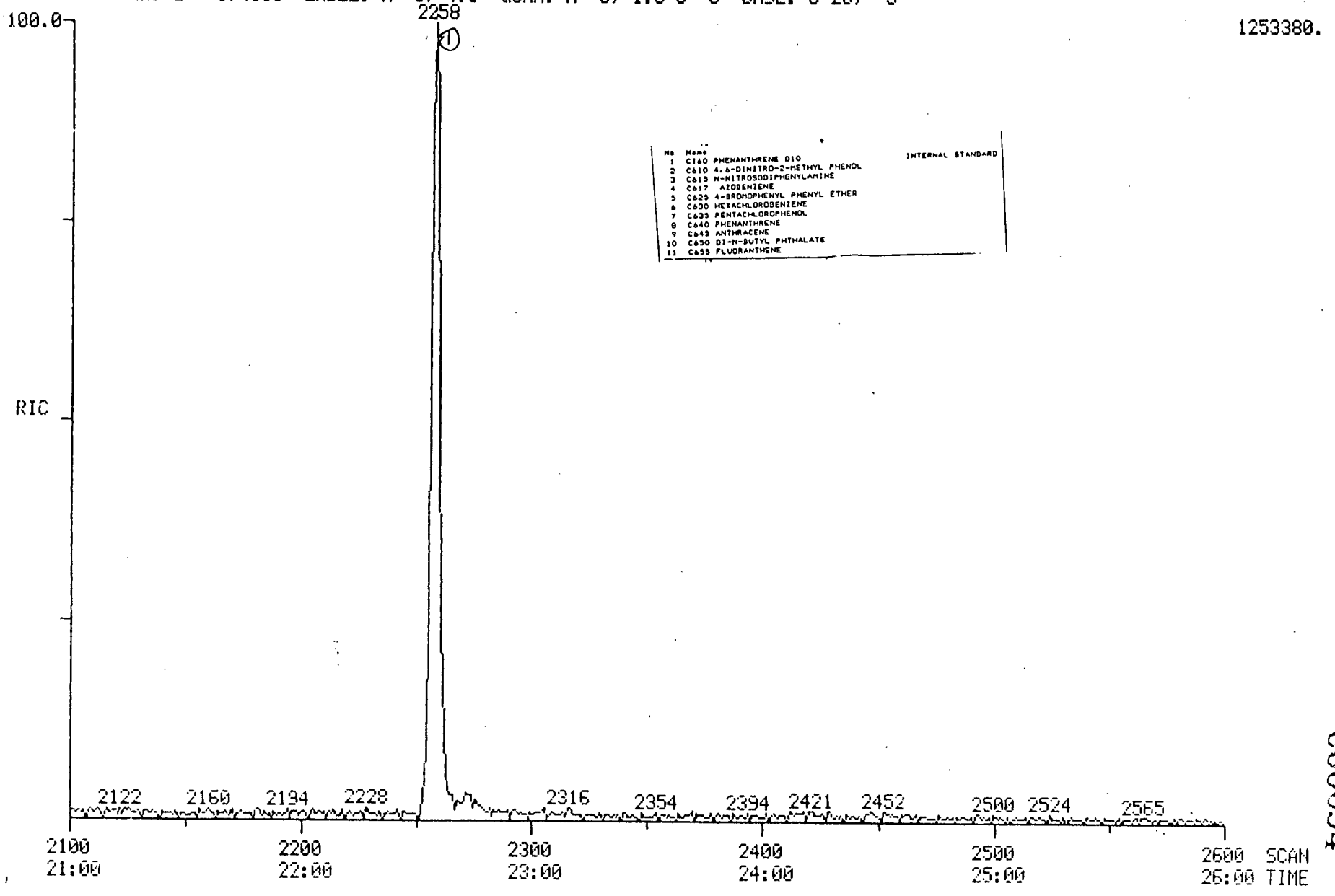
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	164	1869	18:41	1	1.000	A BB	1135120.	40.000 UG/ML	35.60	
2	237	1637	16:22	1	0.876	A BB	~~608.~~	~~0.088 UG/ML~~	~~0.08~~ NO	WSS
3	NOT FOUND									
4	NOT FOUND									
5	162	1724	17:14	1	0.922	A BB	~~3520.~~	~~0.114 UG/ML~~	~~0.10~~ NO	WSS
6	NOT FOUND									
7	NOT FOUND									
8	152	1832	18:19	1	0.980	A BB	~~5104.~~	~~0.112 UG/ML~~	~~0.10~~ NO	WSS
9	NOT FOUND									
10	154	1876	18:46	1	1.004	A BB	~~3168.~~	~~0.107 UG/ML~~	~~0.10~~ NO	WSS
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	165	1925	19:15	1	1.030	A BB	~~512.~~	~~0.041 UG/ML~~	~~0.04~~ NO	WSS
15	NOT FOUND									
16	149	1993	19:56	1	1.066	A BB	~~8640.~~	~~0.224 UG/ML~~	~~0.20~~ NO	WSS
17	204	2018	20:11	1	1.080	A BV	~~3904.~~	~~0.262 UG/ML~~	~~0.23~~ NO	WSS
18	166	2016	20:10	1	1.079	A BB	~~3008.~~	~~0.088 UG/ML~~	~~0.08~~ NO	WSS
19	NOT FOUND									
20	172	1697	16:58	1	0.908	A BB	2597370.	71.199 UG/ML	63.36 YES	WSS
21	330	2076	20:46	1	1.111	A BB	~~688.~~	~~0.131 UG/ML~~	~~0.12~~ NO	WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:23	1.00	0.876	1.00	0.09	50.00	0.000	0.244	0.00
3	16:44		0.895						
4	16:50		0.901						
5	17:15	1.00	0.922	1.00	0.11	50.00	0.002	1.092	0.00
6	17:34		0.939						
7	18:05		0.967						
8	18:19	1.00	0.980	1.00	0.11	50.00	0.004	1.602	0.00
9	18:39		0.997						
10	18:47	1.00	1.005	1.00	0.11	50.00	0.002	1.021	0.00
11	18:55		1.012						
12	19:10		1.025						
13	19:14		1.029						
14	19:16	1.00	1.030	1.00	0.04	50.00	0.000	0.442	0.00
15	18:13		0.974						
16	19:57	1.00	1.067	1.00	0.22	50.00	0.006	1.360	0.00
17	20:10	1.00	1.079	1.00	0.26	50.00	0.003	0.526	0.01
18	20:08	1.00	1.077	1.00	0.09	50.00	0.002	1.201	0.00
19	20:16		1.083						
20	16:59	1.00	0.908	1.00	71.20	50.00	1.831	1.286	1.42
21	20:46	1.00	1.111	1.00	0.13	50.00	0.000	0.185	0.00

RIC
11/13/90 23:01:00
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296403 #1
CALI: 296403 #3

SCANS 2100 TO 2600



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000094

Quantitation Report File: 296403

000095

Data: 296403.TI
11/13/90 23:01:00
Sample: 29C
Conds.: 930MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296403

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2257	22:34	1	1.000	A BV	1146910.	40.000 UG/ML	97.86
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	248	2146	21:28	1	0.951	A BB	~~1376.~~	~~0.144 UG/ML~~	~~0.35~~ NO WSS
6	284	2154	21:32	1	0.954	A BB	~~1584.~~	~~0.137 UG/ML~~	~~0.34~~ NO WSS
7	NOT FOUND								
8	178	2263	22:38	1	1.003	A BB	~~9381.~~	~~0.185 UG/ML~~	~~0.45~~ NO WSS
9	178	2279	22:47	1	1.010	A BV	~~3925.~~	~~0.073 UG/ML~~	~~0.18~~ NO WSS
10	149	2421	24:13	1	1.073	A BB	~~11328.~~	~~0.186 UG/ML~~	~~0.46~~ NO WSS
11	202	2578	25:47	1	1.142	A*BV	~~6880.~~	~~0.146 UG/ML~~	~~0.36~~ NO WSS

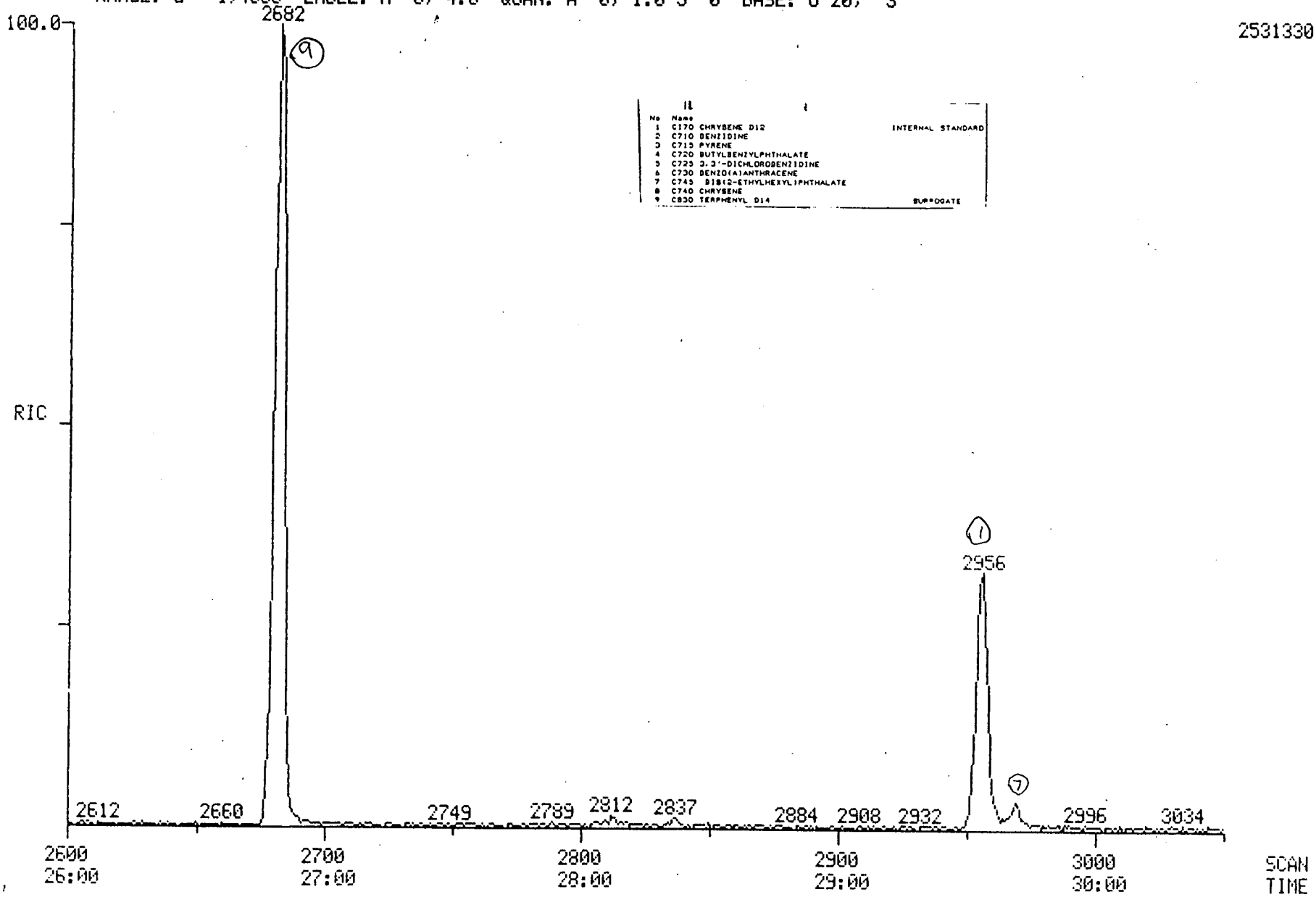
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20		0.900						
3	20:30		0.907						
4	20:36		0.912						
5	21:27	1.00	0.949	1.00	0.14	50.00	0.001	0.334	0.00
6	21:34	1.00	0.954	1.00	0.14	50.00	0.001	0.396	0.00
7	22:07		0.978						
8	22:40	1.00	1.003	1.00	0.19	50.00	0.007	1.766	0.00
9	22:48	1.00	1.009	1.00	0.07	50.00	0.003	1.877	0.00
10	24:13	1.00	1.072	1.00	0.19	50.00	0.008	2.122	0.00
11	25:47	1.00	1.141	1.00	0.15	50.00	0.005	1.647	0.00

RIC
11/13/90 23:01:00
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296403 #1
CALI: 296403 #3

SCANS 2600 TO 3050

2531330.



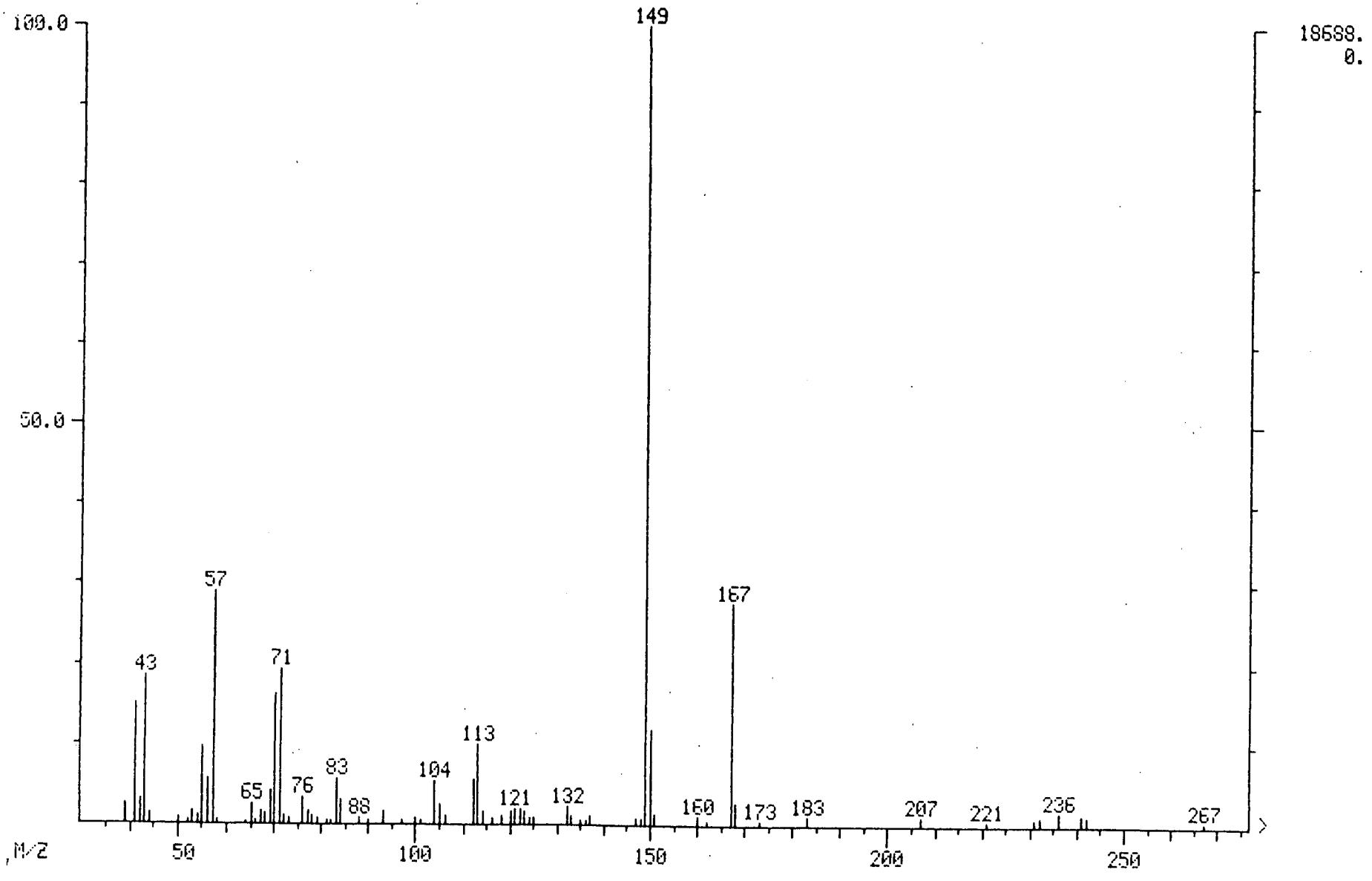
No	Name		
1	C170 CHRYSENE D12		INTERNAL STANDARD
2	C710 BENZIDINE		
3	C715 PYRENE		
4	C720 BUTYLBENZYLPHTHALATE		
5	C725 3,3'-DICHLOROBENZIDINE		
6	C730 BENZO(A)ANTHRACENE		
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE		
8	C740 CHRYSENE		
9	C830 TERPHENYL D14		SURROGATE

000096

MASS SPECTRUM
11/13/90 23:01:00 + 29:41
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: 296403 #2969
CALI: 296403 #3

BASE M/Z: 149
RIC: 69632.



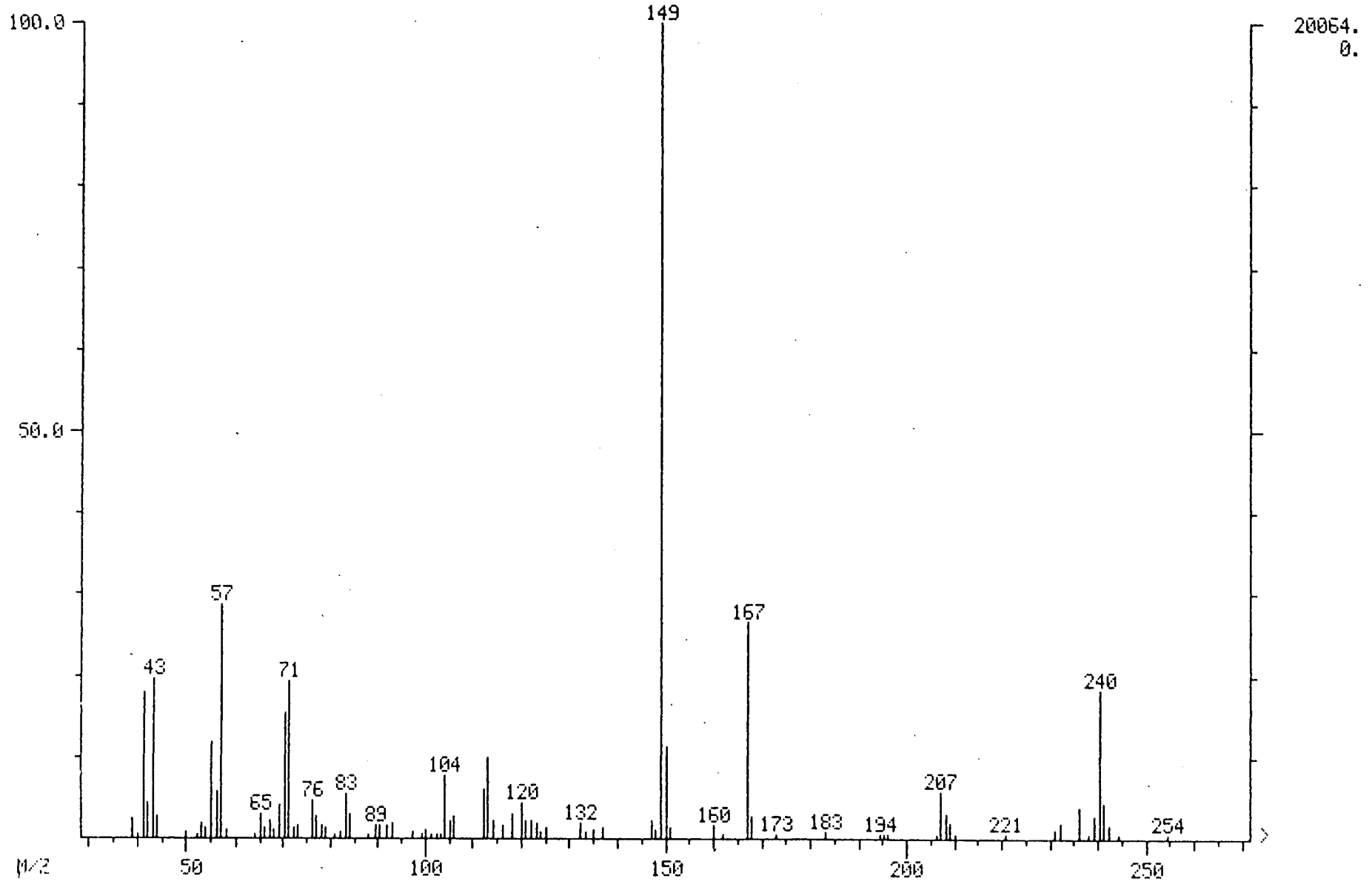
000097

MASS SPECTRUM
11/13/90 23:01:00 + 29:41
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
TEMP: 290 DEG. C

DATA: 296403 #2969
CALI: 296403 #3

BASE M/Z: 149
RIC: 92544.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

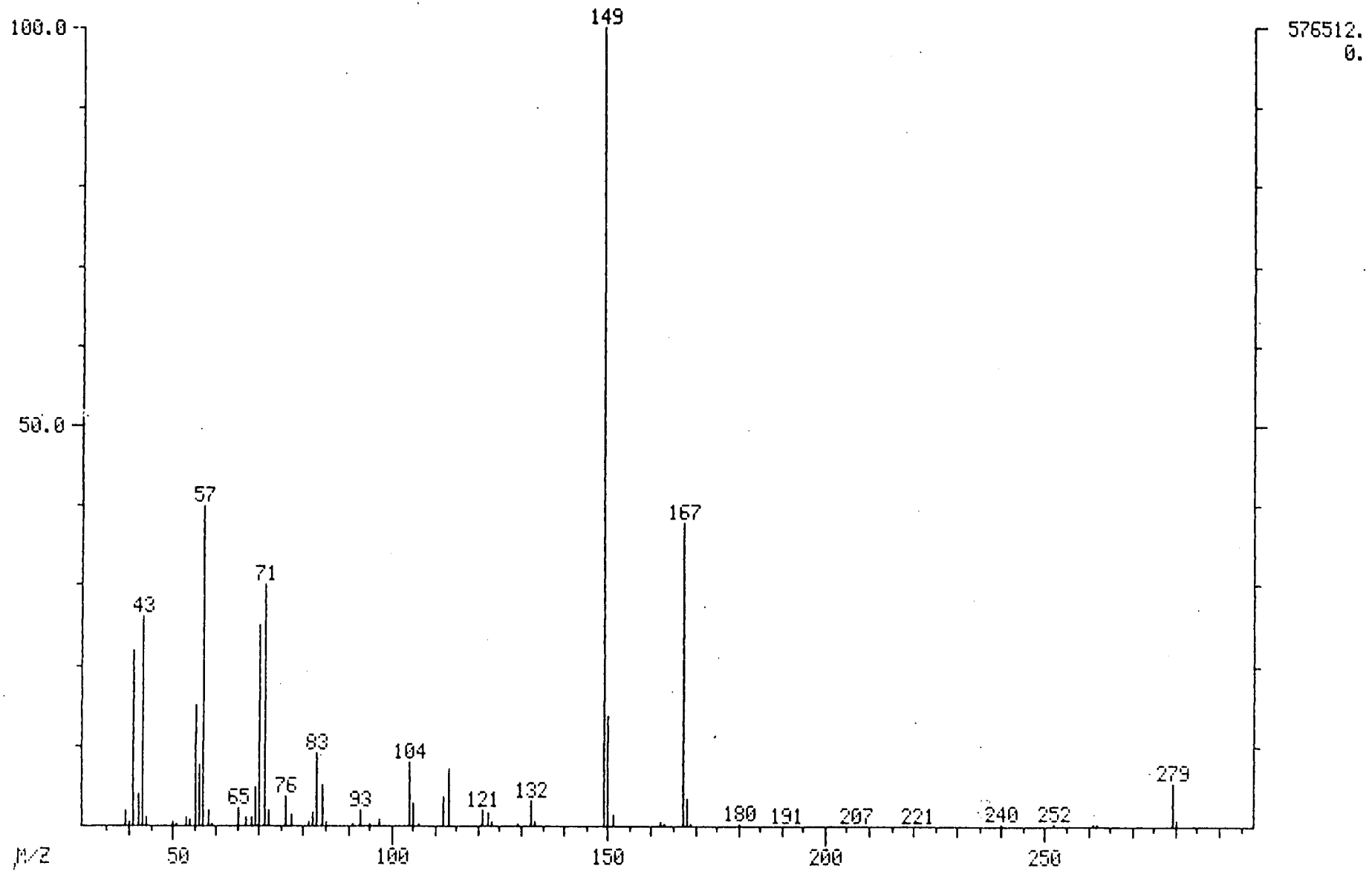


000098

MASS SPECTRUM
11/13/90 12:43:00 + 29:43
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: HSD501113P #2971
CALI: HSD501113P #3

BASE M/Z: 149
RIC: 2367430.



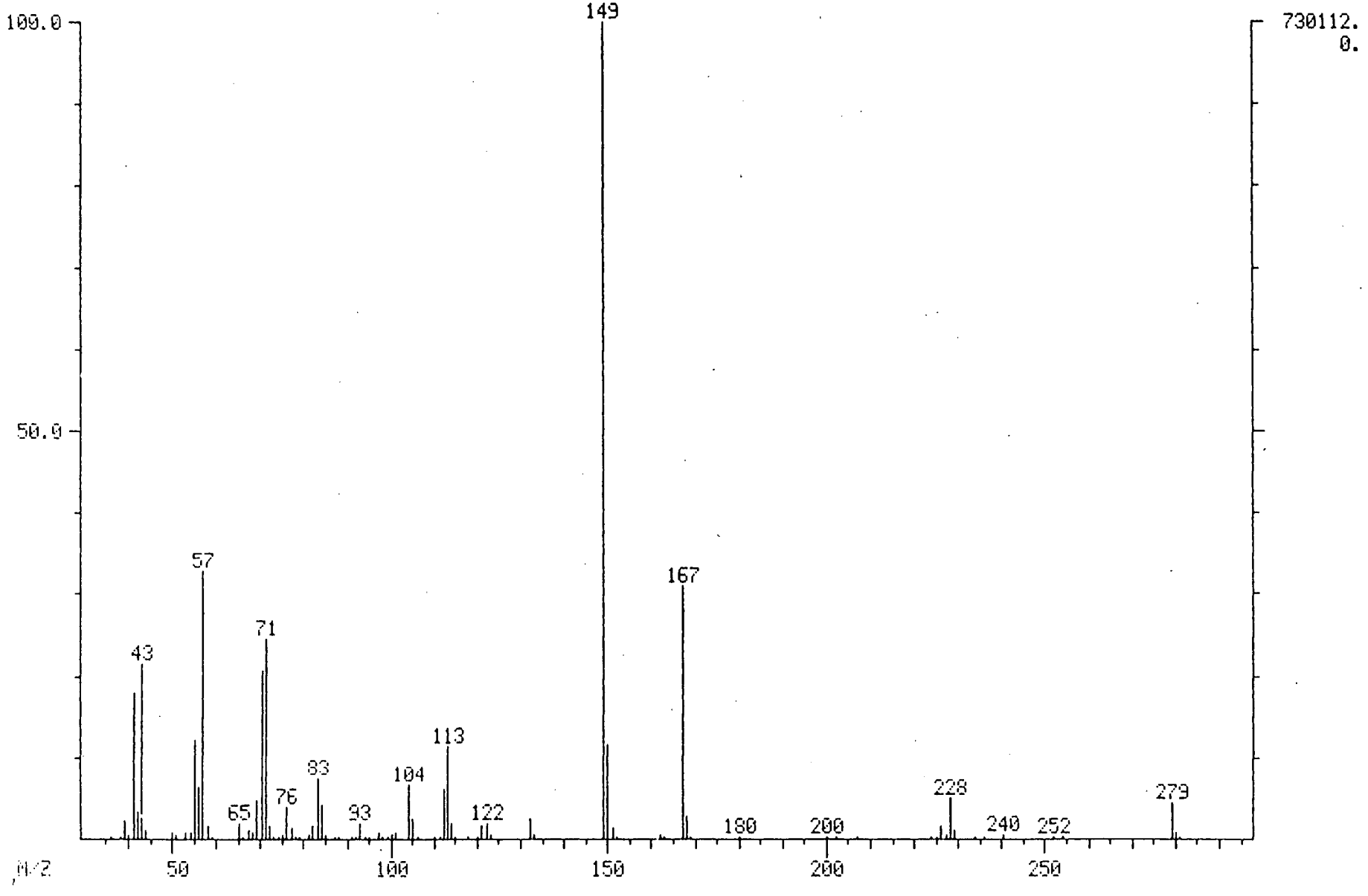
000099

MASS SPECTRUM
11/13/90 12:43:00 + 29:43
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
TEMP: 290 DEG. C

DATA: HSD501113P #2971
CALI: HSD501113P #3

BASE M/Z: 149
RIC: 2830340.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE ,



000100

Quantitation Report File: 296403

000101

Data: 296403.TI
11/13/90 23:01:00
Sample: 29C
Conds.: 930MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296403

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

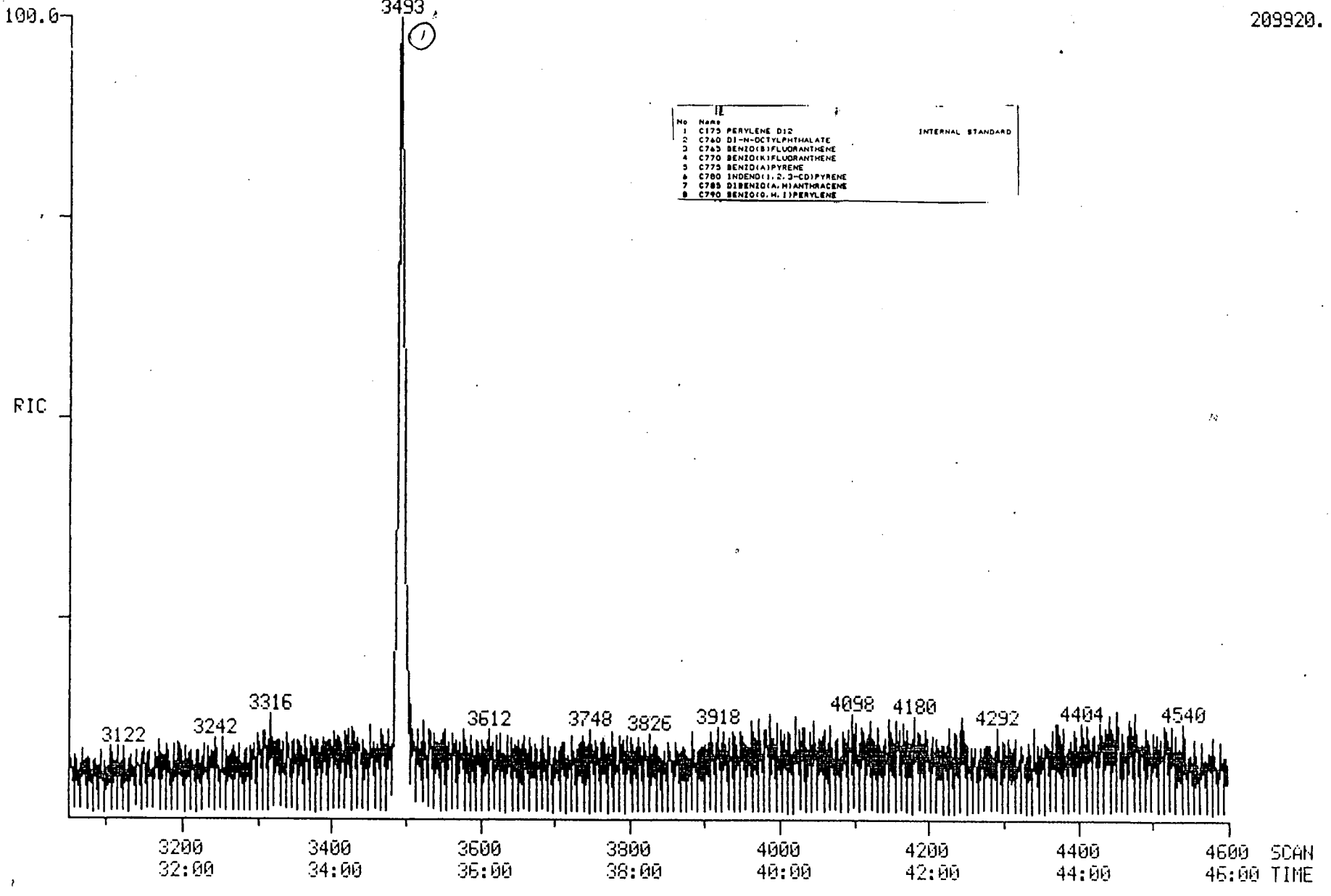
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	240	2955	29:33	1	1.000	A BB	1210680.	40.000 UG/ML	25.68	
2	NOT FOUND									
3	202	2637	26:22	1	0.892	A BB	~~4192.~~	~~0.111 UG/ML~~	~~0.07~~ NO	WSS
4	149	2813	28:08	1	0.952	A BB	~~4776.~~	~~0.267 UG/ML~~	~~0.17~~ NO	WSS
5	NOT FOUND									
6	228	2956	29:34	1	1.000	A BB	~~3856.~~	~~0.116 UG/ML~~	~~0.07~~ NO	WSS
7	149	2969	29:41	1	1.005	A BB	78912.	2.704 UG/ML	1.74 Yes	WSS
8	228	2956	29:34	1	1.000	A BB	~~3856.~~	~~0.116 UG/ML~~	~~0.07~~ NO	WSS
9	244	2682	26:49	1	0.908	A BB	3523580.	112.441 UG/ML	72.19 Yes	WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:11		0.885						
3	26:22	1.00	0.891	1.00	0.11	50.00	0.003	1.246	0.00
4	28:08	1.00	0.951	1.00	0.27	50.00	0.003	0.592	0.01
5	29:31		0.997						
6	29:34	1.00	0.999	1.00	0.12	50.00	0.003	1.102	0.00
7	29:43	1.00	1.004	1.00	2.70	50.00	0.052	0.964	0.05
8	29:34	1.00	0.999	1.00	0.12	50.00	0.003	1.102	0.00
9	26:49	1.00	0.906	1.00	112.44	50.00	2.328	1.035	2.25

RIC
11/13/90 23:01:00
SAMPLE: 29C
CONDS.: 930MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296403 #1
CALI: 296403 #3

SCANS 3050 TO 4600



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000102

Quantitation Report File: 296403

000103

Data: 296403.TI
11/13/90 23:01:00
Sample: 29C
Conds.: 930MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296403

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3493	34:56	1	1.000	A BB	489813.	40.000 UG/ML	99.71
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	276	4346	43:28	1	1.244	A VB	~~736.~~	~~0.115 UG/ML~~	~~0.29~~ NO WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:52		0.911						
3	33:15		0.951						
4	33:23		0.954						
5	34:42		0.992						
6	41:29		1.186						
7	41:46		1.194						
8	43:31	1.00	1.244	1.00	0.12	50.00	0.001	0.522	0.00

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP_BLANK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296404

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296404

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
103-33-3	Azobenzene (2)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U

000105
SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

TRIP_BLANK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296404

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296404

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

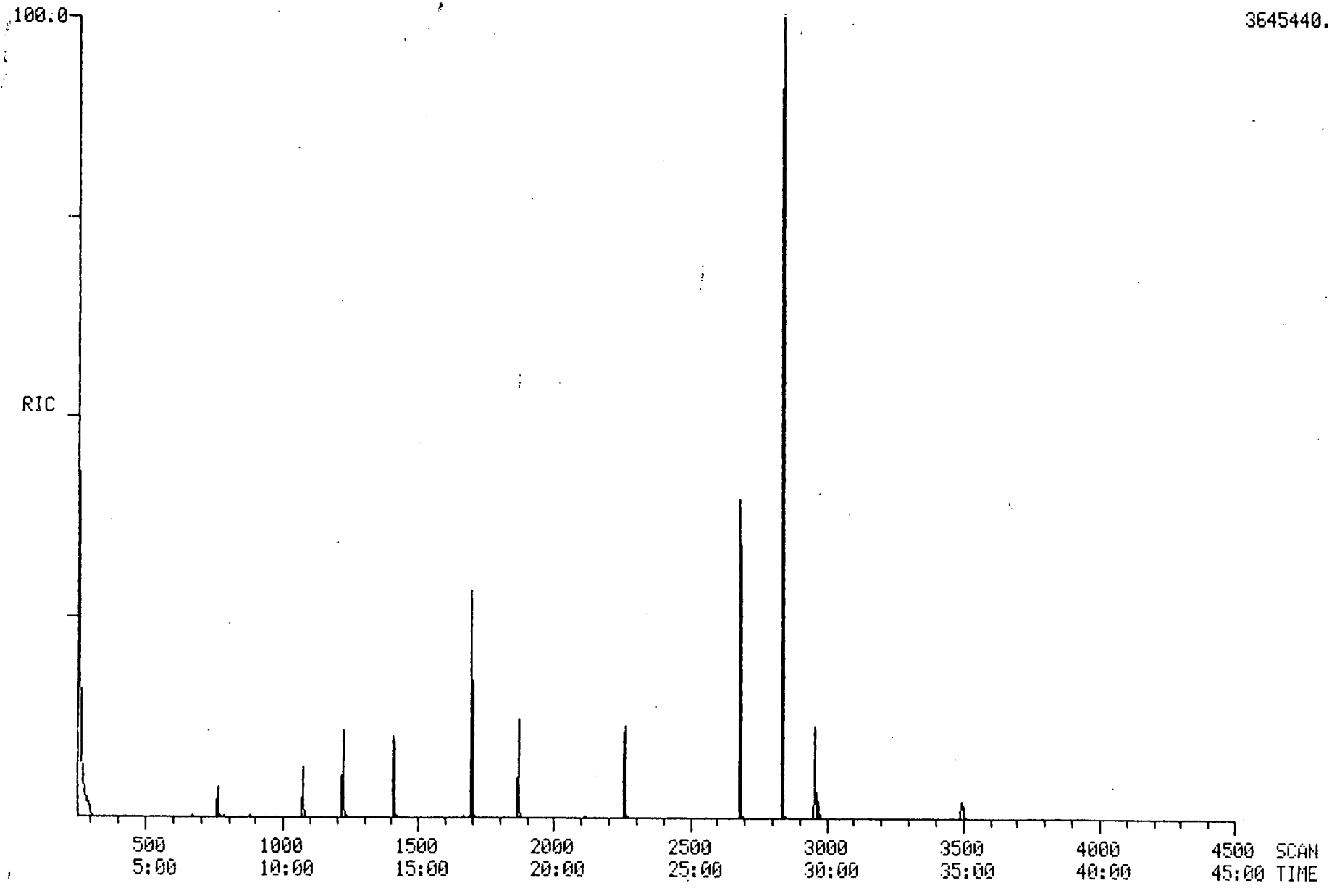
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	5	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

RIC
11/13/90 3:00:00
SAMPLE: TRIP BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296404 #1
CALI: 296405 #3

SCANS 250 TO 4500

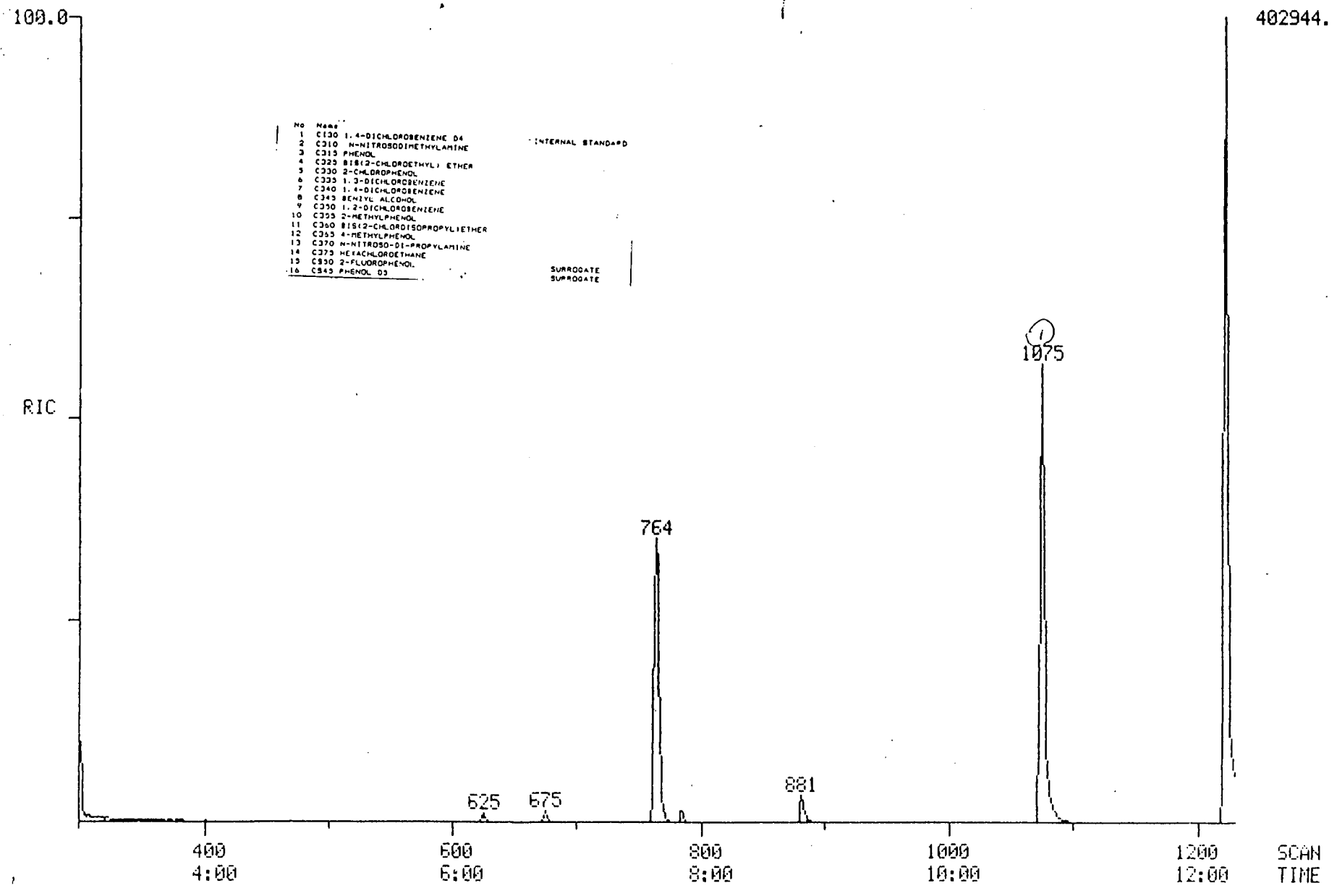


000106

RIC
11/13/90 3:00:00
SAMPLE: TRIP BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296404 #1
CALI: 296404 #3

SCANS 300 TO 1230



000107

Quantitation Report File: 296404

000108

Data: 296404.TI
11/13/90 3:00:00
Sample: TRIP BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296404

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1075	10:45	1	1.000	A BB	194743.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:29		0.324						
3	9:56		0.923						
4	10:08		0.941						
5	10:12		0.948						
6	10:36		0.985						
7	10:48		1.004						

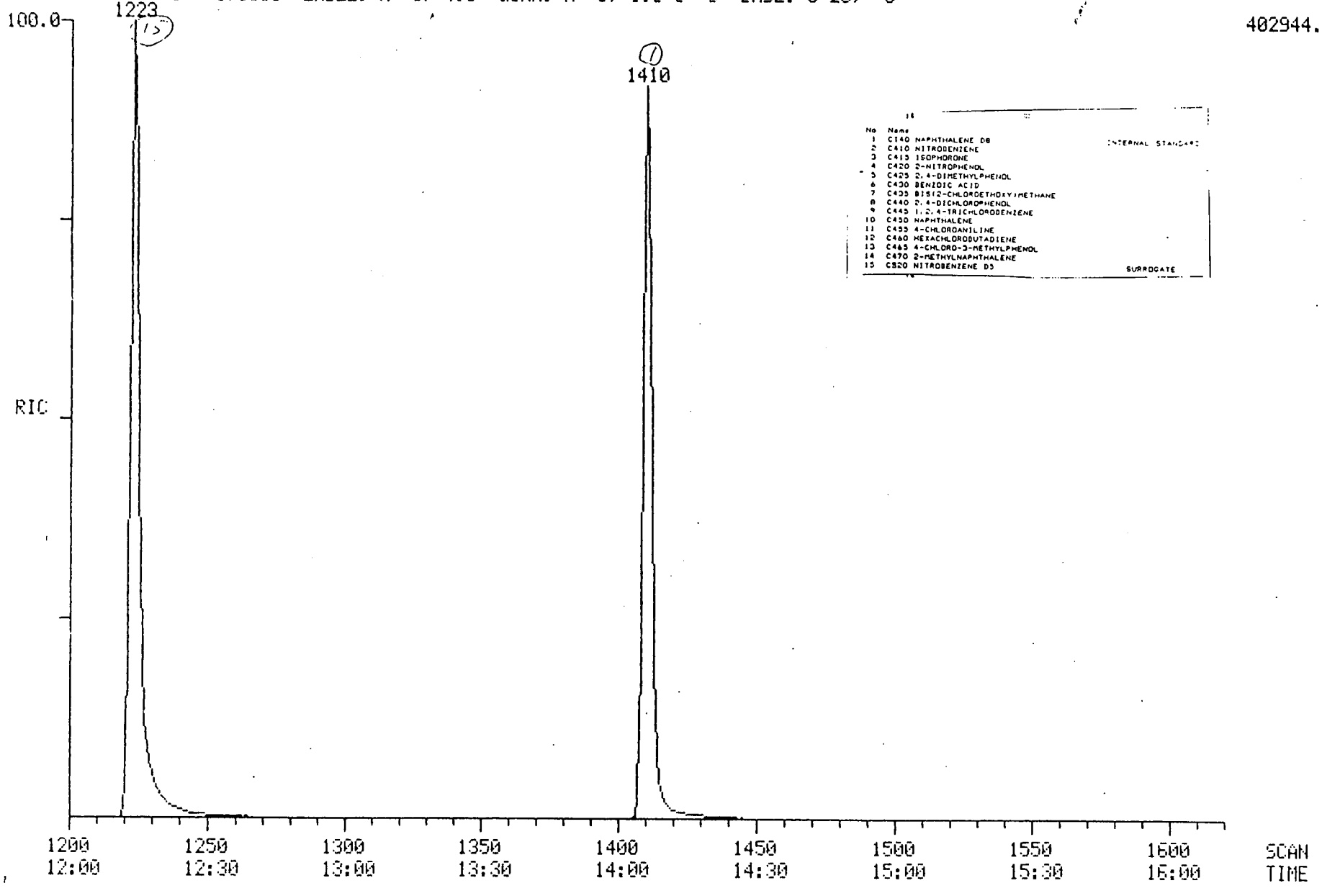
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11		1.040						
9	11:11		1.040						
10	11:31		1.071						
11	11:34		1.075						
12	11:56		1.110						
13	11:55		1.107						
14	12:05		1.123						
15	7:16		0.675						
16	9:54		0.920						

RIC
11/13/90 3:00:00
SAMPLE: TRIP BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296404 #1
CALI: 296404 #3

SCANS 1200 TO 1620

402944.



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

000110

Quantitation Report File: 296404

000111

Data: 296404.TI
11/13/90 3:00:00
Sample: TRIP BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296404

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1410	14:06	1	1.000	A BB	777883.	40.000 UG/ML	35.10
2	NOT FOUND								
3	82	1296	12:58	1	0.919	A VB	~~581.~~	~~0.039 UG/ML~~	~~0.03~~ No WSS
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	82	1223	12:14	1	0.867	A BB	597283.	73.923 UG/ML	64.87 Yes WSS

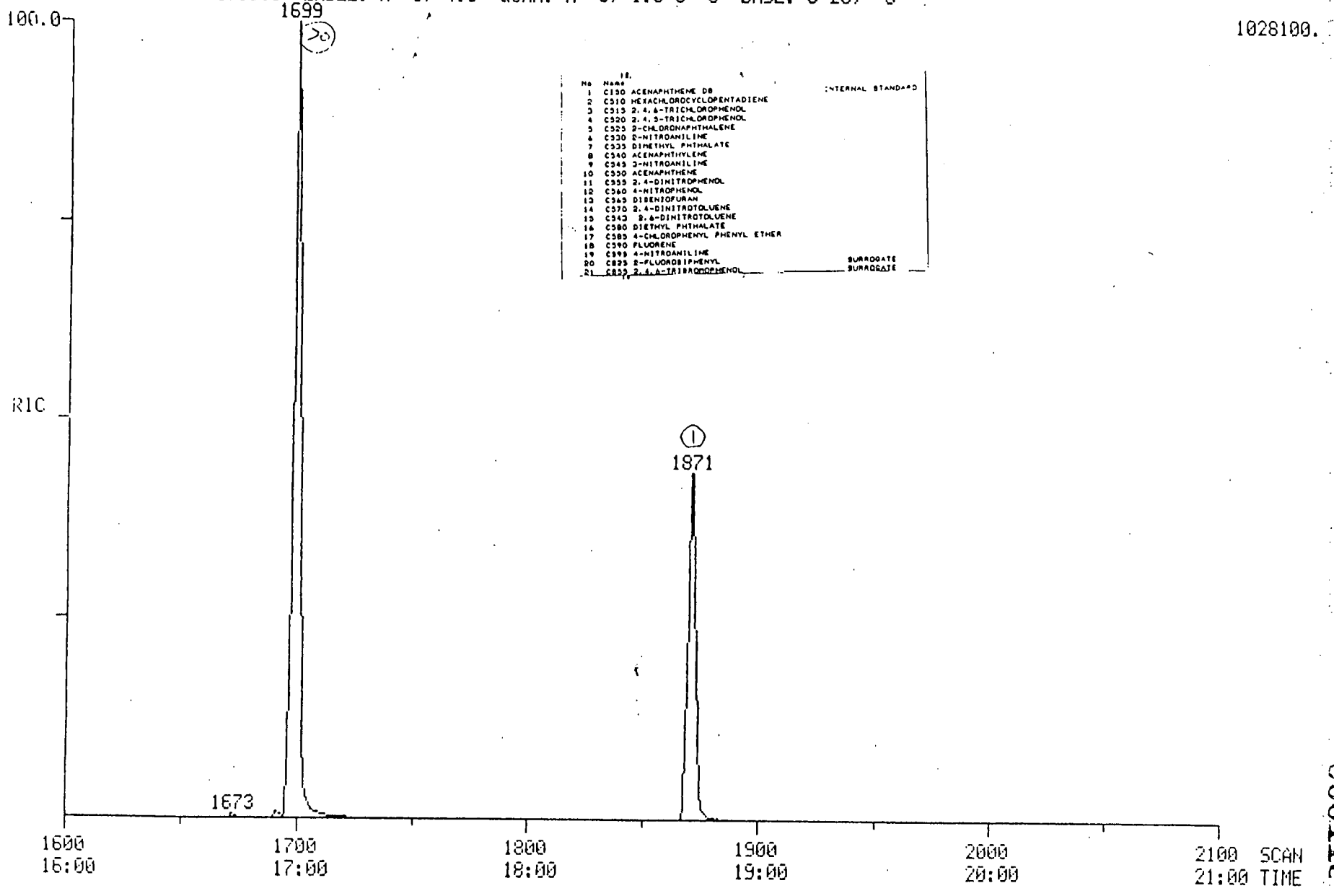
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17		0.871						
3	12:57	1.00	0.918	1.00	0.04	50.00	0.001	0.758	0.00
4	13:08		0.931						
5	13:20		0.945						
6	13:48		0.978						
7	13:34		0.962						
8	13:47		0.977						
9	13:59		0.991						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:10		1.004						
11	14:21		1.017						
12	14:31		1.029						
13	15:41		1.112						
14	16:00		1.134						
15	12:14	1.00	0.867	1.00	73.92	50.00	0.614	0.415	1.48

RIC
11/13/90 3:00:00
SAMPLE: TRIP BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296404 #1
CALI: 296404 #3

SCANS 1600 TO 2100



1028100.

No	Name		
1	C150	ACENAPHTHENE D8	INTERNAL STANDARD
2	C510	HEXACHLOROCYCLOPENTADIENE	
3	C515	2,4,6-TRICHLOROPHENOL	
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	
11	C555	2,4-DINITROPHENOL	
12	C560	4-NITROPHENOL	
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C575	2,6-DINITROTOLUENE	
16	C580	DIETHYL PHTHALATE	
17	C585	4-CHLOROPHENYL PHENYL ETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	C825	2-FLUOROBIPHENYL	SURROGATE
21	C835	2,4,6-TRIBROMOPHENOL	SURROGATE

000113

Quantitation Report File: 296404

Data: 296404.TI
11/13/90 3:00:00
Sample: TRIP BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296404

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

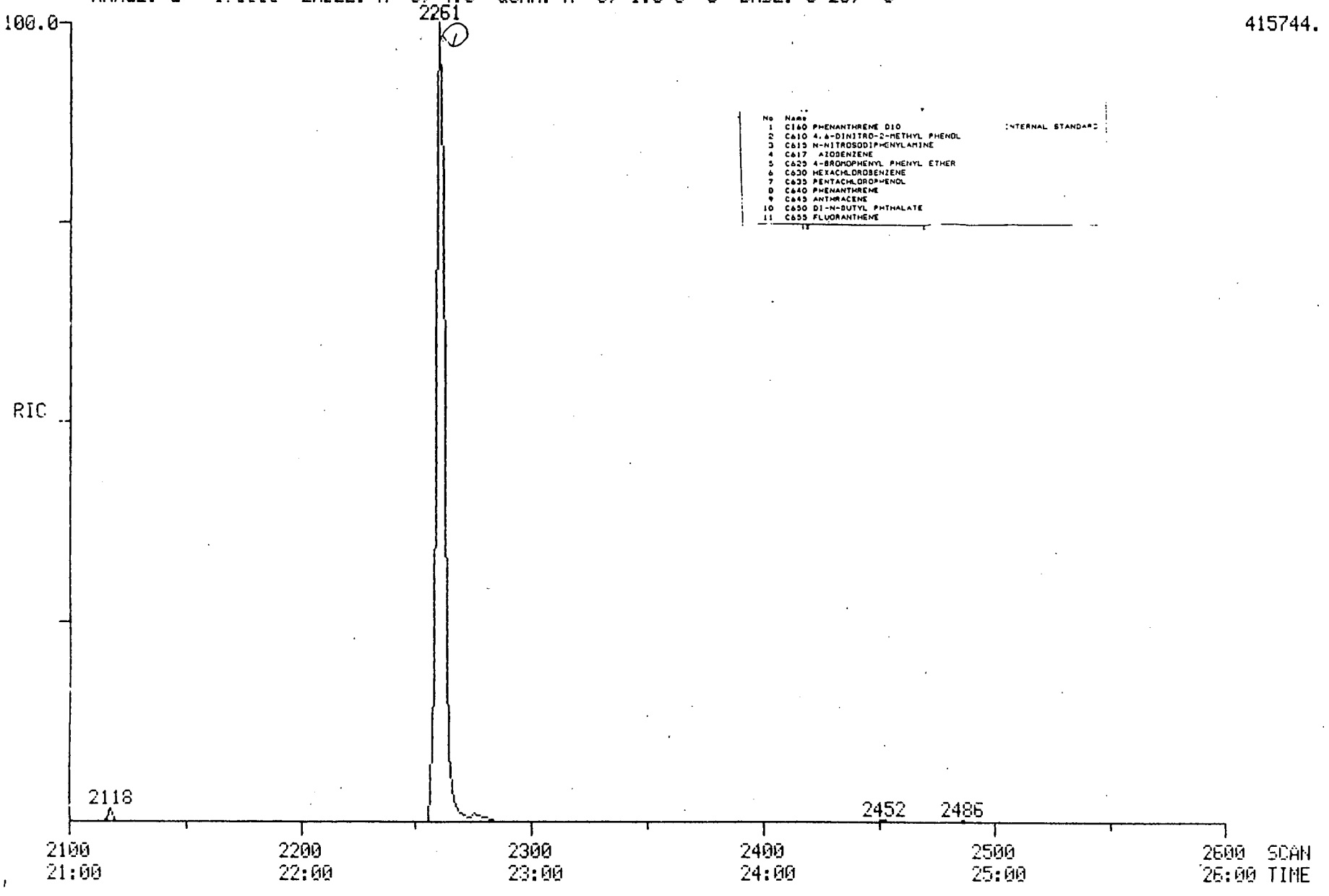
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1871	18:43	1	1.000	A BB	457888.	40.000 UG/ML	28.36
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	172	1699	16:59	1	0.908	A BB	1310780.	101.052 UG/ML	71.64 YES WSS
21	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25		0.877						
3	16:46		0.896						
4	16:52		0.901						
5	17:16		0.923						
6	17:35		0.939						
7	18:06		0.967						
8	18:21		0.980						
9	18:40		0.997						
10	18:49		1.005						
11	18:57		1.012						
12	19:11		1.025						
13	19:16		1.029						
14	19:17		1.030						
15	18:14		0.974						
16	19:58		1.066						
17	20:12		1.079						
18	20:10		1.077						
19	20:16		1.083						
20	17:00	1.00	0.908	1.00	101.05	50.00	2.290	1.133	2.02
21	20:47		1.111						

RIC
11/13/90 3:00:00
SAMPLE: TRIP BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296404 #1
CALI: 296404 #3

SCANS 2100 TO 2600



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000116

Quantitation Report File: 296404

Data: 296404.TI
11/13/90 3:00:00
Sample: TRIP BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296404

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

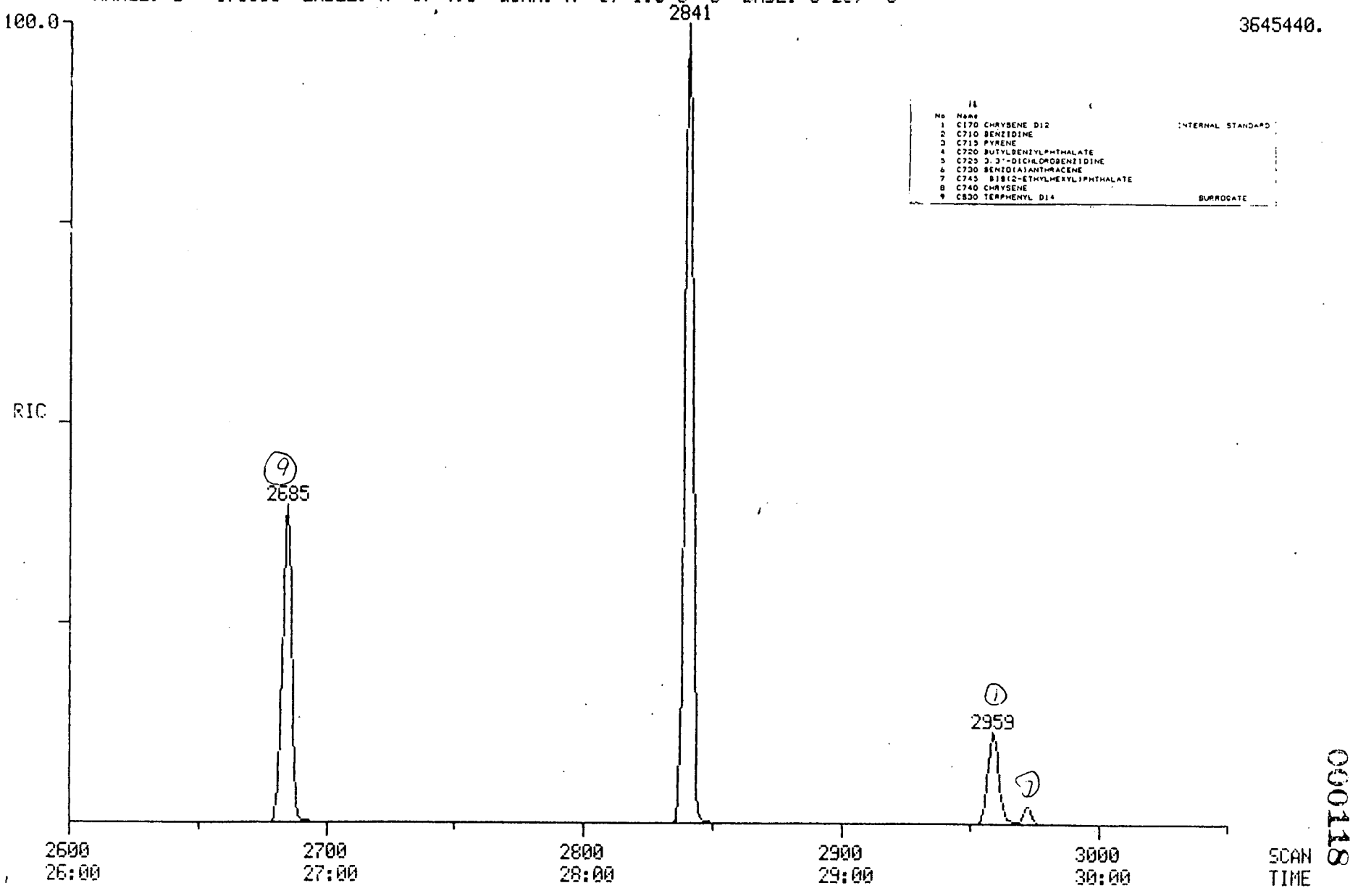
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2260	22:36	1	1.000	A BB	444130.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20		0.900						
3	20:31		0.908						
4	20:37		0.912						
5	21:28		0.950						
6	21:35		0.955						
7	22:08		0.979						
8	22:41		1.003						
9	22:49		1.009						
10	24:14		1.072						
11	25:48		1.141						

RIC
11/13/90 3:00:00
SAMPLE: TRIP BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296404 #1
CALI: 296404 #3

SCANS 2600 TO 3050



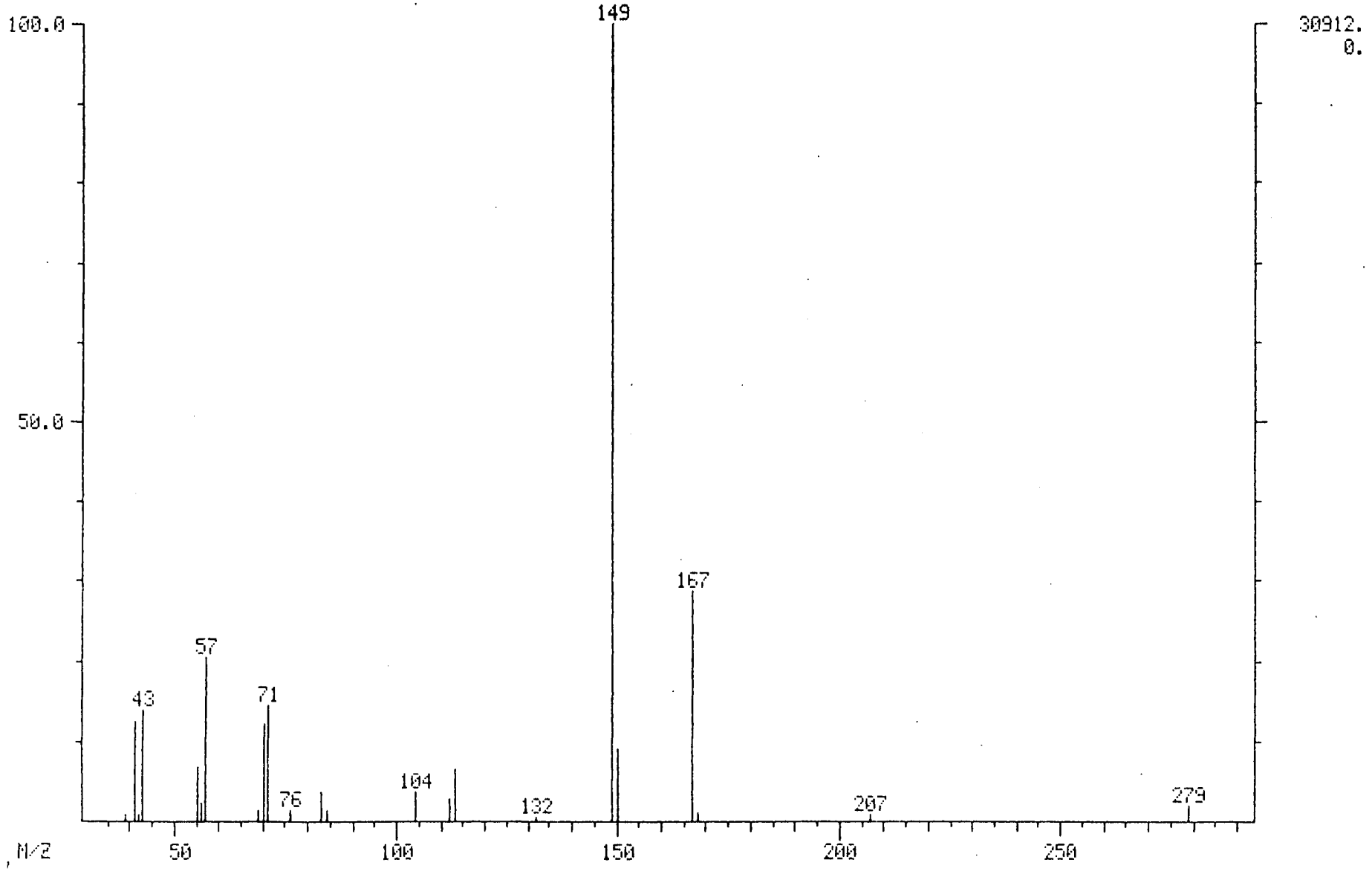
No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000118

MASS SPECTRUM
11/13/90 3:00:00 + 29:44
SAMPLE: TRIP BLANK
CONDS.: 1000ML5/1.0ML
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: 296404 #2973
CALI: 296404 #3

BASE M/Z: 149
RIC: 76672.



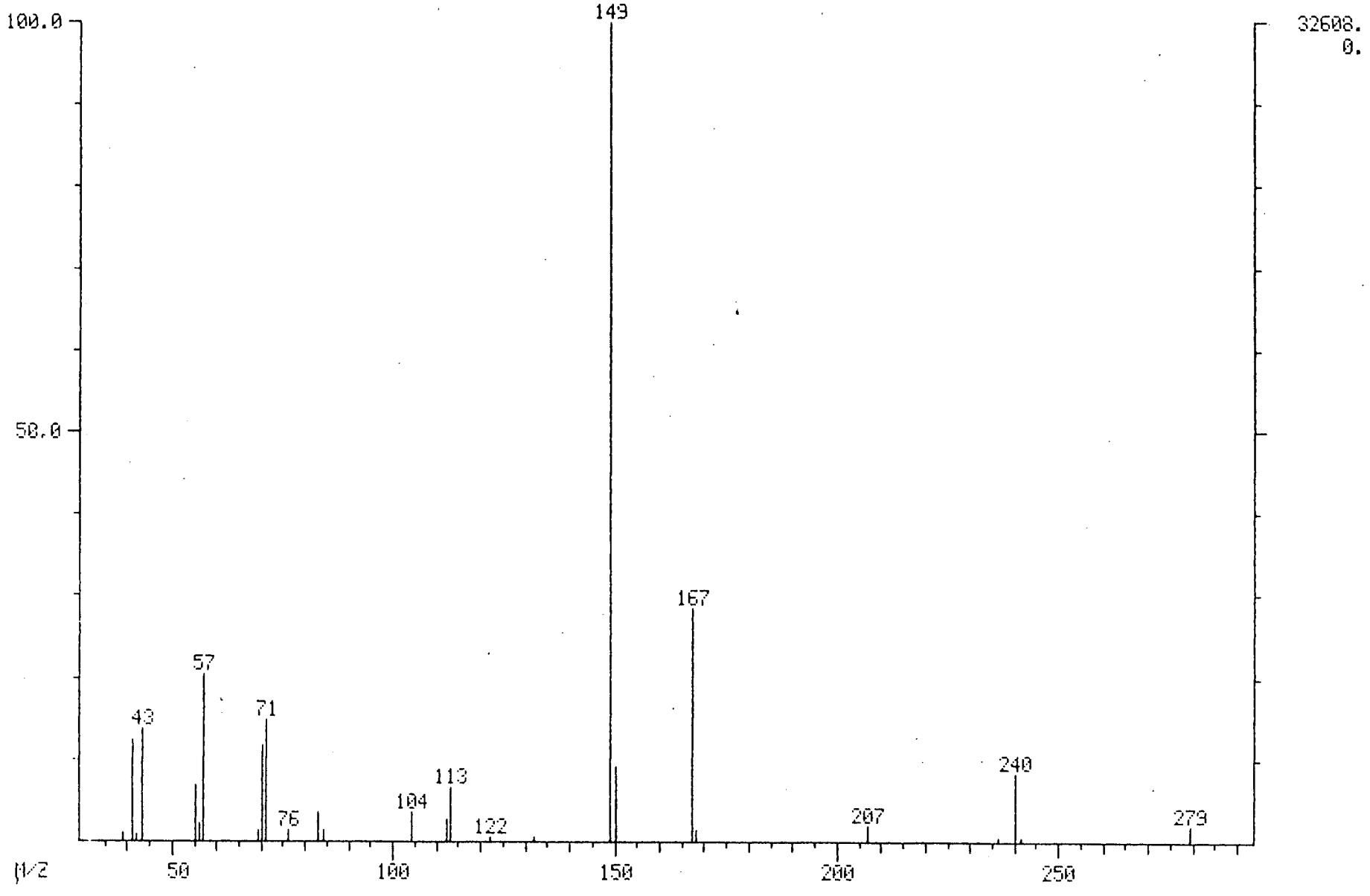
000119

MASS SPECTRUM
11/13/90 3:00:00 + 29:44
SAMPLE: TRIP BLANK
CONDS.: 1000MLS/1.0ML
TEMP: 290 DEG. C

DATA: 296404 #2973
CALI: 296404 #3

BASE M/Z: 149
RIC: 84608.

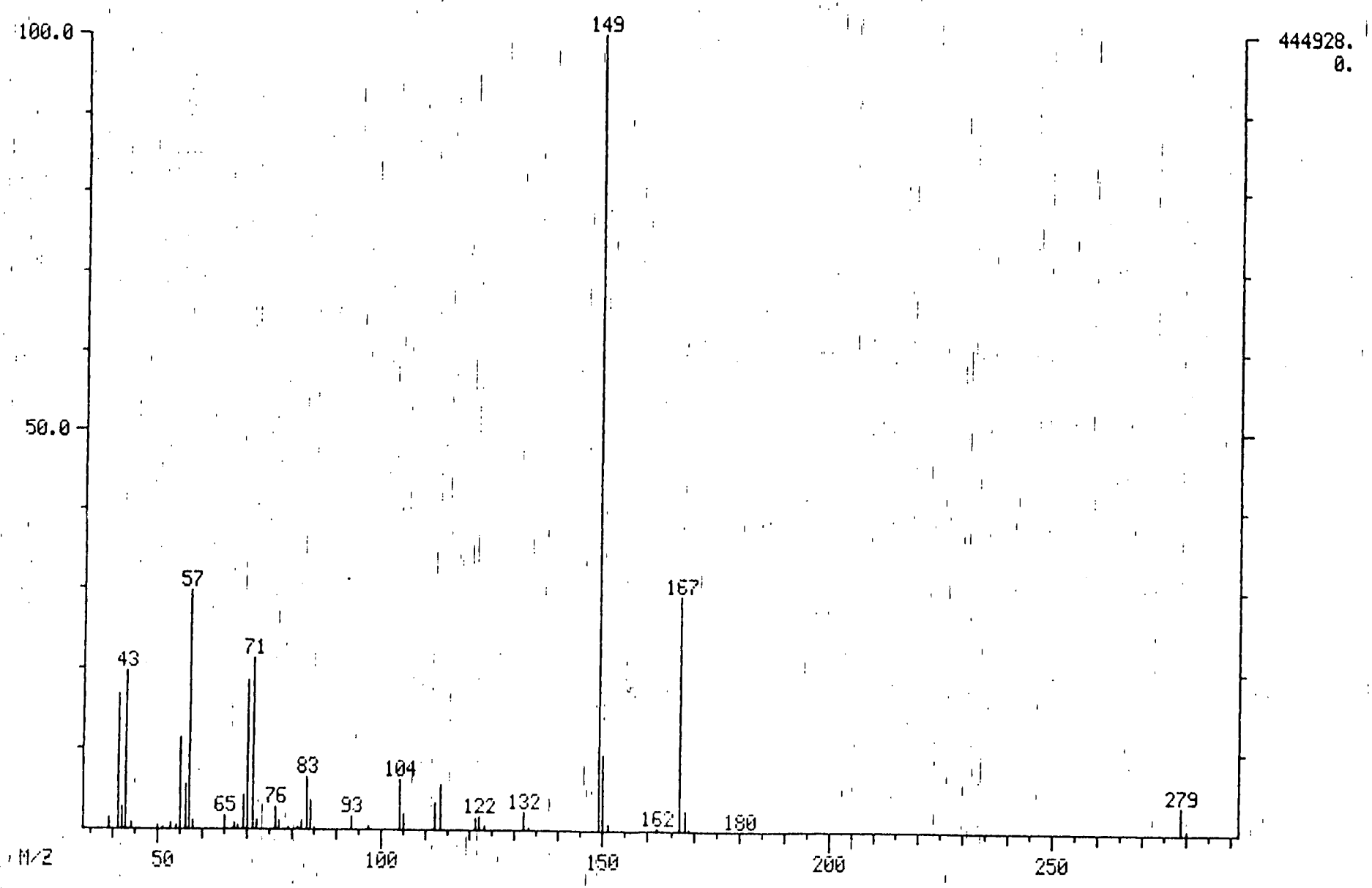
NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE



MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1454080.



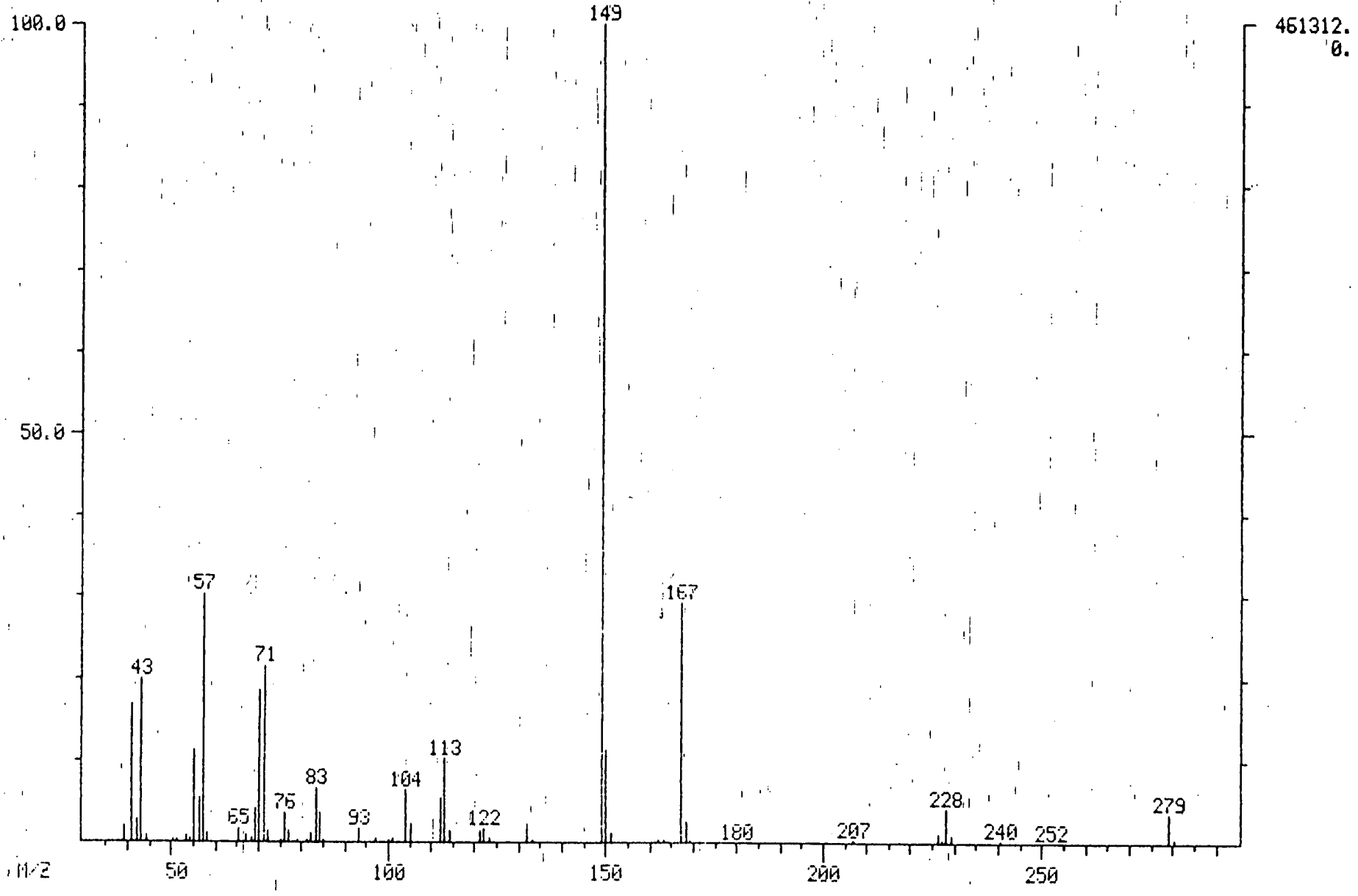
000121

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1609730.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE



0001122

Quantitation Report File: 296404

000123

Data: 296404.TI
11/13/90 3:00:00
Sample: TRIP BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296404

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

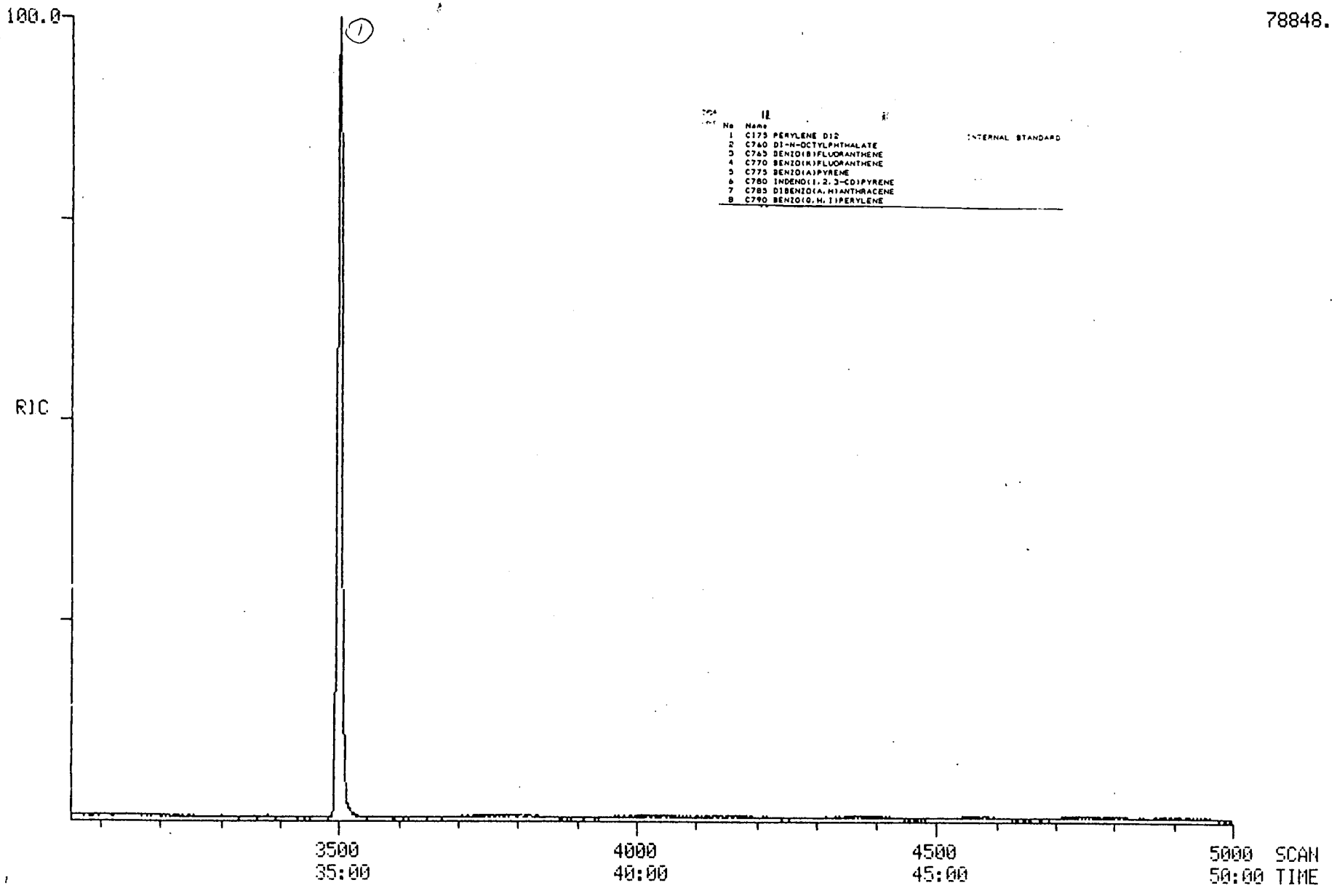
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	240	2959	29:35	1	1.000	A BB	847923.	40.000 UG/ML	27.65	
2	NOT FOUND									
3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	149	2973	29:44	1	1.005	A BB	122912.	5.435 UG/ML	3.76	Yes WSS
8	NOT FOUND									
9	244	2684	26:50	1	0.907	A BB	1986630.	99.238 UG/ML	68.59	Yes WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13		0.885						
3	26:23		0.891						
4	28:10		0.951						
5	29:32		0.998						
6	29:35		0.999						
7	29:44	1.00	1.004	1.00	5.43	50.00	0.116	1.067	0.11
8	29:35		0.999						
9	26:51	1.00	0.907	1.00	99.24	50.00	1.874	0.944	1.98

RIC
11/13/90 3:00:00
SAMPLE: TRIP BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296404 #1
CALI: 296404 #3

SCANS 3050 TO 5000



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000124

Quantitation Report File: 296404

000125

Data: 296404.TI
11/13/90 3:00:00
Sample: TRIP BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296404

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3499	34:59	1	1.000	A BB	322265.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:54		0.911						
3	33:17		0.951						
4	33:25		0.954						
5	34:45		0.992						
6	41:32		1.186						
7	41:49		1.194						
8	43:34		1.244						

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FIELD_BLANK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296405

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

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

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

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
103-33-3	Azobenzene (2)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FIELD_BLANK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: 296405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 296405

Level: (low/med) LOW Date Received: 11/02/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

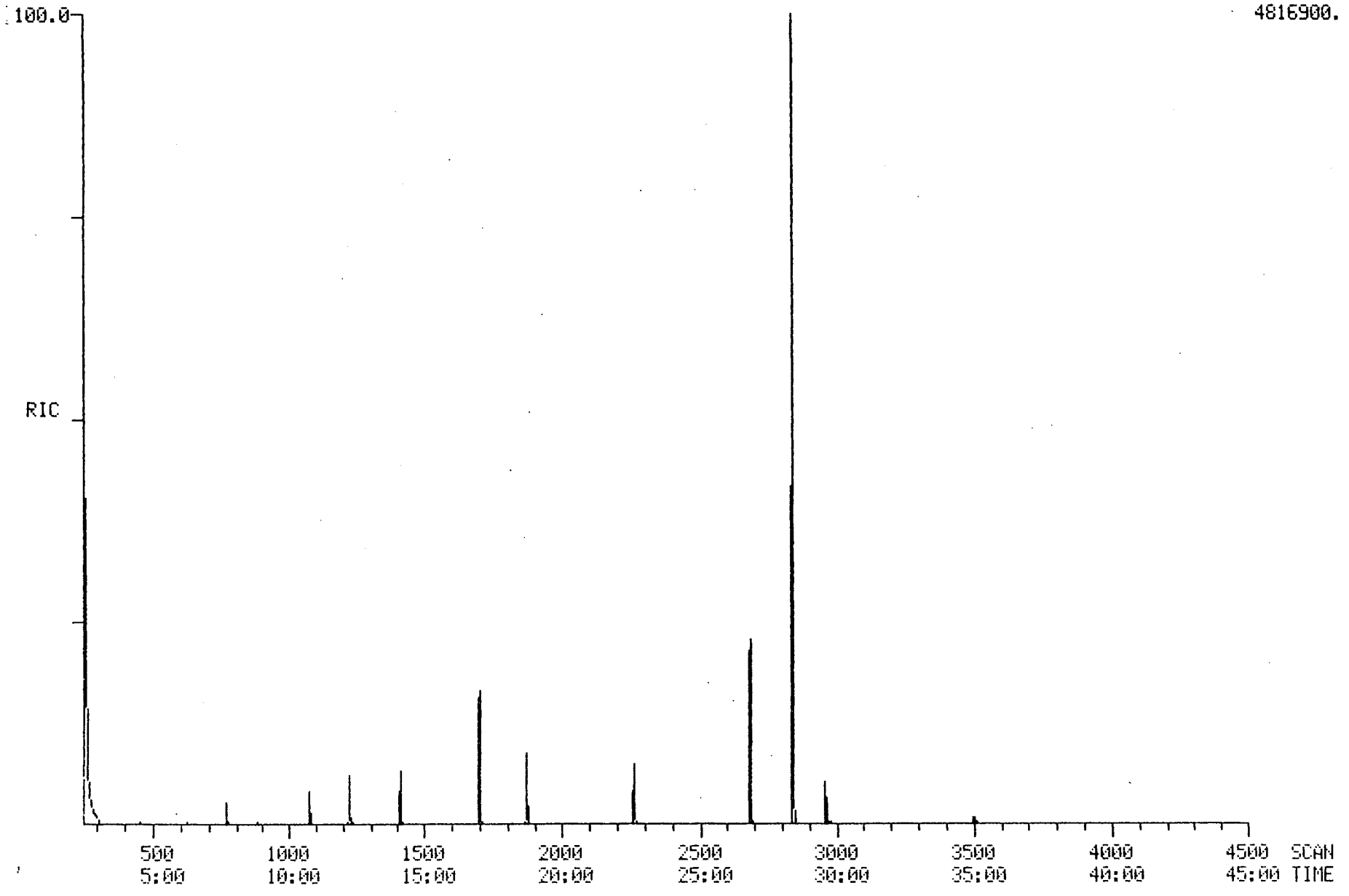
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

RIC
11/13/90 3:59:00
SAMPLE: FIELD BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296405 #1
CALI: 296400S #3

SCANS 250 TO 4500

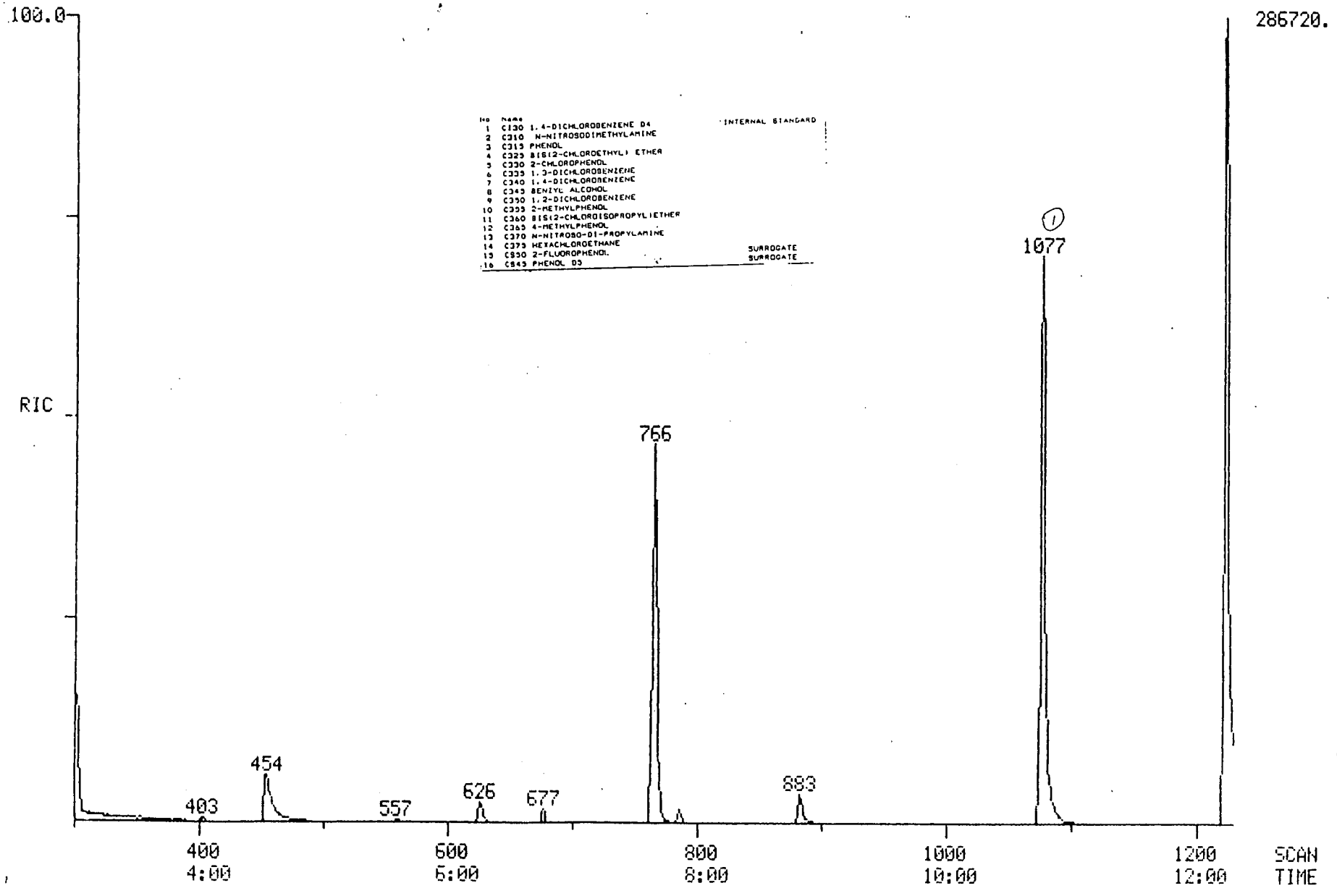


000128

RIC
11/13/90 3:59:00
SAMPLE: FIELD BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296405 #1
CALI: 296405 #3

SCANS 300 TO 1230



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C830 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000129

Quantitation Report File: 296405

000130

Data: 296405.TI
11/13/90 3:59:00
Sample: FIELD BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296405

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1077	10:46	1	1.000	A BB	168352.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								

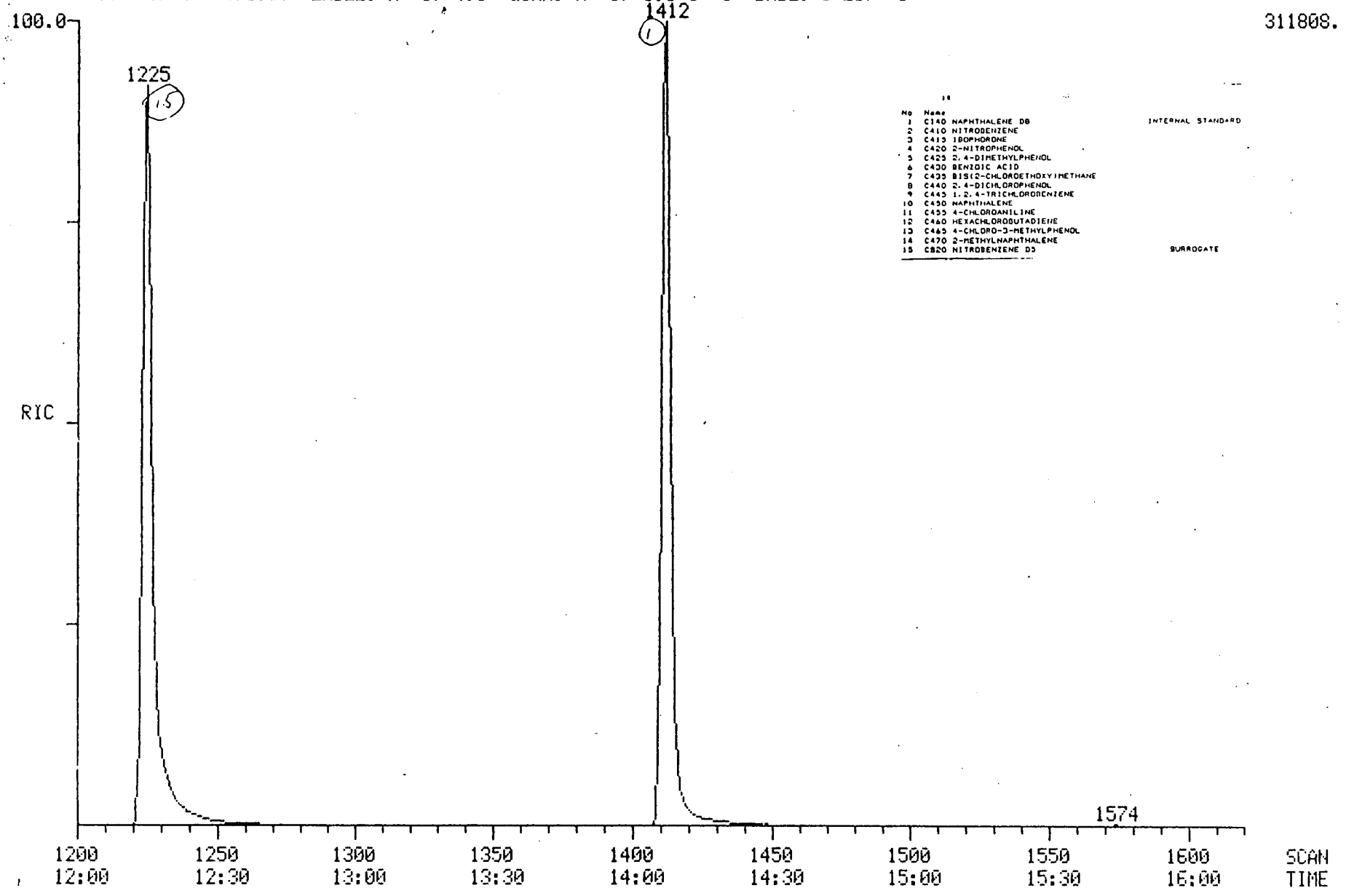
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:29		0.324						
3	9:56		0.923						
4	10:08		0.941						
5	10:12		0.948						
6	10:36		0.985						
7	10:48		1.004						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11		1.040						
9	11:11		1.040						
10	11:31		1.071						
11	11:34		1.075						
12	11:56		1.110						
13	11:55		1.107						
14	12:05		1.123						
15	7:16		0.675						
16	9:54		0.920						

RIC
11/13/90 3:59:00
SAMPLE: FIELD BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296405 #1
CALI: 296405 #3

SCANS 1200 TO 1620



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 IBOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C820 NITROBENZENE D5	SURROGATE

0001132

Quantitation Report File: 296405

000133

Data: 296405.TI
11/13/90 3:59:00
Sample: FIELD BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296405

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1412	14:07	1	1.000	A BB	682342.	40.000 UG/ML	37.79
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	82	1225	12:15	1	0.868	A BB	466740.	65.854 UG/ML	62.21 Yes WSS

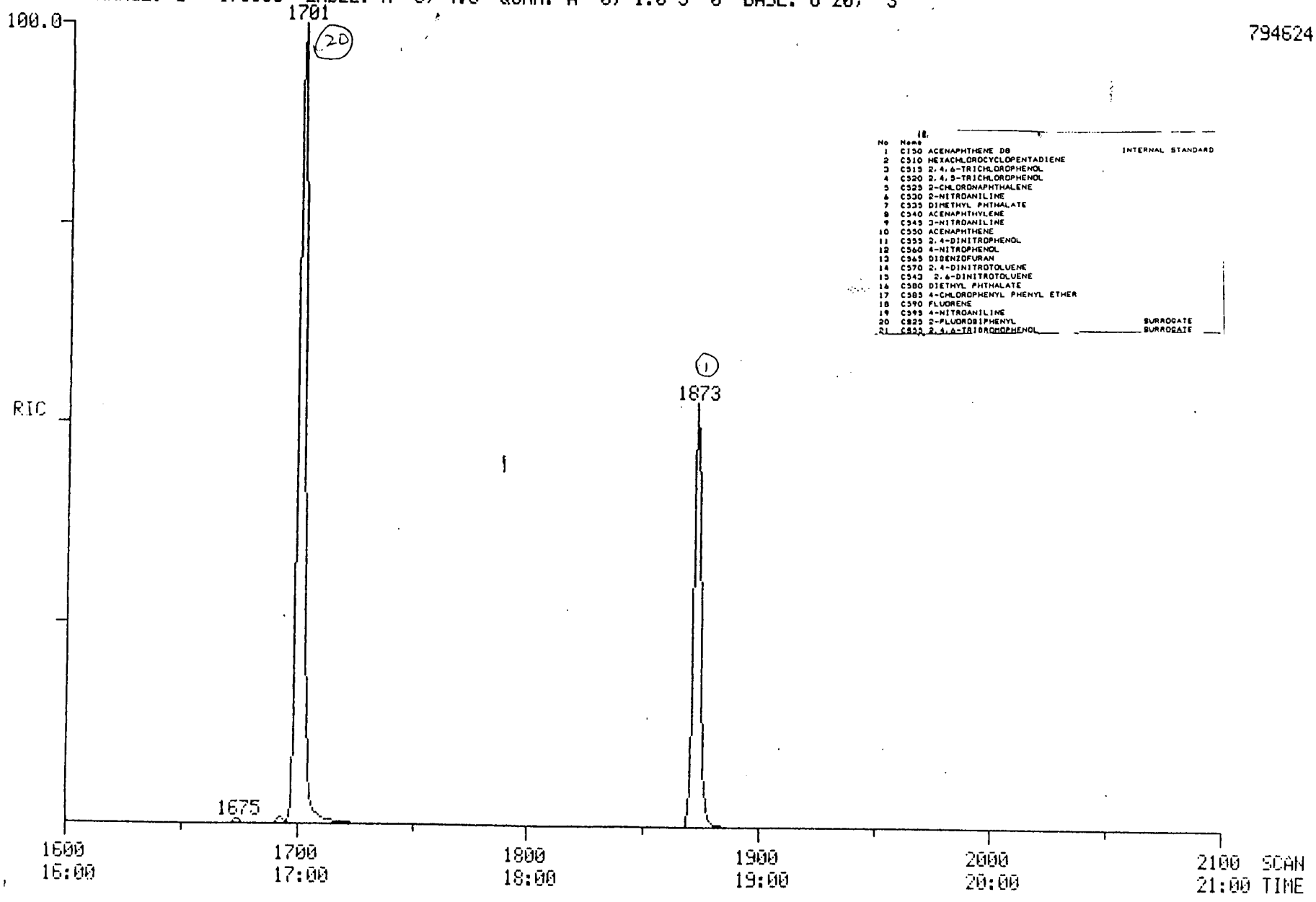
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17		0.871						
3	12:57		0.918						
4	13:08		0.931						
5	13:20		0.945						
6	13:48		0.978						
7	13:34		0.962						
8	13:47		0.977						
9	13:59		0.991						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:10		1.004						
11	14:21		1.017						
12	14:31		1.029						
13	15:41		1.112						
14	16:00		1.134						
15	12:14	1.00	0.867	1.00	65.85	50.00	0.547	0.415	1.32

RIC
11/13/90 3:59:00
SAMPLE: FIELD BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296405 #1
CALI: 296405 #3

SCANS 1600 TO 2100



794624.

No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C573 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C825 2-FLUOROBIPHENYL	SURROGATE
21	C835 2,4,6-TRIBROMOPHENOL	SURROGATE

000135

Quantitation Report File: 296405

000136

Data: 296405.TI
11/13/90 3:59:00
Sample: FIELD BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296405

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1873	18:44	1	1.000	A BB	406016.	40.000 UG/ML	30.69
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	172	1701	17:01	1	0.908	A BB	1039230.	90.353 UG/ML	69.32
21	NOT FOUND								

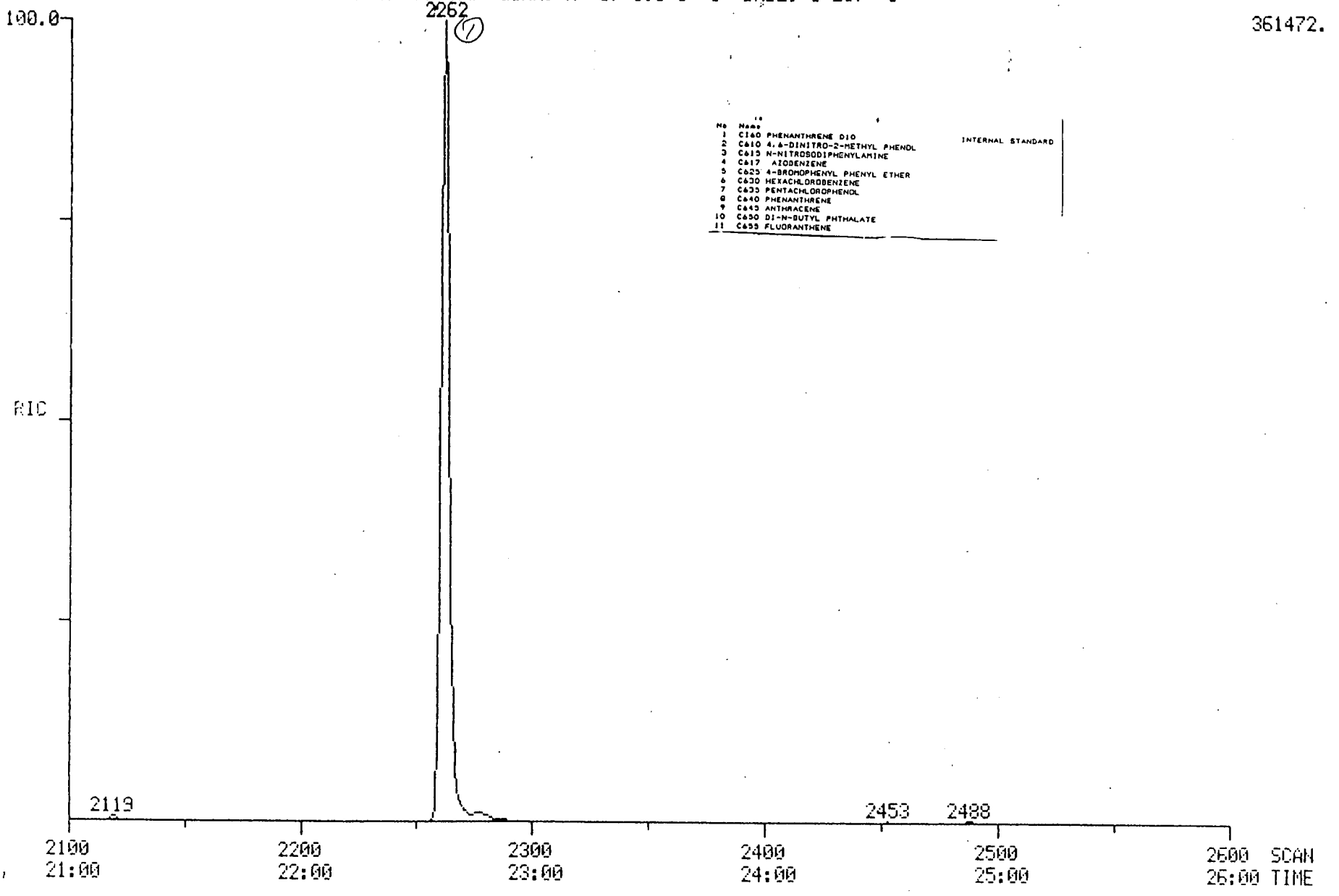
Yes WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25		0.877						
3	16:46		0.896						
4	16:52		0.901						
5	17:16		0.923						
6	17:35		0.939						
7	18:06		0.967						
8	18:21		0.980						
9	18:40		0.997						
10	18:49		1.005						
11	18:57		1.012						
12	19:11		1.025						
13	19:16		1.029						
14	19:17		1.030						
15	18:14		0.974						
16	19:58		1.066						
17	20:12		1.079						
18	20:10		1.077						
19	20:16		1.083						
20	17:00	1.00	0.908	1.00	90.35	50.00	2.048	1.133	1.81
21	20:47		1.111						

RIC
11/13/90 3:59:00
SAMPLE: FIELD BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296405 #1
CALI: 296405 #3

SCANS 2100 TO 2600



No	Name	
1	C140 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

Quantitation Report File: 296405

000139

Data: 296405.TI
11/13/90 3:59:00
Sample: FIELD BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296405

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

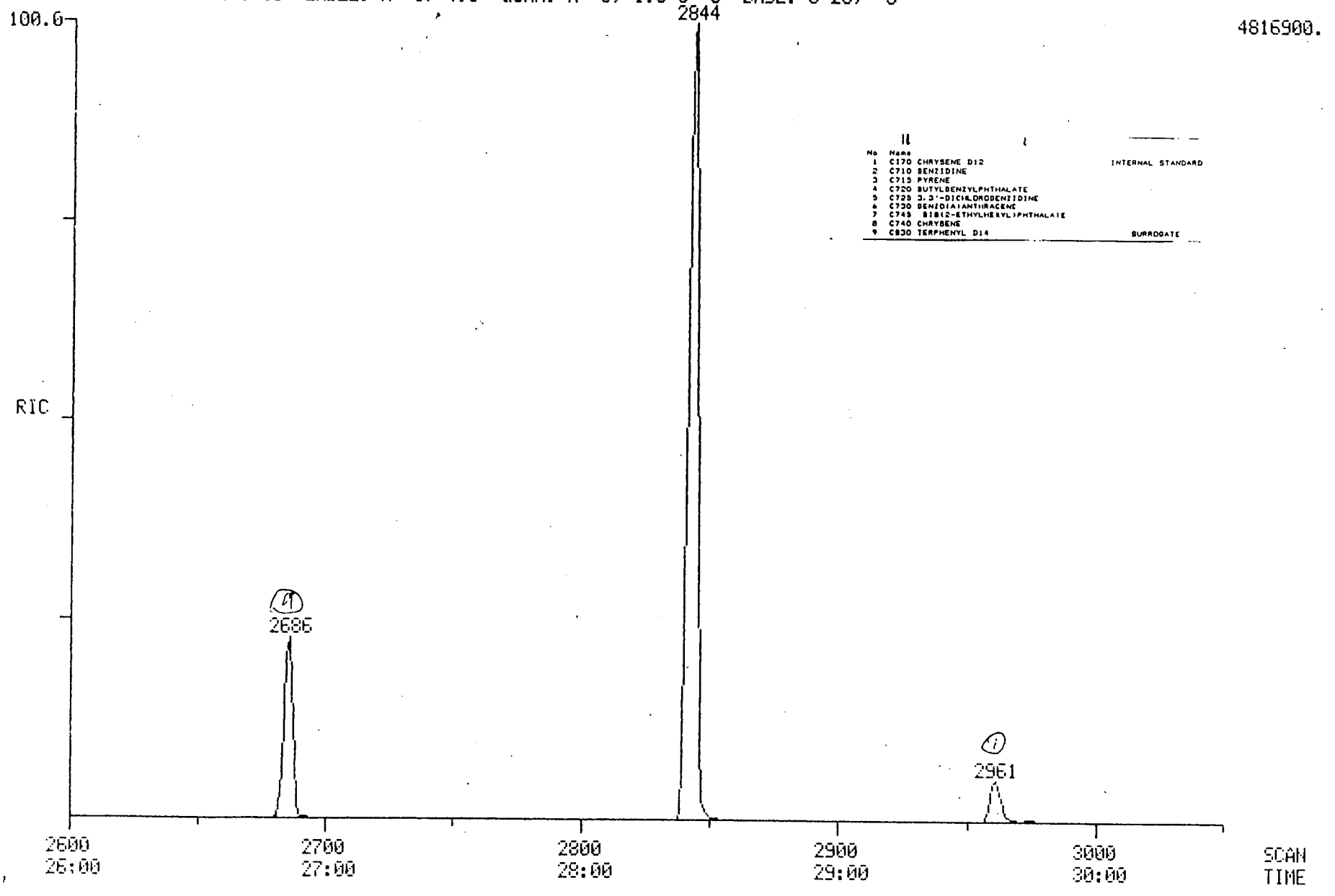
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2262	22:37	1	1.000	A BV	397688.	40.000 UG/ML	99.97
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	149	2426	24:16	1	1.073	A BB	~~304.~~	~~0.012 UG/ML~~	~~0.03~~ NO WSS
11	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20		0.900						
3	20:31		0.908						
4	20:37		0.912						
5	21:28		0.950						
6	21:35		0.955						
7	22:08		0.979						
8	22:41		1.003						
9	22:49		1.009						
10	24:14	1.00	1.072	1.00	0.01	50.00	0.001	2.547	0.00
11	25:48		1.141						

RIC
11/13/90 3:59:00
SAMPLE: FIELD BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296405 #1
CALI: 296405 #3

SCANS 2600 TO 3050



No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000140

Quantitation Report File: 296405

000141

Data: 296405.TI
11/13/90 3:59:00
Sample: FIELD BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296405

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

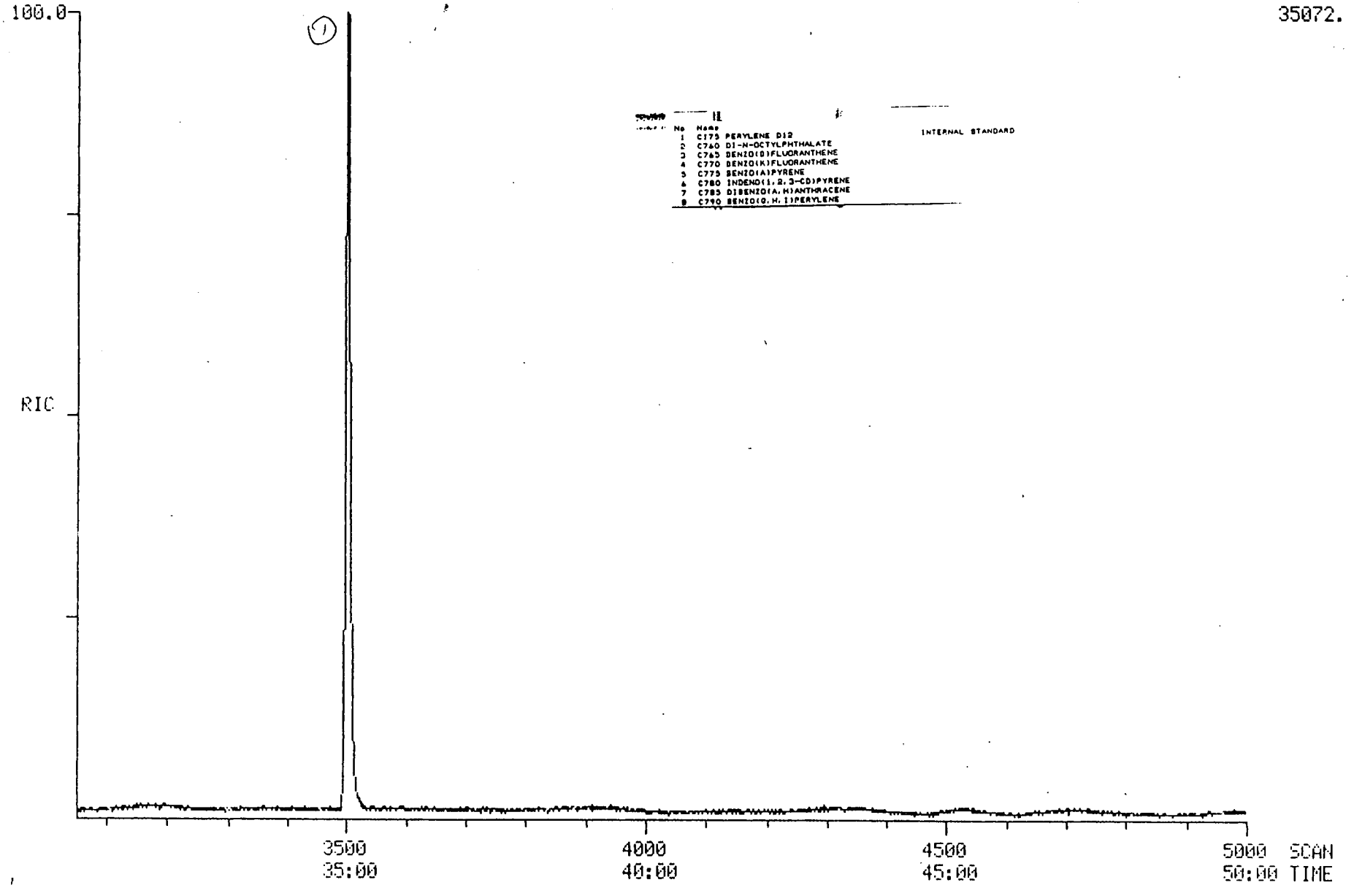
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2961	29:37	1	1.000	A BB	528074.	40.000 UG/ML	24.22
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	149	2974	29:44	1	1.004	A BB	~~18176.~~	~~1.290 UG/ML~~	~~0.78~~ NO WSS
8	NOT FOUND								
9	244	2686	26:52	1	0.907	A BB	1544260.	123.863 UG/ML	75.00 Yes WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13		0.885						
3	26:23		0.891						
4	28:10		0.951						
5	29:32		0.998						
6	29:35		0.999						
7	29:44	1.00	1.004	1.00	1.29	50.00	0.028	1.067	0.03
8	29:35		0.999						
9	26:51	1.00	0.907	1.00	123.86	50.00	2.339	0.944	2.48

RIC
11/13/90 3:59:00
SAMPLE: FIELD BLANK
CONDS.: 1000MLS/1.0ML
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296405 #1
CALI: 296405 #3

SCANS 3050 TO 5000



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000142

Quantitation Report File: 296405

000143

Data: 296405.TI
11/13/90 3:59:00
Sample: FIELD BLANK
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GANNETT Analyst: WSS Acct. No.: 296405

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3501	35:01	1	1.000	A BB	161818.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:54		0.911						
3	33:17		0.951						
4	33:25		0.954						
5	34:45		0.992						
6	41:32		1.186						
7	41:49		1.194						
8	43:34		1.244						

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

ANALYTICAL DATA REPORT PACKAGE
FOR
GANNET & FLEMING INC.

PART 2 OF 3

Field Sample ID	Laboratory Sample ID	Date of Collection
14 A	296400	11/01/90
14 B	296401	11/01/90
14 C	296402	11/01/90
29 C	296403	11/01/90
FIELD BLANK	296404	11/01/90
TRIP BLANK	296405	11/01/90

Laboratory Name: QC Inc.

Certification No.: PADER No. 09-131
NJDEP No. 77166

Supervisor/Manager Signature: Thomas J. Hines

Printed Name: Thomas J. Hines

Date: 11-30-90

QC G-1

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

TABLE OF CONTENTS

FORM NO.	FORM NAME/CONTENTS	PAGE
	Semivolatile Organic Standard Data Package...	144

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: QC INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration Date(s): 11/09/90 11/09/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HSD201109 RRF50 = HSD501109R
RRF80 = HSD801109 RRF120= HSD1201109 RRF160= HSC1601109

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
N-Nitrosodimethylamine	0.797	0.953	1.057	1.059	0.891	0.951	11.8
Phenol *	1.504	1.741	1.670	1.544	1.604	1.613	5.9*
bis(2-Chloroethyl)Ether	1.433	1.381	1.419	1.274	1.276	1.357	5.7
2-Chlorophenol	1.286	1.427	1.438	1.316	1.355	1.364	4.9
1,3-Dichlorobenzene	1.478	1.575	1.511	1.367	1.336	1.453	6.9
1,4-Dichlorobenzene *	1.520	1.619	1.516	1.350	1.283	1.458	9.4*
Benzyl Alcohol	0.696	0.809	0.778	0.731	0.775	0.758	5.8
1,2-Dichlorobenzene	1.365	1.434	1.318	1.155	1.104	1.275	11.0
2-Methylphenol	1.262	1.312	1.271	1.184	1.217	1.249	4.0
bis(2-Chloroisopropyl)Ether	0.008	0.018	0.020	0.021	0.022	0.018	31.5
4-Methylphenol	1.011	1.093	1.072	0.933	0.825	0.987	11.1
N-Nitroso-Di-n-Propylamine #	1.130	1.046	1.071	1.017	1.032	1.059	4.2#
Hexachloroethane	0.601	0.684	0.656	0.615	0.599	0.631	5.9
Nitrobenzene	0.371	0.415	0.400	0.358	0.360	0.381	6.7
Isophorone	0.696	0.717	0.736	0.676	0.674	0.700	3.8
2-Nitrophenol *	0.114	0.139	0.149	0.140	0.153	0.139	10.9*
2,4-Dimethylphenol	0.276	0.288	0.284	0.255	0.272	0.275	4.7
Benzoic Acid		0.129	0.146	0.142	0.095	0.128	18.1
bis(2-Chloroethoxy)Methane	0.393	0.366	0.384	0.353	0.375	0.374	4.2
2,4-Dichlorophenol *	0.253	0.279	0.279	0.252	0.266	0.266	5.0*
1,2,4-Trichlorobenzene	0.326	0.332	0.316	0.268	0.268	0.302	10.4
Naphthalene	0.983	0.916	0.889	0.738	0.722	0.850	13.5
4-Chloroaniline	0.353	0.390	0.411	0.362	0.375	0.378	6.1
Hexachlorobutadiene *	0.185	0.183	0.177	0.149	0.145	0.168	11.5*
4-Chloro-3-Methylphenol *	0.275	0.293	0.291	0.257	0.230	0.269	9.8*
2-Methylnaphthalene	0.627	0.574	0.551	0.458	0.481	0.538	12.8
Hexachlorocyclopentadiene #	0.179	0.218	0.228	0.217	0.232	0.215	9.8#
2,4,6-Trichlorophenol *	0.332	0.343	0.340	0.323	0.352	0.338	3.3*
2,4,5-Trichlorophenol		0.388	0.402	0.348	0.273	0.353	16.4
2-Chloronaphthalene	1.225	1.132	1.073	0.943	0.989	1.072	10.5
2-Nitroaniline		0.393	0.406	0.408	0.358	0.391	5.9
Dimethyl Phthalate	1.538	1.263	1.375	1.252	0.826	1.251	21.1
Acenaphthylene	1.811	1.638	1.617	1.434	1.427	1.585	10.1
2,6-Dinitrotoluene	0.290	0.306	0.320	0.312	0.227	0.291	12.9
3-Nitroaniline		0.282	0.342	0.351	0.243	0.304	16.8
Acenaphthene *	1.138	1.019	0.973	0.865	0.864	0.972	11.8*
2,4-Dinitrophenol #		0.066	0.101	0.132	0.103	0.100	27.0#
4-Nitrophenol #		0.124	0.144	0.170	0.119	0.139	16.7#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: QC INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration Date(s): 11/09/90 11/09/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

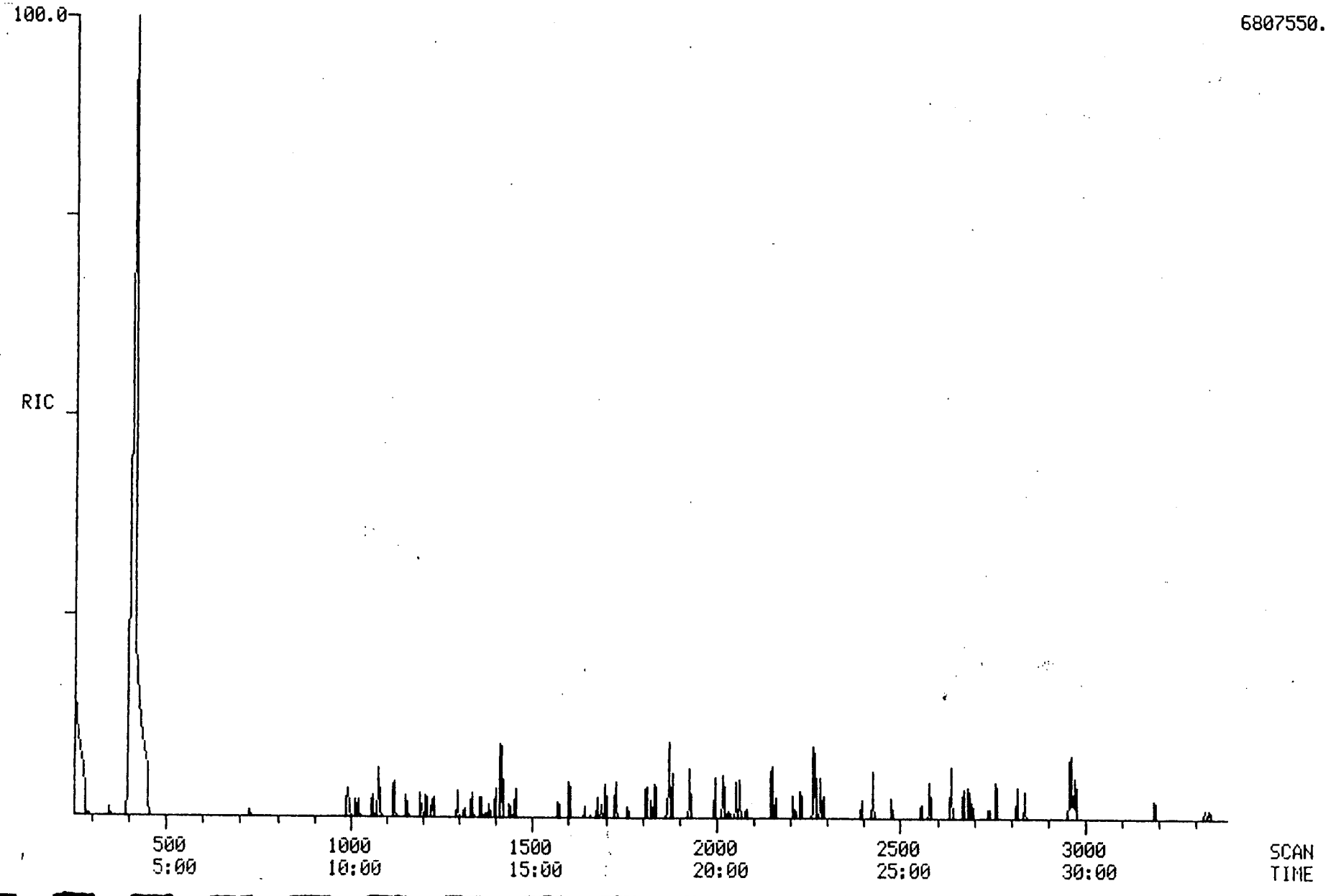
LAB FILE ID: RRF20 = HSD201109 RRF50 = HSD501109R
RRF80 = HSD801109 RRF120= HSD1201109 RRF160= HSC1601109

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.708	1.432	1.388	1.229	1.223	1.396	14.2
2,4-Dinitrotoluene	0.411	0.409	0.396	0.385	0.267	0.374	16.2
Diethylphthalate	1.651	1.332	1.424	1.224	0.899	1.306	21.2
4-Chlorophenyl-phenylether	0.632	0.495	0.511	0.416	0.355	0.482	21.8
Fluorene	1.356	1.142	1.163	1.017	0.929	1.121	14.5
4-Nitroaniline		0.078	0.243	0.281	0.203	0.201	43.8
4,6-Dinitro-2-Methylphenol		0.166	0.199	0.185	0.172	0.180	8.1
N-Nitrosodiphenylamine (1) *	1.102	0.862	0.969	0.799	0.862	0.919	13.0*
Azobenzene (2)	1.598	1.692	1.670	1.483	1.683	1.625	5.4
4-Bromophenyl-phenylether	0.409	0.334	0.332	0.253	0.276	0.321	18.9
Hexachlorobenzene	0.390	0.376	0.379	0.329	0.350	0.365	6.8
Pentachlorophenol *		0.220	0.226	0.208	0.211	0.216	3.8*
Phenanthrene	2.010	1.834	1.757	1.506	1.564	1.734	11.8
Anthracene	2.118	1.935	1.843	1.393	1.416	1.741	18.5
Di-n-Butylphthalate	2.753	2.466	2.196	1.874	2.074	2.273	15.1
Fluoranthene *	2.038	2.012	1.650	1.494	1.502	1.739	15.4*
Benzidine		0.096	0.069	0.150	0.150	0.116	34.9
Pyrene	1.580	1.277	1.427	1.130	1.038	1.290	17.0
Butylbenzylphthalate	0.677	0.685	0.694	0.705	0.693	0.691	1.5
3,3'-Dichlorobenzidine	0.211	0.251	0.214	0.252	0.275	0.241	11.4
Benzo(a)Anthracene	1.060	1.073	1.081	0.972	0.949	1.027	6.0
Chrysene	0.862	0.890	0.887	0.701	0.673	0.803	13.3
bis(2-Ethylhexyl)Phthalate	1.065	1.095	1.153	1.028	0.964	1.061	6.7
Di-n-Octyl Phthalate *	2.061	2.036	2.561	2.198	2.359	2.243	9.8*
Benzo(b)Fluoranthene	1.012	1.092	1.203	1.145	1.155	1.121	6.5
Benzo(k)Fluoranthene	1.115	1.068	1.243	0.881	0.939	1.049	13.7
Benzo(a)Pyrene *	0.870	1.023	1.080	0.957	1.010	0.988	8.0*
Indeno(1,2,3-cd)Pyrene	0.434	0.513	0.546	0.446	0.447	0.477	10.4
Dibenz(a,h)Anthracene	0.430	0.569	0.600	0.622	0.601	0.564	13.7
Benzo(g,h,i)Perylene	0.401	0.489	0.547	0.514	0.492	0.489	11.1
Nitrobenzene-d5	0.358	0.470	0.462	0.395	0.376	0.412	12.4
2-Fluorobiphenyl	1.234	1.285	1.180	0.994	1.007	1.140	11.6
Terphenyl-d14	1.094	1.055	1.169	0.918	0.813	1.010	14.1
Phenol-d5	1.278	1.356	1.307	1.227	1.252	1.284	3.9
2-Fluorophenol	0.808	1.056	1.081	1.129	1.168	1.048	13.5
2,4,6-Tribromophenol	0.150	0.148	0.175	0.188	0.143	0.161	12.2

(1) Cannot be separated from Diphenylamine

RIC
11/09/90 21:39:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 20 NG INJECTION
RANGE: G 1,3379 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

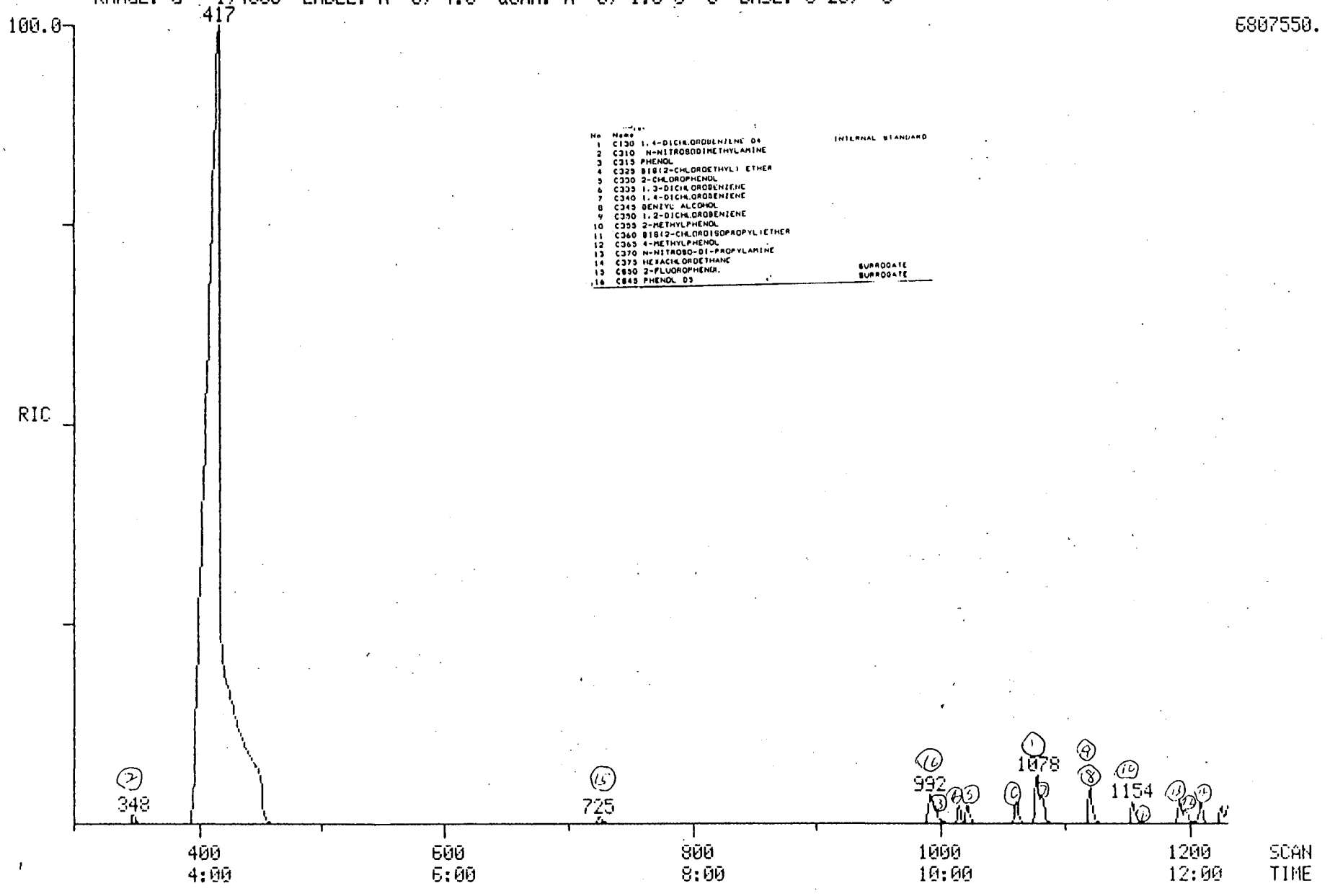
DATA: HSD201109 #1 SCANS 250 TO 3383
CALI: CALTAB #3



000146

RIC
11/09/90 21:39:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201109 #1 SCANS 300 TO 1230
CALI: HSD201109 #3



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C850 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

0001447

Quantitation Report File: HSD201109

000148

Data: HSD201109.TI
11/09/90 21:39:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC. Analyst: LA Acct. No.: HSD20110

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

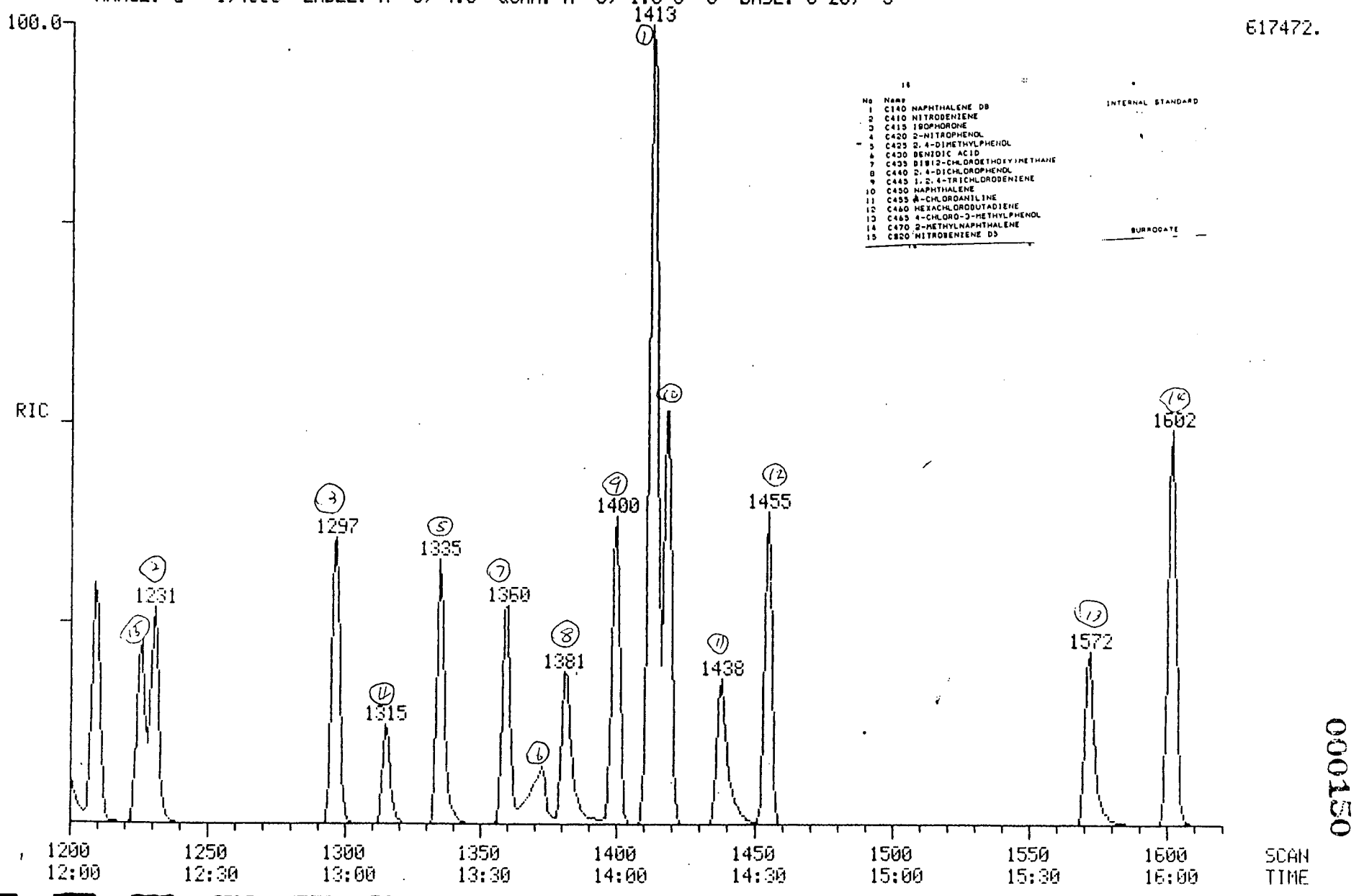
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1078	10:47	1	1.000	A BB	308288.	40.000 UG/ML	11.76
2	74	347	3:28	1	0.322	A BB	122880.	20.000 UG	5.88
3	94	995	9:57	1	0.923	A BB	231898.	20.000 UG/ML	5.88
4	93	1015	10:09	1	0.942	A BB	220814.	20.000 UG/ML	5.88
5	128	1022	10:13	1	0.948	A BB	198240.	20.000 UG/ML	5.88
6	146	1061	10:37	1	0.984	A BB	227808.	20.000 UG/ML	5.88
7	146	1082	10:49	1	1.004	A BB	234272.	20.000 UG/ML	5.88
8	108	1121	11:13	1	1.040	A BB	107360.	20.000 UG/ML	5.88
9	146	1121	11:13	1	1.040	A BB	210464.	20.000 UG/ML	5.88
10	108	1154	11:32	1	1.071	A BB	194512.	20.000 UG/ML	5.88
11	45	1165	11:39	1	1.081	A BB	1216.	20.000 UG/ML	5.88
12	108	1197	11:58	1	1.110	A BB	155828.	20.000 UG/ML	5.88
13	70	1193	11:56	1	1.107	A BB	174128.	20.000 UG/ML	5.88
14	117	1209	12:05	1	1.122	A BB	92624.	20.000 UG/ML	5.88
15	112	725	7:15	1	0.673	A BB	124586.	20.000 UG/L	5.88
16	99	991	9:55	1	0.919	A BB	196927.	20.000 UG/ML	5.88

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:28	1.00	0.322	1.00	20.00	20.00	0.797	0.797	1.00
3	9:57	1.00	0.923	1.00	20.00	20.00	1.504	1.504	1.00
4	10:09	1.00	0.942	1.00	20.00	20.00	1.433	1.433	1.00
5	10:13	1.00	0.948	1.00	20.00	20.00	1.286	1.286	1.00
6	10:37	1.00	0.984	1.00	20.00	20.00	1.478	1.478	1.00
7	10:49	1.00	1.004	1.00	20.00	20.00	1.520	1.520	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:13	1.00	1.040	1.00	20.00	20.00	0.696	0.696	1.00
9	11:13	1.00	1.040	1.00	20.00	20.00	1.365	1.365	1.00
10	11:32	1.00	1.070	1.00	20.00	20.00	1.262	1.262	1.00
11	11:39	1.00	1.081	1.00	20.00	20.00	0.008	0.008	1.00
12	11:58	1.00	1.110	1.00	20.00	20.00	1.011	1.011	1.00
13	11:56	1.00	1.107	1.00	20.00	20.00	1.130	1.130	1.00
14	12:05	1.00	1.122	1.00	20.00	20.00	0.601	0.601	1.00
15	7:15	1.00	0.673	1.00	20.00	20.00	0.808	0.808	1.00
16	9:55	1.00	0.919	1.00	20.00	20.00	1.278	1.278	1.00

RIC
11/09/90 21:39:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201109 #1 SCANS 1200 TO 1620
CALI: HSD201109 #3



000150

Quantitation Report File: HSD201109

Data: HSD201109.TI
11/09/90 21:39:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC. Analyst: LA Acct. No.: HSD20110

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1413	14:08	1	1.000	A BB	1162210.	40.000 UG/ML	12.50
2	77	1231	12:19	1	0.871	A BB	215424.	20.000 UG/ML	6.25
3	82	1297	12:58	1	0.918	A BB	404640.	20.000 UG/ML	6.25
4	139	1315	13:09	1	0.931	A BB	66384.	20.000 UG/ML	6.25
5	122	1335	13:21	1	0.945	A BB	160496.	20.000 UG/ML	6.25
6	122	1373	13:44	1	0.972	A BB	79594.	20.000 UG/ML	6.25
7	93	1359	13:35	1	0.962	A BB	228320.	20.000 UG/ML	6.25
8	162	1381	13:49	1	0.977	A BB	146938.	20.000 UG/ML	6.25
9	180	1400	14:00	1	0.991	A BB	189424.	20.000 UG/ML	6.25
10	128	1418	14:11	1	1.004	A BB	571312.	20.000 UG/ML	6.25
11	127	1438	14:23	1	1.018	A BB	205326.	20.000 UG/ML	6.25
12	225	1455	14:33	1	1.030	A BB	107344.	20.000 UG/ML	6.25
13	107	1572	15:43	1	1.113	A BB	159696.	20.000 UG/ML	6.25
14	142	1602	16:01	1	1.134	A BB	364528.	20.000 UG/ML	6.25
15	82	1226	12:16	1	0.868	A BB	208304.	20.000 UG/ML	6.25

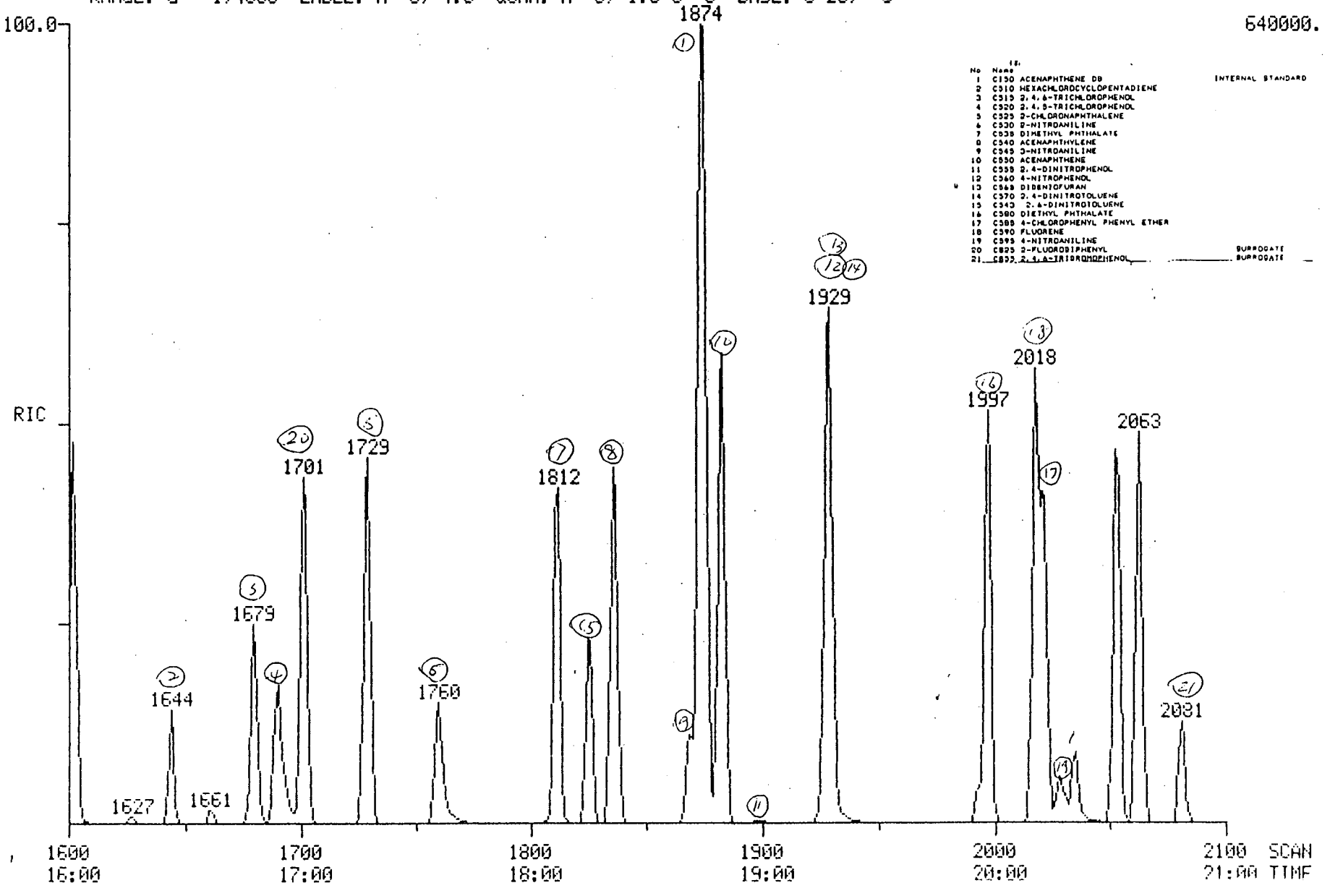
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:19	1.00	0.871	1.00	20.00	20.00	0.371	0.371	1.00
3	12:58	1.00	0.918	1.00	20.00	20.00	0.696	0.696	1.00
4	13:09	1.00	0.931	1.00	20.00	20.00	0.114	0.114	1.00
5	13:21	1.00	0.945	1.00	20.00	20.00	0.276	0.276	1.00
6	13:44	1.00	0.972	1.00	20.00	20.00	0.137	0.137	1.00
7	13:35	1.00	0.962	1.00	20.00	20.00	0.393	0.393	1.00
8	13:49	1.00	0.977	1.00	20.00	20.00	0.253	0.253	1.00
9	14:00	1.00	0.991	1.00	20.00	20.00	0.326	0.326	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:11	1.00	1.004	1.00	20.00	20.00	0.983	0.983	1.00
11	14:23	1.00	1.018	1.00	20.00	20.00	0.353	0.353	1.00
12	14:33	1.00	1.030	1.00	20.00	20.00	0.185	0.185	1.00
13	15:43	1.00	1.113	1.00	20.00	20.00	0.275	0.275	1.00
14	16:01	1.00	1.134	1.00	20.00	20.00	0.627	0.627	1.00
15	12:16	1.00	0.868	1.00	20.00	20.00	0.358	0.358	1.00

RIC
11/09/90 21:39:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201109 #1
CALI: HSD201109 #3

SCANS 1600 TO 2100



No	Name		
1	C150	ACENAPHTHENE D8	INTERNAL STANDARD
2	C310	HEXACHLOROCYCLOPENTADIENE	
3	C315	2,4,6-TRICHLOROPHENOL	
4	C320	2,4,5-TRICHLOROPHENOL	
5	C325	2-CHLORONAPHTHALENE	
6	C330	2-NITROANILINE	
7	C335	DIMETHYL PHTHALATE	
8	C340	ACENAPHTHYLENE	
9	C345	3-NITROANILINE	
10	C350	ACENAPHTHENE	
11	C355	2,4-DINITROPHENOL	
12	C360	4-NITROPHENOL	
13	C365	DIBENZOFURAN	
14	C370	2,4-DINITROTOLUENE	
15	C375	2,6-DINITROTOLUENE	
16	C380	DIETHYL PHTHALATE	
17	C385	4-CHLOROPHENYL PHENYL ETHER	
18	C390	FLUORENE	
19	C395	4-NITROANILINE	
20	C825	2-FLUOROBIPHENYL	SURROGATE
21	C835	2,4,6-TRIBROMOPHENOL	SURROGATE

000153

Quantitation Report File: HSD201109

Data: HSD201109.TI
11/09/90 21:39:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC. Analyst: LA Acct. No.: HSD20110

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

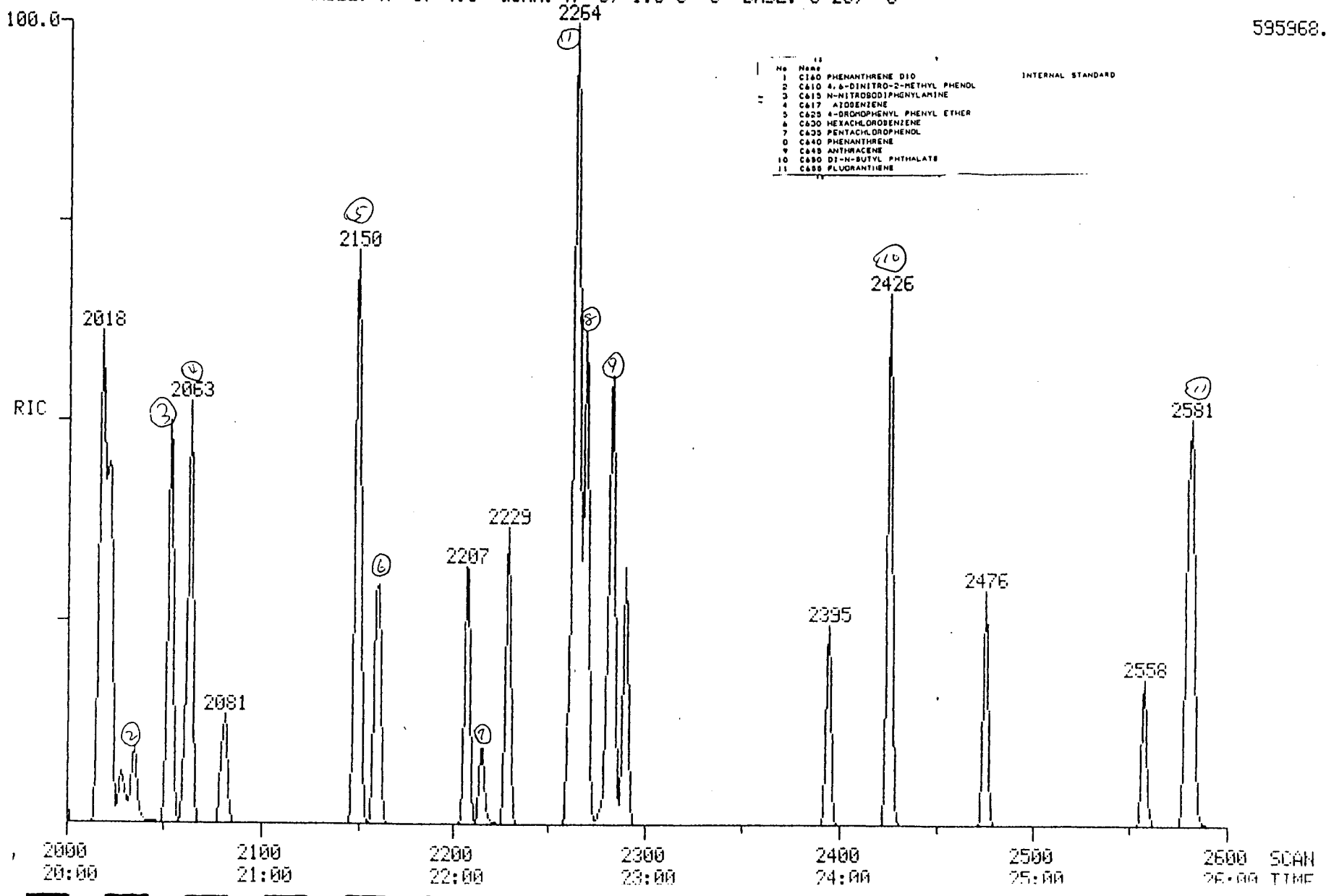
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1874	18:44	1	1.000	A BB	610384.	40.000 UG/ML	9.09
2	237	1644	16:26	1	0.877	A BB	54480.	20.000 UG/ML	4.55
3	196	1679	16:47	1	0.896	A BV	101421.	20.000 UG/ML	4.55
4	196	1690	16:54	1	0.902	A VB	122631.	20.000 UG/ML	4.55
5	162	1729	17:17	1	0.923	A BB	373712.	20.000 UG/ML	4.55
6	65	1760	17:36	1	0.939	A BB	102240.	20.000 UG/ML	4.55
7	163	1812	18:07	1	0.967	A BB	469504.	20.000 UG/ML	4.55
8	152	1836	18:22	1	0.980	A BB	552720.	20.000 UG/ML	4.55
9	138	1869	18:41	1	0.997	A BB	82816.	20.000 UG/ML	4.55
10	154	1883	18:50	1	1.005	A BB	347456.	20.000 UG/ML	4.55
11	184	1898	18:59	1	1.013	A BB	6688.	20.000 UG/ML	4.55
12	109	1928	19:17	1	1.029	A BB	13424.	20.000 UG/ML	4.55
13	168	1928	19:17	1	1.029	A BB	521360.	20.000 UG/ML	4.55
14	165	1929	19:17	1	1.029	A BB	125296.	20.000 UG/ML	4.55
15	165	1825	18:15	1	0.974	A BB	88592.	20.000 UG/ML	4.55
16	149	1997	19:58	1	1.066	A BB	503888.	20.000 UG/ML	4.55
17	204	2022	20:13	1	1.079	A BB	192864.	20.000 UG/ML	4.55
18	166	2018	20:11	1	1.077	A BB	413872.	20.000 UG/ML	4.55
19	138	2028	20:17	1	1.082	A BB	58622.	20.000 UG/ML	4.55
20	172	1701	17:01	1	0.908	A BB	376528.	20.000 UG/ML	4.55
21	330	2081	20:49	1	1.110	A BB	45728.	20.000 UG/ML	4.55

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:26	1.00	0.877	1.00	20.00	20.00	0.179	0.179	1.00
3	16:47	1.00	0.896	1.00	20.00	20.00	0.332	0.332	1.00
4	16:54	1.00	0.902	1.00	20.00	20.00	0.402	0.402	1.00
5	17:17	1.00	0.923	1.00	20.00	20.00	1.225	1.225	1.00
6	17:36	1.00	0.939	1.00	20.00	20.00	0.335	0.335	1.00
7	18:07	1.00	0.967	1.00	20.00	20.00	1.538	1.538	1.00
8	18:22	1.00	0.980	1.00	20.00	20.00	1.811	1.811	1.00
9	18:41	1.00	0.997	1.00	20.00	20.00	0.271	0.271	1.00
10	18:50	1.00	1.005	1.00	20.00	20.00	1.138	1.138	1.00
11	18:59	1.00	1.013	1.00	20.00	20.00	0.022	0.022	1.00
12	19:17	1.00	1.029	1.00	20.00	20.00	0.044	0.044	1.00
13	19:17	1.00	1.029	1.00	20.00	20.00	1.708	1.708	1.00
14	19:17	1.00	1.029	1.00	20.00	20.00	0.411	0.411	1.00
15	18:15	1.00	0.974	1.00	20.00	20.00	0.290	0.290	1.00
16	19:58	1.00	1.066	1.00	20.00	20.00	1.651	1.651	1.00
17	20:13	1.00	1.079	1.00	20.00	20.00	0.632	0.632	1.00
18	20:11	1.00	1.077	1.00	20.00	20.00	1.356	1.356	1.00
19	20:17	1.00	1.082	1.00	20.00	20.00	0.192	0.192	1.00
20	17:01	1.00	0.908	1.00	20.00	20.00	1.234	1.234	1.00
21	20:49	1.00	1.110	1.00	20.00	20.00	0.150	0.150	1.00

RIC
11/09/90 21:39:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201109 #1
CALI: HSD201109 #3

SCANS 2000 TO 2600



000156

Quantitation Report File: HSD201109

Data: HSD201109.TI
11/09/90 21:39:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC. Analyst: LA Acct. No.: HSD20110

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

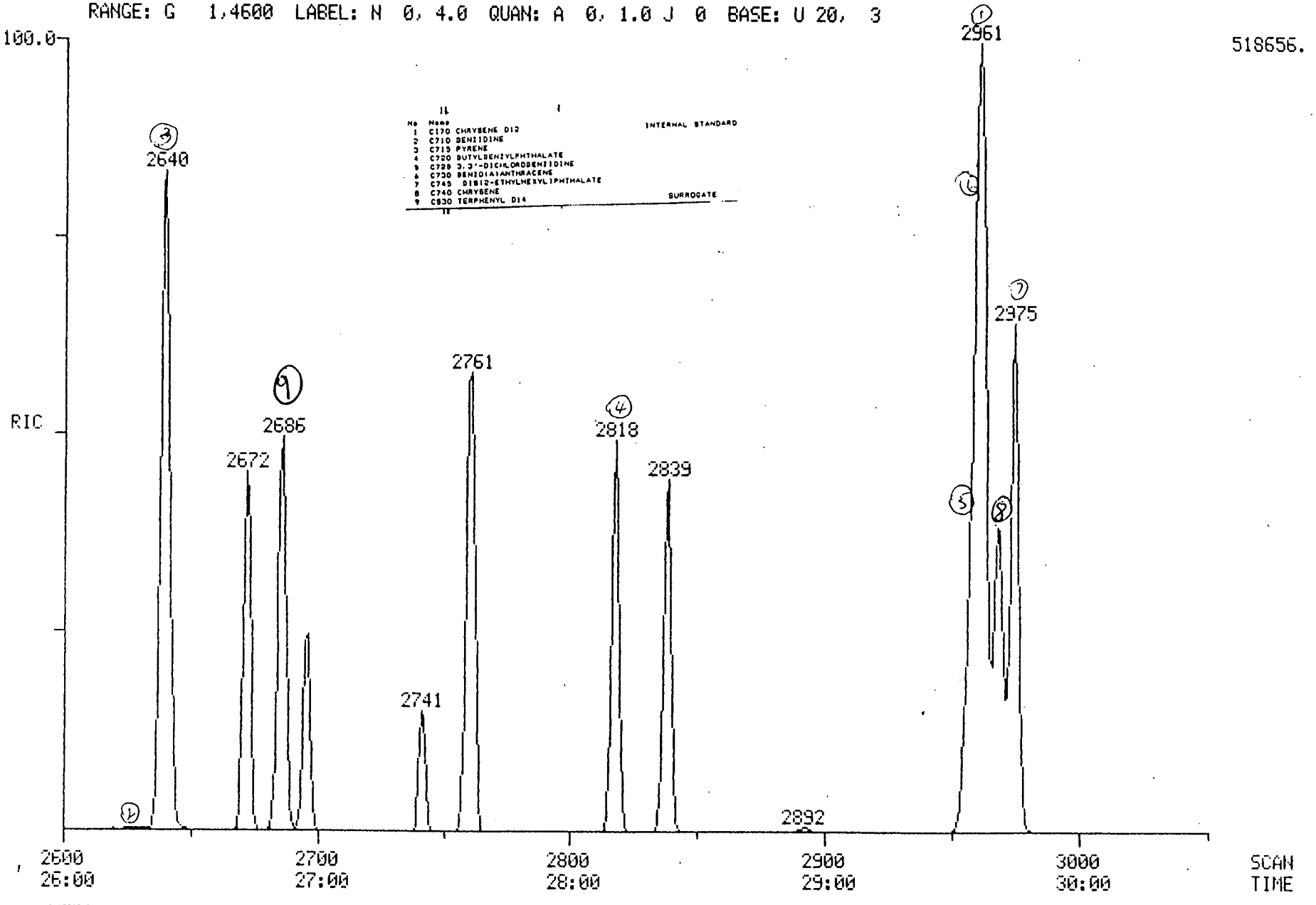
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2263	22:38	1	1.000	A BV	599072.	40.000 UG/ML	16.67
2	198	2035	20:21	1	0.899	A BB	36096.	20.000 UG/ML	8.33
3	169	2053	20:32	1	0.907	A BB	329968.	20.000 UG/ML	8.33
4	77	2063	20:38	1	0.912	A BB	478592.	20.000 NG	8.33
5	248	2149	21:29	1	0.950	A BB	122368.	20.000 UG/ML	8.33
6	284	2160	21:36	1	0.954	A BB	116816.	20.000 UG/ML	8.33
7	266	2215	22:09	1	0.979	A BB	49664.	20.000 UG/ML	8.33
8	178	2269	22:41	1	1.003	A BB	602002.	20.000 UG/ML	8.33
9	178	2283	22:50	1	1.009	A VB	634352.	20.000 UG/ML	8.33
10	149	2426	24:16	1	1.072	A BB	824592.	20.000 UG/ML	8.33
11	202	2581	25:49	1	1.141	A BB	610480.	20.000 UG/ML	8.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:21	1.00	0.899	1.00	20.00	20.00	0.121	0.121	1.00
3	20:32	1.00	0.907	1.00	20.00	20.00	1.102	1.102	1.00
4	20:38	1.00	0.912	1.00	20.00	20.00	1.598	1.598	1.00
5	21:29	1.00	0.950	1.00	20.00	20.00	0.409	0.409	1.00
6	21:36	1.00	0.954	1.00	20.00	20.00	0.390	0.390	1.00
7	22:09	1.00	0.979	1.00	20.00	20.00	0.166	0.166	1.00
8	22:41	1.00	1.003	1.00	20.00	20.00	2.010	2.010	1.00
9	22:50	1.00	1.009	1.00	20.00	20.00	2.118	2.118	1.00
10	24:16	1.00	1.072	1.00	20.00	20.00	2.753	2.753	1.00
11	25:49	1.00	1.141	1.00	20.00	20.00	2.038	2.038	1.00

RIC
11/09/90 21:39:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201109 #1
CALI: HSD201109 #3

SCANS 2600 TO 3050



000158

Quantitation Report File: HSD201109

Data: HSD201109.TI
11/09/90 21:39:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC. Analyst: LA Acct. No.: HSD20110

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

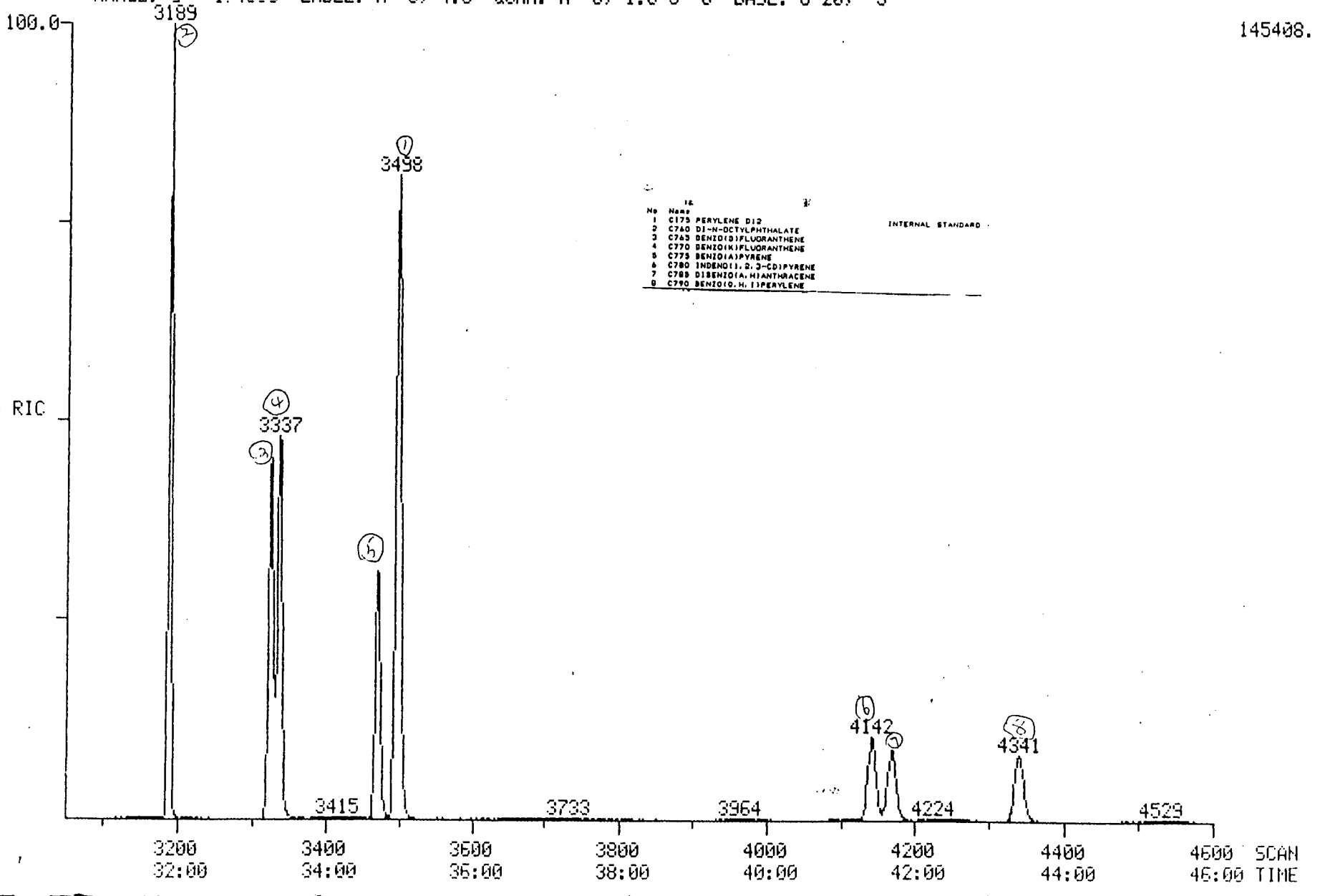
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2962	29:37	1	1.000	A BB	822988.	40.000 UG/ML	20.00
2	184	2627	26:16	1	0.887	A BV	15408.	20.000 UG/ML	10.00
3	202	2640	26:24	1	0.891	A BB	650096.	20.000 UG/ML	10.00
4	149	2818	28:11	1	0.951	A BB	278656.	20.000 UG/ML	10.00
5	252	2955	29:33	1	0.998	A BB	86752.	20.000 UG/ML	10.00
6	228	2959	29:35	1	0.999	A BV	436216.	20.000 UG/ML	10.00
7	149	2975	29:45	1	1.004	A BB	438176.	20.000 UG/ML	10.00
8	228	2968	29:41	1	1.002	A BB	354800.	20.000 UG/ML	10.00
9	244	2686	26:52	1	0.907	A BB	450368.	20.000 UG/ML	10.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:16	1.00	0.887	1.00	20.00	20.00	0.037	0.037	1.00
3	26:24	1.00	0.891	1.00	20.00	20.00	1.580	1.580	1.00
4	28:11	1.00	0.951	1.00	20.00	20.00	0.677	0.677	1.00
5	29:33	1.00	0.998	1.00	20.00	20.00	0.211	0.211	1.00
6	29:35	1.00	0.999	1.00	20.00	20.00	1.060	1.060	1.00
7	29:45	1.00	1.004	1.00	20.00	20.00	1.065	1.065	1.00
8	29:41	1.00	1.002	1.00	20.00	20.00	0.862	0.862	1.00
9	26:52	1.00	0.907	1.00	20.00	20.00	1.094	1.094	1.00

RIC
11/03/90 21:39:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201109 #1
CALI: HSD201109 #3

SCANS 3050 TO 4600



No	Name		
1	C175	PERYLENE D12	INTERNAL STANDARD
2	C760	DI-N-OCTYLPHTHALATE	
3	C765	BENZO(B)FLUORANTHENE	
4	C770	BENZO(K)FLUORANTHENE	
5	C775	BENZO(A)PYRENE	
6	C780	INDENO(1,2,3-CD)PYRENE	
7	C785	DIBENZO(A,H)ANTHRACENE	
8	C790	BENZO(G,H,I)PERYLENE	

0001160

Quantitation Report File: HSD201109

Data: HSD201109.TI
11/09/90 21:39:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC. Analyst: LA Acct. No.: HSD20110

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

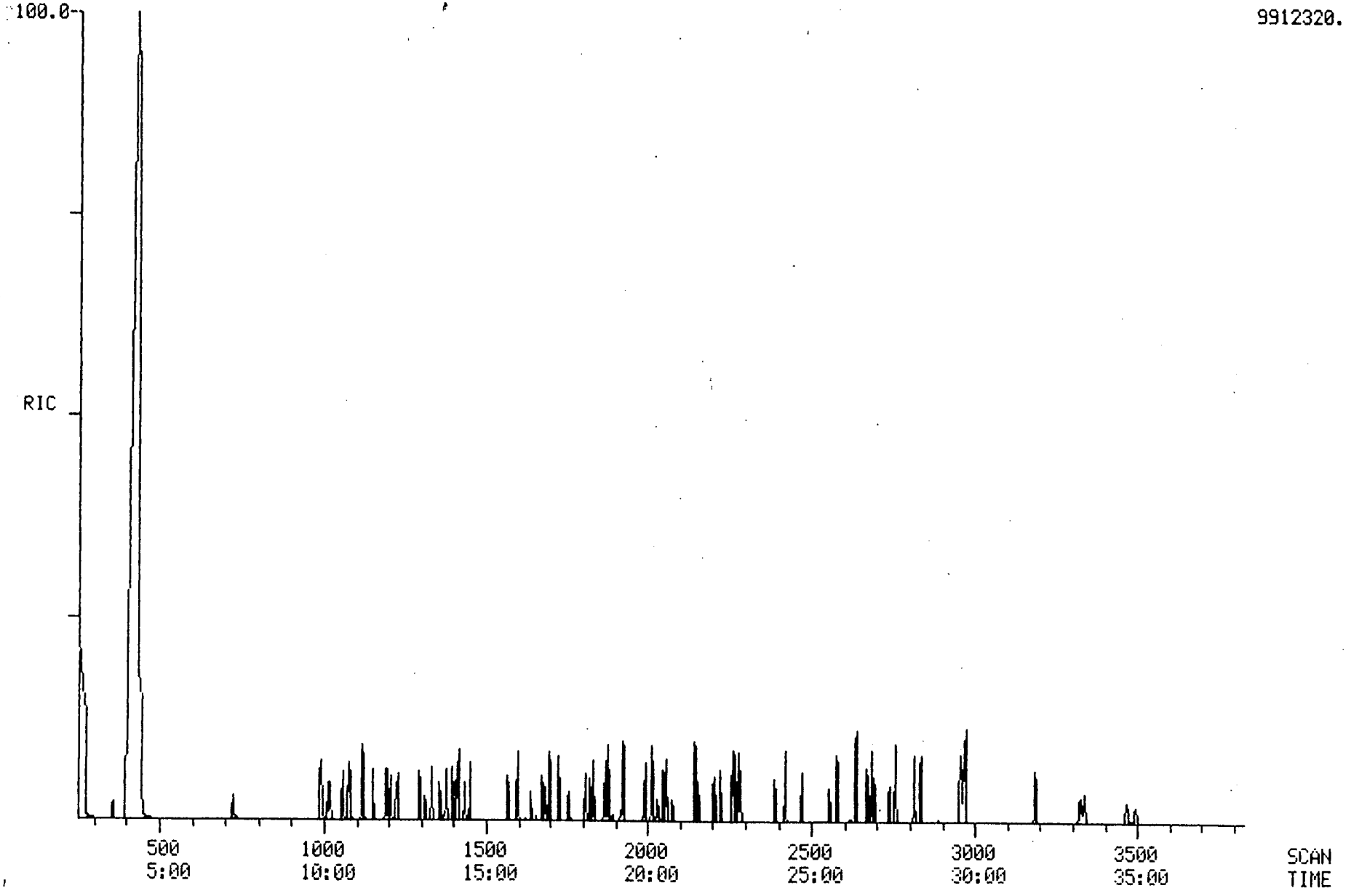
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3499	34:59	1	1.000	A BB	468013.	40.000 UG/ML	22.22
2	149	3189	31:53	1	0.911	A BB	482304.	20.000 UG/ML	11.11
3	252	3326	33:16	1	0.951	A BV	236730.	20.000 UG/ML	11.11
4	252	3337	33:22	1	0.954	A VB	260835.	20.000 UG/ML	11.11
5	252	3470	34:42	1	0.992	A BB	203582.	20.000 UG/NL	11.11
6	276	4141	41:25	1	1.183	A BB	101627.	20.000 UG/ML	11.11
7	278	4170	41:42	1	1.192	A BB	100640.	20.000 UG/ML	11.11
8	276	4341	43:25	1	1.241	A BB	93829.	20.000 UG/ML	11.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:53	1.00	0.911	1.00	20.00	20.00	2.061	2.061	1.00
3	33:16	1.00	0.951	1.00	20.00	20.00	1.012	1.012	1.00
4	33:22	1.00	0.954	1.00	20.00	20.00	1.115	1.115	1.00
5	34:42	1.00	0.992	1.00	20.00	20.00	0.870	0.870	1.00
6	41:25	1.00	1.183	1.00	20.00	20.00	0.434	0.434	1.00
7	41:42	1.00	1.192	1.00	20.00	20.00	0.430	0.430	1.00
8	43:25	1.00	1.241	1.00	20.00	20.00	0.401	0.401	1.00

RIC
11/09/90 18:09:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 50 NG INJECTIN
RANGE: G 1,3825 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

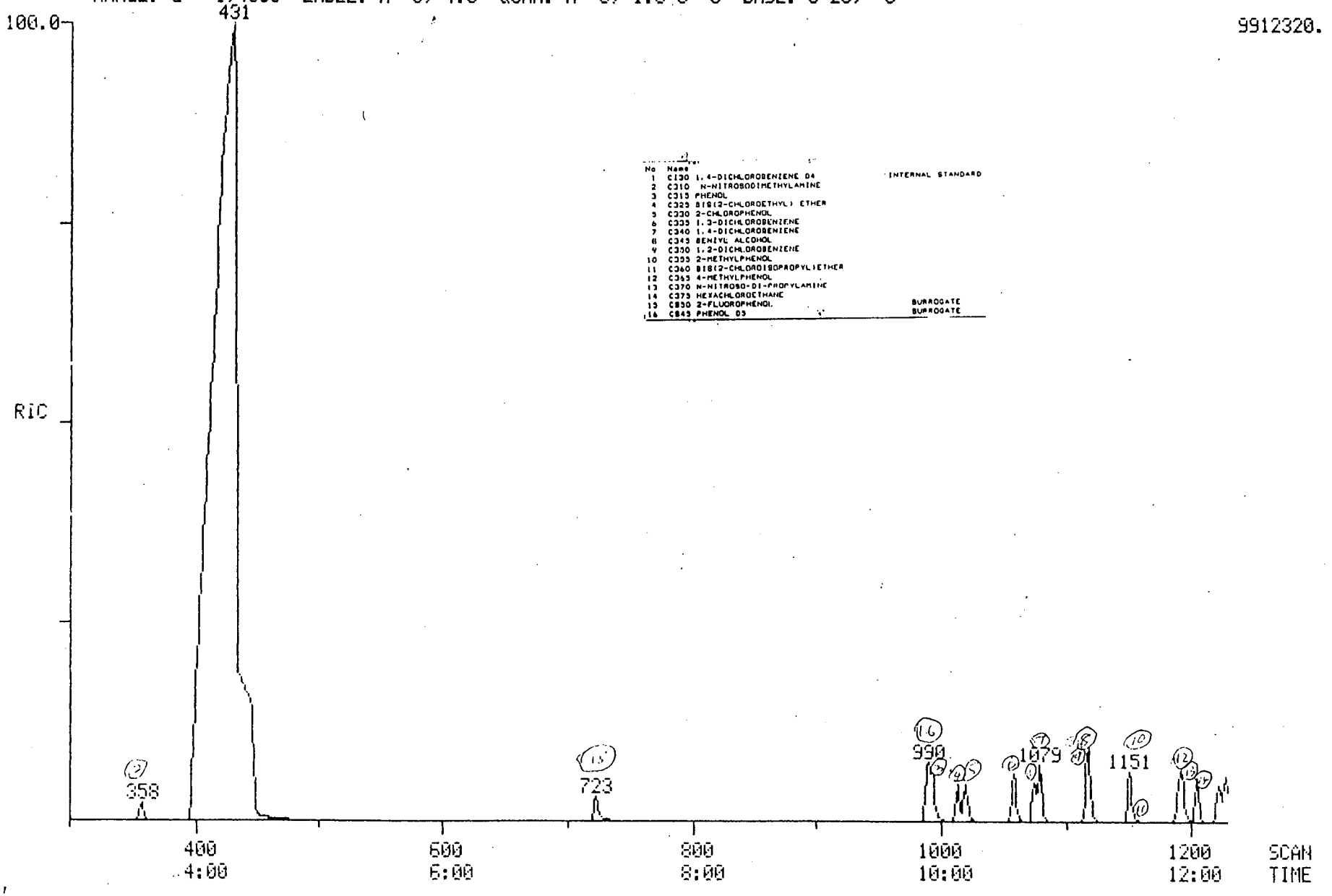
DATA: HSD501109R #1 SCANS 250 TO 3828
CALI: CALTAB #3



0001162

RIC
11/09/90 18:09:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 50 NG INJECTIN
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501109R #1 SCANS 300 TO 1230
CALI: HSD501109R #3



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C850 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000163

Quantitation Report File: HSD501109R

000164

Data: HSD501109R.TI
11/09/90 18:09:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 50 NG INJECTIN
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD50110

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

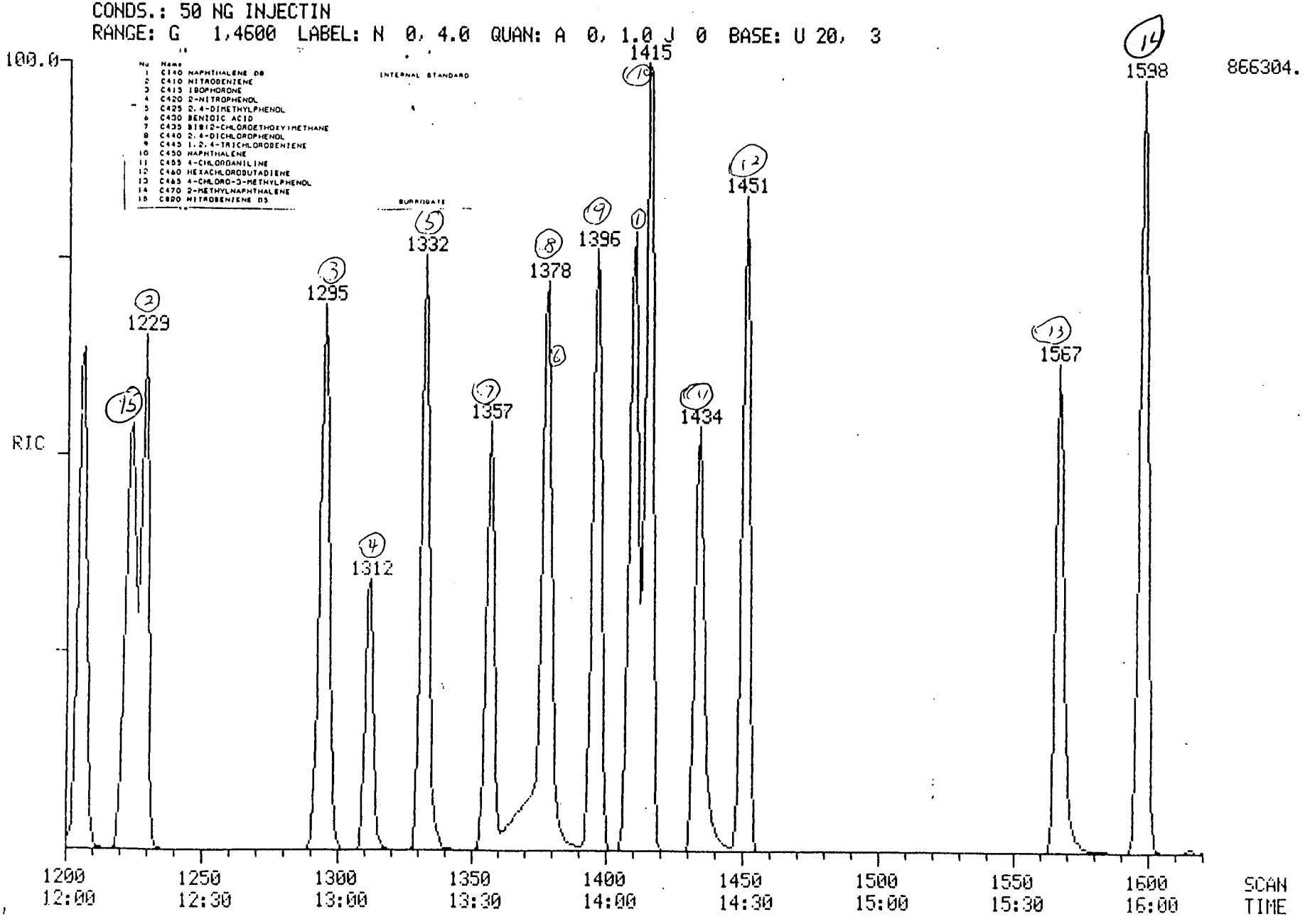
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1074	10:44	1	1.000	A BB	347344.	40.000 UG/ML	5.06
2	74	358	3:35	1	0.333	A BB	413652.	50.000 UG	6.33
3	94	993	9:56	1	0.925	A BB	756046.	50.000 UG/ML	6.33
4	93	1013	10:08	1	0.943	A BB	599403.	50.000 UG/ML	6.33
5	128	1019	10:11	1	0.949	A BB	619487.	50.000 UG/ML	6.33
6	146	1058	10:35	1	0.985	A BB	684016.	50.000 UG/ML	6.33
7	146	1079	10:47	1	1.005	A BB	702928.	50.000 UG/ML	6.33
8	108	1119	11:11	1	1.042	A BB	351452.	50.000 UG/ML	6.33
9	146	1117	11:10	1	1.040	A BB	622672.	50.000 UG/ML	6.33
10	108	1151	11:31	1	1.072	A BB	569507.	50.000 UG/ML	6.33
11	45	1162	11:37	1	1.082	A VB	7936.	50.000 UG/ML	6.33
12	108	1194	11:56	1	1.112	A BB	474579.	50.000 UG/ML	6.33
13	70	1192	11:55	1	1.110	A BB	454240.	50.000 UG/ML	6.33
14	117	1206	12:04	1	1.123	A BB	296976.	50.000 UG/ML	6.33
15	112	723	7:14	1	0.673	A BB	458531.	50.000 UG/L	6.33
16	99	990	9:54	1	0.922	A BB	588703.	50.000 UG/ML	6.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:35	1.00	0.333	1.00	50.00	50.00	0.953	0.953	1.00
3	9:56	1.00	0.925	1.00	50.00	50.00	1.741	1.741	1.00
4	10:08	1.00	0.943	1.00	50.00	50.00	1.381	1.381	1.00
5	10:11	1.00	0.949	1.00	50.00	50.00	1.427	1.427	1.00
6	10:35	1.00	0.985	1.00	50.00	50.00	1.575	1.575	1.00
7	10:47	1.00	1.005	1.00	50.00	50.00	1.619	1.619	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11	1.00	1.042	1.00	50.00	50.00	0.809	0.809	1.00
9	11:10	1.00	1.040	1.00	50.00	50.00	1.434	1.434	1.00
10	11:31	1.00	1.072	1.00	50.00	50.00	1.312	1.312	1.00
11	11:37	1.00	1.082	1.00	50.00	50.00	0.018	0.018	1.00
12	11:56	1.00	1.112	1.00	50.00	50.00	1.093	1.093	1.00
13	11:55	1.00	1.110	1.00	50.00	50.00	1.046	1.046	1.00
14	12:04	1.00	1.123	1.00	50.00	50.00	0.684	0.684	1.00
15	7:14	1.00	0.673	1.00	50.00	50.00	1.056	1.056	1.00
16	9:54	1.00	0.922	1.00	50.00	50.00	1.356	1.356	1.00

RIC
11/09/90 18:09:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 50 NG INJECTIN
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501109R #1 SCANS 1200 TO 1620
CALI: HSD501109R #3



866304.

000166

Quantitation Report File: HSD501109R

Data: HSD501109R.TI
11/09/90 18:09:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 50 NG INJECTIN
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD50110

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1410	14:06	1	1.000	A BB	1326110.	40.000 UG/ML	5.41
2	77	1229	12:17	1	0.872	A BB	687424.	50.000 UG/ML	6.76
3	82	1295	12:57	1	0.918	A BB	1189260.	50.000 UG/ML	6.76
4	139	1312	13:07	1	0.930	A BB	230592.	50.000 UG/ML	6.76
5	122	1332	13:19	1	0.945	A BB	476864.	50.000 UG/ML	6.76
6	122	1380	13:48	1	0.979	A BB	213820.	50.000 UG/ML	6.76
7	93	1357	13:34	1	0.962	A BB	606528.	50.000 UG/ML	6.76
8	162	1378	13:47	1	0.977	A BB	462352.	50.000 UG/ML	6.76
9	180	1396	13:58	1	0.990	A BB	551008.	50.000 UG/ML	6.76
10	128	1415	14:09	1	1.004	A BB	1519040.	50.000 UG/ML	6.76
11	127	1434	14:20	1	1.017	A BB	646035.	50.000 UG/ML	6.76
12	225	1451	14:31	1	1.029	A BB	302672.	50.000 UG/ML	6.76
13	107	1567	15:40	1	1.111	A BB	485136.	50.000 UG/ML	6.76
14	142	1598	15:59	1	1.133	A BB	951920.	50.000 UG/ML	6.76
15	82	1224	12:14	1	0.868	A BB	779216.	50.000 UG/ML	6.76

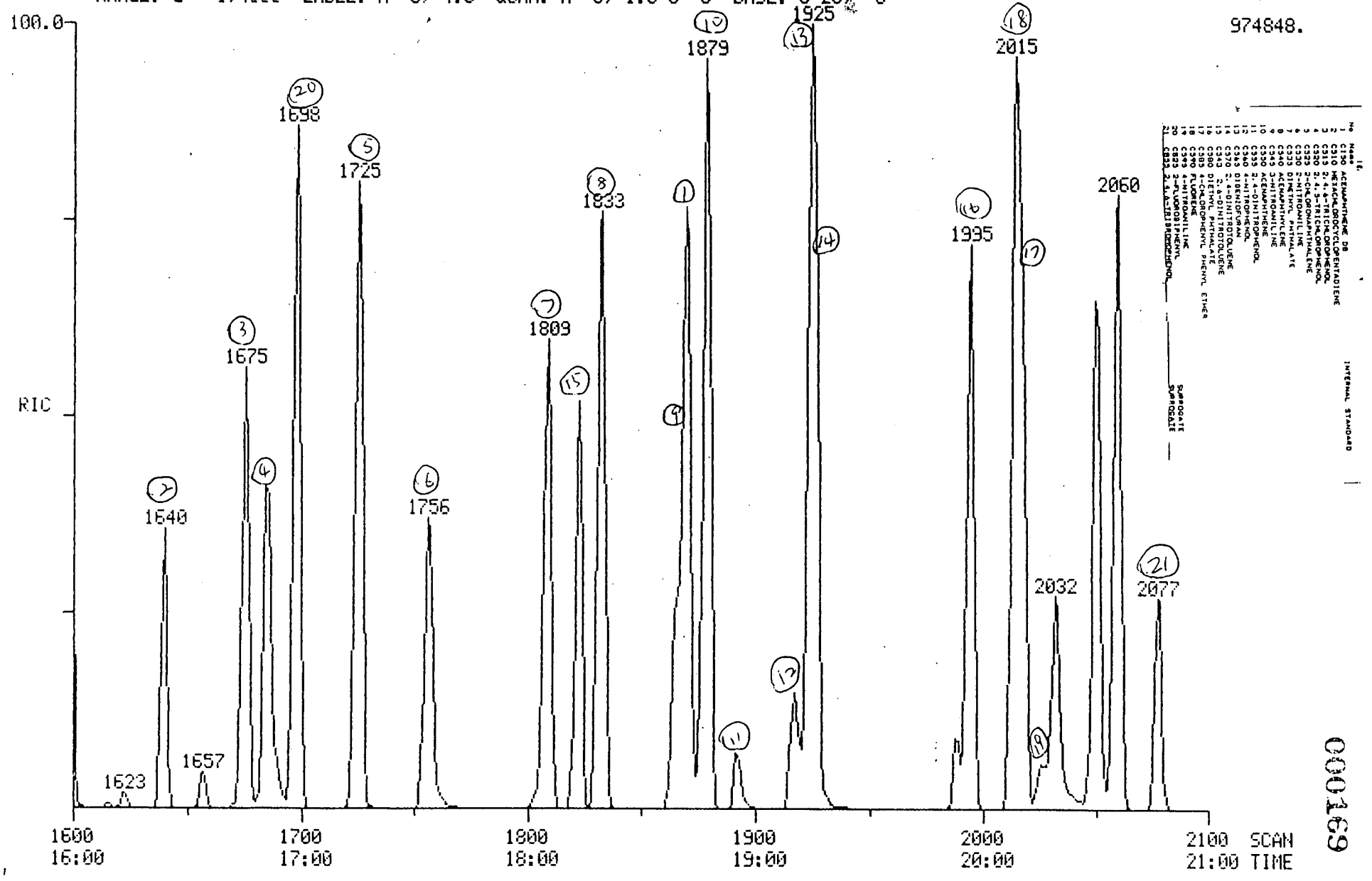
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17	1.00	0.872	1.00	50.00	50.00	0.415	0.415	1.00
3	12:57	1.00	0.918	1.00	50.00	50.00	0.717	0.717	1.00
4	13:07	1.00	0.930	1.00	50.00	50.00	0.139	0.139	1.00
5	13:19	1.00	0.945	1.00	50.00	50.00	0.288	0.288	1.00
6	13:48	1.00	0.979	1.00	50.00	50.00	0.129	0.129	1.00
7	13:34	1.00	0.962	1.00	50.00	50.00	0.366	0.366	1.00
8	13:47	1.00	0.977	1.00	50.00	50.00	0.279	0.279	1.00
9	13:58	1.00	0.990	1.00	50.00	50.00	0.332	0.332	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:09	1.00	1.004	1.00	50.00	50.00	0.916	0.916	1.00
11	14:20	1.00	1.017	1.00	50.00	50.00	0.390	0.390	1.00
12	14:31	1.00	1.029	1.00	50.00	50.00	0.183	0.183	1.00
13	15:40	1.00	1.111	1.00	50.00	50.00	0.293	0.293	1.00
14	15:59	1.00	1.133	1.00	50.00	50.00	0.574	0.574	1.00
15	12:14	1.00	0.868	1.00	50.00	50.00	0.470	0.470	1.00

RIC
11/09/90 18:09:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 50 NG INJECTIN
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501109R #1
CALI: HSD501109R #3

SCANS 1600 TO 2100



000169

Quantitation Report File: HSD501109R

000170

Data: HSD501109R.TI
11/09/90 18:09:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 50 NG INJECTIN
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD50110

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1870	18:42	1	1.000	A BB	681888.	40.000 UG/ML	3.85
2	237	1640	16:24	1	0.877	A BB	185552.	50.000 UG/ML	4.81
3	196	1675	16:45	1	0.896	A BV	291950.	50.000 UG/ML	4.81
4	196	1684	16:50	1	0.901	A VB	330465.	50.000 UG/ML	4.81
5	162	1725	17:15	1	0.922	A BB	964992.	50.000 UG/ML	4.81
6	65	1756	17:34	1	0.939	A BB	335088.	50.000 UG/ML	4.81
7	163	1809	18:05	1	0.967	A BB	1076110.	50.000 UG/ML	4.81
8	152	1833	18:20	1	0.980	A BB	1395780.	50.000 UG/ML	4.81
9	138	1865	18:39	1	0.997	A BB	240128.	50.000 UG/ML	4.81
10	154	1879	18:47	1	1.005	A BB	868832.	50.000 UG/ML	4.81
11	184	1892	18:55	1	1.012	A BB	56256.	50.000 UG/ML	4.81
12	109	1917	19:10	1	1.025	A BB	105930.	50.000 UG/ML	4.81
13	168	1925	19:15	1	1.029	A BB	1220830.	50.000 UG/ML	4.81
14	165	1927	19:16	1	1.030	A BB	348576.	50.000 UG/ML	4.81
15	165	1823	18:14	1	0.975	A BB	260496.	50.000 UG/ML	4.81
16	149	1995	19:57	1	1.067	A BB	1135280.	50.000 UG/ML	4.81
17	204	2018	20:11	1	1.079	A BB	421600.	50.000 UG/ML	4.81
18	166	2015	20:09	1	1.078	A BB	973072.	50.000 UG/ML	4.81
19	138	2026	20:16	1	1.083	A BV	66540.	50.000 UG/ML	4.81
20	172	1698	16:59	1	0.908	A BB	1094940.	50.000 UG/ML	4.81
21	330	2077	20:46	1	1.111	A BB	126352.	50.000 UG/ML	4.81

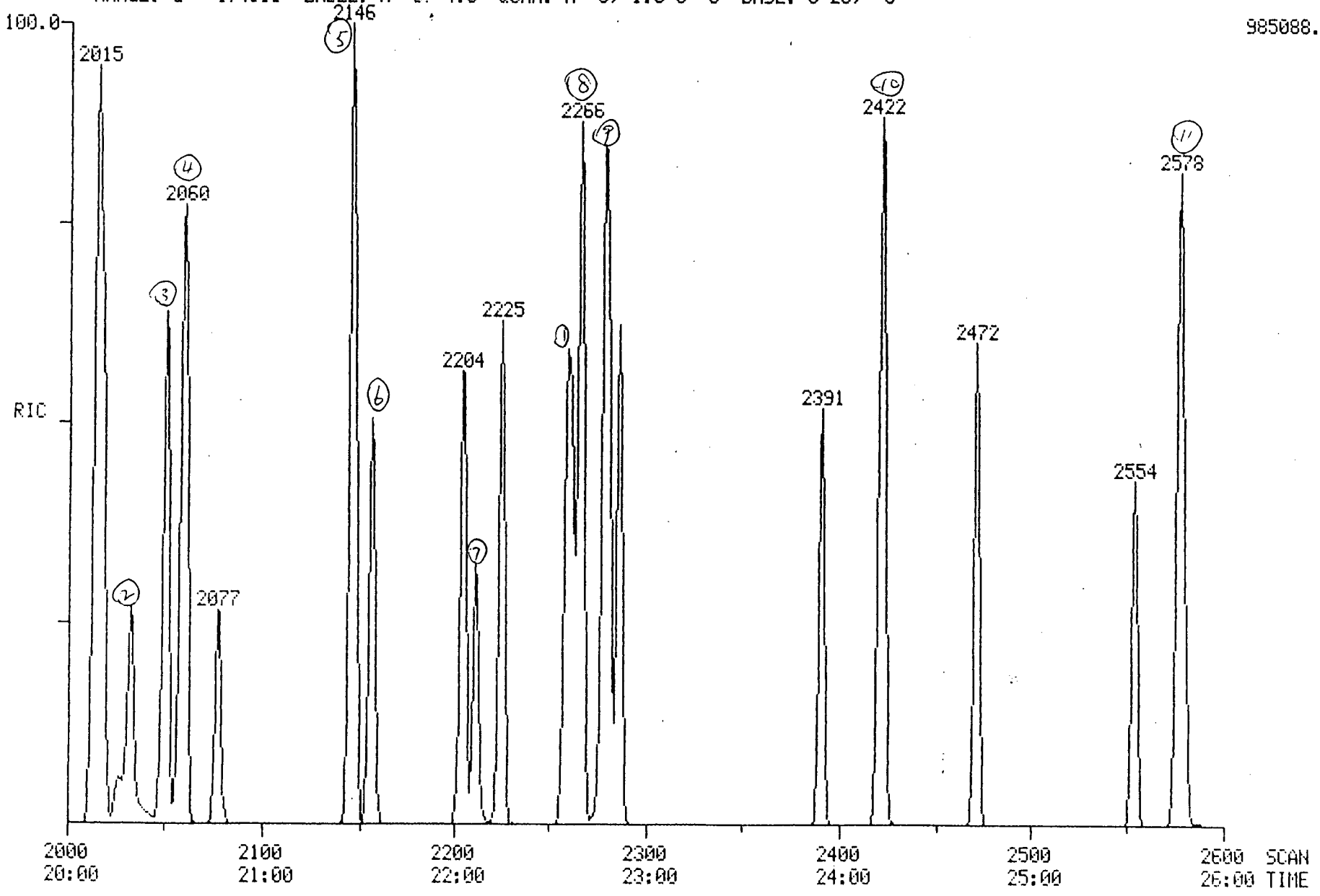
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:24	1.00	0.877	1.00	50.00	50.00	0.218	0.218	1.00
3	16:45	1.00	0.896	1.00	50.00	50.00	0.343	0.343	1.00
4	16:50	1.00	0.901	1.00	50.00	50.00	0.388	0.388	1.00
5	17:15	1.00	0.922	1.00	50.00	50.00	1.132	1.132	1.00
6	17:34	1.00	0.939	1.00	50.00	50.00	0.393	0.393	1.00
7	18:05	1.00	0.967	1.00	50.00	50.00	1.263	1.263	1.00
8	18:20	1.00	0.980	1.00	50.00	50.00	1.638	1.638	1.00
9	18:39	1.00	0.997	1.00	50.00	50.00	0.282	0.282	1.00
10	18:47	1.00	1.005	1.00	50.00	50.00	1.019	1.019	1.00
11	18:55	1.00	1.012	1.00	50.00	50.00	0.066	0.066	1.00
12	19:10	1.00	1.025	1.00	50.00	50.00	0.124	0.124	1.00
13	19:15	1.00	1.029	1.00	50.00	50.00	1.432	1.432	1.00
14	19:16	1.00	1.030	1.00	50.00	50.00	0.409	0.409	1.00
15	18:14	1.00	0.975	1.00	50.00	50.00	0.306	0.306	1.00
16	19:57	1.00	1.067	1.00	50.00	50.00	1.332	1.332	1.00
17	20:11	1.00	1.079	1.00	50.00	50.00	0.495	0.495	1.00
18	20:09	1.00	1.078	1.00	50.00	50.00	1.142	1.142	1.00
19	20:16	1.00	1.083	1.00	50.00	50.00	0.078	0.078	1.00
20	16:59	1.00	0.908	1.00	50.00	50.00	1.285	1.285	1.00
21	20:46	1.00	1.111	1.00	50.00	50.00	0.148	0.148	1.00

RIC
11/09/90 18:09:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 50 NG INJECTIN
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501109R #1
CALI: HSD501109R #3

SCANS 2000 TO 2600

No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	



0001422

Quantitation Report File: HSD501109R

000173

Data: HSD501109R.TI
11/09/90 18:09:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 50 NG INJECTIN
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD50110

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2259	22:35	1	1.000	A BB	629728.	40.000 UG/ML	7.41
2	198	2032	20:19	1	0.900	A BB	130896.	50.000 UG/ML	9.26
3	169	2050	20:30	1	0.907	A BB	678736.	50.000 UG/ML	9.26
4	77	2060	20:36	1	0.912	A VB	1332060.	50.000 NG	9.26
5	248	2145	21:27	1	0.950	A BB	262960.	50.000 UG/ML	9.26
6	284	2157	21:34	1	0.955	A BB	296176.	50.000 UG/ML	9.26
7	266	2211	22:07	1	0.979	A BB	173552.	50.000 UG/ML	9.26
8	178	2266	22:40	1	1.003	A BV	1443640.	50.000 UG/ML	9.26
9	178	2279	22:47	1	1.009	A VB	1522860.	50.000 UG/ML	9.26
10	149	2422	24:13	1	1.072	A BB	1940960.	50.000 UG/ML	9.26
11	202	2578	25:47	1	1.141	A VB	1583540.	50.000 UG/ML	9.26

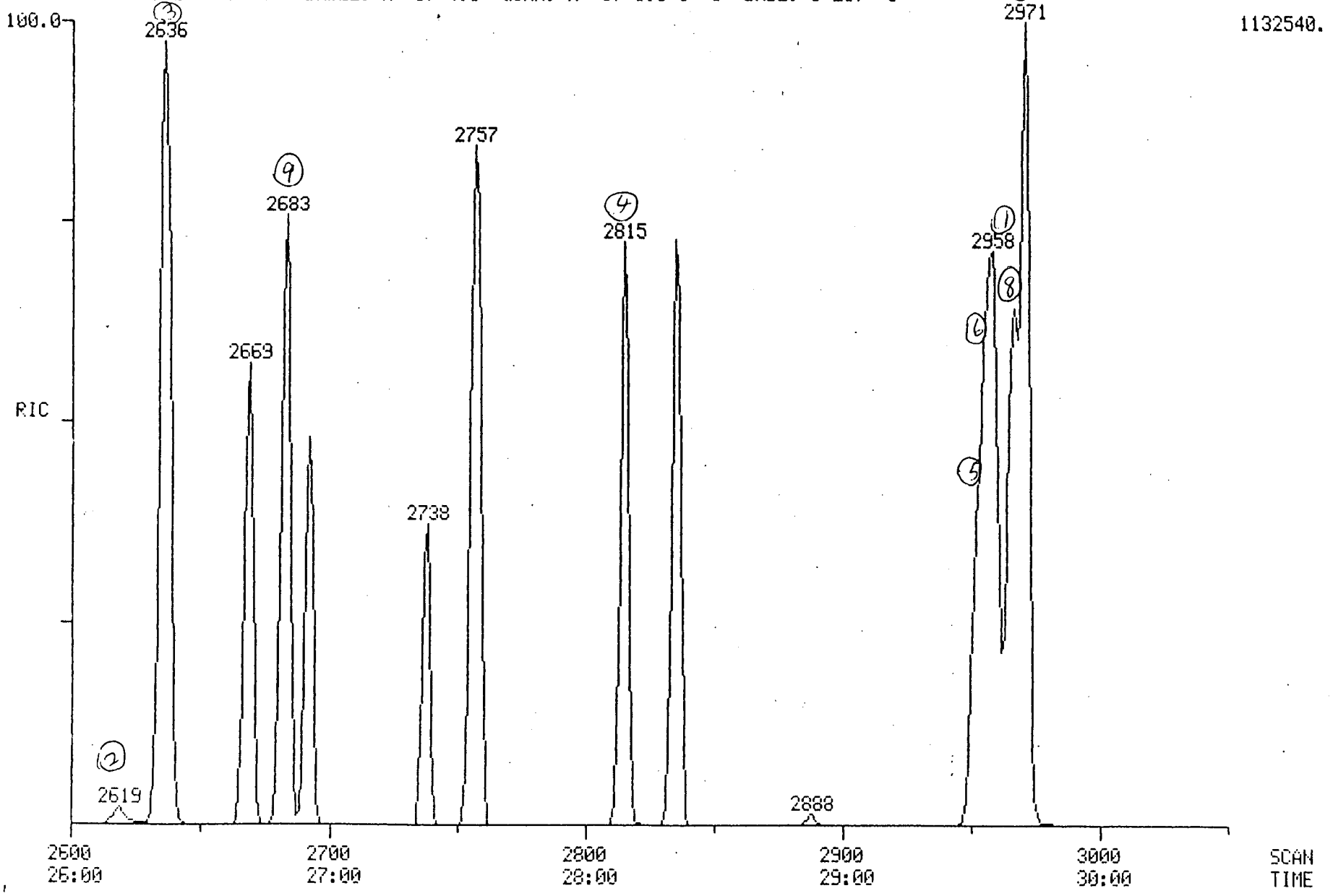
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:19	1.00	0.900	1.00	50.00	50.00	0.166	0.166	1.00
3	20:30	1.00	0.907	1.00	50.00	50.00	0.862	0.862	1.00
4	20:36	1.00	0.912	1.00	50.00	50.00	1.692	1.692	1.00
5	21:27	1.00	0.950	1.00	50.00	50.00	0.334	0.334	1.00
6	21:34	1.00	0.955	1.00	50.00	50.00	0.376	0.376	1.00
7	22:07	1.00	0.979	1.00	50.00	50.00	0.220	0.220	1.00
8	22:40	1.00	1.003	1.00	50.00	50.00	1.834	1.834	1.00
9	22:47	1.00	1.009	1.00	50.00	50.00	1.935	1.935	1.00
10	24:13	1.00	1.072	1.00	50.00	50.00	2.466	2.466	1.00
11	25:47	1.00	1.141	1.00	50.00	50.00	2.012	2.012	1.00

RIC
11/09/90 18:09:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 50 NG INJECTIN
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501109R #1
CALI: HSD501109R #3

SCANS 2600 TO 3050

No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE



000174

Quantitation Report File: HSD501109R

Data: HSD501109R.TI
11/09/90 18:09:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 50 NG INJECTIN
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD50110

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

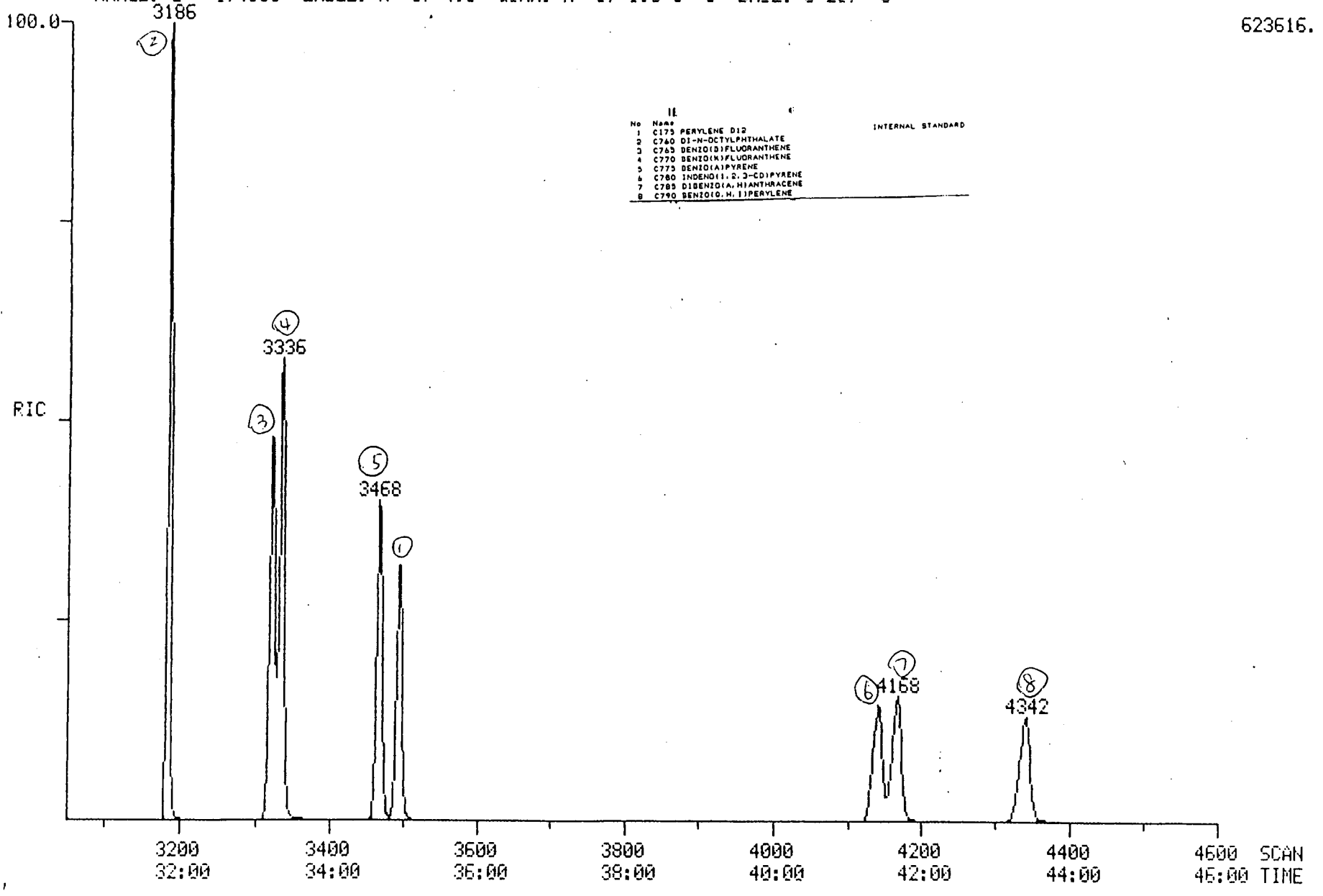
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2959	29:35	1	1.000	A BB	976224.	40.000 UG/ML	9.09
2	184	2619	26:11	1	0.885	A BB	116835.	50.000 UG/ML	11.36
3	202	2637	26:22	1	0.891	A BB	1558850.	50.000 UG/ML	11.36
4	149	2815	28:09	1	0.951	A BB	836464.	50.000 UG/ML	11.36
5	252	2951	29:31	1	0.997	A*BB	306426.	50.000 UG/ML	11.36
6	228	2956	29:34	1	0.999	A BV	1309640.	50.000 UG/ML	11.36
7	149	2971	29:43	1	1.004	A BB	1336260.	50.000 UG/ML	11.36
8	228	2966	29:40	1	1.002	A BB	1086390.	50.000 UG/ML	11.36
9	244	2683	26:50	1	0.907	A BB	1287170.	50.000 UG/ML	11.36

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:11	1.00	0.885	1.00	50.00	50.00	0.096	0.096	1.00
3	26:22	1.00	0.891	1.00	50.00	50.00	1.277	1.277	1.00
4	28:09	1.00	0.951	1.00	50.00	50.00	0.685	0.685	1.00
5	29:31	1.00	0.997	1.00	50.00	50.00	0.251	0.251	1.00
6	29:34	1.00	0.999	1.00	50.00	50.00	1.073	1.073	1.00
7	29:43	1.00	1.004	1.00	50.00	50.00	1.095	1.095	1.00
8	29:40	1.00	1.002	1.00	50.00	50.00	0.890	0.890	1.00
9	26:50	1.00	0.907	1.00	50.00	50.00	1.055	1.055	1.00

RIC
11/09/90 18:09:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 50 NG INJECTIN
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501109R #1 SCANS 3050 TO 4600
CALI: HSD501109R #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000176

Quantitation Report File: HSD501109R

000177

Data: HSD501109R.TI
11/09/90 18:09:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 50 NG INJECTIN
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: LA Acct. No.: HSD50110

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

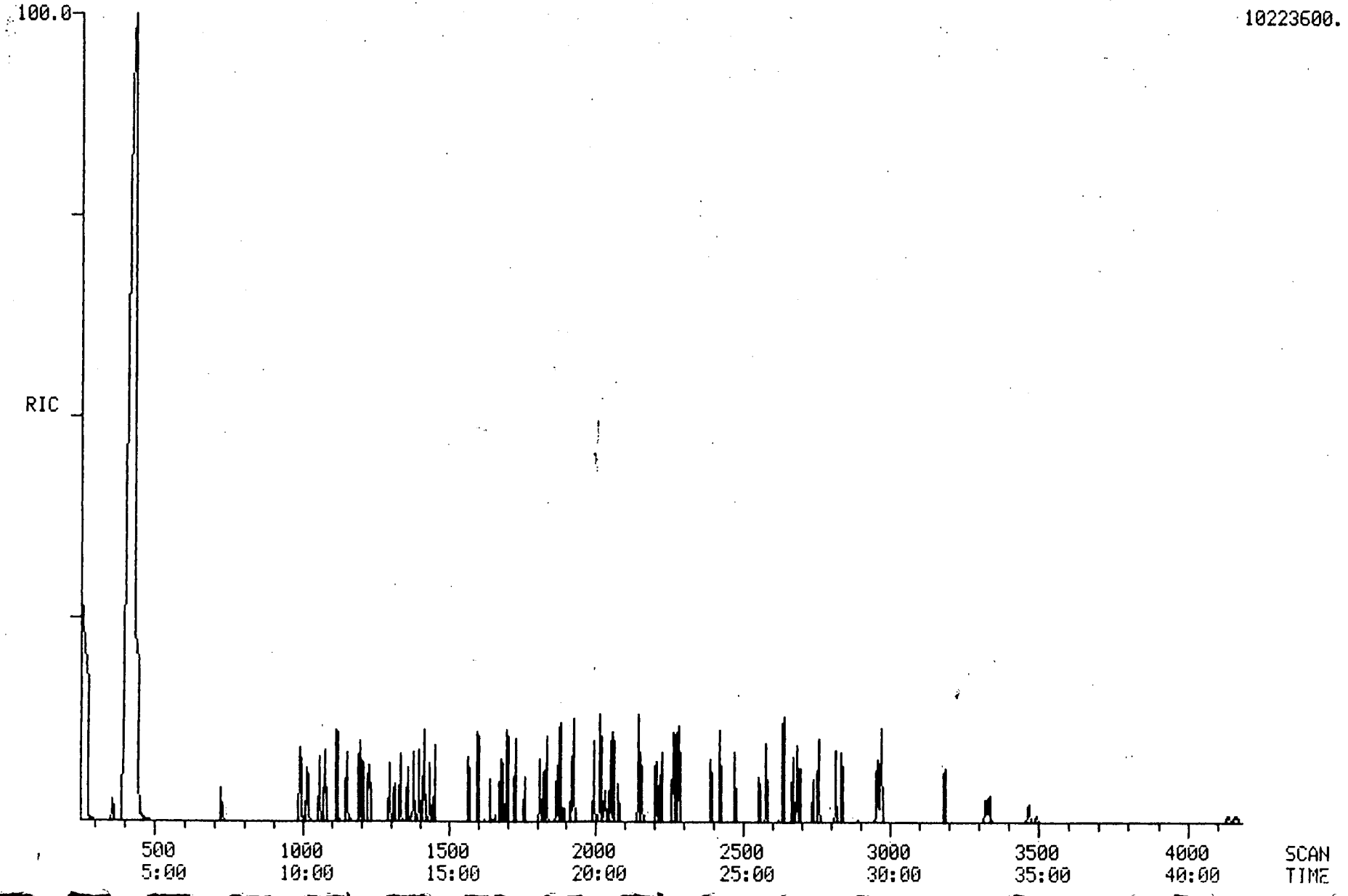
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3496	34:58	1	1.000	A BB	710574.	40.000 UG/ML	10.26
2	149	3186	31:52	1	0.911	A BB	1808730.	50.000 UG/ML	12.82
3	252	3323	33:14	1	0.951	A BV	970040.	50.000 UG/ML	12.82
4	252	3336	33:22	1	0.954	A VB	948768.	50.000 UG/ML	12.82
5	252	3468	34:41	1	0.992	A BB	908328.	50.000 UG/NL	12.82
6	276	4142	41:25	1	1.185	A BB	455336.	50.000 UG/ML	12.82
7	278	4167	41:40	1	1.192	A BB	505816.	50.000 UG/ML	12.82
8	276	4342	43:25	1	1.242	A BB	434380.	50.000 UG/ML	12.82

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:52	1.00	0.911	1.00	50.00	50.00	2.036	2.036	1.00
3	33:14	1.00	0.951	1.00	50.00	50.00	1.092	1.092	1.00
4	33:22	1.00	0.954	1.00	50.00	50.00	1.068	1.068	1.00
5	34:41	1.00	0.992	1.00	50.00	50.00	1.023	1.023	1.00
6	41:25	1.00	1.185	1.00	50.00	50.00	0.513	0.513	1.00
7	41:40	1.00	1.192	1.00	50.00	50.00	0.569	0.569	1.00
8	43:25	1.00	1.242	1.00	50.00	50.00	0.489	0.489	1.00

RIC
11/09/90 18:59:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4181 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

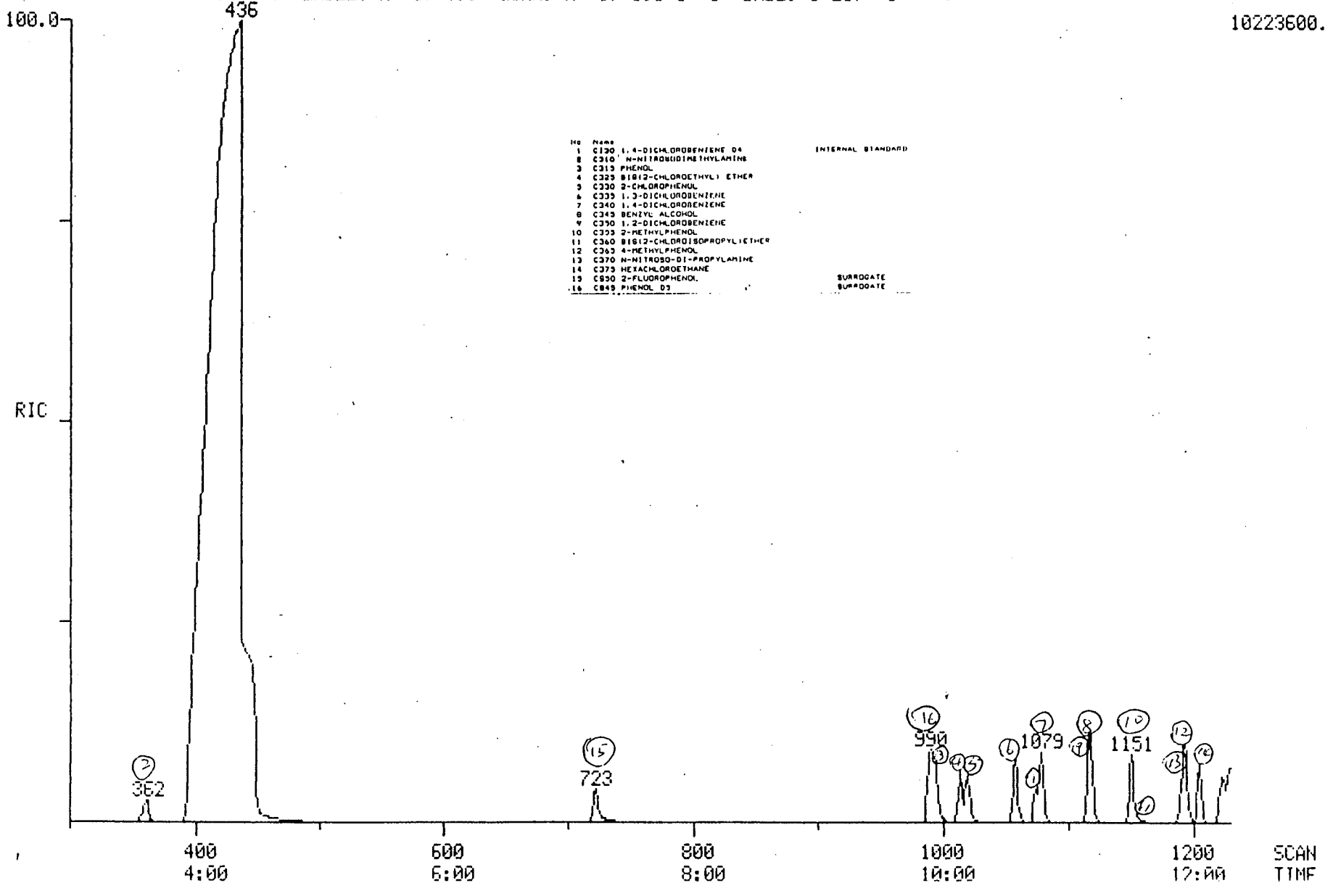
DATA: HSD801109 #1 SCANS 250 TO 4184
CALI: CALTAB #3



000128

RIC
11/09/90 18:59:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801109 #1 SCANS 300 TO 1230
CALI: HSD801109 #3



No	Name	
1	C320 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C830 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000179

Quantitation Report File: HSD801109

Data: HSD801109.TI
11/09/90 18:59:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80110

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1074	10:44	1	1.000	A BB	314384.	40.000 UG/ML	3.23
2	74	362	3:37	1	0.337	A BB	664634.	80.000 UG	6.45
3	94	994	9:56	1	0.926	A BB	1050040.	80.000 UG/ML	6.45
4	93	1014	10:08	1	0.944	A BB	892513.	80.000 UG/ML	6.45
5	128	1019	10:11	1	0.949	A BB	904368.	80.000 UG/ML	6.45
6	146	1058	10:35	1	0.985	A BB	950176.	80.000 UG/ML	6.45
7	146	1079	10:47	1	1.005	A BB	952976.	80.000 UG/ML	6.45
8	108	1119	11:11	1	1.042	A BB	489321.	80.000 UG/ML	6.45
9	146	1117	11:10	1	1.040	A BB	828496.	80.000 UG/ML	6.45
10	108	1151	11:31	1	1.072	A BB	799055.	80.000 UG/ML	6.45
11	45	1162	11:37	1	1.082	A VB	12720.	80.000 UG/ML	6.45
12	108	1195	11:57	1	1.113	A BB	674156.	80.000 UG/ML	6.45
13	70	1193	11:56	1	1.111	A BB	673248.	80.000 UG/ML	6.45
14	117	1205	12:03	1	1.122	A BB	412512.	80.000 UG/ML	6.45
15	112	723	7:14	1	0.673	A BB	679891.	80.000 UG/L	6.45
16	99	990	9:54	1	0.922	A BB	822001.	80.000 UG/ML	6.45

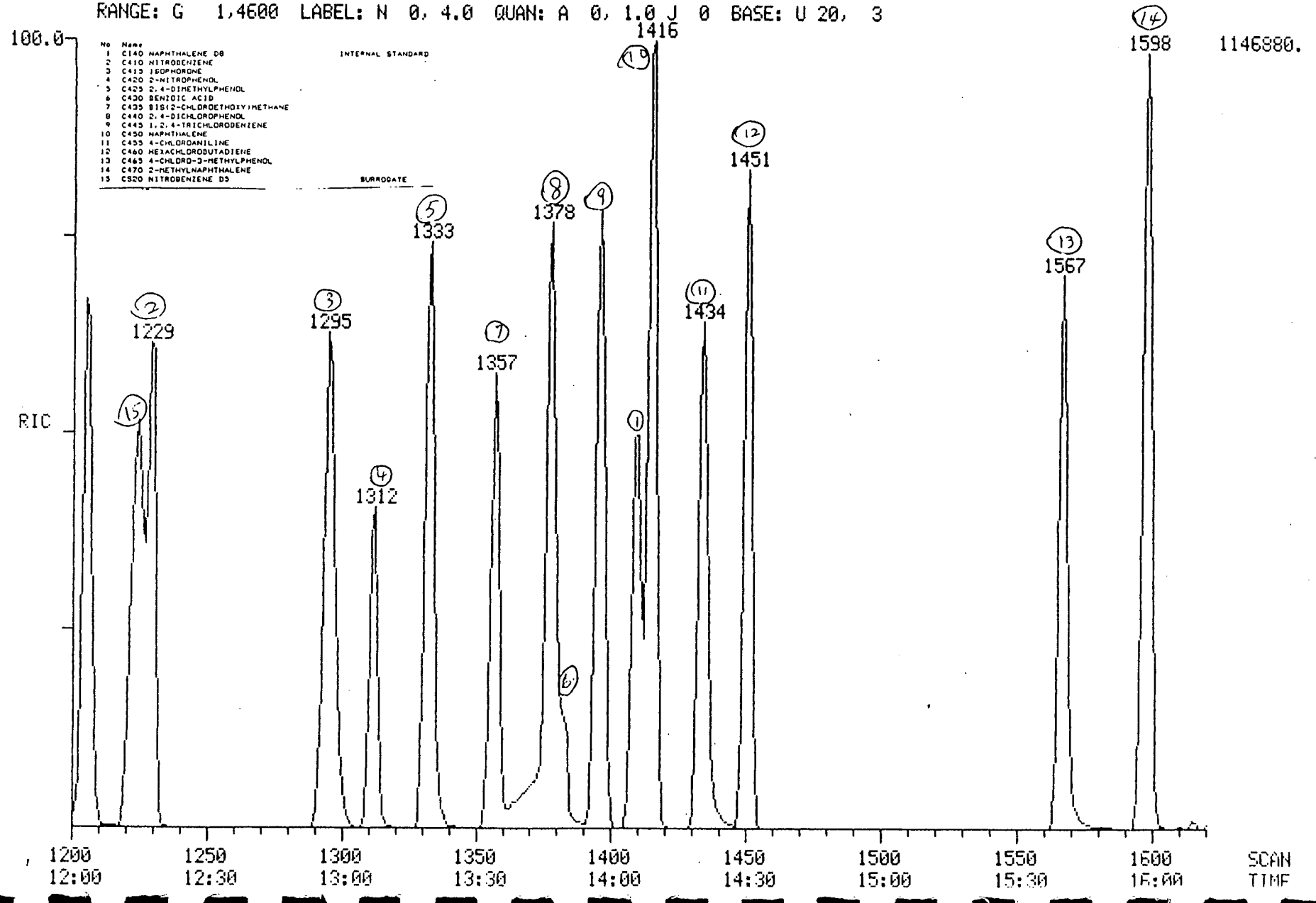
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:37	1.00	0.337	1.00	80.00	80.00	1.057	1.057	1.00
3	9:56	1.00	0.926	1.00	80.00	80.00	1.670	1.670	1.00
4	10:08	1.00	0.944	1.00	80.00	80.00	1.419	1.419	1.00
5	10:11	1.00	0.949	1.00	80.00	80.00	1.438	1.438	1.00
6	10:35	1.00	0.985	1.00	80.00	80.00	1.511	1.511	1.00
7	10:47	1.00	1.005	1.00	80.00	80.00	1.516	1.516	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11	1.00	1.042	1.00	80.00	80.00	0.778	0.778	1.00
9	11:10	1.00	1.040	1.00	80.00	80.00	1.318	1.318	1.00
10	11:31	1.00	1.072	1.00	80.00	80.00	1.271	1.271	1.00
11	11:37	1.00	1.082	1.00	80.00	80.00	0.020	0.020	1.00
12	11:57	1.00	1.113	1.00	80.00	80.00	1.072	1.072	1.00
13	11:56	1.00	1.111	1.00	80.00	80.00	1.071	1.071	1.00
14	12:03	1.00	1.122	1.00	80.00	80.00	0.656	0.656	1.00
15	7:14	1.00	0.673	1.00	80.00	80.00	1.081	1.081	1.00
16	9:54	1.00	0.922	1.00	80.00	80.00	1.307	1.307	1.00

RIC
11/09/90 18:59:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801109 #1
CALI: HSD801109 #3

SCANS 1200 TO 1620



000122

Quantitation Report File: HSD801109

000183

Data: HSD801109.TI
11/09/90 18:59:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80110

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1409	14:05	1	1.000	A BB	1172300.	40.000 UG/ML	3.45
2	77	1229	12:17	1	0.872	A BB	937616.	80.000 UG/ML	6.90
3	82	1295	12:57	1	0.919	A BV	1724500.	80.000 UG/ML	6.90
4	139	1312	13:07	1	0.931	A BB	349968.	80.000 UG/ML	6.90
5	122	1333	13:20	1	0.946	A BB	666736.	80.000 UG/ML	6.90
6	122	1383	13:50	1	0.982	A BB	343116.	80.000 UG/ML	6.90
7	93	1357	13:34	1	0.963	A BB	901408.	80.000 UG/ML	6.90
8	162	1378	13:47	1	0.978	A BB	654058.	80.000 UG/ML	6.90
9	180	1396	13:58	1	0.991	A BB	739968.	80.000 UG/ML	6.90
10	128	1415	14:09	1	1.004	A BB	2085350.	80.000 UG/ML	6.90
11	127	1434	14:20	1	1.018	A BB	962627.	80.000 UG/ML	6.90
12	225	1451	14:31	1	1.030	A BB	415488.	80.000 UG/ML	6.90
13	107	1567	15:40	1	1.112	A BB	683001.	80.000 UG/ML	6.90
14	142	1598	15:59	1	1.134	A BB	1292470.	80.000 UG/ML	6.90
15	82	1224	12:14	1	0.869	A BB	1082670.	80.000 UG/ML	6.90

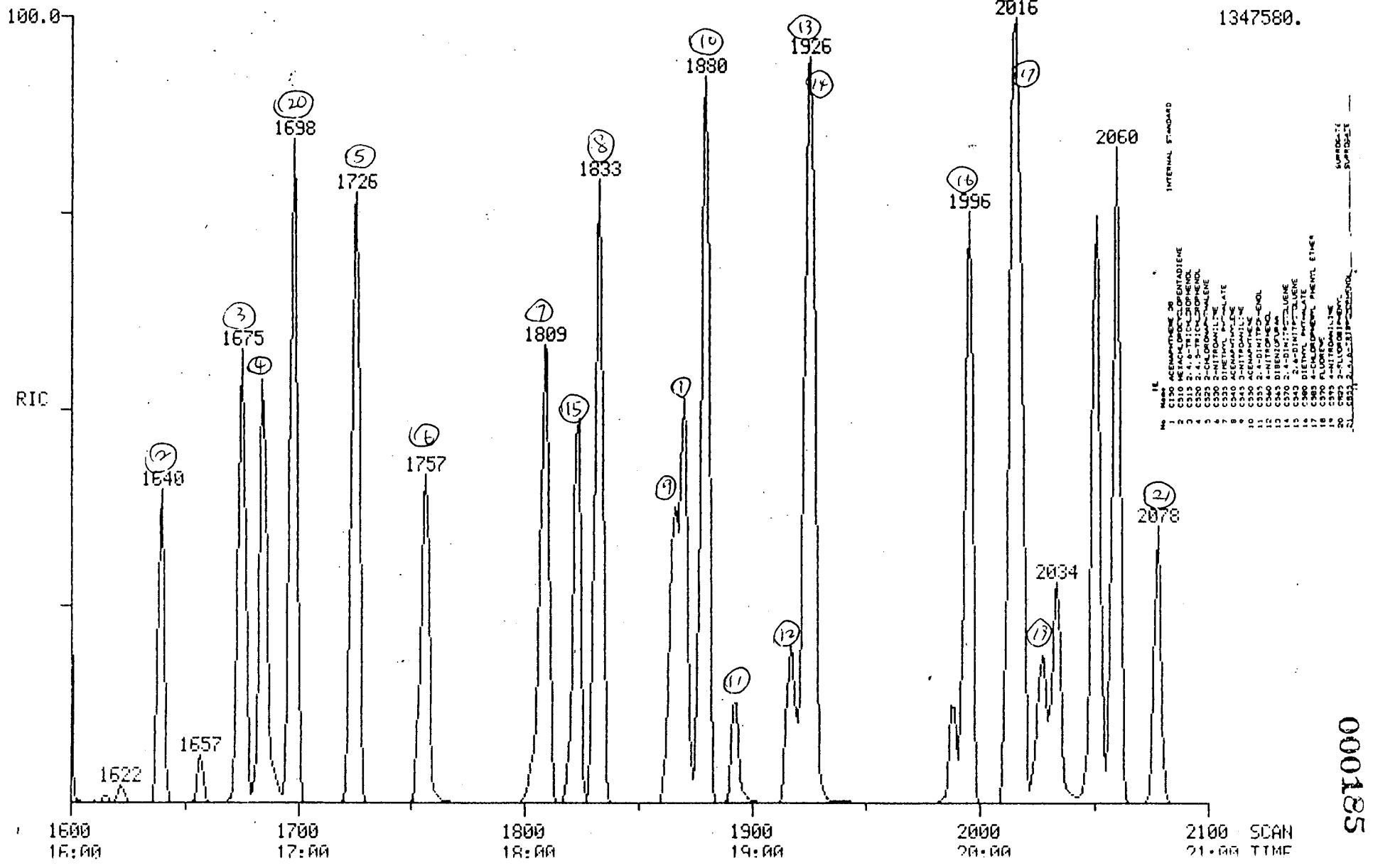
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17	1.00	0.872	1.00	80.00	80.00	0.400	0.400	1.00
3	12:57	1.00	0.919	1.00	80.00	80.00	0.736	0.736	1.00
4	13:07	1.00	0.931	1.00	80.00	80.00	0.149	0.149	1.00
5	13:20	1.00	0.946	1.00	80.00	80.00	0.284	0.284	1.00
6	13:50	1.00	0.982	1.00	80.00	80.00	0.146	0.146	1.00
7	13:34	1.00	0.963	1.00	80.00	80.00	0.384	0.384	1.00
8	13:47	1.00	0.978	1.00	80.00	80.00	0.279	0.279	1.00
9	13:58	1.00	0.991	1.00	80.00	80.00	0.316	0.316	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:09	1.00	1.004	1.00	80.00	80.00	0.889	0.889	1.00
11	14:20	1.00	1.018	1.00	80.00	80.00	0.411	0.411	1.00
12	14:31	1.00	1.030	1.00	80.00	80.00	0.177	0.177	1.00
13	15:40	1.00	1.112	1.00	80.00	80.00	0.291	0.291	1.00
14	15:59	1.00	1.134	1.00	80.00	80.00	0.551	0.551	1.00
15	12:14	1.00	0.869	1.00	80.00	80.00	0.462	0.462	1.00

RIC
11/09/90 18:53:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801109 #1
CALI: HSD801109 #3

SCANS 1600 TO 2100



000185

Quantitation Report File: HSD801109

Data: HSD801109.TI
11/09/90 18:59:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: LA Acct. No.: HSD80110

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

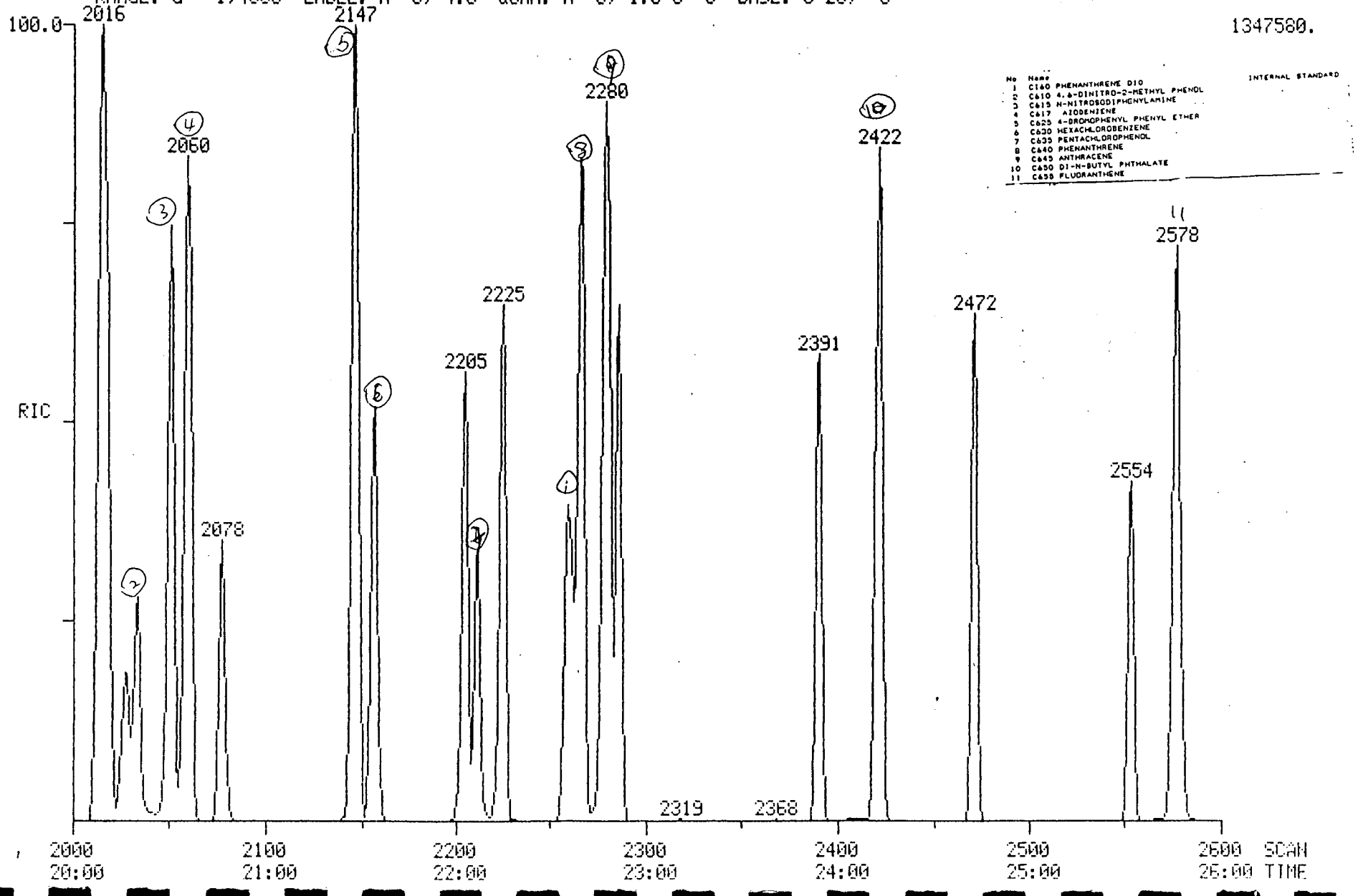
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1870	18:42	1	1.000	A BB	626624.	40.000 UG/ML	2.44
2	237	1640	16:24	1	0.877	A BB	285984.	80.000 UG/ML	4.88
3	196	1675	16:45	1	0.896	A BV	425568.	80.000 UG/ML	4.88
4	196	1684	16:50	1	0.901	A VB	503503.	80.000 UG/ML	4.88
5	162	1726	17:16	1	0.923	A BB	1344270.	80.000 UG/ML	4.88
6	65	1757	17:34	1	0.940	A BB	509392.	80.000 UG/ML	4.88
7	163	1809	18:05	1	0.967	A BB	1723660.	80.000 UG/ML	4.88
8	152	1833	18:20	1	0.980	A BB	2026880.	80.000 UG/ML	4.88
9	138	1866	18:40	1	0.998	A BB	428620.	80.000 UG/ML	4.88
10	154	1880	18:48	1	1.005	A BB	1219600.	80.000 UG/ML	4.88
11	184	1892	18:55	1	1.012	A BB	126048.	80.000 UG/ML	4.88
12	109	1917	19:10	1	1.025	A BB	180426.	80.000 UG/ML	4.88
13	168	1925	19:15	1	1.029	A BB	1739800.	80.000 UG/ML	4.88
14	165	1927	19:16	1	1.030	A BB	496400.	80.000 UG/ML	4.88
15	165	1823	18:14	1	0.975	A BB	401216.	80.000 UG/ML	4.88
16	149	1996	19:58	1	1.067	A BB	1785180.	80.000 UG/ML	4.88
17	204	2018	20:11	1	1.079	A BB	639808.	80.000 UG/ML	4.88
18	166	2015	20:09	1	1.078	A BB	1457680.	80.000 UG/ML	4.88
19	138	2027	20:16	1	1.084	A VB	303925.	80.000 UG/ML	4.88
20	172	1698	16:59	1	0.908	A BB	1479390.	80.000 UG/ML	4.88
21	330	2078	20:47	1	1.111	A BB	218880.	80.000 UG/ML	4.88

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:24	1.00	0.877	1.00	80.00	80.00	0.228	0.228	1.00
3	16:45	1.00	0.896	1.00	80.00	80.00	0.340	0.340	1.00
4	16:50	1.00	0.901	1.00	80.00	80.00	0.402	0.402	1.00
5	17:16	1.00	0.923	1.00	80.00	80.00	1.073	1.073	1.00
6	17:34	1.00	0.940	1.00	80.00	80.00	0.406	0.406	1.00
7	18:05	1.00	0.967	1.00	80.00	80.00	1.375	1.375	1.00
8	18:20	1.00	0.980	1.00	80.00	80.00	1.617	1.617	1.00
9	18:40	1.00	0.998	1.00	80.00	80.00	0.342	0.342	1.00
10	18:48	1.00	1.005	1.00	80.00	80.00	0.973	0.973	1.00
11	18:55	1.00	1.012	1.00	80.00	80.00	0.101	0.101	1.00
12	19:10	1.00	1.025	1.00	80.00	80.00	0.144	0.144	1.00
13	19:15	1.00	1.029	1.00	80.00	80.00	1.388	1.388	1.00
14	19:16	1.00	1.030	1.00	80.00	80.00	0.396	0.396	1.00
15	18:14	1.00	0.975	1.00	80.00	80.00	0.320	0.320	1.00
16	19:58	1.00	1.067	1.00	80.00	80.00	1.424	1.424	1.00
17	20:11	1.00	1.079	1.00	80.00	80.00	0.511	0.511	1.00
18	20:09	1.00	1.078	1.00	80.00	80.00	1.163	1.163	1.00
19	20:16	1.00	1.084	1.00	80.00	80.00	0.243	0.243	1.00
20	16:59	1.00	0.908	1.00	80.00	80.00	1.180	1.180	1.00
21	20:47	1.00	1.111	1.00	80.00	80.00	0.175	0.175	1.00

RIC
11/09/90 18:59:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801109 #1
CALI: HSD801109 #3

SCANS 2000 TO 2600



000188

Quantitation Report File: HSD801109

000189

Data: HSD801109.TI
11/09/90 18:59:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80110

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

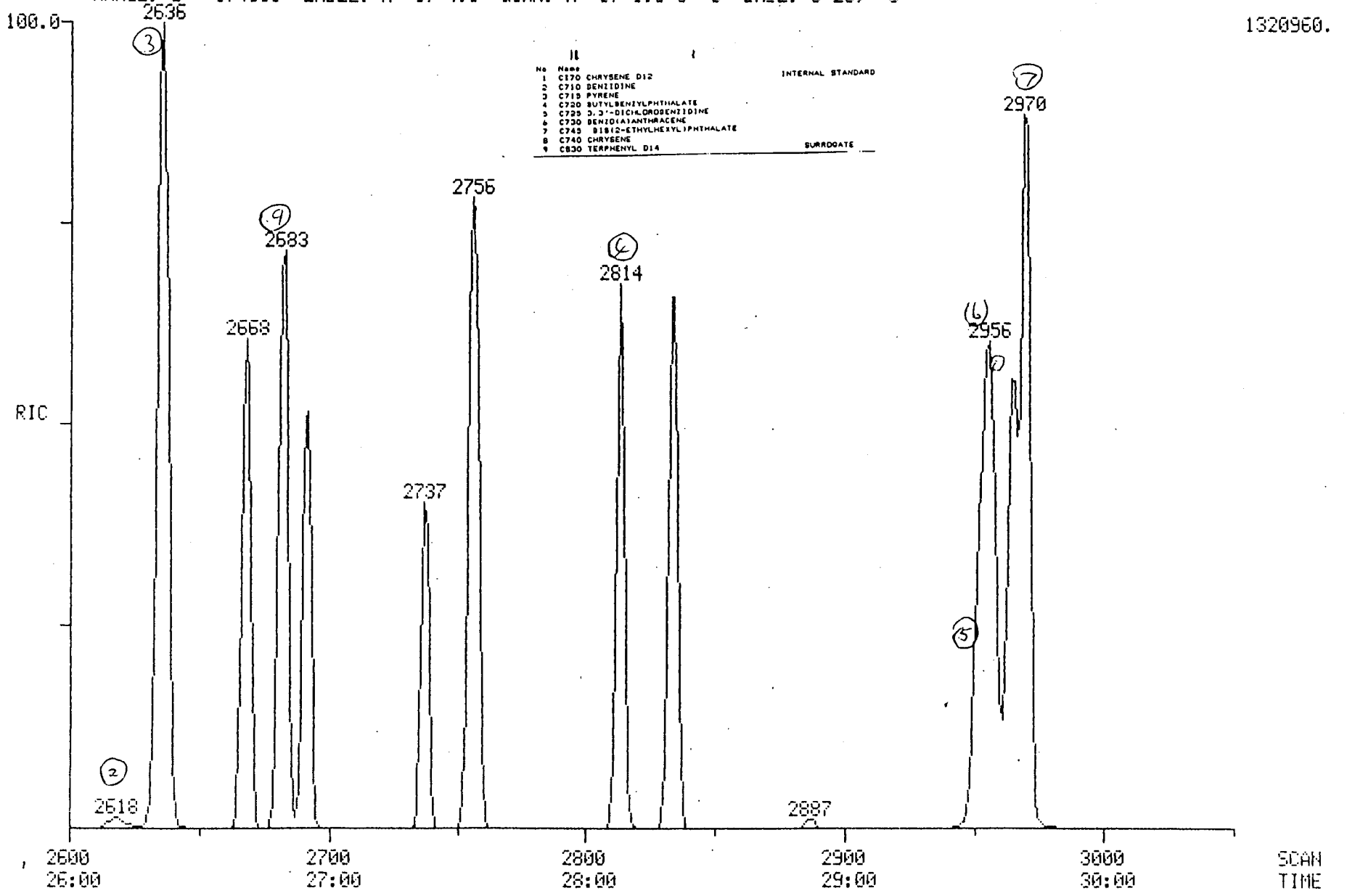
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	188	2259	22:35	1	1.000	A BB	577648.	40.000	UG/ML	4.76
2	198	2034	20:20	1	0.900	A BB	229648.	80.000	UG/ML	9.52
3	169	2051	20:31	1	0.908	A BB	1119550.	80.000	UG/ML	9.52
4	77	2060	20:36	1	0.912	A VB	1929230.	80.000	NG	9.52
5	248	2146	21:28	1	0.950	A BB	382992.	80.000	UG/ML	9.52
6	284	2157	21:34	1	0.955	A BB	437520.	80.000	UG/ML	9.52
7	266	2211	22:07	1	0.979	A BB	261668.	80.000	UG/ML	9.52
8	178	2266	22:40	1	1.003	A BV	2029300.	80.000	UG/ML	9.52
9	178	2280	22:48	1	1.009	A VB	2128660.	80.000	UG/ML	9.52
10	149	2422	24:13	1	1.072	A VB	2536510.	80.000	UG/ML	9.52
11	202	2578	25:47	1	1.141	A BB	1906640.	80.000	UG/ML	9.52

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20	1.00	0.900	1.00	80.00	80.00	0.199	0.199	1.00
3	20:31	1.00	0.908	1.00	80.00	80.00	0.969	0.969	1.00
4	20:36	1.00	0.912	1.00	80.00	80.00	1.670	1.670	1.00
5	21:28	1.00	0.950	1.00	80.00	80.00	0.332	0.332	1.00
6	21:34	1.00	0.955	1.00	80.00	80.00	0.379	0.379	1.00
7	22:07	1.00	0.979	1.00	80.00	80.00	0.226	0.226	1.00
8	22:40	1.00	1.003	1.00	80.00	80.00	1.757	1.757	1.00
9	22:48	1.00	1.009	1.00	80.00	80.00	1.843	1.843	1.00
10	24:13	1.00	1.072	1.00	80.00	80.00	2.196	2.196	1.00
11	25:47	1.00	1.141	1.00	80.00	80.00	1.650	1.650	1.00

RIC
11/09/90 18:59:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 80 NG INJECTION
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801109 #1
CALI: HSD801109 #3

SCANS 2600 TO 3050



000130

Quantitation Report File: HSD801109

Data: HSD801109.TI
11/09/90 18:59:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80110

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

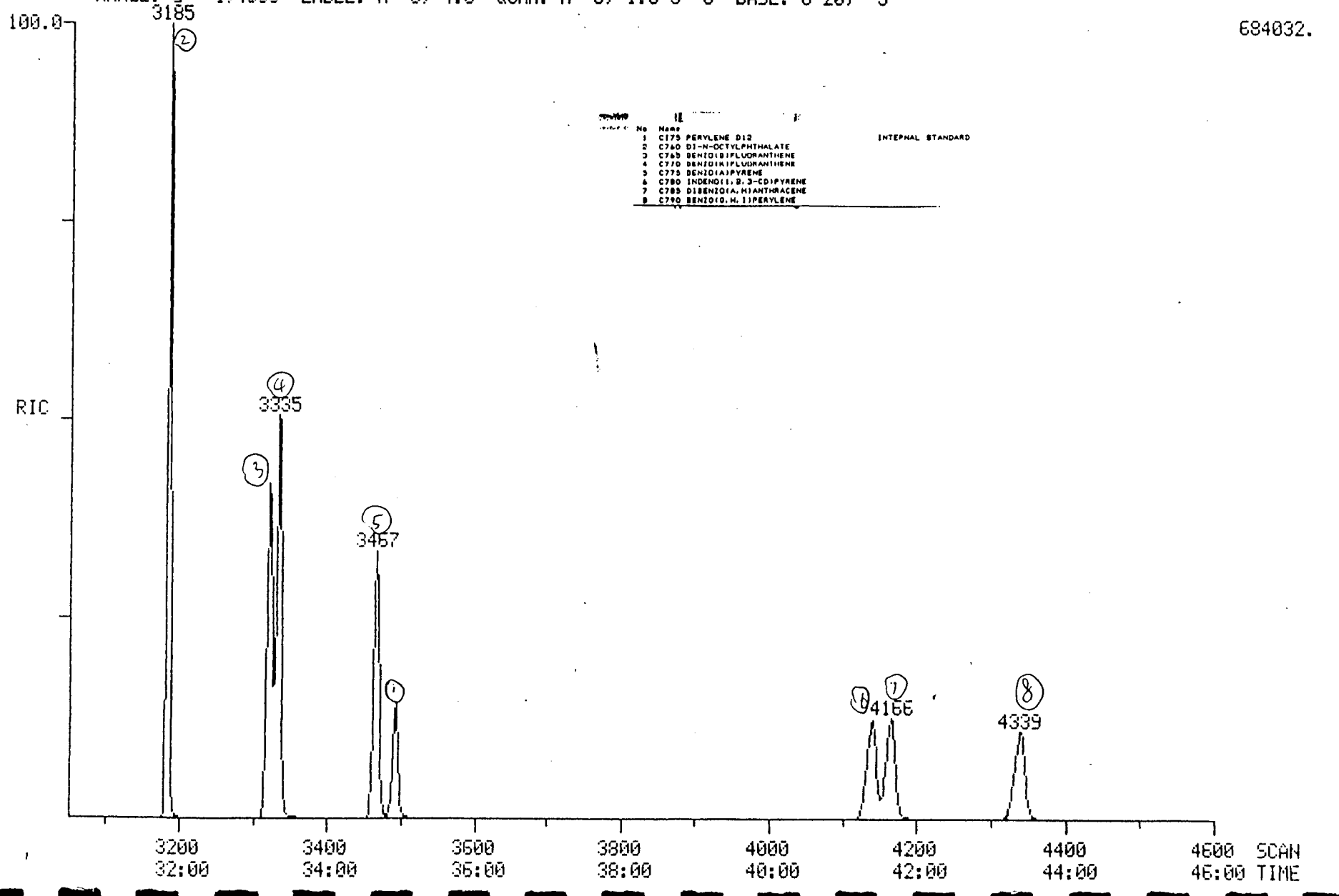
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2958	29:35	1	1.000	A BB	644400.	40.000 UG/ML	5.88
2	184	2618	26:11	1	0.885	A BV	88993.	80.000 UG/ML	11.76
3	202	2637	26:22	1	0.891	A BB	1838590.	80.000 UG/ML	11.76
4	149	2814	28:08	1	0.951	A BB	894896.	80.000 UG/ML	11.76
5	252	2950	29:30	1	0.997	A BB	275762.	80.000 UG/ML	11.76
6	228	2955	29:33	1	0.999	A BV	1392620.	80.000 UG/ML	11.76
7	149	2970	29:42	1	1.004	A BB	1485380.	80.000 UG/ML	11.76
8	228	2965	29:39	1	1.002	A BB	1143010.	80.000 UG/ML	11.76
9	244	2682	26:49	1	0.907	A VB	1506640.	80.000 UG/ML	11.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:11	1.00	0.885	1.00	80.00	80.00	0.069	0.069	1.00
3	26:22	1.00	0.891	1.00	80.00	80.00	1.427	1.427	1.00
4	28:08	1.00	0.951	1.00	80.00	80.00	0.694	0.694	1.00
5	29:30	1.00	0.997	1.00	80.00	80.00	0.214	0.214	1.00
6	29:33	1.00	0.999	1.00	80.00	80.00	1.081	1.081	1.00
7	29:42	1.00	1.004	1.00	80.00	80.00	1.153	1.153	1.00
8	29:39	1.00	1.002	1.00	80.00	80.00	0.887	0.887	1.00
9	26:49	1.00	0.907	1.00	80.00	80.00	1.169	1.169	1.00

RIC
11/09/90 18:59:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801109 #1 SCANS 3050 TO 4600
CALI: HSD801109 #3



684032.

No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000192

Quantitation Report File: HSD801109

000193

Data: HSD801109.TI
11/09/90 18:59:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80110

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

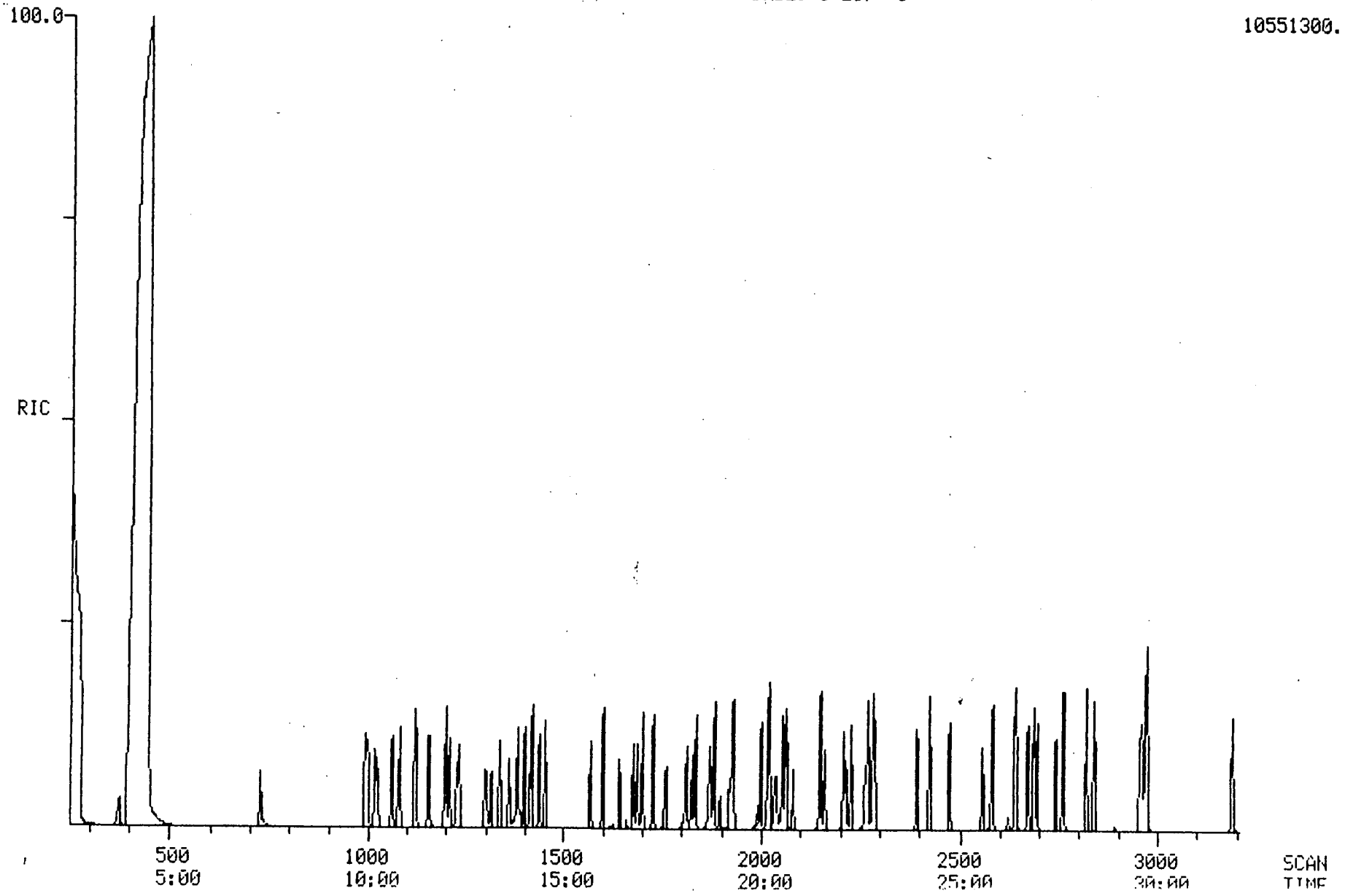
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3493	34:56	1	1.000	A BB	389441.	40.000 UG/ML	6.67
2	149	3185	31:51	1	0.912	A BB	1994560.	80.000 UG/ML	13.33
3	252	3323	33:14	1	0.951	A BV	937128.	80.000 UG/ML	13.33
4	252	3335	33:21	1	0.955	A VB	968432.	80.000 UG/ML	13.33
5	252	3467	34:40	1	0.993	A BB	841255.	80.000 UG/NL	13.33
6	276	4140	41:24	1	1.185	A BB	425175.	80.000 UG/ML	13.33
7	278	4166	41:40	1	1.193	A BB	467422.	80.000 UG/ML	13.33
8	276	4339	43:23	1	1.242	A BB	425900.	80.000 UG/ML	13.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:51	1.00	0.912	1.00	80.00	80.00	2.561	2.561	1.00
3	33:14	1.00	0.951	1.00	80.00	80.00	1.203	1.203	1.00
4	33:21	1.00	0.955	1.00	80.00	80.00	1.243	1.243	1.00
5	34:40	1.00	0.993	1.00	80.00	80.00	1.080	1.080	1.00
6	41:24	1.00	1.185	1.00	80.00	80.00	0.546	0.546	1.00
7	41:40	1.00	1.193	1.00	80.00	80.00	0.600	0.600	1.00
8	43:23	1.00	1.242	1.00	80.00	80.00	0.547	0.547	1.00

RIC
11/09/90 19:57:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 120 NG INJECTION
RANGE: G 1,3204 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

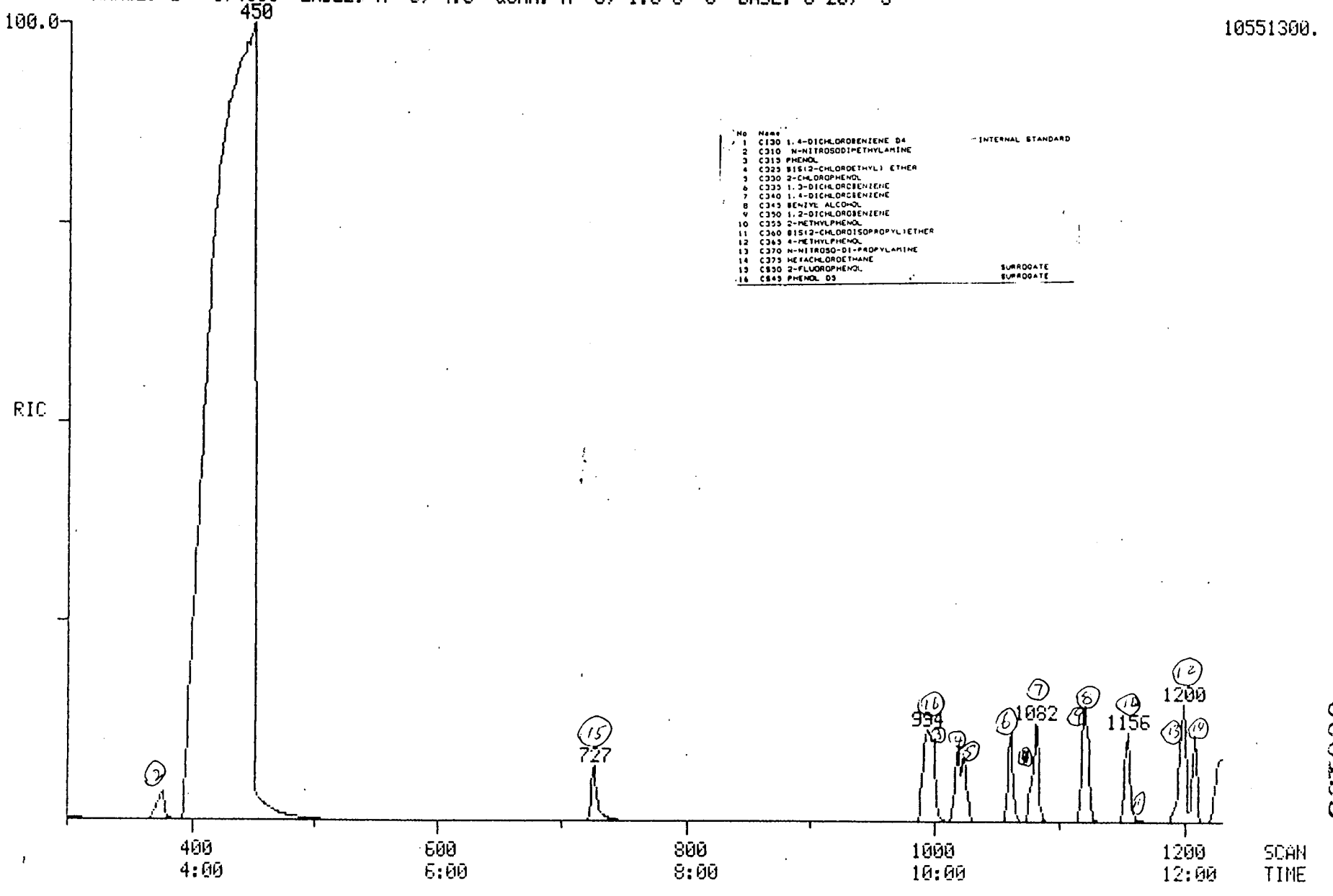
DATA: HSD1201109 #1 SCANS 250 TO 3206
CALI: CALTAB #3



000194

RIC
11/09/90 13:57:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201109 #1 SCANS 300 TO 1230
CALI: HSD1201109 #3



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C830 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000195

Quantitation Report File: HSD1201109

Data: HSD1201109.TI
11/09/90 19:57:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: LA Acct. No.: HSD12011

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

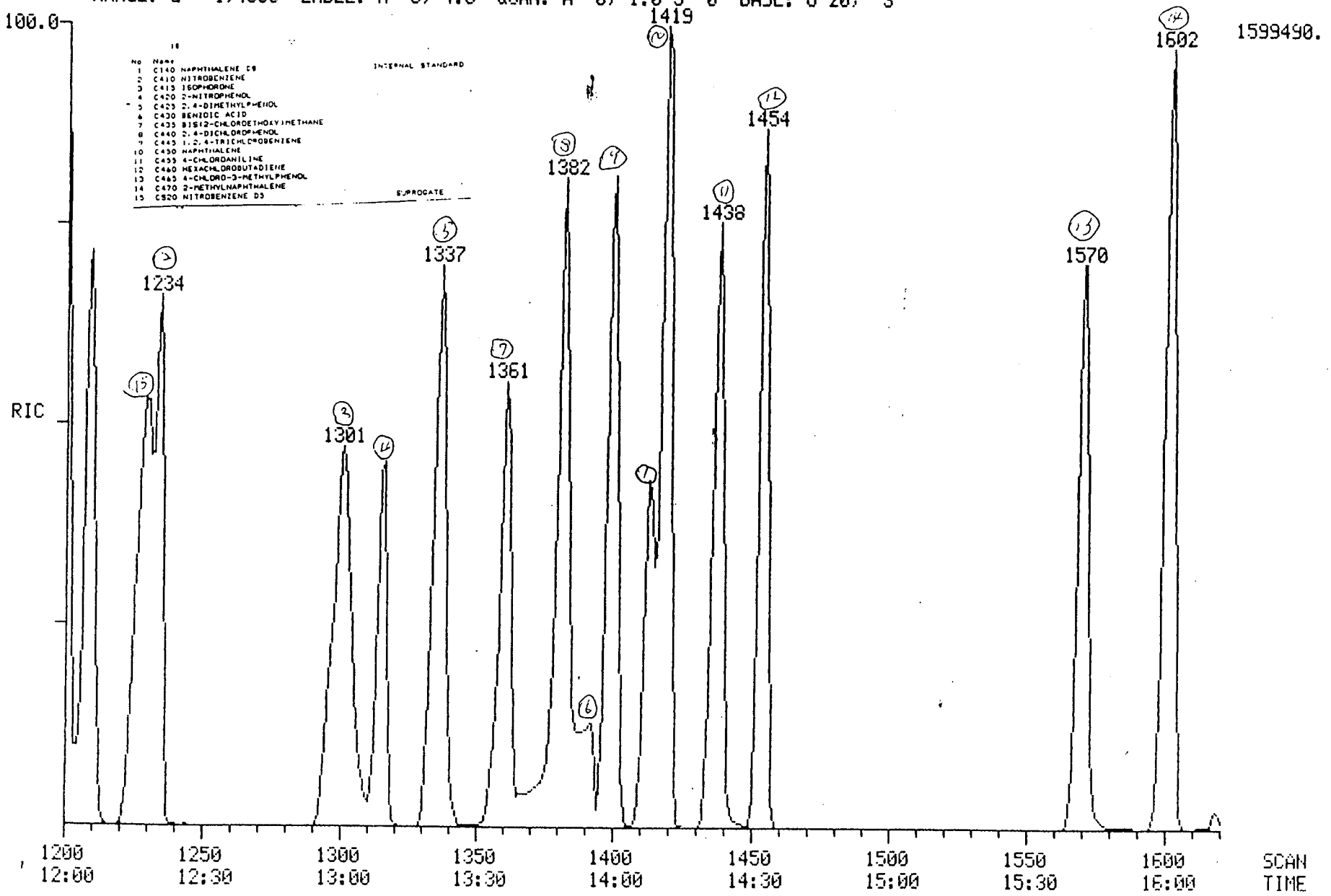
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	1077	10:46	1	1.000	A BB	364608.	40.000	UG/ML	2.17
2	74	377	3:46	1	0.350	A BB	1158200.	120.000	UG	6.52
3	94	1000	10:00	1	0.929	A BB	1689240.	120.000	UG/ML	6.52
4	93	1019	10:11	1	0.946	A BB	1393490.	120.000	UG/ML	6.52
5	128	1023	10:14	1	0.950	A BB	1439850.	120.000	UG/ML	6.52
6	146	1062	10:37	1	0.986	A BB	1494970.	120.000	UG/ML	6.52
7	146	1082	10:49	1	1.005	A BB	1476200.	120.000	UG/ML	6.52
8	108	1124	11:14	1	1.044	A BB	799665.	120.000	UG/ML	6.52
9	146	1121	11:13	1	1.041	A BB	1262990.	120.000	UG/ML	6.52
10	108	1155	11:33	1	1.072	A BB	1294700.	120.000	UG/ML	6.52
11	45	1165	11:39	1	1.082	A VB	23040.	120.000	UG/ML	6.52
12	108	1200	12:00	1	1.114	A BB	1020310.	120.000	UG/ML	6.52
13	70	1198	11:59	1	1.112	A BB	1112700.	120.000	UG/ML	6.52
14	117	1209	12:05	1	1.123	A BB	672336.	120.000	UG/ML	6.52
15	112	727	7:16	1	0.675	A BB	1234520.	120.000	UG/L	6.52
16	99	996	9:58	1	0.925	A BB	1341990.	120.000	UG/ML	6.52

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:46	1.00	0.350	1.00	120.00	120.00	1.059	1.059	1.00
3	10:00	1.00	0.929	1.00	120.00	120.00	1.544	1.544	1.00
4	10:11	1.00	0.946	1.00	120.00	120.00	1.274	1.274	1.00
5	10:14	1.00	0.950	1.00	120.00	120.00	1.316	1.316	1.00
6	10:37	1.00	0.986	1.00	120.00	120.00	1.367	1.367	1.00
7	10:49	1.00	1.005	1.00	120.00	120.00	1.350	1.350	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:14	1.00	1.044	1.00	120.00	120.00	0.731	0.731	1.00
9	11:13	1.00	1.041	1.00	120.00	120.00	1.155	1.155	1.00
10	11:33	1.00	1.072	1.00	120.00	120.00	1.184	1.184	1.00
11	11:39	1.00	1.082	1.00	120.00	120.00	0.021	0.021	1.00
12	12:00	1.00	1.114	1.00	120.00	120.00	0.933	0.933	1.00
13	11:59	1.00	1.112	1.00	120.00	120.00	1.017	1.017	1.00
14	12:05	1.00	1.123	1.00	120.00	120.00	0.615	0.615	1.00
15	7:16	1.00	0.675	1.00	120.00	120.00	1.129	1.129	1.00
16	9:58	1.00	0.925	1.00	120.00	120.00	1.227	1.227	1.00

RIC
11/09/90 19:57:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201109 #1 SCANS 1200 TO 1620
CALI: HSD1201109 #3



000198

Quantitation Report File: HSD1201109

Data: HSD1201109.TI
11/09/90 19:57:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD12011

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

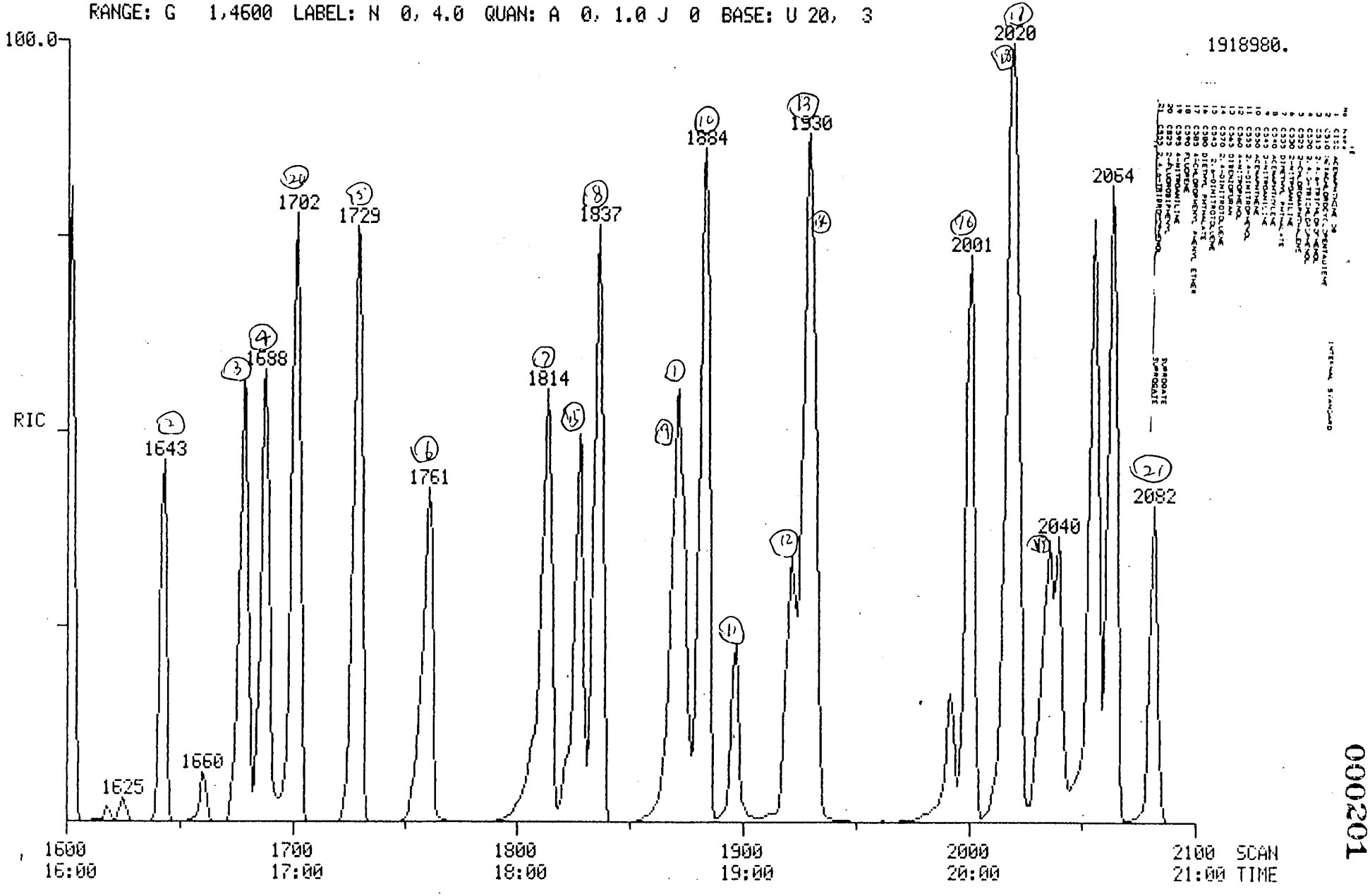
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	136	1413	14:08	1	1.000	A BB	1452320.	40.000	UG/ML	2.33
2	77	1234	12:20	1	0.873	A BV	1558880.	120.000	UG/ML	6.98
3	82	1301	13:01	1	0.921	A BB	2943260.	120.000	UG/ML	6.98
4	139	1315	13:09	1	0.931	A BB	610585.	120.000	UG/ML	6.98
5	122	1337	13:22	1	0.946	A BB	1109630.	120.000	UG/ML	6.98
6	122	1392	13:55	1	0.985	A BB	618032.	120.000	UG/ML	6.98
7	93	1361	13:37	1	0.963	A BB	1537330.	120.000	UG/ML	6.98
8	162	1382	13:49	1	0.978	A BB	1097740.	120.000	UG/ML	6.98
9	180	1400	14:00	1	0.991	A BB	1167620.	120.000	UG/ML	6.98
10	128	1419	14:11	1	1.004	A BB	3213870.	120.000	UG/ML	6.98
11	127	1438	14:23	1	1.018	A BB	1578070.	120.000	UG/ML	6.98
12	225	1454	14:32	1	1.029	A BB	648592.	120.000	UG/ML	6.98
13	107	1570	15:42	1	1.111	A BB	1118760.	120.000	UG/ML	6.98
14	142	1602	16:01	1	1.134	A BB	1997470.	120.000	UG/ML	6.98
15	82	1228	12:17	1	0.869	A BB	1720430.	120.000	UG/ML	6.98

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:20	1.00	0.873	1.00	120.00	120.00	0.358	0.358	1.00
3	13:01	1.00	0.921	1.00	120.00	120.00	0.676	0.676	1.00
4	13:09	1.00	0.931	1.00	120.00	120.00	0.140	0.140	1.00
5	13:22	1.00	0.946	1.00	120.00	120.00	0.255	0.255	1.00
6	13:55	1.00	0.985	1.00	120.00	120.00	0.142	0.142	1.00
7	13:37	1.00	0.963	1.00	120.00	120.00	0.353	0.353	1.00
8	13:49	1.00	0.978	1.00	120.00	120.00	0.252	0.252	1.00
9	14:00	1.00	0.991	1.00	120.00	120.00	0.268	0.268	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:11	1.00	1.004	1.00	120.00	120.00	0.738	0.738	1.00
11	14:23	1.00	1.018	1.00	120.00	120.00	0.362	0.362	1.00
12	14:32	1.00	1.029	1.00	120.00	120.00	0.149	0.149	1.00
13	15:42	1.00	1.111	1.00	120.00	120.00	0.257	0.257	1.00
14	16:01	1.00	1.134	1.00	120.00	120.00	0.458	0.458	1.00
15	12:17	1.00	0.869	1.00	120.00	120.00	0.395	0.395	1.00

RIC
11/09/90 19:57:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201109 #1 SCANS 1600 TO 2100
CALI: HSD1201109 #3



000201

Quantitation Report File: HSD1201109

Data: HSD1201109.TI
11/09/90 19:57:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD12011

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

No	Name		
1	CI50	ACENAPHTHENE D8	INTERNAL STANDARD
2	C510	HEXACHLOROCYCLOPENTADIENE	
3	C515	2,4,6-TRICHLOROPHENOL	
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	
11	C555	2,4-DINITROPHENOL	
12	C560	4-NITROPHENOL	
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYL PHTHALATE	
17	C585	4-CHLOROPHENYL PHENYL ETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	SURROGATE
21	CS55	2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	164	1874	18:44	1	1.000	A BB	749616.	40.000	UG/ML	1.64
2	237	1643	16:26	1	0.877	A BB	488128.	120.000	UG/ML	4.92
3	196	1678	16:47	1	0.895	A BV	725866.	120.000	UG/ML	4.92
4	196	1687	16:52	1	0.900	A VB	782952.	120.000	UG/ML	4.92
5	162	1729	17:17	1	0.923	A BB	2119660.	120.000	UG/ML	4.92
6	65	1761	17:37	1	0.940	A BB	918249.	120.000	UG/ML	4.92
7	163	1814	18:08	1	0.968	A BB	2814950.	120.000	UG/ML	4.92
8	152	1837	18:22	1	0.980	A BB	3223980.	120.000	UG/ML	4.92
9	138	1871	18:43	1	0.998	A BB	790151.	120.000	UG/ML	4.92
10	154	1884	18:50	1	1.005	A BV	1944340.	120.000	UG/ML	4.92
11	184	1897	18:58	1	1.012	A BB	297641.	120.000	UG/ML	4.92
12	109	1922	19:13	1	1.026	A BB	382925.	120.000	UG/ML	4.92
13	168	1929	19:17	1	1.029	A BB	2763570.	120.000	UG/ML	4.92
14	165	1932	19:19	1	1.031	A VB	865386.	120.000	UG/ML	4.92
15	165	1828	18:17	1	0.975	A VB	701808.	120.000	UG/ML	4.92
16	149	2001	20:01	1	1.068	A BB	2752110.	120.000	UG/ML	4.92
17	204	2022	20:13	1	1.079	A BB	935920.	120.000	UG/ML	4.92
18	166	2019	20:11	1	1.077	A BB	2286290.	120.000	UG/ML	4.92
19	138	2036	20:22	1	1.086	A VB	632468.	120.000	UG/ML	4.92
20	172	1702	17:01	1	0.908	A BB	2234700.	120.000	UG/ML	4.92
21	330	2082	20:49	1	1.111	A BB	422624.	120.000	UG/ML	4.92

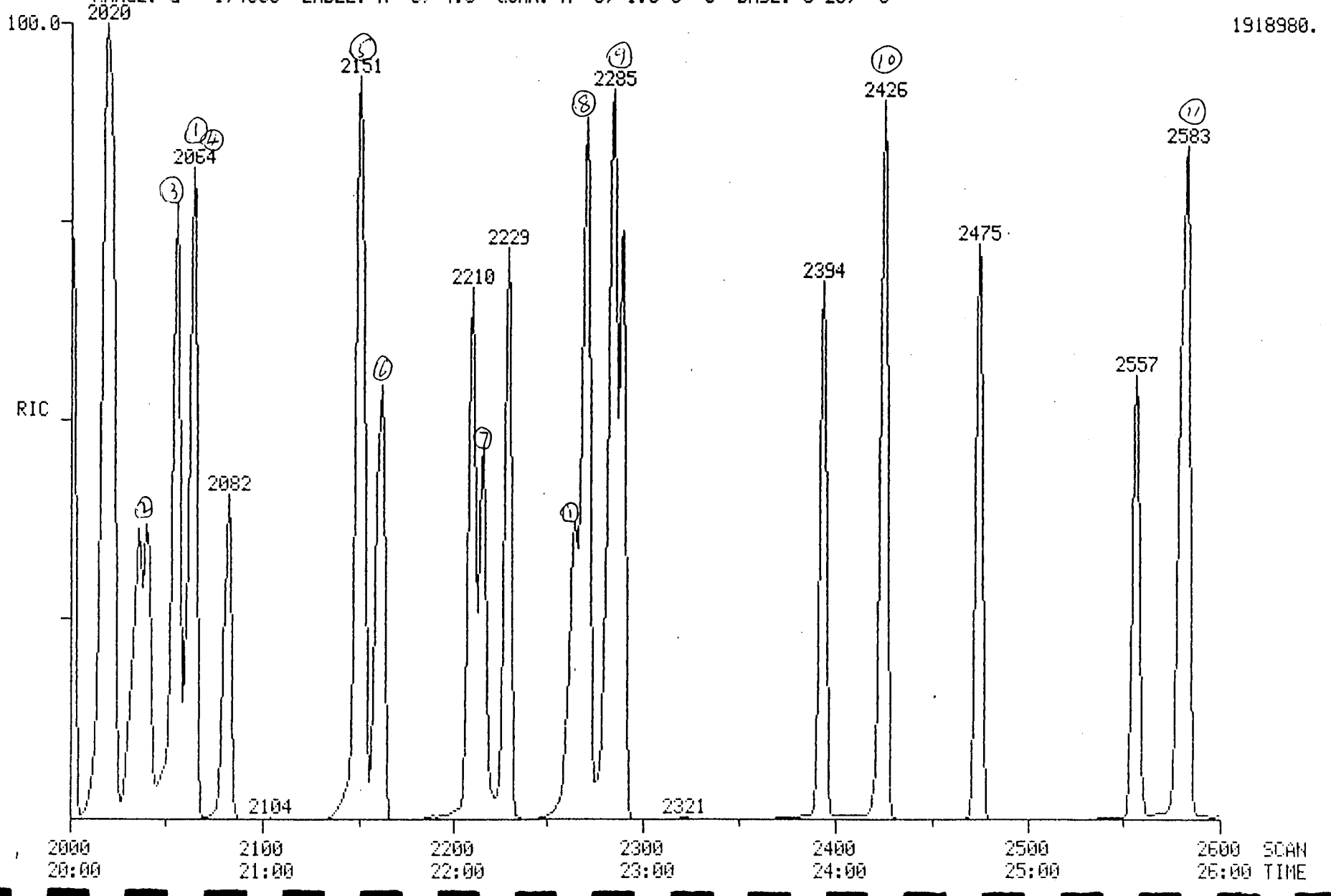
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:26	1.00	0.877	1.00	120.00	120.00	0.217	0.217	1.00
3	16:47	1.00	0.895	1.00	120.00	120.00	0.323	0.323	1.00
4	16:52	1.00	0.900	1.00	120.00	120.00	0.348	0.348	1.00
5	17:17	1.00	0.923	1.00	120.00	120.00	0.943	0.943	1.00
6	17:37	1.00	0.940	1.00	120.00	120.00	0.408	0.408	1.00
7	18:08	1.00	0.968	1.00	120.00	120.00	1.252	1.252	1.00
8	18:22	1.00	0.980	1.00	120.00	120.00	1.434	1.434	1.00
9	18:43	1.00	0.998	1.00	120.00	120.00	0.351	0.351	1.00
10	18:50	1.00	1.005	1.00	120.00	120.00	0.865	0.865	1.00
11	18:58	1.00	1.012	1.00	120.00	120.00	0.132	0.132	1.00
12	19:13	1.00	1.026	1.00	120.00	120.00	0.170	0.170	1.00
13	19:17	1.00	1.029	1.00	120.00	120.00	1.229	1.229	1.00
14	19:19	1.00	1.031	1.00	120.00	120.00	0.385	0.385	1.00
15	18:17	1.00	0.975	1.00	120.00	120.00	0.312	0.312	1.00
16	20:01	1.00	1.068	1.00	120.00	120.00	1.224	1.224	1.00
17	20:13	1.00	1.079	1.00	120.00	120.00	0.416	0.416	1.00
18	20:11	1.00	1.077	1.00	120.00	120.00	1.017	1.017	1.00
19	20:22	1.00	1.086	1.00	120.00	120.00	0.281	0.281	1.00
20	17:01	1.00	0.908	1.00	120.00	120.00	0.994	0.994	1.00
21	20:49	1.00	1.111	1.00	120.00	120.00	0.188	0.188	1.00

RIC
11/09/90 19:57:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201109 #1
CALI: HSD1201109 #3

SCANS 2000 TO 2600

No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	



000204

Quantitation Report File: HSD1201109

000205

Data: HSD1201109.TI
11/09/90 19:57:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD12011

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

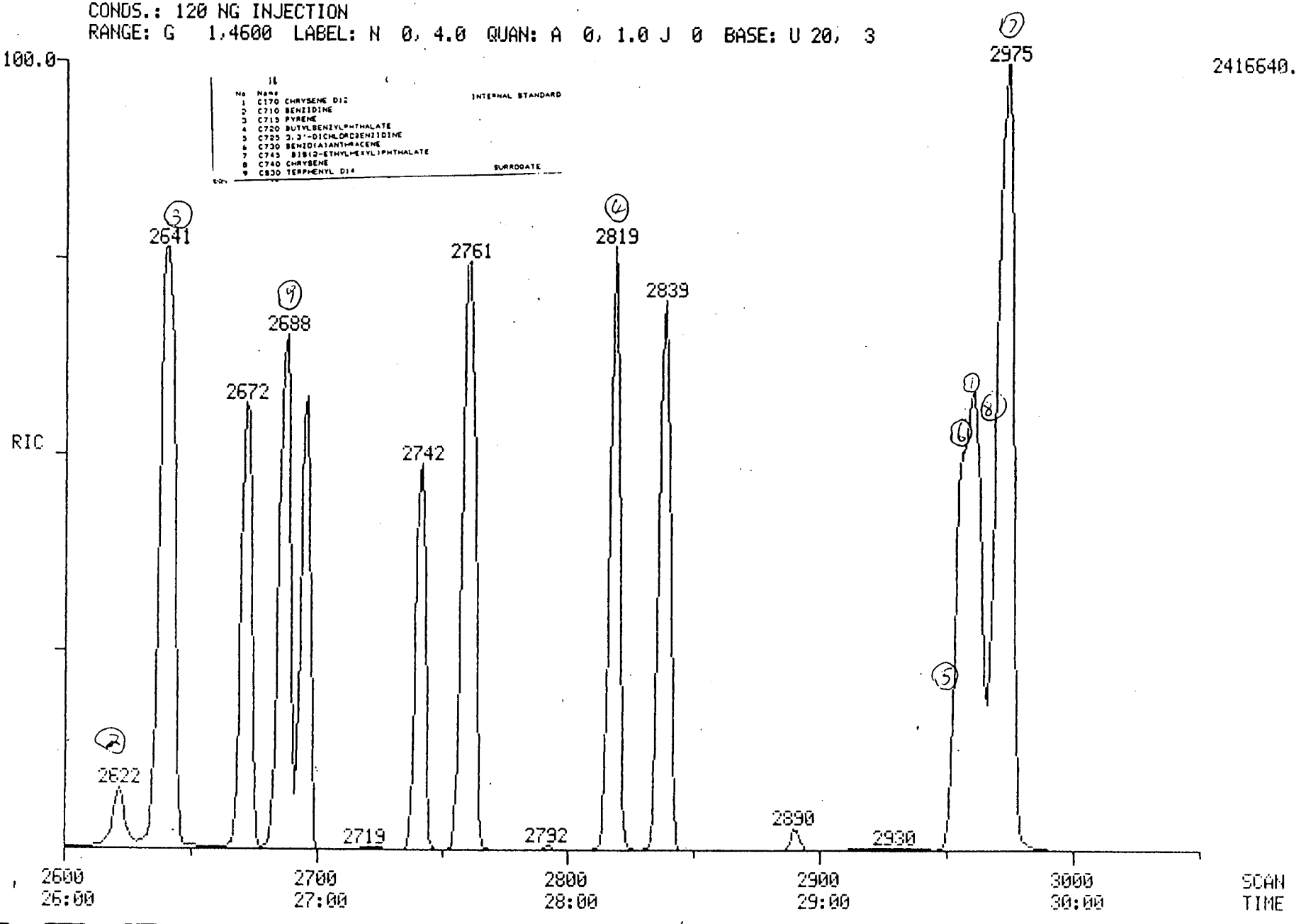
No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	188	2263	22:38	1	1.000	A BB	785060.	40.000	UG/ML	3.23
2	198	2040	20:24	1	0.901	A VB	436405.	120.000	UG/ML	9.68
3	169	2056	20:34	1	0.909	A BB	1882240.	120.000	UG/ML	9.68
4	77	2064	20:38	1	0.912	A BB	3491860.	120.000	NG	9.68
5	248	2150	21:30	1	0.950	A BB	597021.	120.000	UG/ML	9.68
6	284	2162	21:37	1	0.955	A BB	775344.	120.000	UG/ML	9.68
7	266	2215	22:09	1	0.979	A BB	490502.	120.000	UG/ML	9.68
8	178	2271	22:43	1	1.004	A BV	3546320.	120.000	UG/ML	9.68
9	178	2285	22:51	1	1.010	A BB	3280100.	120.000	UG/ML	9.68
10	149	2426	24:16	1	1.072	A BB	4413280.	120.000	UG/ML	9.68
11	202	2583	25:50	1	1.141	A BB	3518740.	120.000	UG/ML	9.68

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:24	1.00	0.901	1.00	120.00	120.00	0.185	0.185	1.00
3	20:34	1.00	0.909	1.00	120.00	120.00	0.799	0.799	1.00
4	20:38	1.00	0.912	1.00	120.00	120.00	1.483	1.483	1.00
5	21:30	1.00	0.950	1.00	120.00	120.00	0.253	0.253	1.00
6	21:37	1.00	0.955	1.00	120.00	120.00	0.329	0.329	1.00
7	22:09	1.00	0.979	1.00	120.00	120.00	0.208	0.208	1.00
8	22:43	1.00	1.004	1.00	120.00	120.00	1.506	1.506	1.00
9	22:51	1.00	1.010	1.00	120.00	120.00	1.393	1.393	1.00
10	24:16	1.00	1.072	1.00	120.00	120.00	1.874	1.874	1.00
11	25:50	1.00	1.141	1.00	120.00	120.00	1.494	1.494	1.00

RIC
11/09/90 19:57:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201109 #1 SCANS 2600 TO 3050
CALI: HSD1201109 #3



000206

Quantitation Report File: HSD1201109

Data: HSD1201109.TI
11/09/90 19:57:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD12011

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

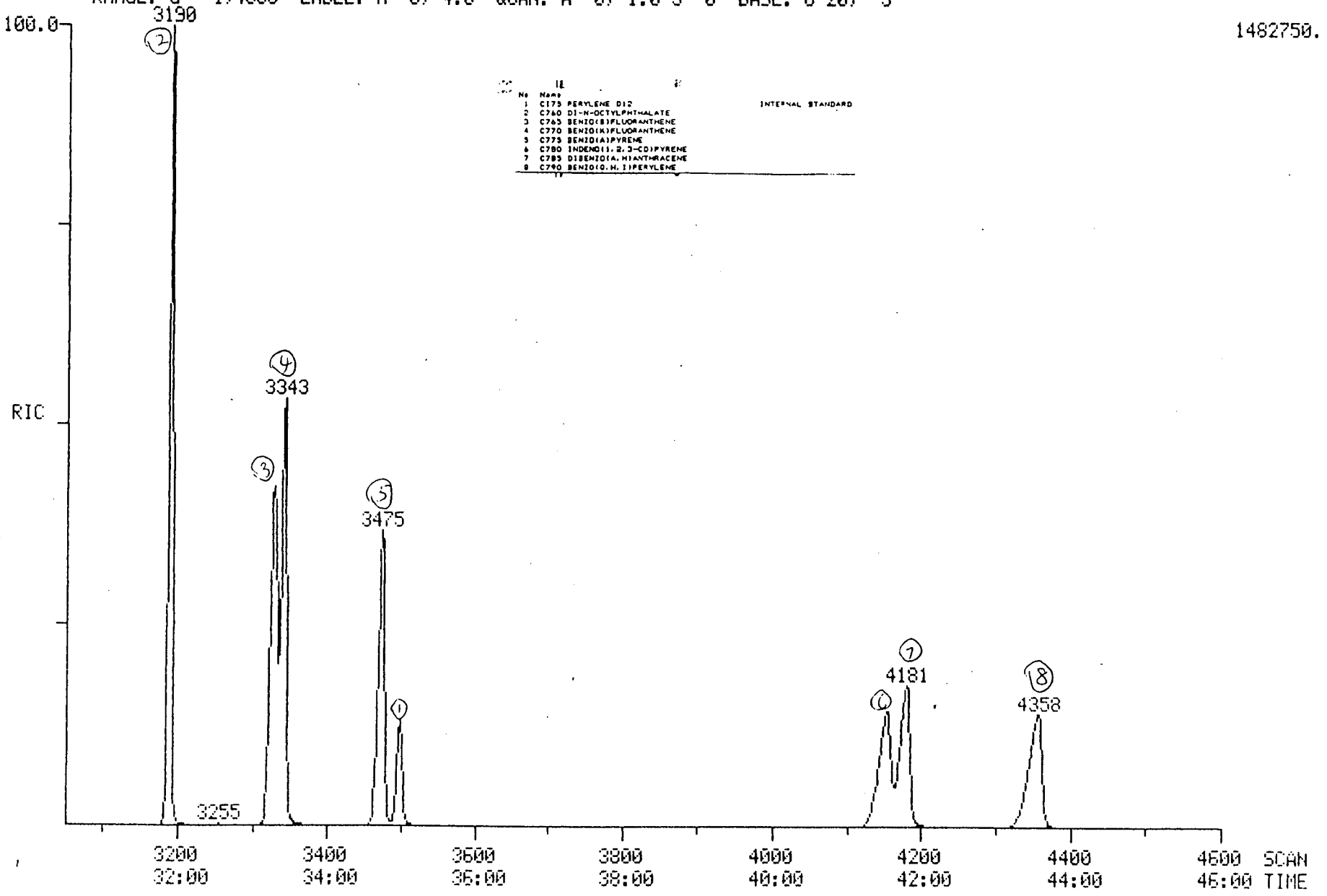
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	240	2963	29:38	1	1.000	A BB	1010440.	40.000	UG/ML	4.00
2	184	2622	26:13	1	0.885	A BB	454246.	120.000	UG/ML	12.00
3	202	2643	26:26	1	0.892	A BB	3425160.	120.000	UG/ML	12.00
4	149	2819	28:11	1	0.951	A BB	2138200.	120.000	UG/ML	12.00
5	252	2955	29:33	1	0.997	A BB	763522.	120.000	UG/ML	12.00
6	228	2960	29:36	1	0.999	A BV	2947110.	120.000	UG/ML	12.00
7	149	2975	29:45	1	1.004	A BB	3114960.	120.000	UG/ML	12.00
8	228	2971	29:43	1	1.003	A BB	2124340.	120.000	UG/ML	12.00
9	244	2688	26:53	1	0.907	A BB	2782230.	120.000	UG/ML	12.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13	1.00	0.885	1.00	120.00	120.00	0.150	0.150	1.00
3	26:26	1.00	0.892	1.00	120.00	120.00	1.130	1.130	1.00
4	28:11	1.00	0.951	1.00	120.00	120.00	0.705	0.705	1.00
5	29:33	1.00	0.997	1.00	120.00	120.00	0.252	0.252	1.00
6	29:36	1.00	0.999	1.00	120.00	120.00	0.972	0.972	1.00
7	29:45	1.00	1.004	1.00	120.00	120.00	1.028	1.028	1.00
8	29:43	1.00	1.003	1.00	120.00	120.00	0.701	0.701	1.00
9	26:53	1.00	0.907	1.00	120.00	120.00	0.918	0.918	1.00

RIC
11/09/90 13:57:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201109 #1 SCANS 3050 TO 4600
CALI: HSD1201109 #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000208

Quantitation Report File: HSD1201109

Data: HSD1201109.TI
11/09/90 19:57:00
Sampl : HSL-D STANDARD 11/9/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD12011

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

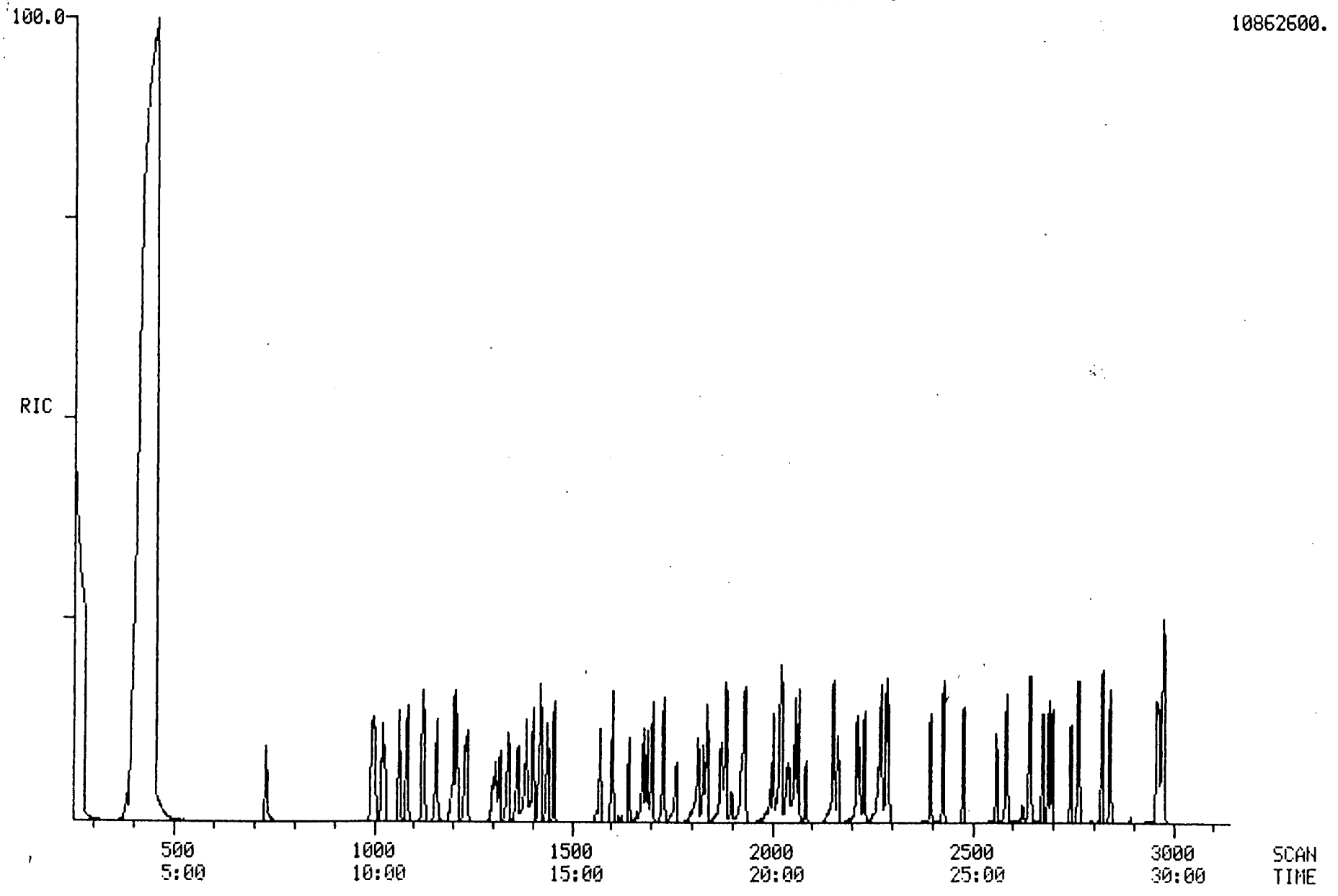
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3499	34:59	1	1.000	A BB	691812.	40.000 UG/ML	4.55
2	149	3190	31:54	1	0.912	A BB	4561250.	120.000 UG/ML	13.64
3	252	3329	33:17	1	0.951	A BV	2376610.	120.000 UG/ML	13.64
4	252	3343	33:26	1	0.955	A VB	1827680.	120.000 UG/ML	13.64
5	252	3475	34:45	1	0.993	A BB	1985540.	120.000 UG/NL	13.64
6	276	4154	41:32	1	1.187	A BB	925664.	120.000 UG/ML	13.64
7	278	4181	41:49	1	1.195	A BB	1291340.	120.000 UG/ML	13.64
8	276	4357	43:34	1	1.245	A BB	1067570.	120.000 UG/ML	13.64

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:54	1.00	0.912	1.00	120.00	120.00	2.198	2.198	1.00
3	33:17	1.00	0.951	1.00	120.00	120.00	1.145	1.145	1.00
4	33:26	1.00	0.955	1.00	120.00	120.00	0.881	0.881	1.00
5	34:45	1.00	0.993	1.00	120.00	120.00	0.957	0.957	1.00
6	41:32	1.00	1.187	1.00	120.00	120.00	0.446	0.446	1.00
7	41:49	1.00	1.195	1.00	120.00	120.00	0.622	0.622	1.00
8	43:34	1.00	1.245	1.00	120.00	120.00	0.514	0.514	1.00

RIC
11/09/90 20:50:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 160 NG INJECTION
RANGE: G 1,3137 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

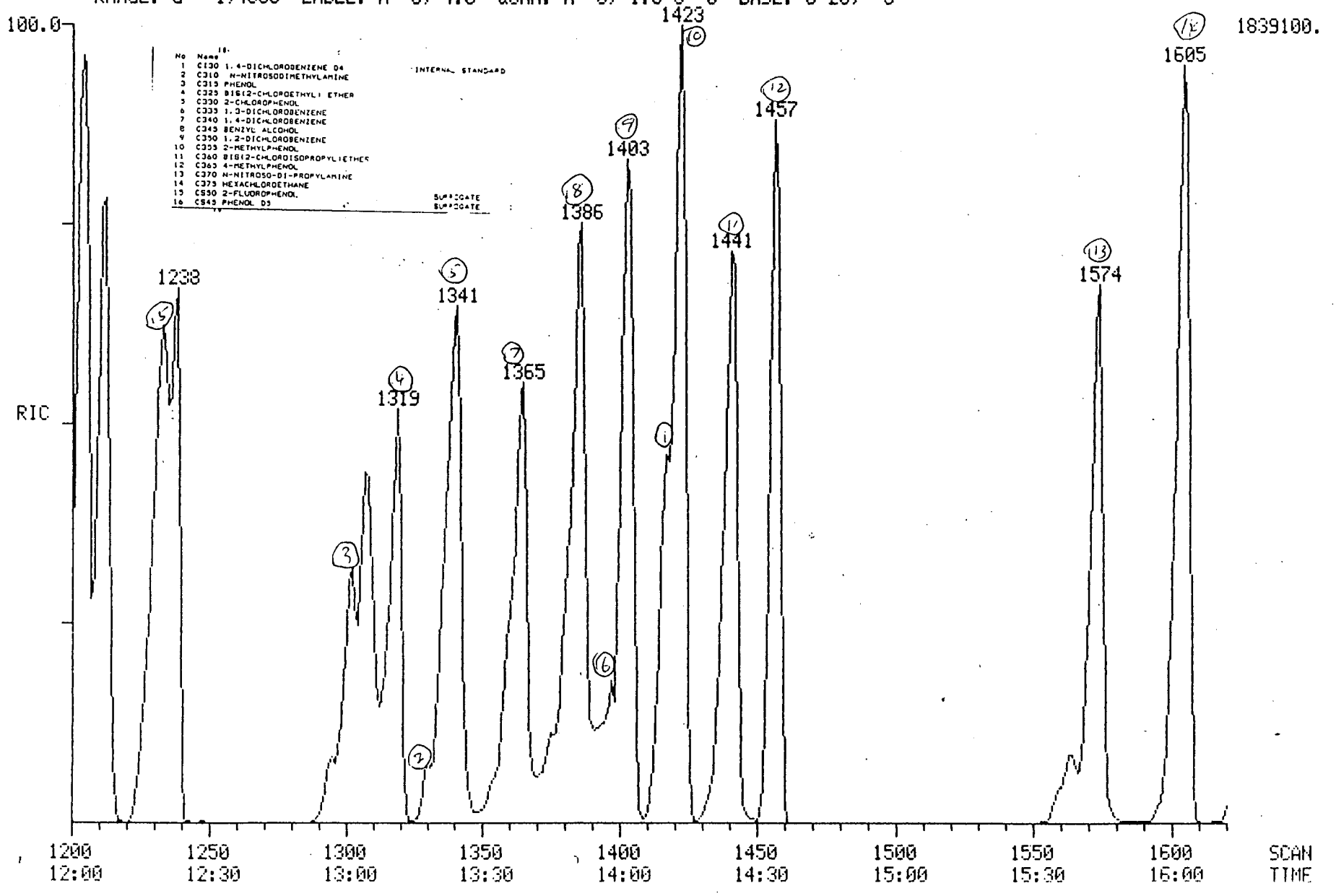
DATA: HSC1601109 #1 SCANS 250 TO 3139
CALI: CALTAB #3



000210

RIC
11/09/90 20:50:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSC1601109 #1 SCANS 1200 TO 1620
CALI: HSC1601109 #3



Quantitation Report File: HSC1601109

Data: HSC1601109.TI
11/09/90 20:50:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD16011

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

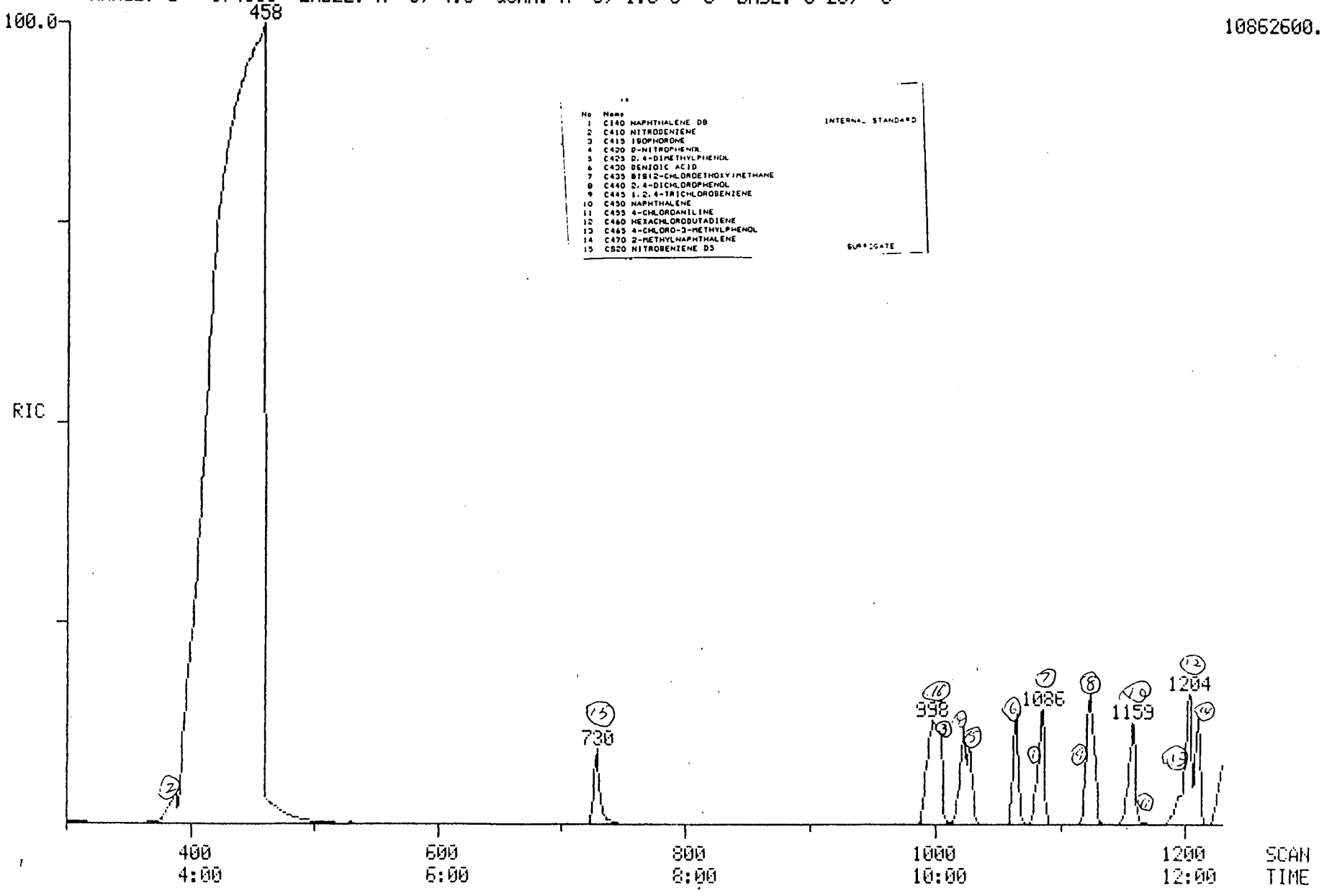
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	1080	10:48	1	1.000	A BB	370816.	40.000	UG/ML	1.64
2	74	388	3:53	1	0.359	A BB	1321440.	160.000	UG	6.56
3	94	1005	10:03	1	0.931	A BB	2379280.	160.000	UG/ML	6.56
4	93	1022	10:13	1	0.946	A BB	1893160.	160.000	UG/ML	6.56
5	128	1027	10:16	1	0.951	A BB	2010280.	160.000	UG/ML	6.56
6	146	1065	10:39	1	0.986	A BB	1981070.	160.000	UG/ML	6.56
7	146	1086	10:52	1	1.006	A BB	1902620.	160.000	UG/ML	6.56
8	108	1128	11:17	1	1.044	A BB	1149300.	160.000	UG/ML	6.56
9	146	1124	11:14	1	1.041	A BB	1637380.	160.000	UG/ML	6.56
10	108	1159	11:35	1	1.073	A BB	1804650.	160.000	UG/ML	6.56
11	45	1168	11:41	1	1.081	A VB	32320.	160.000	UG/ML	6.56
12	108	1204	12:02	1	1.115	A VB	1223800.	160.000	UG/ML	6.56
13	70	1202	12:01	1	1.113	A BB	1530800.	160.000	UG/ML	6.56
14	117	1212	12:07	1	1.122	A BB	887856.	160.000	UG/ML	6.56
15	112	730	7:18	1	0.676	A BB	1732510.	160.000	UG/L	6.56
16	99	1000	10:00	1	0.926	A BB	1856330.	160.000	UG/ML	6.56

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:53	1.00	0.359	1.00	160.00	160.00	0.891	0.891	1.00
3	10:03	1.00	0.931	1.00	160.00	160.00	1.604	1.604	1.00
4	10:13	1.00	0.946	1.00	160.00	160.00	1.276	1.276	1.00
5	10:16	1.00	0.951	1.00	160.00	160.00	1.355	1.355	1.00
6	10:39	1.00	0.986	1.00	160.00	160.00	1.336	1.336	1.00
7	10:52	1.00	1.006	1.00	160.00	160.00	1.283	1.283	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:17	1.00	1.044	1.00	160.00	160.00	0.775	0.775	1.00
9	11:14	1.00	1.041	1.00	160.00	160.00	1.104	1.104	1.00
10	11:35	1.00	1.073	1.00	160.00	160.00	1.217	1.217	1.00
11	11:41	1.00	1.081	1.00	160.00	160.00	0.022	0.022	1.00
12	12:02	1.00	1.115	1.00	160.00	160.00	0.825	0.825	1.00
13	12:01	1.00	1.113	1.00	160.00	160.00	1.032	1.032	1.00
14	12:07	1.00	1.122	1.00	160.00	160.00	0.599	0.599	1.00
15	7:18	1.00	0.676	1.00	160.00	160.00	1.168	1.168	1.00
16	10:00	1.00	0.926	1.00	160.00	160.00	1.252	1.252	1.00

RIC
11/09/90 20:50:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 160 NG INJECTION
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSC1601109 #1 SCANS 300 TO 1230
CALI: HSC1601109 #3



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

000214

Quantitation Report File: HSC1601109

Data: HSC1601109.TI
11/09/90 20:50:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD16011

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

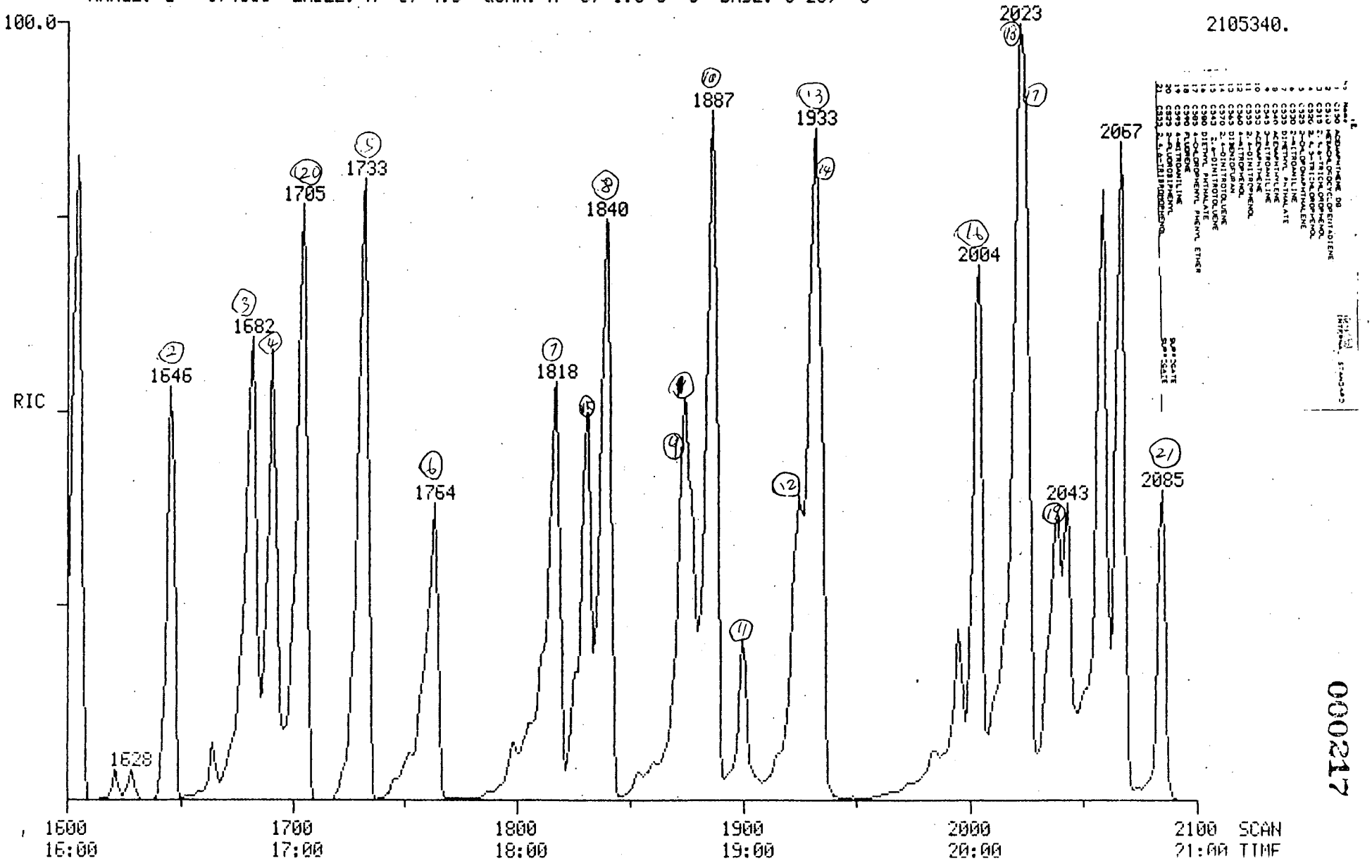
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	136	1416	14:10	1	1.000	A BB	1490320.	40.000	UG/ML	1.75
2	77	1238	12:23	1	0.874	A BV	2143950.	160.000	UG/ML	7.02
3	82	1307	13:04	1	0.923	A*BB	4020480.	160.000	UG/ML	7.02
4	139	1319	13:11	1	0.931	A VB	910519.	160.000	UG/ML	7.02
5	122	1341	13:25	1	0.947	A BB	1619670.	160.000	UG/ML	7.02
6	122	1396	13:58	1	0.986	A*BB	567664.	160.000	UG/ML	7.02
7	93	1365	13:39	1	0.964	A BB	2237490.	160.000	UG/ML	7.02
8	162	1386	13:52	1	0.979	A BB	1587270.	160.000	UG/ML	7.02
9	180	1403	14:02	1	0.991	A BB	1599980.	160.000	UG/ML	7.02
10	128	1423	14:14	1	1.005	A BB	4302520.	160.000	UG/ML	7.02
11	127	1441	14:25	1	1.018	A BB	2235270.	160.000	UG/ML	7.02
12	225	1457	14:34	1	1.029	A BB	865616.	160.000	UG/ML	7.02
13	107	1574	15:44	1	1.112	A VB	1368940.	160.000	UG/ML	7.02
14	142	1605	16:03	1	1.133	A BB	2868140.	160.000	UG/ML	7.02
15	82	1233	12:20	1	0.871	A BB	2243670.	160.000	UG/ML	7.02

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:23	1.00	0.874	1.00	160.00	160.00	0.360	0.360	1.00
3	13:04	1.00	0.923	1.00	160.00	160.00	0.674	0.674	1.00
4	13:11	1.00	0.931	1.00	160.00	160.00	0.153	0.153	1.00
5	13:25	1.00	0.947	1.00	160.00	160.00	0.272	0.272	1.00
6	13:58	1.00	0.986	1.00	160.00	160.00	0.095	0.095	1.00
7	13:39	1.00	0.964	1.00	160.00	160.00	0.375	0.375	1.00
8	13:52	1.00	0.979	1.00	160.00	160.00	0.266	0.266	1.00
9	14:02	1.00	0.991	1.00	160.00	160.00	0.268	0.268	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:14	1.00	1.005	1.00	160.00	160.00	0.722	0.722	1.00
11	14:25	1.00	1.018	1.00	160.00	160.00	0.375	0.375	1.00
12	14:34	1.00	1.029	1.00	160.00	160.00	0.145	0.145	1.00
13	15:44	1.00	1.112	1.00	160.00	160.00	0.230	0.230	1.00
14	16:03	1.00	1.133	1.00	160.00	160.00	0.481	0.481	1.00
15	12:20	1.00	0.871	1.00	160.00	160.00	0.376	0.376	1.00

RIC
11/09/90 20:50:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSC1601109 #1 SCANS 1600 TO 2100
CALI: HSC1601109 #3



000217

Quantitation Report File: HSC1601109

Data: HSC1601109.TI
11/09/90 20:50:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD16011

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	164	1877	18:46	1	1.000	A BB	774467.	40.000	UG/ML	1.23
2	237	1646	16:28	1	0.877	A BB	718416.	160.000	UG/ML	4.94
3	196	1682	16:49	1	0.896	A BV	1090540.	160.000	UG/ML	4.94
4	196	1691	16:55	1	0.901	A VB	846352.	160.000	UG/ML	4.94
5	162	1733	17:20	1	0.923	A BB	3064720.	160.000	UG/ML	4.94
6	65	1764	17:38	1	0.940	A BB	1108140.	160.000	UG/ML	4.94
7	163	1818	18:11	1	0.969	A VB	2558420.	160.000	UG/ML	4.94
8	152	1840	18:24	1	0.980	A BB	4419670.	160.000	UG/ML	4.94
9	138	1874	18:44	1	0.998	A BB	753624.	160.000	UG/ML	4.94
10	154	1887	18:52	1	1.005	A BB	2675400.	160.000	UG/ML	4.94
11	184	1900	19:00	1	1.012	A BB	319223.	160.000	UG/ML	4.94
12	109	1925	19:15	1	1.026	A*BB	368173.	160.000	UG/ML	4.94
13	168	1932	19:19	1	1.029	A BB	3790110.	160.000	UG/ML	4.94
14	165	1935	19:21	1	1.031	A VB	827552.	160.000	UG/ML	4.94
15	165	1831	18:19	1	0.975	A VB	703456.	160.000	UG/ML	4.94
16	149	2004	20:02	1	1.068	A BB	2784380.	160.000	UG/ML	4.94
17	204	2025	20:15	1	1.079	A VB	1099120.	160.000	UG/ML	4.94
18	166	2022	20:13	1	1.077	A BB	2876430.	160.000	UG/ML	4.94
19	138	2038	20:23	1	1.086	A VB	628062.	160.000	UG/ML	4.94
20	172	1705	17:03	1	0.908	A BB	3119340.	160.000	UG/ML	4.94
21	330	2085	20:51	1	1.111	A BB	444229.	160.000	UG/ML	4.94

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:28	1.00	0.877	1.00	160.00	160.00	0.232	0.232	1.00
3	16:49	1.00	0.896	1.00	160.00	160.00	0.352	0.352	1.00
4	16:55	1.00	0.901	1.00	160.00	160.00	0.273	0.273	1.00
5	17:20	1.00	0.923	1.00	160.00	160.00	0.989	0.989	1.00
6	17:38	1.00	0.940	1.00	160.00	160.00	0.358	0.358	1.00
7	18:11	1.00	0.969	1.00	160.00	160.00	0.826	0.826	1.00
8	18:24	1.00	0.980	1.00	160.00	160.00	1.427	1.427	1.00
9	18:44	1.00	0.998	1.00	160.00	160.00	0.243	0.243	1.00
10	18:52	1.00	1.005	1.00	160.00	160.00	0.864	0.864	1.00
11	19:00	1.00	1.012	1.00	160.00	160.00	0.103	0.103	1.00
12	19:15	1.00	1.026	1.00	160.00	160.00	0.119	0.119	1.00
13	19:19	1.00	1.029	1.00	160.00	160.00	1.223	1.223	1.00
14	19:21	1.00	1.031	1.00	160.00	160.00	0.267	0.267	1.00
15	18:19	1.00	0.975	1.00	160.00	160.00	0.227	0.227	1.00
16	20:02	1.00	1.068	1.00	160.00	160.00	0.899	0.899	1.00
17	20:15	1.00	1.079	1.00	160.00	160.00	0.355	0.355	1.00
18	20:13	1.00	1.077	1.00	160.00	160.00	0.929	0.929	1.00
19	20:23	1.00	1.086	1.00	160.00	160.00	0.203	0.203	1.00
20	17:03	1.00	0.908	1.00	160.00	160.00	1.007	1.007	1.00
21	20:51	1.00	1.111	1.00	160.00	160.00	0.143	0.143	1.00

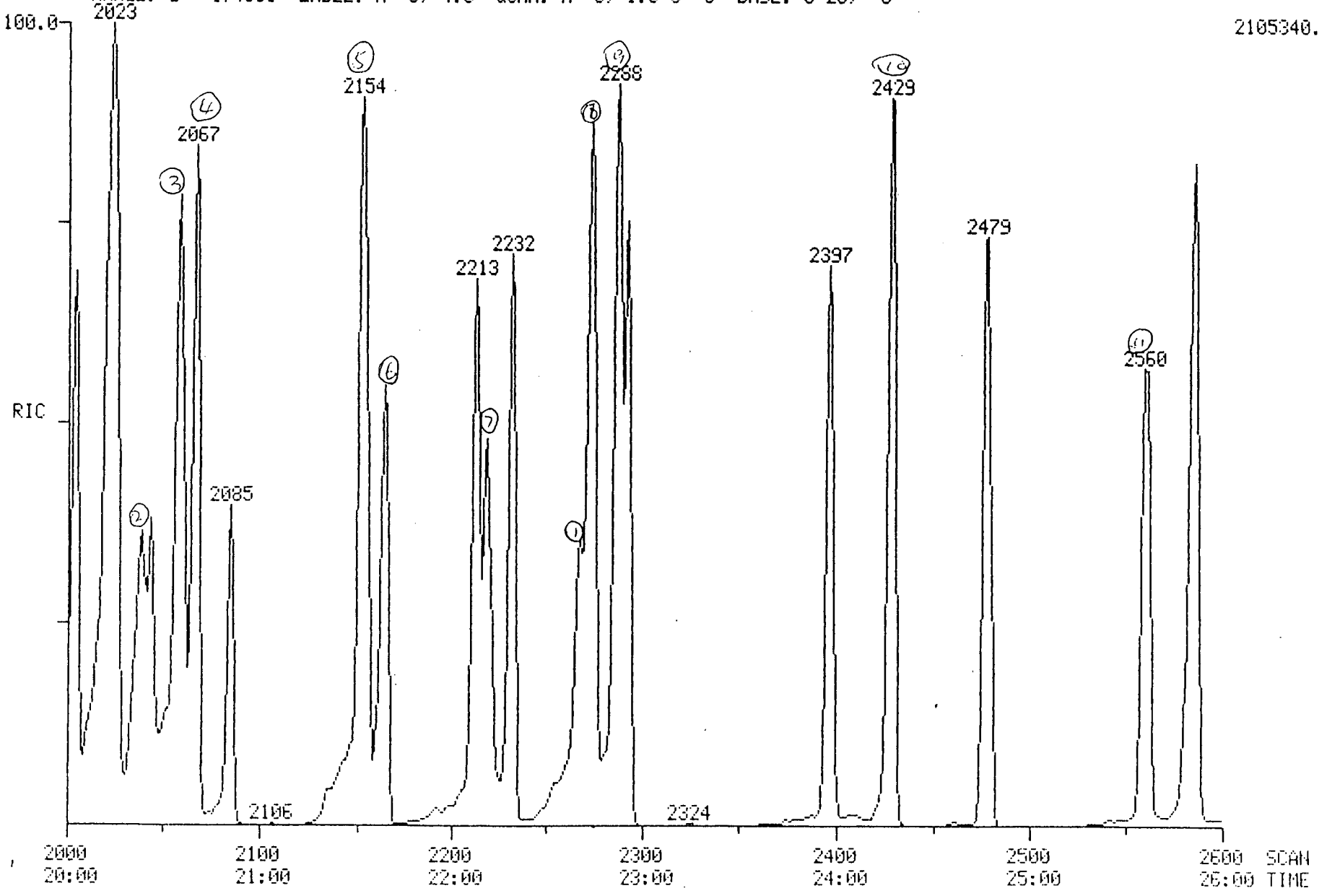
RIC
11/03/90 20:50:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 160 NG INJECTION
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSC1601103 #1
CALI: HSC1601103 #3

SCANS 2000 TO 2600

No	Name
1	C760 PHENANTHRENE D10
2	C610 4,6-DINITRO-2-METHYL PHENOL
3	C615 N-NITROSODIPHENYLAMINE
4	C617 AZOBENZENE
5	C625 4-BROMOPHENYL PHENYL ETHER
6	C630 HEXACHLOROBENZENE
7	C635 PENTACHLOROPHENOL
8	C640 PHENANTHRENE
9	C645 ANTHRACENE
10	C650 DI-N-BUTYL PHTHALATE
11	C655 FLUORANTHENE

INTERNAL STANDARD



000220

Quantitation Report File: HSC1601109

000221

Data: HSC1601109.TI
11/09/90 20:50:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD16011

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

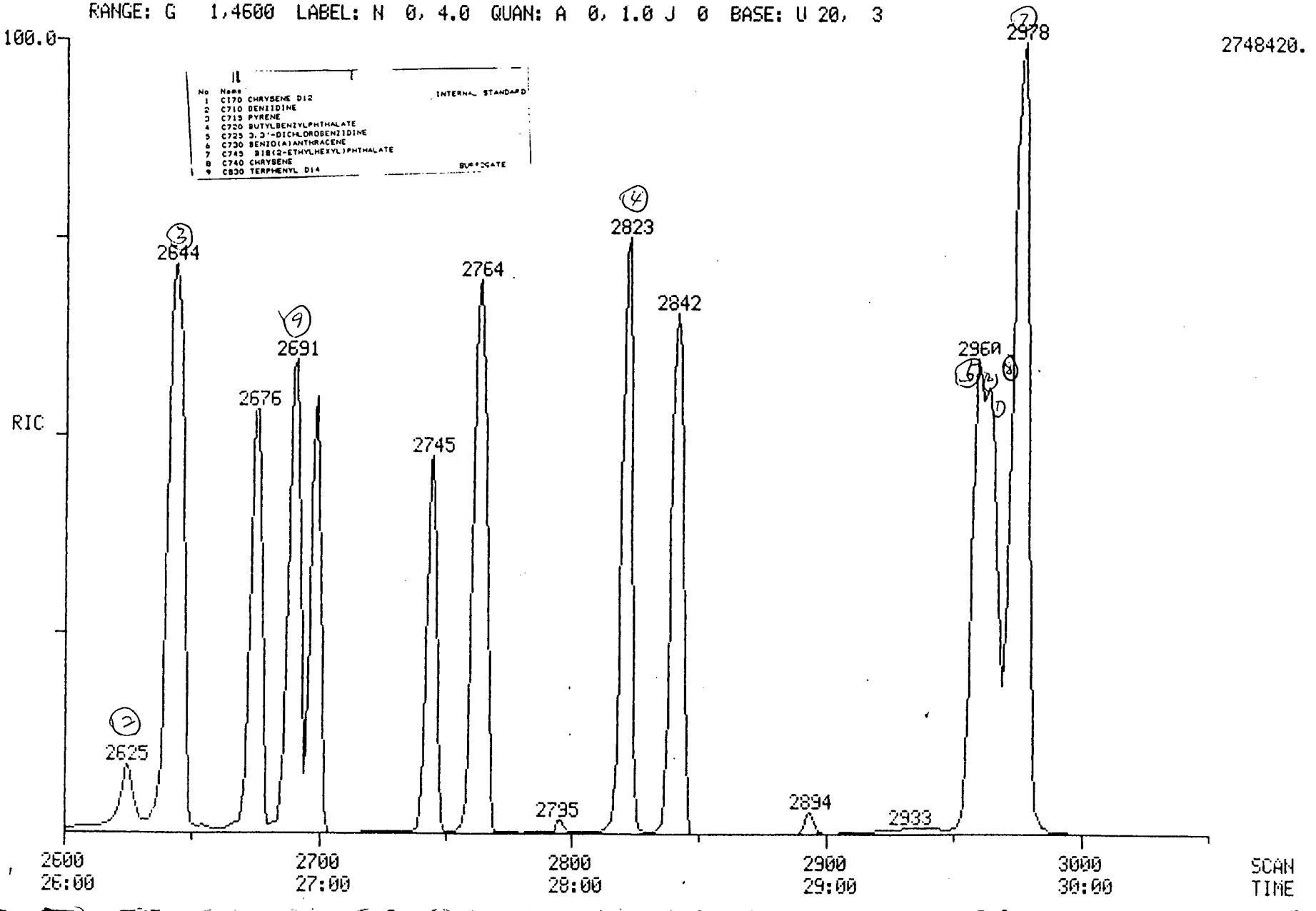
No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	188	2266	22:40	1	1.000	A BB	630849.	40.000	UG/ML	2.44
2	198	2043	20:26	1	0.902	A VB	434240.	160.000	UG/ML	9.76
3	169	2059	20:35	1	0.909	A BB	2173950.	160.000	UG/ML	9.76
4	77	2067	20:40	1	0.912	A BB	4247380.	160.000	NG	9.76
5	248	2153	21:32	1	0.950	A BB	697136.	160.000	UG/ML	9.76
6	284	2165	21:39	1	0.955	A VB	883064.	160.000	UG/ML	9.76
7	266	2218	22:11	1	0.979	A BB	533376.	160.000	UG/ML	9.76
8	178	2274	22:44	1	1.004	A BV	3946940.	160.000	UG/ML	9.76
9	178	2288	22:53	1	1.010	A BB	3573890.	160.000	UG/ML	9.76
10	149	2429	24:17	1	1.072	A BB	5232670.	160.000	UG/ML	9.76
11	202	2586	25:52	1	1.141	A BB	3789750.	160.000	UG/ML	9.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:26	1.00	0.902	1.00	160.00	160.00	0.172	0.172	1.00
3	20:35	1.00	0.909	1.00	160.00	160.00	0.862	0.862	1.00
4	20:40	1.00	0.912	1.00	160.00	160.00	1.683	1.683	1.00
5	21:32	1.00	0.950	1.00	160.00	160.00	0.276	0.276	1.00
6	21:39	1.00	0.955	1.00	160.00	160.00	0.350	0.350	1.00
7	22:11	1.00	0.979	1.00	160.00	160.00	0.211	0.211	1.00
8	22:44	1.00	1.004	1.00	160.00	160.00	1.564	1.564	1.00
9	22:53	1.00	1.010	1.00	160.00	160.00	1.416	1.416	1.00
10	24:17	1.00	1.072	1.00	160.00	160.00	2.074	2.074	1.00
11	25:52	1.00	1.141	1.00	160.00	160.00	1.502	1.502	1.00

RIC
11/09/90 20:50:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSC1601109 #1 SCANS 2600 TO 3050
CALI: HSC1601109 #3



000222

Quantitation Report File: HSC1601109

000223

Data: HSC1601109.TI
11/09/90 20:50:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD16011

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

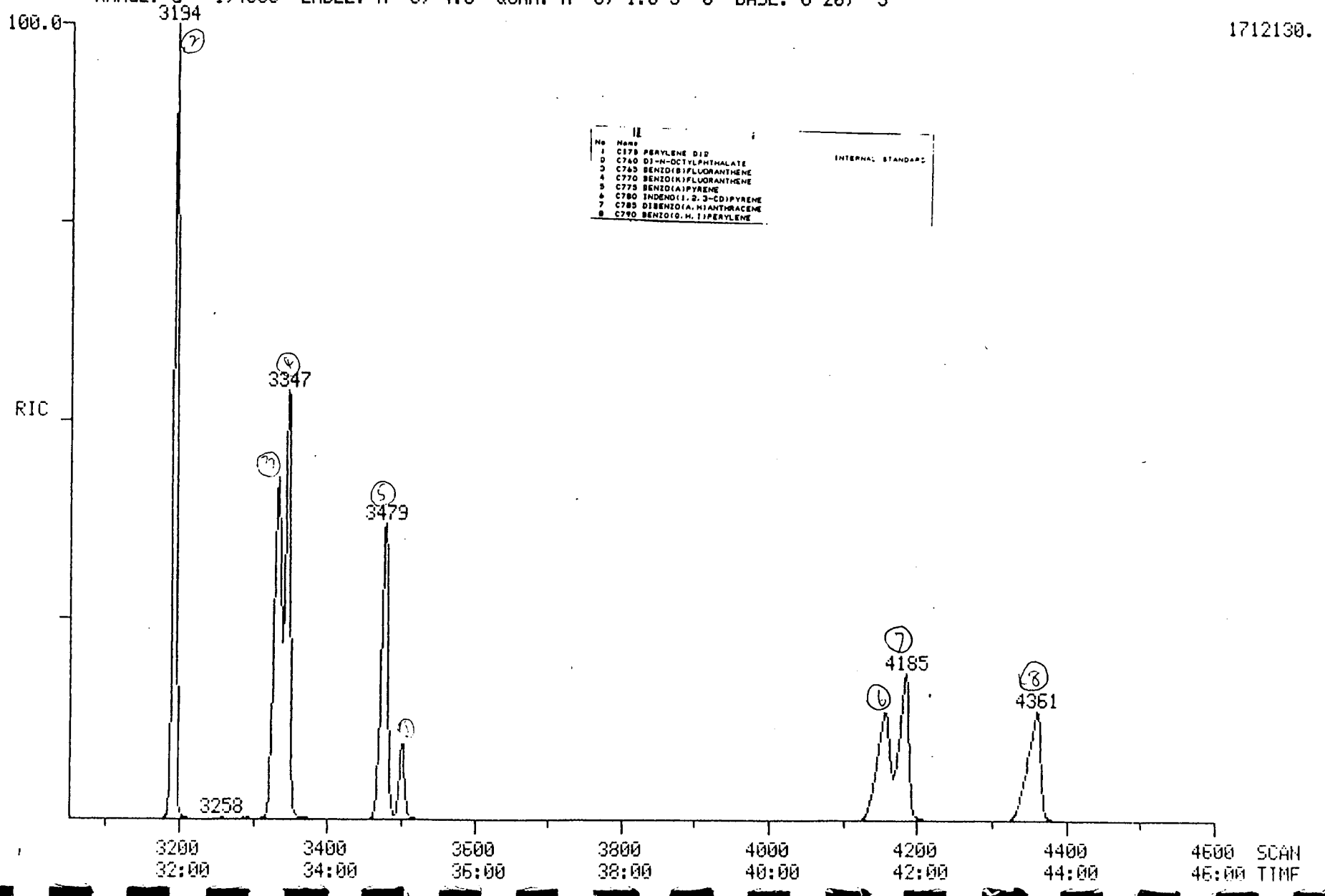
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	240	2967	29:40	1	1.000	A BB	895419.	40.000	UG/ML	3.03
2	184	2625	26:15	1	0.885	A BB	538509.	160.000	UG/ML	12.12
3	202	2646	26:28	1	0.892	A BB	3716220.	160.000	UG/ML	12.12
4	149	2823	28:14	1	0.951	A BB	2483420.	160.000	UG/ML	12.12
5	252	2959	29:35	1	0.997	A BB	986072.	160.000	UG/ML	12.12
6	228	2963	29:38	1	0.999	A BV	3400700.	160.000	UG/ML	12.12
7	149	2978	29:47	1	1.004	A BB	3453520.	160.000	UG/ML	12.12
8	228	2975	29:45	1	1.003	A BB	2410610.	160.000	UG/ML	12.12
9	244	2690	26:54	1	0.907	A BB	2910770.	160.000	UG/ML	12.12

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:15	1.00	0.885	1.00	160.00	160.00	0.150	0.150	1.00
3	26:28	1.00	0.892	1.00	160.00	160.00	1.038	1.038	1.00
4	28:14	1.00	0.951	1.00	160.00	160.00	0.693	0.693	1.00
5	29:35	1.00	0.997	1.00	160.00	160.00	0.275	0.275	1.00
6	29:38	1.00	0.999	1.00	160.00	160.00	0.949	0.949	1.00
7	29:47	1.00	1.004	1.00	160.00	160.00	0.964	0.964	1.00
8	29:45	1.00	1.003	1.00	160.00	160.00	0.673	0.673	1.00
9	26:54	1.00	0.907	1.00	160.00	160.00	0.813	0.813	1.00

RIC
11/09/90 20:50:00
SAMPLE: HSL-D STANDARD 11/9/90
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSC1601109 #1 SCANS 3050 TO 4600
CALI: HSC1601109 #3



No	Name	
1	C178 PERYLENE D12	INTERNAL STANDARDS
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000224

Quantitation Report File: HSC1601109

Data: HSC1601109.TI
11/09/90 20:50:00
Sample: HSL-D STANDARD 11/9/90
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD16011

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

N	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3502	35:01	1	1.000	A BB	586738.	40.000 UG/ML	3.45
2	149	3194	31:56	1	0.912	A BB	5536840.	160.000 UG/ML	13.79
3	252	3333	33:20	1	0.952	A BV	2711870.	160.000 UG/ML	13.79
4	252	3348	33:29	1	0.956	A VB	2202860.	160.000 UG/ML	13.79
5	252	3479	34:47	1	0.993	A BB	2369940.	160.000 UG/NL	13.79
6	276	4158	41:35	1	1.187	A BB	1049150.	160.000 UG/ML	13.79
7	278	4185	41:51	1	1.195	A BB	1411200.	160.000 UG/ML	13.79
8	276	4362	43:37	1	1.246	A BB	1154900.	160.000 UG/ML	13.79

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:56	1.00	0.912	1.00	160.00	160.00	2.359	2.359	1.00
3	33:20	1.00	0.952	1.00	160.00	160.00	1.155	1.155	1.00
4	33:29	1.00	0.956	1.00	160.00	160.00	0.939	0.939	1.00
5	34:47	1.00	0.993	1.00	160.00	160.00	1.010	1.010	1.00
6	41:35	1.00	1.187	1.00	160.00	160.00	0.447	0.447	1.00
7	41:51	1.00	1.195	1.00	160.00	160.00	0.601	0.601	1.00
8	43:37	1.00	1.246	1.00	160.00	160.00	0.492	0.492	1.00

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: QC INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration Date(s): 11/13/90 11/13/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HSD201113 RRF50 = HSD501113P
RRF80 = HSD801113 RRF120= HSD1201113 RRF160= HSD1601113

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
N-Nitrosodimethylamine	0.884	0.992	1.158	1.141	0.920	1.019	12.3
Phenol *	1.431	1.672	1.655	1.563	1.554	1.575	6.1*
bis(2-Chloroethyl)Ether	1.426	1.367	1.372	1.259	1.220	1.329	6.5
2-Chlorophenol	1.330	1.428	1.410	1.334	1.302	1.361	4.0
1,3-Dichlorobenzene	1.488	1.563	1.484	1.328	1.267	1.426	8.6
1,4-Dichlorobenzene *	1.517	1.573	1.459	1.340	1.218	1.421	10.0*
Benzyl Alcohol	0.687	0.771	0.777	0.757	0.759	0.750	4.8
1,2-Dichlorobenzene	1.380	1.389	1.305	1.178	1.085	1.267	10.4
2-Methylphenol	1.226	1.241	1.219	1.162	1.160	1.202	3.2
bis(2-Chloroisopropyl)Ether	0.084	0.088	0.086	0.085	0.087	0.086	1.8
4-Methylphenol	0.923	1.038	1.021	0.957	0.949	0.978	5.0
N-Nitroso-Di-n-Propylamine #	1.098	1.046	1.079	1.059	1.030	1.062	2.5#
Hexachloroethane	0.575	0.675	0.652	0.611	0.589	0.620	6.8
Nitrobenzene	0.385	0.414	0.401	0.359	0.360	0.384	6.4
Isophorone	0.711	0.760	0.736	0.685	0.573	0.693	10.5
2-Nitrophenol *	0.131	0.151	0.161	0.150	0.154	0.149	7.5*
2,4-Dimethylphenol	0.270	0.276	0.290	0.254	0.271	0.272	4.8
Benzoic Acid		0.147	0.172	0.166	0.101	0.146	22.0
bis(2-Chloroethoxy)Methane	0.406	0.377	0.383	0.361	0.368	0.379	4.6
2,4-Dichlorophenol *	0.252	0.292	0.292	0.256	0.262	0.271	7.3*
1,2,4-Trichlorobenzene	0.349	0.345	0.325	0.283	0.267	0.314	11.8
Naphthalene	1.013	0.926	0.872	0.757	0.749	0.863	13.1
4-Chloroaniline	0.312	0.391	0.400	0.379	0.374	0.371	9.3
Hexachlorobutadiene *	0.216	0.204	0.191	0.165	0.152	0.186	14.3*
4-Chloro-3-Methylphenol *	0.265	0.295	0.304	0.269	0.280	0.283	5.9*
2-Methylnaphthalene	0.622	0.580	0.552	0.474	0.469	0.539	12.4
Hexachlorocyclopentadiene #	0.185	0.244	0.254	0.231	0.235	0.230	11.6#
2,4,6-Trichlorophenol *	0.328	0.361	0.374	0.327	0.372	0.352	6.6*
2,4,5-Trichlorophenol		0.426	0.445	0.369	0.318	0.390	14.8
2-Chloronaphthalene	1.245	1.092	1.066	0.941	0.967	1.062	11.4
2-Nitroaniline		0.382	0.405	0.381	0.396	0.391	3.0
Dimethyl Phthalate	1.502	1.284	1.404	1.176	1.121	1.297	12.1
Acenaphthylene	1.784	1.602	1.611	1.387	1.444	1.566	10.0
2,6-Dinitrotoluene	0.320	0.324	0.336	0.288	0.300	0.314	6.1
3-Nitroaniline		0.323	0.335	0.319	0.304	0.320	4.0
Acenaphthene *	1.136	1.021	0.976	0.867	0.918	0.984	10.5*
2,4-Dinitrophenol #		0.095	0.115	0.123	0.136	0.117	14.7#
4-Nitrophenol #		0.136	0.126	0.133	0.134	0.132	3.3#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: QC INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration Date(s): 11/13/90 11/13/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

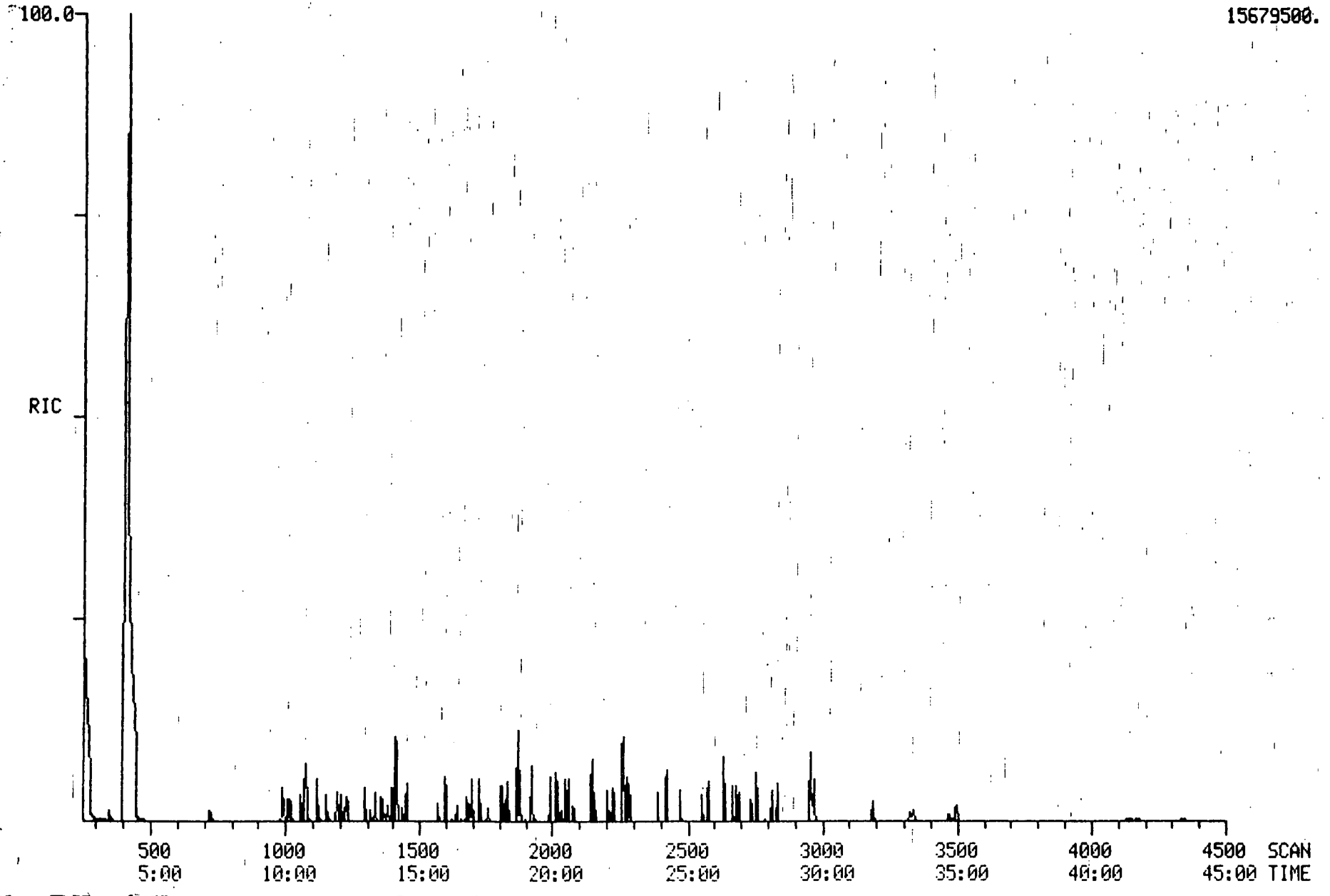
LAB FILE ID: RRF20 = HSD201113 RRF50 = HSD501113P
RRF80 = HSD801113 RRF120= HSD1201113 RRF160= HSD1601113

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.680	1.440	1.435	1.213	1.254	1.404	13.2
2,4-Dinitrotoluene	0.423	0.442	0.409	0.357	0.328	0.392	12.2
Diethylphthalate	1.567	1.360	1.381	1.126	1.034	1.294	16.5
4-Chlorophenyl-phenylether	0.624	0.526	0.519	0.419	0.392	0.496	18.7
Fluorene	1.341	1.201	1.161	0.991	0.998	1.138	13.0
4-Nitroaniline		0.272	0.261	0.266	0.242	0.260	5.0
4,6-Dinitro-2-Methylphenol		0.191	0.223	0.213	0.177	0.201	10.4
N-Nitrosodiphenylamine (1) *	1.084	0.852	0.916	0.849	0.824	0.905	11.7*
Azobenzene (2)	1.561	1.491	1.584	1.446	1.514	1.519	3.6
4-Bromophenyl-phenylether	0.436	0.334	0.347	0.290	0.224	0.326	23.9
Hexachlorobenzene	0.406	0.396	0.419	0.377	0.358	0.391	6.2
Pentachlorophenol *		0.253	0.236	0.245	0.223	0.239	5.4*
Phenanthrene	1.991	1.766	1.744	1.563	1.578	1.728	10.0
Anthracene	2.103	1.877	1.794	1.524	1.363	1.732	16.9
Di-n-Butylphthalate	2.596	2.122	2.062	1.767	1.672	2.044	17.8
Fluoranthene *	1.842	1.647	1.536	1.418	1.330	1.555	12.9*
Benzidine		0.109	0.054	0.095	0.126	0.096	32.0
Pyrene	1.590	1.246	1.613	1.067	0.984	1.300	22.4
Butylbenzylphthalate	0.687	0.592	0.695	0.613	0.632	0.644	7.1
3,3'-Dichlorobenzidine	0.177	0.274	0.234	0.253	0.284	0.244	17.4
Benzo(a)Anthracene	1.059	1.102	1.144	1.026	1.031	1.072	4.7
Chrysene	0.771	0.880	0.922	0.812	0.690	0.815	11.2
bis(2-Ethylhexyl)Phthalate	0.994	0.964	1.075	0.913	0.873	0.964	8.1
Di-n-Octyl Phthalate *	2.449	1.901	2.341	2.321	2.220	2.246	9.3*
Benzo(b)Fluoranthene	1.020	1.137	1.299	1.315	1.351	1.224	11.5
Benzo(k)Fluoranthene	1.108	1.109	1.256	1.139	1.095	1.141	5.8
Benzo(a)Pyrene *	0.862	0.995	1.187	1.141	1.160	1.069	12.9*
Indeno(1,2,3-cd)Pyrene	0.409	0.525	0.800	0.558	0.463	0.551	27.3
Dibenz(a,h)Anthracene	0.378	0.606	0.832	0.716	0.717	0.650	26.4
Benzo(g,h,i)Perylene	0.377	0.522	0.779	0.538	0.556	0.554	26.0
Nitrobenzene-d5	0.371	0.473	0.455	0.402	0.391	0.418	10.4
2-Fluorobiphenyl	1.278	1.286	1.213	1.002	0.978	1.151	13.1
Terphenyl-d14	1.041	1.035	1.296	0.893	0.826	1.018	17.8
Phenol-d5	1.260	1.353	1.320	1.228	1.245	1.281	4.1
2-Fluorophenol	0.811	1.070	1.101	1.128	1.205	1.063	14.1
2,4,6-Tribromophenol	0.152	0.185	0.206	0.179	0.175	0.179	10.8

(1) Cannot be separated from Diphenylamine

RIC
11/13/90 18:16:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201113 #1 SCANS 250 TO 4500
CALI: CALTAB #3

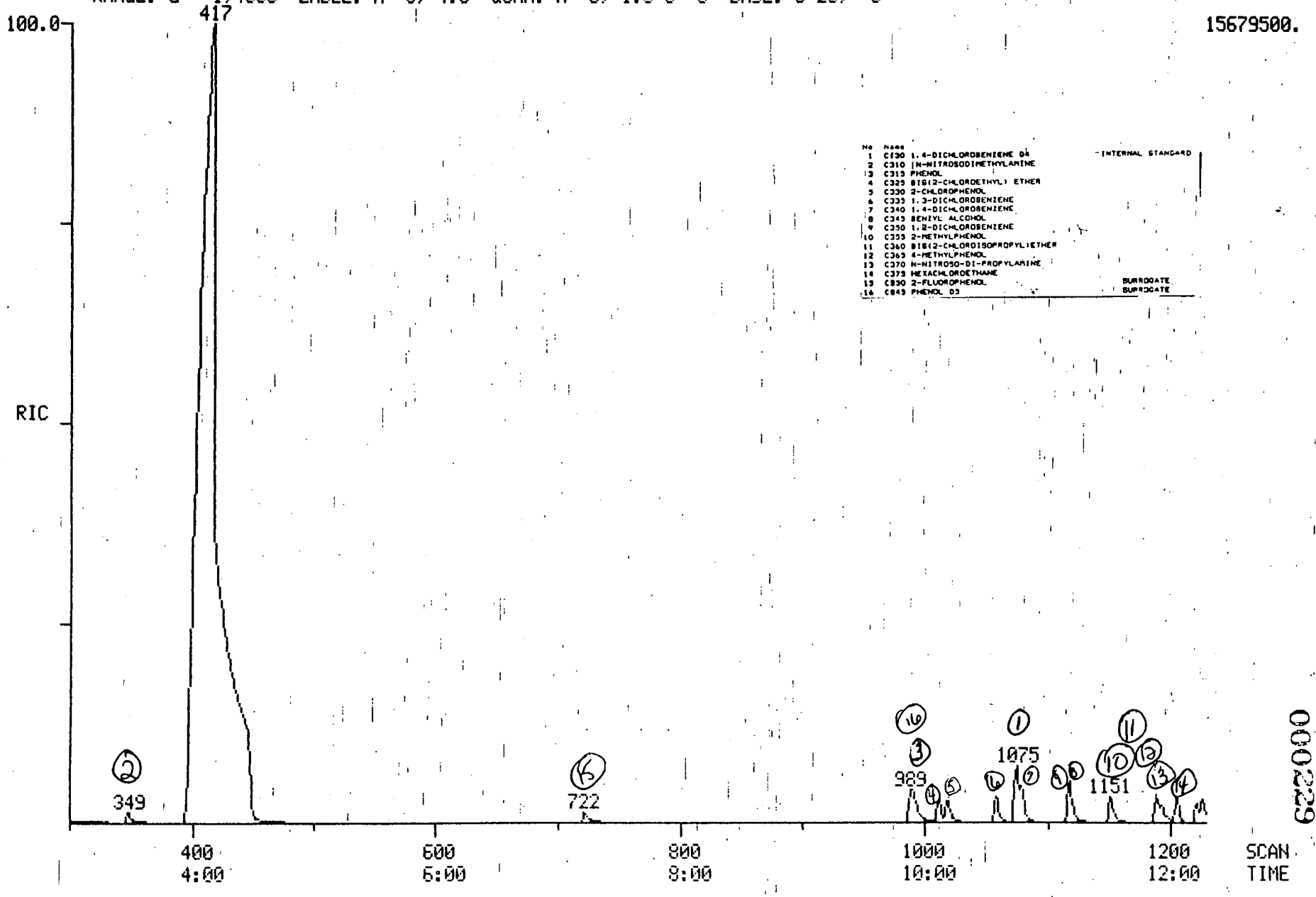


000228

RIC
11/13/90 18:16:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201113 #1
CALI: HSD201113 #3

SCANS 300 TO 1230



000229

Quantitation Report File: HSD201113

000230

Data: HSD201113.TI
11/13/90 18:16:00
Sample: HSL-D STAND 11/13/90
Conds.: 20 NG INJECTION
F rmula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD2011

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	1075	10:45	1	1.000	A BB	824895.	40.000	UG/ML	11.76
2	74	349	3:29	1	0.325	A BB	364536.	20.000	UG	5.88
3	94	992	9:55	1	0.923	A BB	590055.	20.000	UG/ML	5.88
4	93	1012	10:07	1	0.941	A BB	588329.	20.000	UG/ML	5.88
5	128	1019	10:11	1	0.948	A BB	548620.	20.000	UG/ML	5.88
6	146	1058	10:35	1	0.984	A BB	613814.	20.000	UG/ML	5.88
7	146	1079	10:47	1	1.004	A BB	625541.	20.000	UG/ML	5.88
8	108	1118	11:11	1	1.040	A BB	283510.	20.000	UG/ML	5.88
9	146	1117	11:10	1	1.039	A BB	569331.	20.000	UG/ML	5.88
10	108	1151	11:31	1	1.071	A BB	505740.	20.000	UG/ML	5.88
11	45	1156	11:34	1	1.075	A*BB	34764.	20.000	UG/ML	5.88
12	108	1194	11:56	1	1.111	A BB	380701.	20.000	UG/ML	5.88
13	70	1190	11:54	1	1.107	A BB	452832.	20.000	UG/ML	5.88
14	117	1206	12:04	1	1.122	A BB	237216.	20.000	UG/ML	5.88
15	112	722	7:13	1	0.672	A BB	334375.	20.000	UG/L	5.88
16	99	988	9:53	1	0.919	A BB	519547.	20.000	UG/ML	5.88

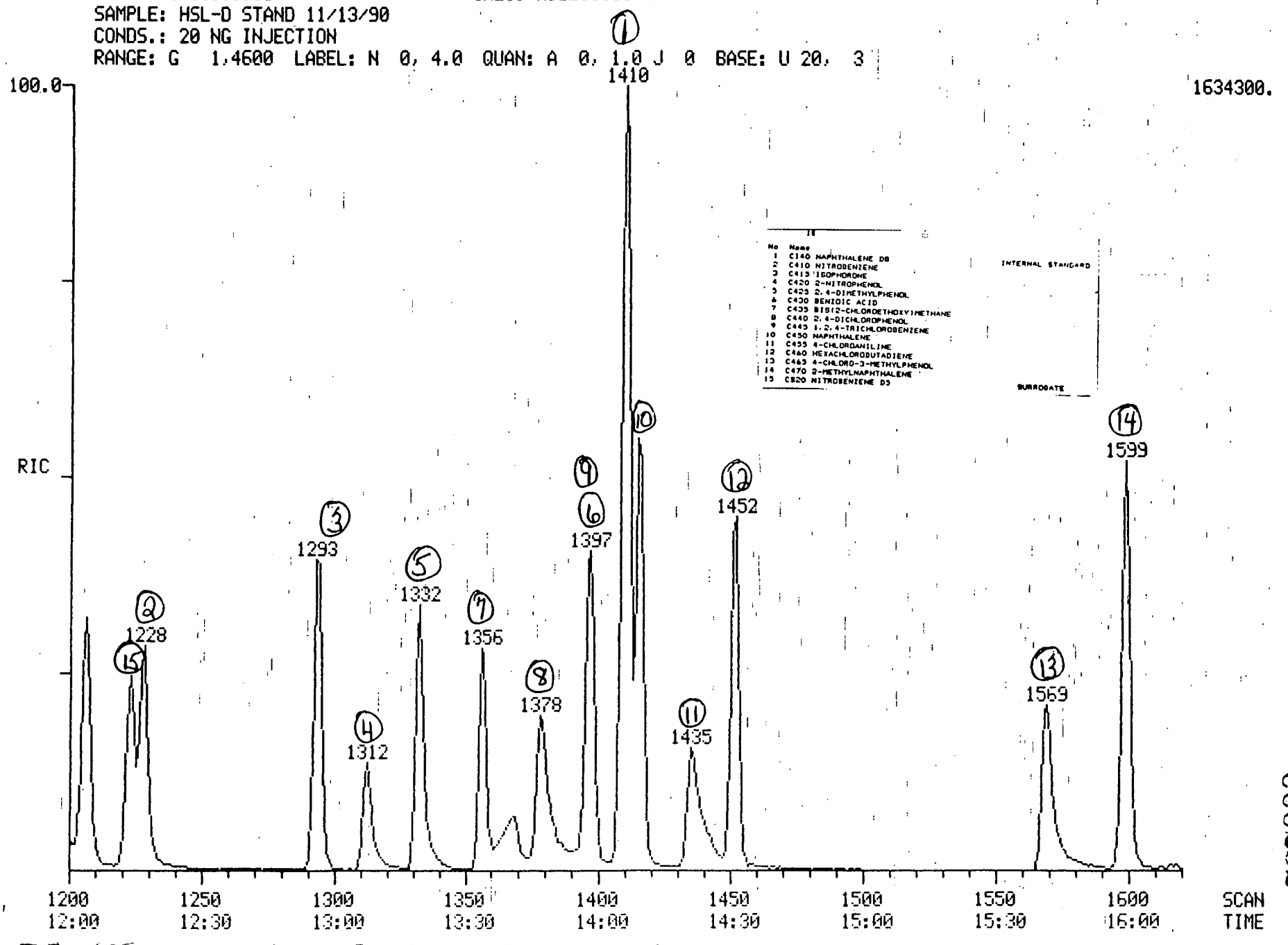
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:29	1.00	0.325	1.00	20.00	20.00	0.884	0.884	1.00
3	9:55	1.00	0.923	1.00	20.00	20.00	1.431	1.431	1.00
4	10:07	1.00	0.941	1.00	20.00	20.00	1.426	1.426	1.00
5	10:11	1.00	0.948	1.00	20.00	20.00	1.330	1.330	1.00
6	10:35	1.00	0.984	1.00	20.00	20.00	1.488	1.488	1.00
7	10:47	1.00	1.004	1.00	20.00	20.00	1.517	1.517	1.00

N	Ret(L)	Rati	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11	1.00	1.040	1.00	20.00	20.00	0.687	0.687	1.00
9	11:10	1.00	1.039	1.00	20.00	20.00	1.380	1.380	1.00
10	11:31	1.00	1.071	1.00	20.00	20.00	1.226	1.226	1.00
11	11:34	1.00	1.075	1.00	20.00	20.00	0.084	0.084	1.00
12	11:56	1.00	1.111	1.00	20.00	20.00	0.923	0.923	1.00
13	11:54	1.00	1.107	1.00	20.00	20.00	1.098	1.098	1.00
14	12:04	1.00	1.122	1.00	20.00	20.00	0.575	0.575	1.00
15	7:13	1.00	0.672	1.00	20.00	20.00	0.811	0.811	1.00
16	9:53	1.00	0.919	1.00	20.00	20.00	1.260	1.260	1.00

RIC
11/13/90 18:16:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 20 NG INJECTION
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201113 #1
CALI: HSD201113 #3

SCANS 1200 TO 1620



No	Name
1	C140 NAPHTHALENE D8
2	C410 NITROBENZENE
3	C415 ISOPHORONE
4	C420 2-NITROPHENOL
5	C425 2,4-DIMETHYLPHENOL
6	C430 BENZOIC ACID
7	C435 BIS(2-CHLOROETHOXY)METHANE
8	C440 2,4-DICHLOROPHENOL
9	C445 1,2,4-TRICHLOROBENZENE
10	C450 NAPHTHALENE
11	C455 4-CHLOROANILINE
12	C460 HEXACHLOROBUTADIENE
13	C465 4-CHLORO-3-METHYLPHENOL
14	C470 2-METHYLNAPHTHALENE
15	C820 NITROBENZENE D5

000222

Quantitation Report File: HSD201113

000233

Data: HSD201113.TI
11/13/90 18:16:00
Sample: HSL-D STAND 11/13/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD2011

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1410	14:06	1	1.000	A BB	2920870.	40.000 UG/ML	12.50
2	77	1228	12:17	1	0.871	A BB	561580.	20.000 UG/ML	6.25
3	82	1294	12:56	1	0.918	A BB	1037910.	20.000 UG/ML	6.25
4	139	1312	13:07	1	0.930	A BB	191868.	20.000 UG/ML	6.25
5	122	1332	13:19	1	0.945	A BB	394876.	20.000 UG/ML	6.25
6	122	1397	13:58	1	0.991	A BB	2095.	20.000 UG/ML	6.25
7	93	1356	13:34	1	0.962	A BB	592965.	20.000 UG/ML	6.25
8	162	1378	13:47	1	0.977	A BB	367858.	20.000 UG/ML	6.25
9	180	1397	13:58	1	0.991	A BB	510168.	20.000 UG/ML	6.25
10	128	1415	14:09	1	1.004	A BB	1478740.	20.000 UG/ML	6.25
11	127	1435	14:21	1	1.018	A BB	456077.	20.000 UG/ML	6.25
12	225	1452	14:31	1	1.030	A BB	315728.	20.000 UG/ML	6.25
13	107	1569	15:41	1	1.113	A BB	387168.	20.000 UG/ML	6.25
14	142	1599	15:59	1	1.134	A BB	908290.	20.000 UG/ML	6.25
15	82	1223	12:14	1	0.867	A BB	542425.	20.000 UG/ML	6.25

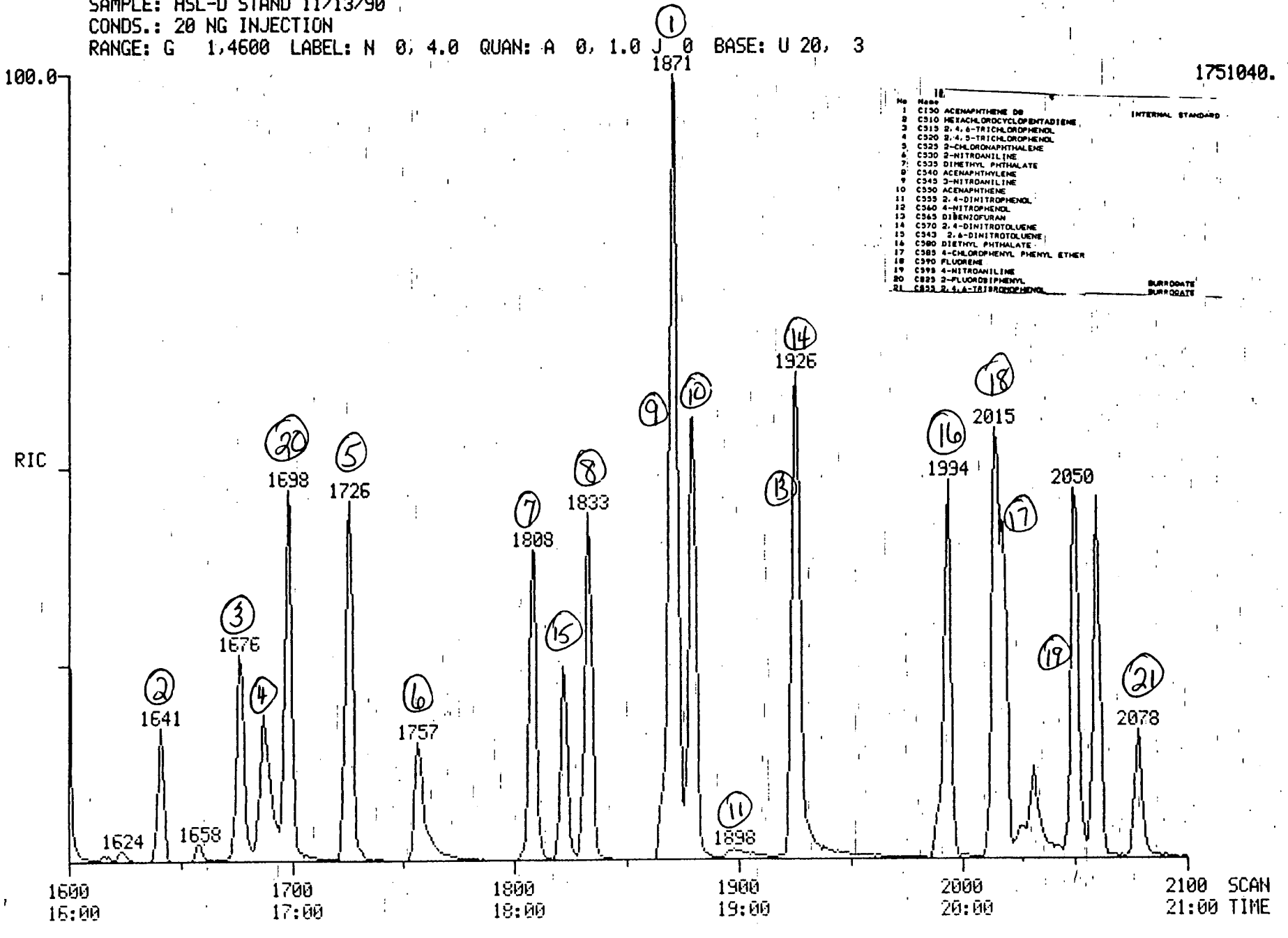
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17	1.00	0.871	1.00	20.00	20.00	0.385	0.385	1.00
3	12:56	1.00	0.918	1.00	20.00	20.00	0.711	0.711	1.00
4	13:07	1.00	0.930	1.00	20.00	20.00	0.131	0.131	1.00
5	13:19	1.00	0.945	1.00	20.00	20.00	0.270	0.270	1.00
6	13:58	1.00	0.991	1.00	20.00	20.00	0.001	0.001	1.00
7	13:34	1.00	0.962	1.00	20.00	20.00	0.406	0.406	1.00
8	13:47	1.00	0.977	1.00	20.00	20.00	0.252	0.252	1.00
9	13:58	1.00	0.991	1.00	20.00	20.00	0.349	0.349	1.00

N	Ret(L)	Rati	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:09	1.00	1.004	1.00	20.00	20.00	1.013	1.013	1.00
11	14:21	1.00	1.018	1.00	20.00	20.00	0.312	0.312	1.00
12	14:31	1.00	1.030	1.00	20.00	20.00	0.216	0.216	1.00
13	15:41	1.00	1.113	1.00	20.00	20.00	0.265	0.265	1.00
14	15:59	1.00	1.134	1.00	20.00	20.00	0.622	0.622	1.00
15	12:14	1.00	0.867	1.00	20.00	20.00	0.371	0.371	1.00

RIC
11/13/90 18:16:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201113 #1
CALI: HSD201113 #3

SCANS 1600 TO 2100



No	Name	
1	C130 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C825 2-FLUOROBIPHENYL	SURROGATE
21	C835 2,4,6-TRIBROMOPHENOL	SURROGATE

000235

Quantitation Report File: HSD201113

Data: HSD201113.TI
11/13/90 18:16:00
Sample: HSL-D STAND 11/13/90
C nds.: 20 NG INJECTION
F rmula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD2011

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

No	Nam		
1	CI50	ACENAPHTHENE D8	INTERNAL STANDARD
2	C510	HEXACHLOROCYCLOPENTADIENE	
3	C515	2,4,6-TRICHLOROPHENOL	
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	
11	C555	2,4-DINITROPHENOL	
12	C560	4-NITROPHENOL	
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYL PHTHALATE	
17	C585	4-CHLOROPHENYL PHENYL ETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	SURROGATE
21	CS55	2,4,6-TRIBROMOPHENOL	SURROGATE

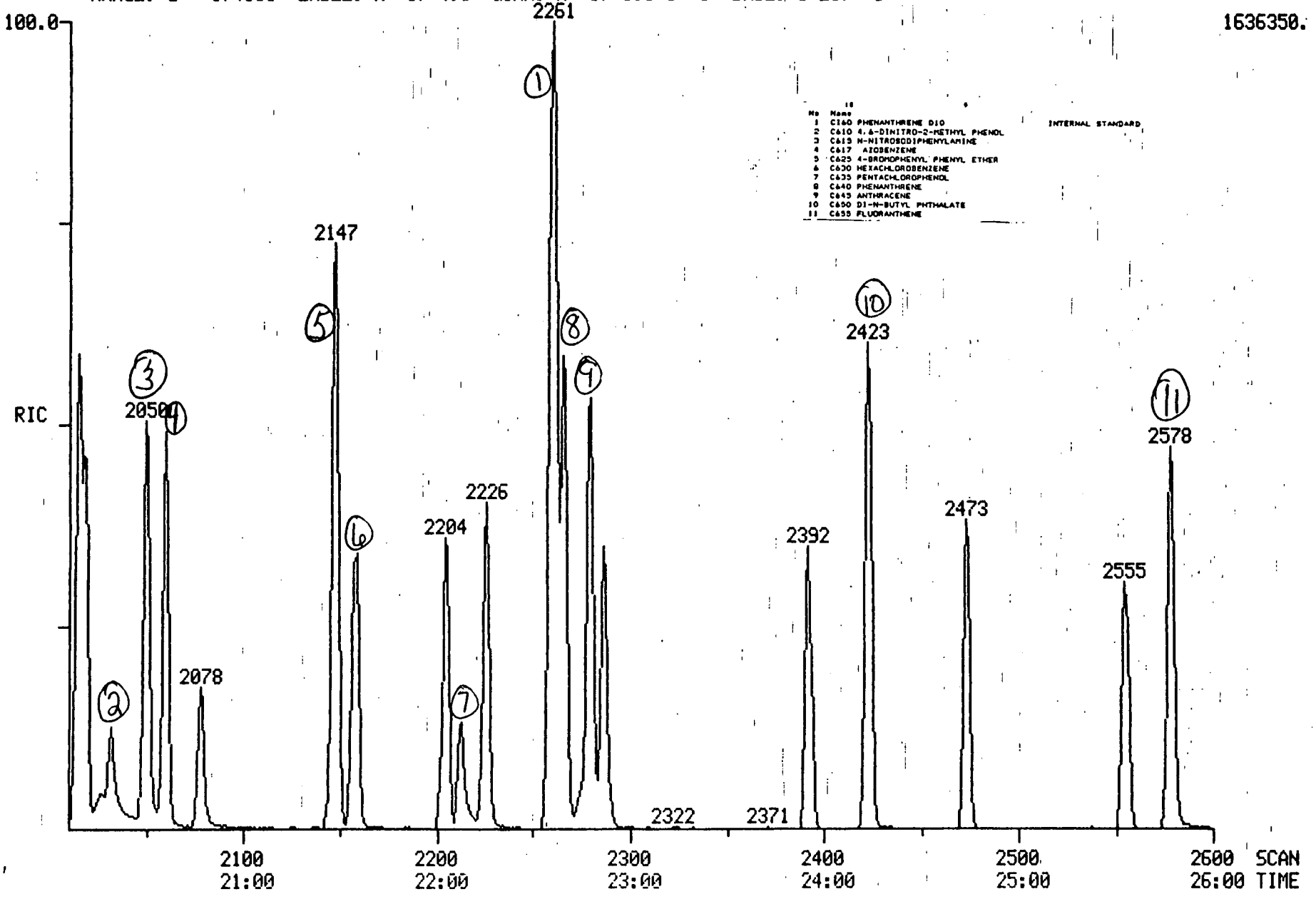
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%T t
1	164	1871	18:43	1	1.000	A BB	1551100.	40.000 UG/ML	9.52
2	237	1641	16:25	1	0.877	A BB	143584.	20.000 UG/ML	4.76
3	196	1676	16:46	1	0.896	A BV	254579.	20.000 UG/ML	4.76
4	196	1687	16:52	1	0.902	A VB	306368.	20.000 UG/ML	4.76
5	162	1726	17:16	1	0.923	A BB	965680.	20.000 UG/ML	4.76
6	65	1757	17:34	1	0.939	A BB	255653.	20.000 UG/ML	4.76
7	163	1808	18:05	1	0.966	A BB	1165200.	20.000 UG/ML	4.76
8	152	1833	18:20	1	0.980	A BB	1383690.	20.000 UG/ML	4.76
9	138	1867	18:40	1	0.998	A BB	199357.	20.000 UG/ML	4.76
10	154	1879	18:47	1	1.004	A VB	880976.	20.000 UG/ML	4.76
11	184	1898	18:59	1	1.014	A BB	28200.	20.000 UG/ML	4.76
12	NOT FOUND								
13	168	1925	19:15	1	1.029	A BB	1303030.	20.000 UG/ML	4.76
14	165	1926	19:16	1	1.029	A BB	328248.	20.000 UG/ML	4.76
15	165	1822	18:13	1	0.974	A BB	247912.	20.000 UG/ML	4.76
16	149	1994	19:56	1	1.066	A BB	1215010.	20.000 UG/ML	4.76
17	204	2019	20:11	1	1.079	A BB	483664.	20.000 UG/ML	4.76
18	166	2015	20:09	1	1.077	A BB	1039990.	20.000 UG/ML	4.76
19	138	2027	20:16	1	1.083	A BB	106242.	20.000 UG/ML	4.76
20	172	1698	16:59	1	0.908	A BB	991509.	20.000 UG/ML	4.76
21	330	2078	20:47	1	1.111	A BB	117856.	20.000 UG/ML	4.76

No	R t(L)	Rati	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25	1.00	0.877	1.00	20.00	20.00	0.185	0.185	1.00
3	16:46	1.00	0.896	1.00	20.00	20.00	0.328	0.328	1.00
4	16:52	1.00	0.902	1.00	20.00	20.00	0.395	0.395	1.00
5	17:16	1.00	0.923	1.00	20.00	20.00	1.245	1.245	1.00
6	17:34	1.00	0.939	1.00	20.00	20.00	0.330	0.330	1.00
7	18:05	1.00	0.966	1.00	20.00	20.00	1.502	1.502	1.00
8	18:20	1.00	0.980	1.00	20.00	20.00	1.784	1.784	1.00
9	18:40	1.00	0.998	1.00	20.00	20.00	0.257	0.257	1.00
10	18:47	1.00	1.004	1.00	20.00	20.00	1.136	1.136	1.00
11	18:59	1.00	1.014	1.00	20.00	20.00	0.036	0.036	1.00
12	19:12		1.025						
13	19:15	1.00	1.029	1.00	20.00	20.00	1.680	1.680	1.00
14	19:16	1.00	1.029	1.00	20.00	20.00	0.423	0.423	1.00
15	18:13	1.00	0.974	1.00	20.00	20.00	0.320	0.320	1.00
16	19:56	1.00	1.066	1.00	20.00	20.00	1.567	1.567	1.00
17	20:11	1.00	1.079	1.00	20.00	20.00	0.624	0.624	1.00
18	20:09	1.00	1.077	1.00	20.00	20.00	1.341	1.341	1.00
19	20:16	1.00	1.083	1.00	20.00	20.00	0.137	0.137	1.00
20	16:59	1.00	0.908	1.00	20.00	20.00	1.278	1.278	1.00
21	20:47	1.00	1.111	1.00	20.00	20.00	0.152	0.152	1.00

RIC
11/13/90 18:16:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201113 #1
CALI: HSD201113 #3

SCANS 2010 TO 2600



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000238

Quantitation R port Fil : HSD201113

Data: HSD201113.TI
11/13/90 18:16:00
Sample: HSL-D STAND 11/13/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD2011

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

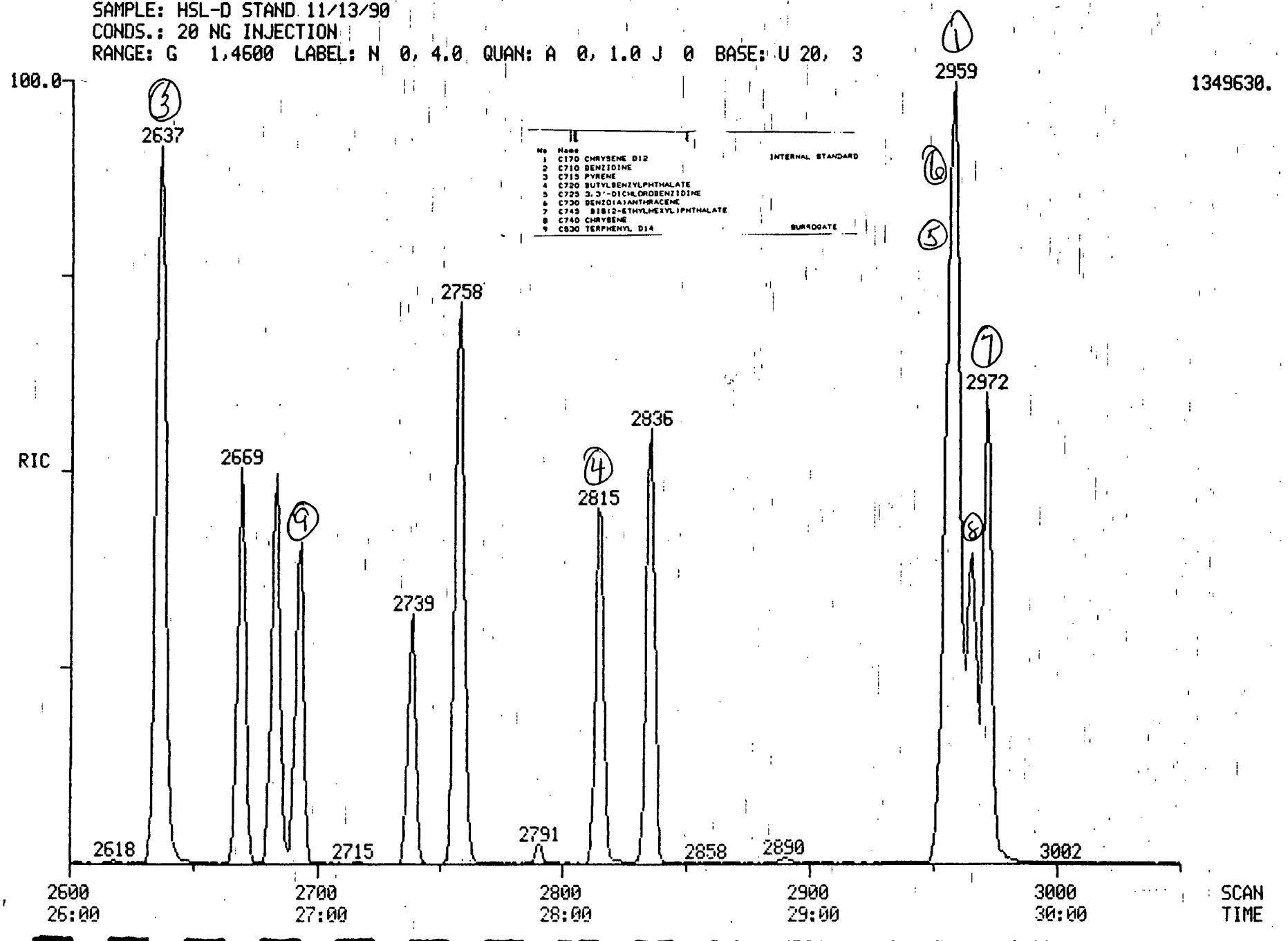
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	188	2260	22:36	1	1.000	A BV	1491710.	40.000	UG/ML	16.67
2	198	2032	20:19	1	0.899	A BB	106685.	20.000	UG/ML	8.33
3	169	2050	20:30	1	0.907	A BB	808538.	20.000	UG/ML	8.33
4	77	2060	20:36	1	0.912	A VB	1164050.	20.000	NG	8.33
5	248	2146	21:28	1	0.950	A BV	324928.	20.000	UG/ML	8.33
6	284	2157	21:34	1	0.954	A BB	303024.	20.000	UG/ML	8.33
7	266	2212	22:07	1	0.979	A BB	120967.	20.000	UG/ML	8.33
8	178	2266	22:40	1	1.003	A BB	1485320.	20.000	UG/ML	8.33
9	178	2280	22:48	1	1.009	A VB	1568180.	20.000	UG/ML	8.33
10	149	2423	24:14	1	1.072	A BB	1936600.	20.000	UG/ML	8.33
11	202	2578	25:47	1	1.141	A BB	1374070.	20.000	UG/ML	8.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:19	1.00	0.899	1.00	20.00	20.00	0.143	0.143	1.00
3	20:30	1.00	0.907	1.00	20.00	20.00	1.084	1.084	1.00
4	20:36	1.00	0.912	1.00	20.00	20.00	1.561	1.561	1.00
5	21:28	1.00	0.950	1.00	20.00	20.00	0.436	0.436	1.00
6	21:34	1.00	0.954	1.00	20.00	20.00	0.406	0.406	1.00
7	22:07	1.00	0.979	1.00	20.00	20.00	0.162	0.162	1.00
8	22:40	1.00	1.003	1.00	20.00	20.00	1.991	1.991	1.00
9	22:48	1.00	1.009	1.00	20.00	20.00	2.103	2.103	1.00
10	24:14	1.00	1.072	1.00	20.00	20.00	2.596	2.596	1.00
11	25:47	1.00	1.141	1.00	20.00	20.00	1.842	1.842	1.00

RIC
11/13/90 18:16:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201113 #1
CALI: HSD201113 #3

SCANS 2600 TO 3050



No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000240

Quantitation Report File: HSD201113

000241

Data: HSD201113.TI
11/13/90 18:16:00
Sample: HSL-D STAND 11/13/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitt d by: GC INC Analyst: WSS Acct. No.: HSD2011

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

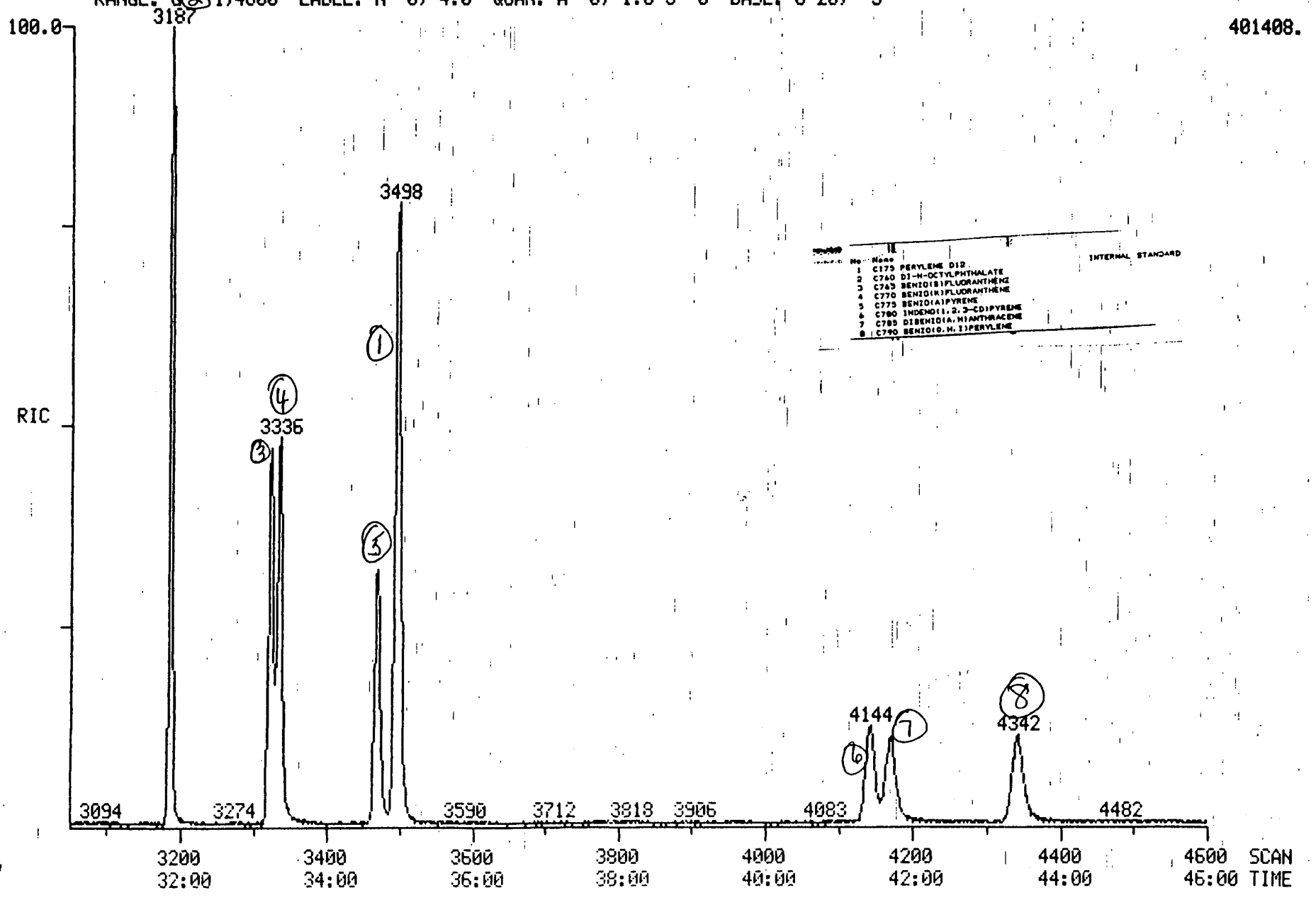
N	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%T t
1	240	2959	29:35	1	1.000	A BB	1779020.	40.000 UG/ML	22.22
2	NOT FOUND								
3	202	2637	26:22	1	0.891	A BB	1414710.	20.000 UG/ML	11.11
4	149	2815	28:09	1	0.951	A BB	610767.	20.000 UG/ML	11.11
5	252	2954	29:32	1	0.998	A BB	157657.	20.000 UG/ML	11.11
6	228	2956	29:34	1	0.999	A BV	942024.	20.000 UG/ML	11.11
7	149	2972	29:43	1	1.004	A BB	884343.	20.000 UG/ML	11.11
8	228	2966	29:40	1	1.002	A BB	685528.	20.000 UG/ML	11.11
9	244	2683	26:50	1	0.907	A BB	926186.	20.000 UG/ML	11.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13		0.885						
3	26:22	1.00	0.891	1.00	20.00	20.00	1.590	1.590	1.00
4	28:09	1.00	0.951	1.00	20.00	20.00	0.687	0.687	1.00
5	29:32	1.00	0.998	1.00	20.00	20.00	0.177	0.177	1.00
6	29:34	1.00	0.999	1.00	20.00	20.00	1.059	1.059	1.00
7	29:43	1.00	1.004	1.00	20.00	20.00	0.994	0.994	1.00
8	29:40	1.00	1.002	1.00	20.00	20.00	0.771	0.771	1.00
9	26:50	1.00	0.907	1.00	20.00	20.00	1.041	1.041	1.00

RIC
11/13/90 18:16:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201113 #1
CALI: HSD201113 #3

SCANS 3050 TO 4600



000242

Quantitation Report File: HSD201113

000243

Data: HSD201113.TI
11/13/90 18:16:00
Sample: HSL-D STAND 11/13/90
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD2011

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

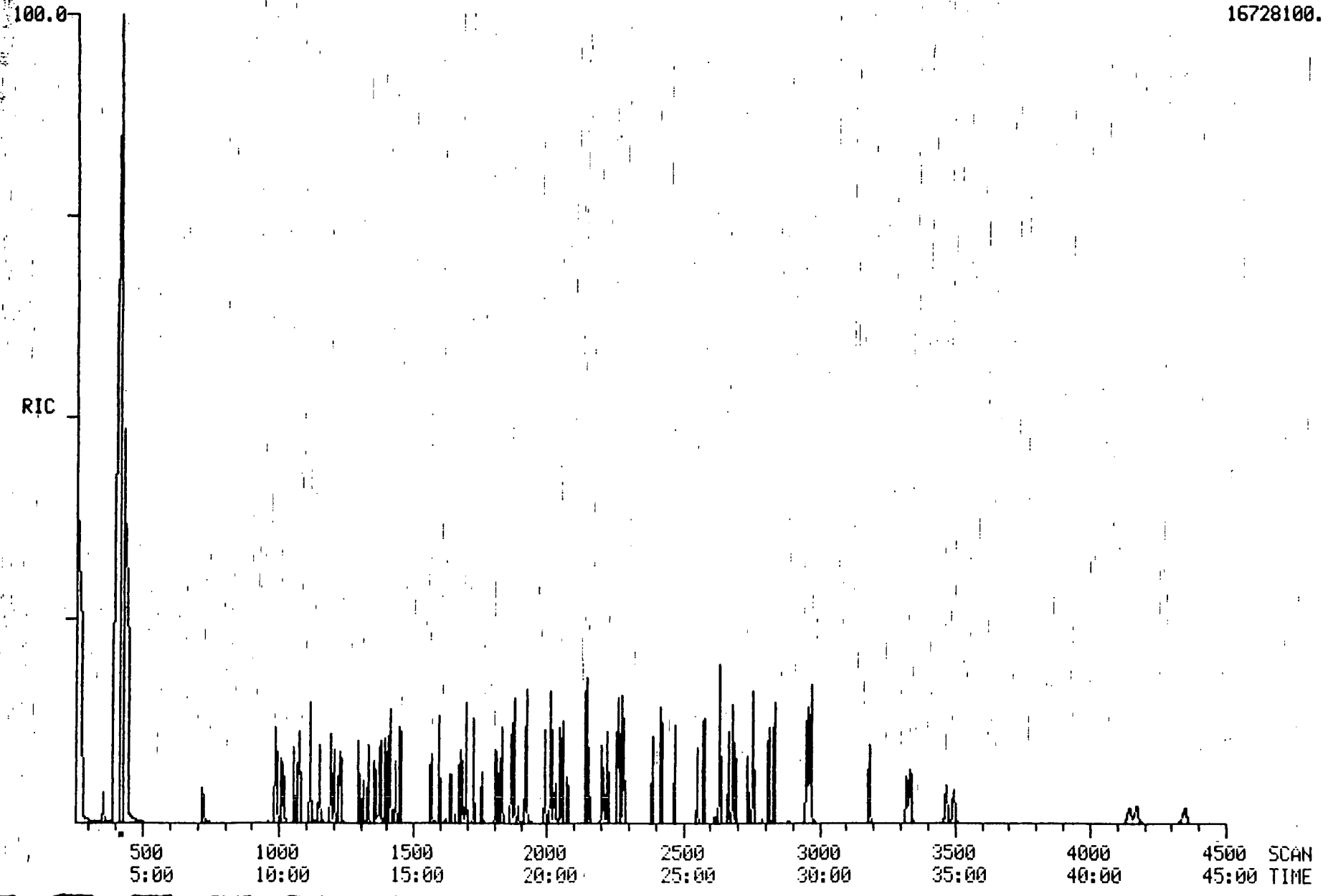
N	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3496	34:58	1	1.000	A BB	883558.	40.000 UG/ML	22.22
2	149	3187	31:52	1	0.912	A BB	1081800.	20.000 UG/ML	11.11
3	252	3324	33:14	1	0.951	A BV	450452.	20.000 UG/ML	11.11
4	252	3336	33:22	1	0.954	A VB	489640.	20.000 UG/ML	11.11
5	252	3469	34:41	1	0.992	A BB	380696.	20.000 UG/NL	11.11
6	276	4143	41:26	1	1.185	A BB	180854.	20.000 UG/ML	11.11
7	278	4170	41:42	1	1.193	A BB	166815.	20.000 UG/ML	11.11
8	276	4342	43:25	1	1.242	A BB	166379.	20.000 UG/ML	11.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:52	1.00	0.912	1.00	20.00	20.00	2.449	2.449	1.00
3	33:14	1.00	0.951	1.00	20.00	20.00	1.020	1.020	1.00
4	33:22	1.00	0.954	1.00	20.00	20.00	1.108	1.108	1.00
5	34:41	1.00	0.992	1.00	20.00	20.00	0.862	0.862	1.00
6	41:26	1.00	1.185	1.00	20.00	20.00	0.409	0.409	1.00
7	41:42	1.00	1.193	1.00	20.00	20.00	0.378	0.378	1.00
8	43:25	1.00	1.242	1.00	20.00	20.00	0.377	0.377	1.00

RIC
11/13/90 12:43:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
RANGE: G 1,5000, LABEL: N 0, 4.0 QUAN: A 0, 1.0 J. 0 BASE: U 20, 3

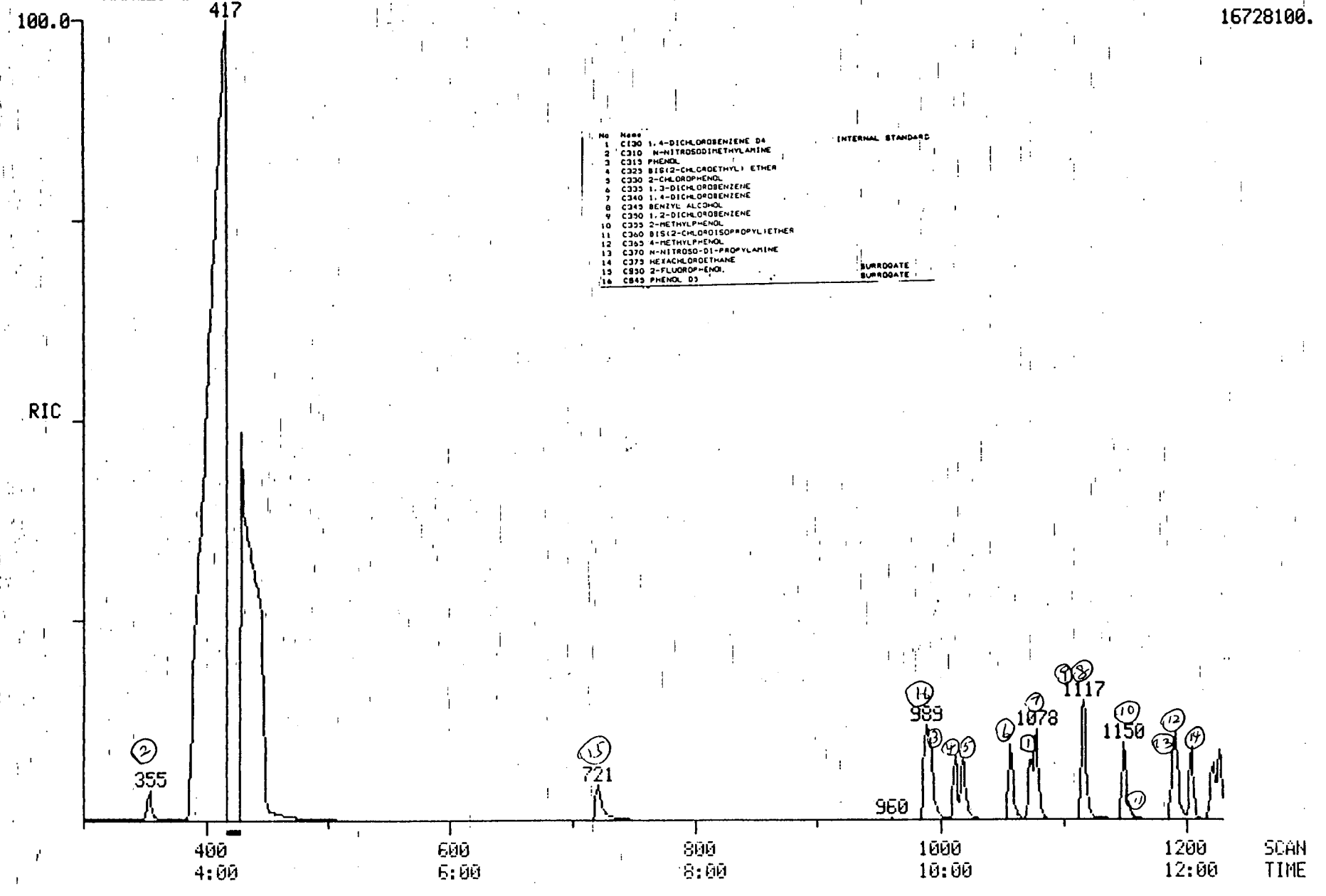
DATA: HSD501113P #1 SCANS 250 TO 4500
CALI: CALTAB #3



000244

RIC
11/13/90 12:43:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501113P #1 SCANS 300 TO 1230
CALI: HSD501113P #3



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C850 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000245

Quantitation Report File: HSD501113P

Data: HSD501113P.TI
11/13/90 12:43:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	1073	10:44	1	1.000	A BB	917168.	40.000	UG/ML	5.06
2	74	355	3:33	1	0.331	A BB	1137650.	50.000	UG	6.33
3	94	992	9:55	1	0.925	A BB	1916500.	50.000	UG/ML	6.33
4	93	1012	10:07	1	0.943	A BB	1567090.	50.000	UG/ML	6.33
5	128	1018	10:11	1	0.949	A BB	1637460.	50.000	UG/ML	6.33
6	146	1057	10:34	1	0.985	A BB	1792360.	50.000	UG/ML	6.33
7	146	1078	10:47	1	1.005	A BB	1803840.	50.000	UG/ML	6.33
8	108	1118	11:11	1	1.042	A BB	883718.	50.000	UG/ML	6.33
9	146	1116	11:10	1	1.040	A BB	1591980.	50.000	UG/ML	6.33
10	108	1150	11:30	1	1.072	A BB	1423030.	50.000	UG/ML	6.33
11	45	1155	11:33	1	1.076	A*BB	100436.	50.000	UG/ML	6.33
12	108	1193	11:56	1	1.112	A BB	1189600.	50.000	UG/ML	6.33
13	70	1191	11:55	1	1.110	A BV	1199150.	50.000	UG/ML	6.33
14	117	1205	12:03	1	1.123	A BB	773376.	50.000	UG/ML	6.33
15	112	721	7:13	1	0.672	A BB	1226470.	50.000	UG/L	6.33
16	99	988	9:53	1	0.921	A BB	1551140.	50.000	UG/ML	6.33

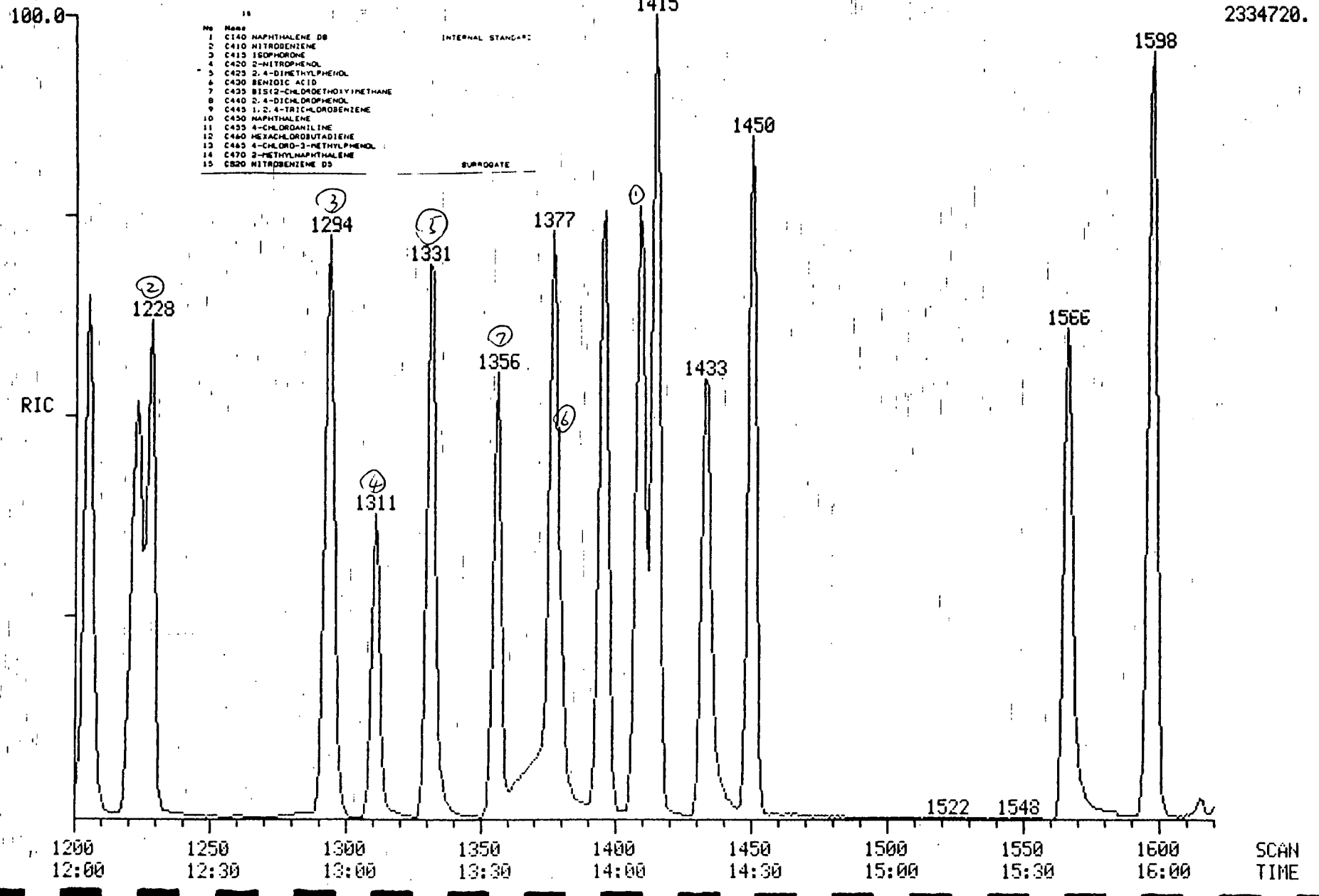
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:33	1.00	0.331	1.00	50.00	50.00	0.992	0.992	1.00
3	9:55	1.00	0.925	1.00	50.00	50.00	1.672	1.672	1.00
4	10:07	1.00	0.943	1.00	50.00	50.00	1.367	1.367	1.00
5	10:11	1.00	0.949	1.00	50.00	50.00	1.428	1.428	1.00
6	10:34	1.00	0.985	1.00	50.00	50.00	1.563	1.563	1.00
7	10:47	1.00	1.005	1.00	50.00	50.00	1.573	1.573	1.00

No	Ret(L)	Ratio	RRT(L)	Rati	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Rati
8	11:11	1.00	1.042	1.00	50.00	50.00	0.771	0.771	1.00
9	11:10	1.00	1.040	1.00	50.00	50.00	1.389	1.389	1.00
10	11:30	1.00	1.072	1.00	50.00	50.00	1.241	1.241	1.00
11	11:33	1.00	1.076	1.00	50.00	50.00	0.088	0.088	1.00
12	11:56	1.00	1.112	1.00	50.00	50.00	1.038	1.038	1.00
13	11:55	1.00	1.110	1.00	50.00	50.00	1.046	1.046	1.00
14	12:03	1.00	1.123	1.00	50.00	50.00	0.675	0.675	1.00
15	7:13	1.00	0.672	1.00	50.00	50.00	1.070	1.070	1.00
16	9:53	1.00	0.921	1.00	50.00	50.00	1.353	1.353	1.00

RIC
11/13/90 12:43:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501113P #1
CALI: HSD501113P #3

SCANS 1200 TO 1620



000248

Quantitation Report File: HSD501113P

Data: HSD501113P.TI
11/13/90 12:43:00
Sampl : HSL-D STANDARD 11/13/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

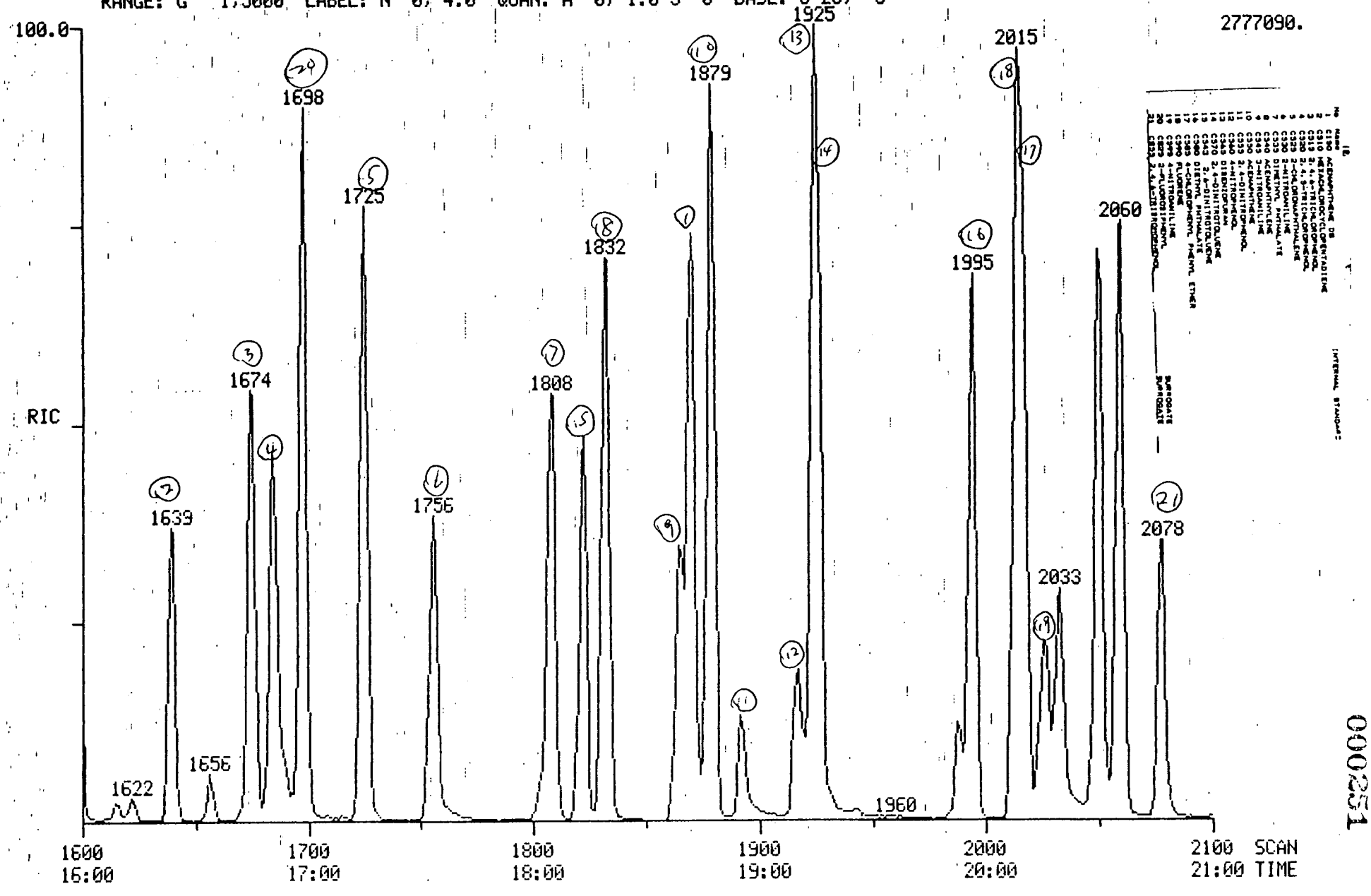
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1409	14:05	1	1.000	A BB	3291150.	40.000 UG/ML	5.41
2	77	1228	12:17	1	0.872	A BB	1703080.	50.000 UG/ML	6.76
3	82	1294	12:56	1	0.918	A BV	3126680.	50.000 UG/ML	6.76
4	139	1311	13:07	1	0.930	A BB	620807.	50.000 UG/ML	6.76
5	122	1331	13:19	1	0.945	A BB	1133610.	50.000 UG/ML	6.76
6	122	1380	13:48	1	0.979	A BB	604776.	50.000 UG/ML	6.76
7	93	1356	13:34	1	0.962	A BB	1551660.	50.000 UG/ML	6.76
8	162	1377	13:46	1	0.977	A BB	1201700.	50.000 UG/ML	6.76
9	180	1396	13:58	1	0.991	A BV	1420110.	50.000 UG/ML	6.76
10	128	1415	14:09	1	1.004	A BB	3810230.	50.000 UG/ML	6.76
11	127	1433	14:20	1	1.017	A BB	1608890.	50.000 UG/ML	6.76
12	225	1450	14:30	1	1.029	A BB	840384.	50.000 UG/ML	6.76
13	107	1566	15:40	1	1.111	A BB	1212260.	50.000 UG/ML	6.76
14	142	1598	15:59	1	1.134	A BB	2384100.	50.000 UG/ML	6.76
15	82	1223	12:14	1	0.868	A BB	1947780.	50.000 UG/ML	6.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17	1.00	0.872	1.00	50.00	50.00	0.414	0.414	1.00
3	12:56	1.00	0.918	1.00	50.00	50.00	0.760	0.760	1.00
4	13:07	1.00	0.930	1.00	50.00	50.00	0.151	0.151	1.00
5	13:19	1.00	0.945	1.00	50.00	50.00	0.276	0.276	1.00
6	13:48	1.00	0.979	1.00	50.00	50.00	0.147	0.147	1.00
7	13:34	1.00	0.962	1.00	50.00	50.00	0.377	0.377	1.00
8	13:46	1.00	0.977	1.00	50.00	50.00	0.292	0.292	1.00
9	13:58	1.00	0.991	1.00	50.00	50.00	0.345	0.345	1.00

No	R t(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:09	1.00	1.004	1.00	50.00	50.00	0.926	0.926	1.00
11	14:20	1.00	1.017	1.00	50.00	50.00	0.391	0.391	1.00
12	14:30	1.00	1.029	1.00	50.00	50.00	0.204	0.204	1.00
13	15:40	1.00	1.111	1.00	50.00	50.00	0.295	0.295	1.00
14	15:59	1.00	1.134	1.00	50.00	50.00	0.580	0.580	1.00
15	12:14	1.00	0.868	1.00	50.00	50.00	0.473	0.473	1.00

RIC
11/13/90 12:43:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501113P #1 SCANS 1600 TO 2100
CALI: HSD501113P #3



000251

Quantitation Report File: HSD501113P

000252

Data: HSD501113P.TI
11/13/90 12:43:00
Sampl : HSL-D STANDARD 11/13/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD50111

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

No	Nam		
1	C150	ACENAPHTHENE D8	INTERNAL STANDARD
2	C510	HEXACHLOROCYCLOPENTADIENE	
3	C515	2,4,6-TRICHLOROPHENOL	
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	
11	C555	2,4-DINITROPHENOL	
12	C560	4-NITROPHENOL	
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYL PHTHALATE	
17	C585	4-CHLOROPHENYL PHENYL ETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	SURROGATE
21	CS55	2,4,6-TRIBROMOPHENOL	SURROGATE

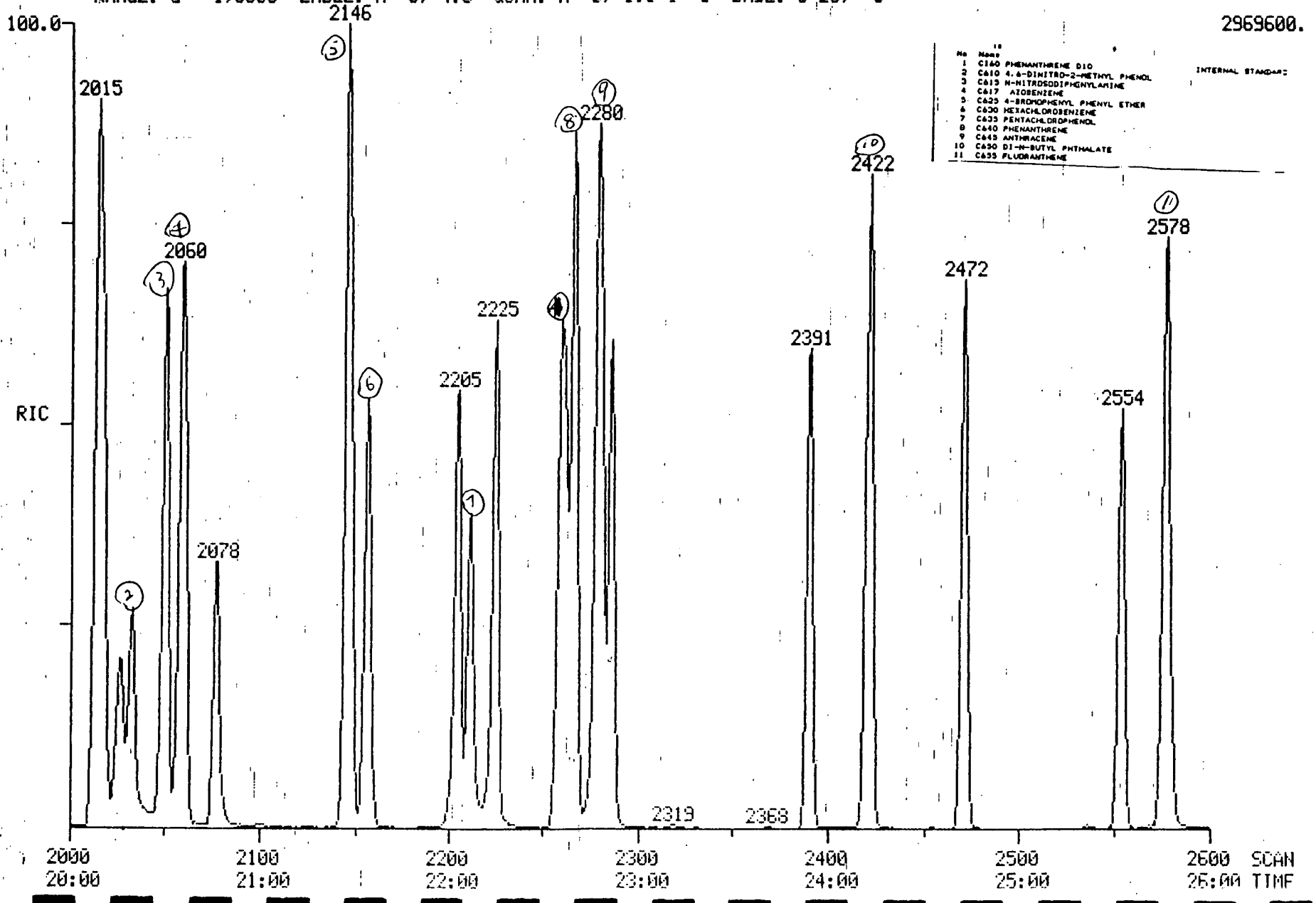
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1870	18:42	1	1.000	A BB	1817760.	40.000 UG/ML	3.85
2	237	1639	16:23	1	0.876	A BB	555376.	50.000 UG/ML	4.81
3	196	1674	16:44	1	0.895	A BV	820234.	50.000 UG/ML	4.81
4	196	1684	16:50	1	0.901	A VB	967082.	50.000 UG/ML	4.81
5	162	1725	17:15	1	0.922	A BB	2482380.	50.000 UG/ML	4.81
6	65	1756	17:34	1	0.939	A BB	868035.	50.000 UG/ML	4.81
7	163	1808	18:05	1	0.967	A BB	2917150.	50.000 UG/ML	4.81
8	152	1832	18:19	1	0.980	A BB	3640420.	50.000 UG/ML	4.81
9	138	1865	18:39	1	0.997	A BB	733473.	50.000 UG/ML	4.81
10	154	1879	18:47	1	1.005	A VB	2319320.	50.000 UG/ML	4.81
11	184	1892	18:55	1	1.012	A BB	214842.	50.000 UG/ML	4.81
12	109	1917	19:10	1	1.025	A BB	308341.	50.000 UG/ML	4.81
13	168	1924	19:14	1	1.029	A BB	3273070.	50.000 UG/ML	4.81
14	165	1927	19:16	1	1.030	A BV	1005400.	50.000 UG/ML	4.81
15	165	1822	18:13	1	0.974	A BB	736768.	50.000 UG/ML	4.81
16	149	1995	19:57	1	1.067	A BB	3090240.	50.000 UG/ML	4.81
17	204	2017	20:10	1	1.079	A BB	1194800.	50.000 UG/ML	4.81
18	166	2014	20:08	1	1.077	A BB	2729410.	50.000 UG/ML	4.81
19	138	2026	20:16	1	1.083	A BB	618047.	50.000 UG/ML	4.81
20	172	1698	16:59	1	0.908	A BB	2920980.	50.000 UG/ML	4.81
21	330	2077	20:46	1	1.111	A BB	419264.	50.000 UG/ML	4.81

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:23	1.00	0.876	1.00	50.00	50.00	0.244	0.244	1.00
3	16:44	1.00	0.895	1.00	50.00	50.00	0.361	0.361	1.00
4	16:50	1.00	0.901	1.00	50.00	50.00	0.426	0.426	1.00
5	17:15	1.00	0.922	1.00	50.00	50.00	1.092	1.092	1.00
6	17:34	1.00	0.939	1.00	50.00	50.00	0.382	0.382	1.00
7	18:05	1.00	0.967	1.00	50.00	50.00	1.284	1.284	1.00
8	18:19	1.00	0.980	1.00	50.00	50.00	1.602	1.602	1.00
9	18:39	1.00	0.997	1.00	50.00	50.00	0.323	0.323	1.00
10	18:47	1.00	1.005	1.00	50.00	50.00	1.021	1.021	1.00
11	18:55	1.00	1.012	1.00	50.00	50.00	0.095	0.095	1.00
12	19:10	1.00	1.025	1.00	50.00	50.00	0.136	0.136	1.00
13	19:14	1.00	1.029	1.00	50.00	50.00	1.440	1.440	1.00
14	19:16	1.00	1.030	1.00	50.00	50.00	0.442	0.442	1.00
15	18:13	1.00	0.974	1.00	50.00	50.00	0.324	0.324	1.00
16	19:57	1.00	1.067	1.00	50.00	50.00	1.360	1.360	1.00
17	20:10	1.00	1.079	1.00	50.00	50.00	0.526	0.526	1.00
18	20:08	1.00	1.077	1.00	50.00	50.00	1.201	1.201	1.00
19	20:16	1.00	1.083	1.00	50.00	50.00	0.272	0.272	1.00
20	16:59	1.00	0.908	1.00	50.00	50.00	1.286	1.286	1.00
21	20:46	1.00	1.111	1.00	50.00	50.00	0.185	0.185	1.00

RIC
11/13/90 12:43:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501113P #1
CALI: HSD501113P #3

SCANS 2000 TO 2600



No	Name
1	C160 PHENANTHRENE D10
2	C610 4,6-DINITRO-2-METHYL PHENOL
3	C615 N-NITROSODIPHENYLAMINE
4	C617 AZOBENZENE
5	C625 4-BROMOPHENYL PHENYL ETHER
6	C630 HEXACHLOROBENZENE
7	C635 PENTACHLOROPHENOL
8	C640 PHENANTHRENE
9	C645 ANTHRACENE
10	C650 DI-N-BUTYL PHTHALATE
11	C655 FLUORANTHENE

INTERNAL STANDARD

000254

Quantitation Report Fil : HSD501113P

Data: HSD501113P.TI
11/13/90 12:43:00
Sampl : HSL-D STANDARD 11/13/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

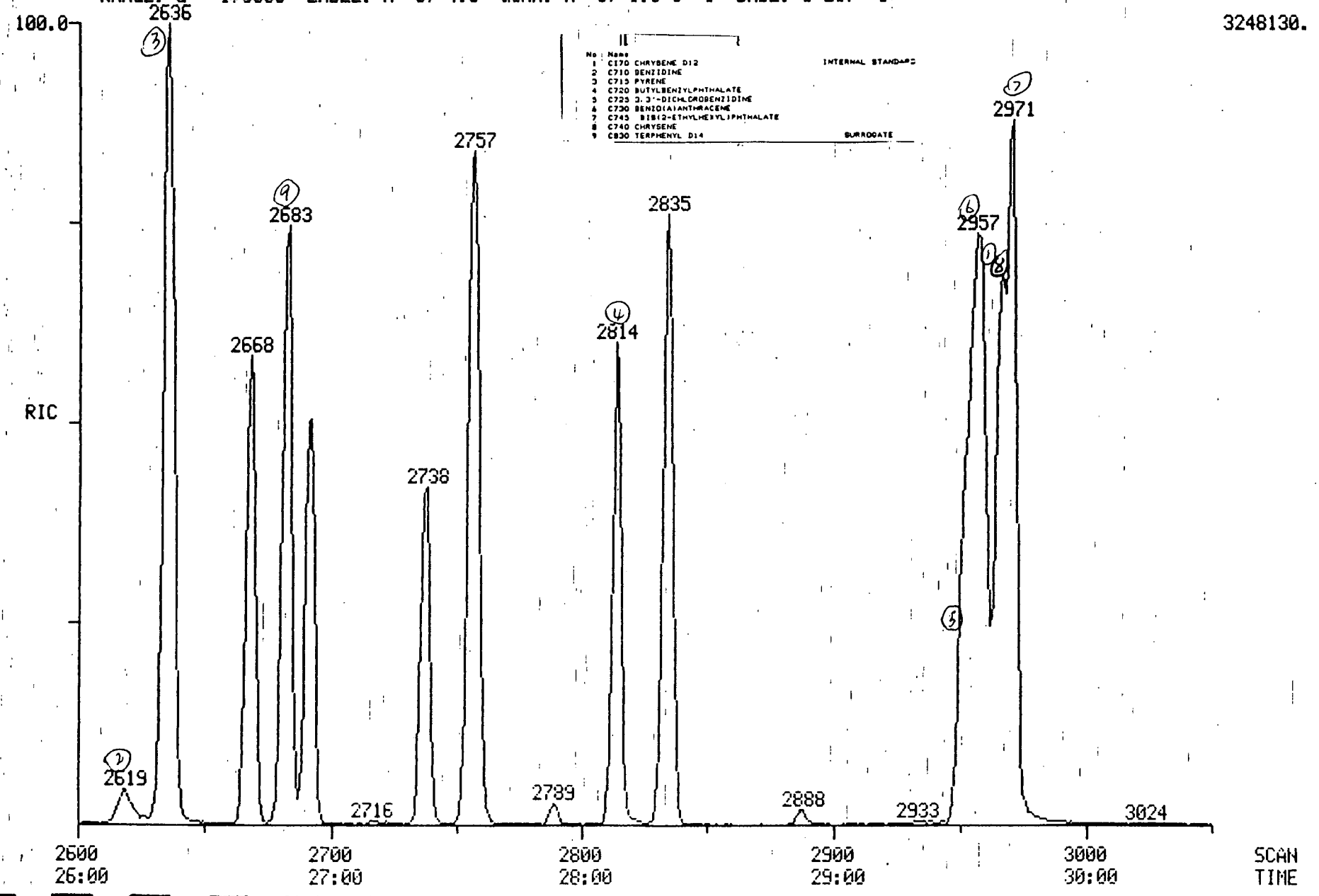
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2260	22:36	1	1.000	A BV	1902240.	40.000 UG/ML	7.41
2	198	2033	20:20	1	0.900	A BB	453075.	50.000 UG/ML	9.26
3	169	2050	20:30	1	0.907	A BB	2025800.	50.000 UG/ML	9.26
4	77	2060	20:36	1	0.912	A VB	3545950.	50.000 NG	9.26
5	248	2145	21:27	1	0.949	A BV	794256.	50.000 UG/ML	9.26
6	284	2157	21:34	1	0.954	A BB	942640.	50.000 UG/ML	9.26
7	266	2211	22:07	1	0.978	A BB	602668.	50.000 UG/ML	9.26
8	178	2266	22:40	1	1.003	A BV	4199770.	50.000 UG/ML	9.26
9	178	2280	22:48	1	1.009	A VB	4461950.	50.000 UG/ML	9.26
10	149	2422	24:13	1	1.072	A BB	5045540.	50.000 UG/ML	9.26
11	202	2578	25:47	1	1.141	A BB	3916310.	50.000 UG/ML	9.26

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20	1.00	0.900	1.00	50.00	50.00	0.191	0.191	1.00
3	20:30	1.00	0.907	1.00	50.00	50.00	0.852	0.852	1.00
4	20:36	1.00	0.912	1.00	50.00	50.00	1.491	1.491	1.00
5	21:27	1.00	0.949	1.00	50.00	50.00	0.334	0.334	1.00
6	21:34	1.00	0.954	1.00	50.00	50.00	0.396	0.396	1.00
7	22:07	1.00	0.978	1.00	50.00	50.00	0.253	0.253	1.00
8	22:40	1.00	1.003	1.00	50.00	50.00	1.766	1.766	1.00
9	22:48	1.00	1.009	1.00	50.00	50.00	1.877	1.877	1.00
10	24:13	1.00	1.072	1.00	50.00	50.00	2.122	2.122	1.00
11	25:47	1.00	1.141	1.00	50.00	50.00	1.647	1.647	1.00

RIC
11/13/90 12:43:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
RANGE: G 1.5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501113P #1
CALI: HSD501113P #3

SCANS 2600 TO 3050



000256

Quantitation Report Fil : HSD501113P

000257

Data: HSD501113P.TI
11/13/90 12:43:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 50NG INJECTION
F rmula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

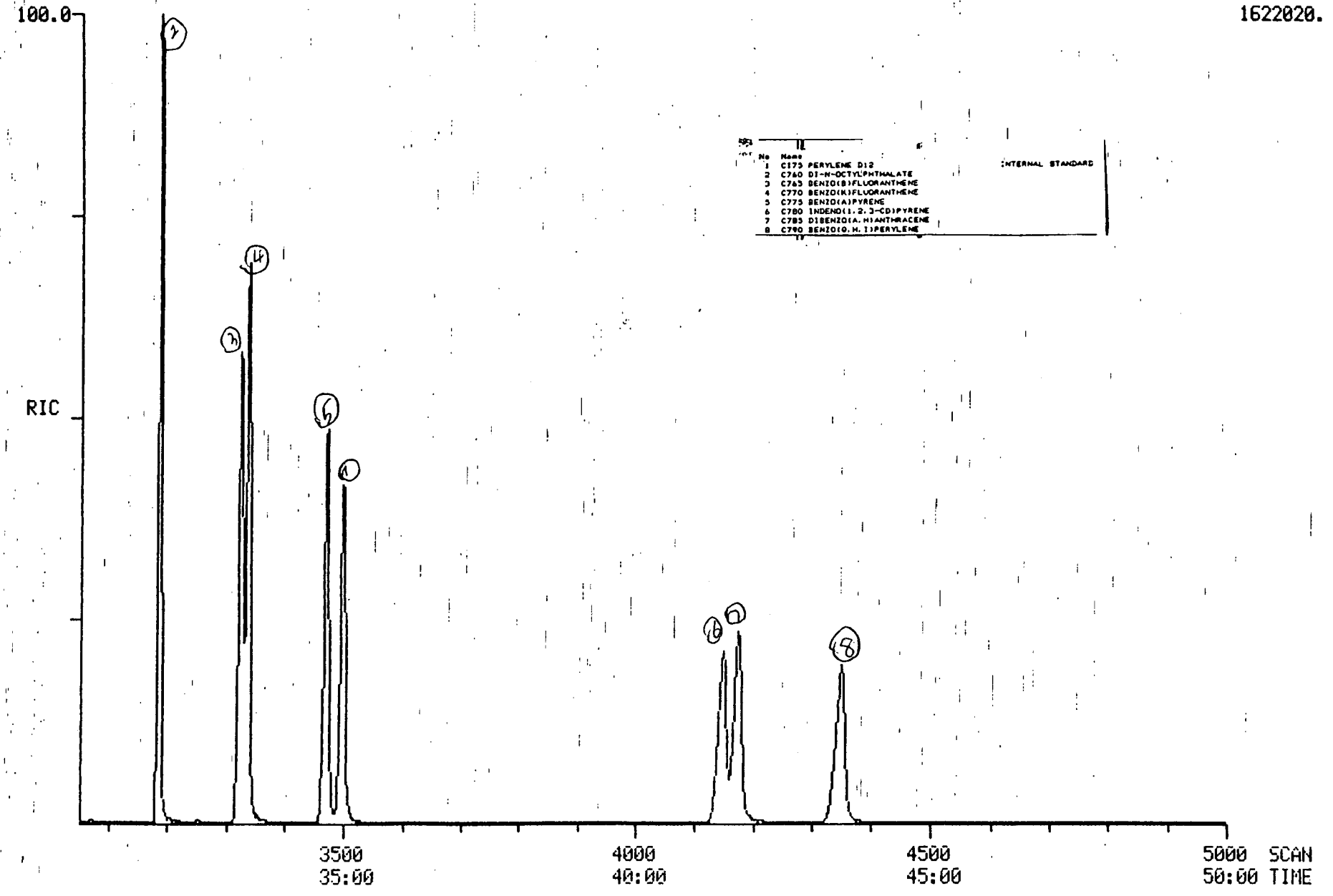
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2959	29:35	1	1.000	A BB	2580920.	40.000 UG/ML	9.09
2	184	2619	26:11	1	0.885	A BB	352360.	50.000 UG/ML	11.36
3	202	2637	26:22	1	0.891	A BB	4019330.	50.000 UG/ML	11.36
4	149	2814	28:08	1	0.951	A BB	1908990.	50.000 UG/ML	11.36
5	252	2951	29:31	1	0.997	A BB	884040.	50.000 UG/ML	11.36
6	228	2956	29:34	1	0.999	A BV	3555260.	50.000 UG/ML	11.36
7	149	2971	29:43	1	1.004	A BB	3110820.	50.000 UG/ML	11.36
8	228	2966	29:40	1	1.002	A BB	2840510.	50.000 UG/ML	11.36
9	244	2682	26:49	1	0.906	A BV	3340230.	50.000 UG/ML	11.36

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:11	1.00	0.885	1.00	50.00	50.00	0.109	0.109	1.00
3	26:22	1.00	0.891	1.00	50.00	50.00	1.246	1.246	1.00
4	28:08	1.00	0.951	1.00	50.00	50.00	0.592	0.592	1.00
5	29:31	1.00	0.997	1.00	50.00	50.00	0.274	0.274	1.00
6	29:34	1.00	0.999	1.00	50.00	50.00	1.102	1.102	1.00
7	29:43	1.00	1.004	1.00	50.00	50.00	0.964	0.964	1.00
8	29:40	1.00	1.002	1.00	50.00	50.00	0.880	0.880	1.00
9	26:49	1.00	0.906	1.00	50.00	50.00	1.035	1.035	1.00

RIC
11/13/90 12:43:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 50NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501113P #1 SCANS 3050 TO 5000
CALI: HSD501113P #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

0002258

Quantitation Report Fil : HSD501113P

Data: HSD501113P.TI
11/13/90 12:43:00
Sampl : HSL-D STANDARD 11/13/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

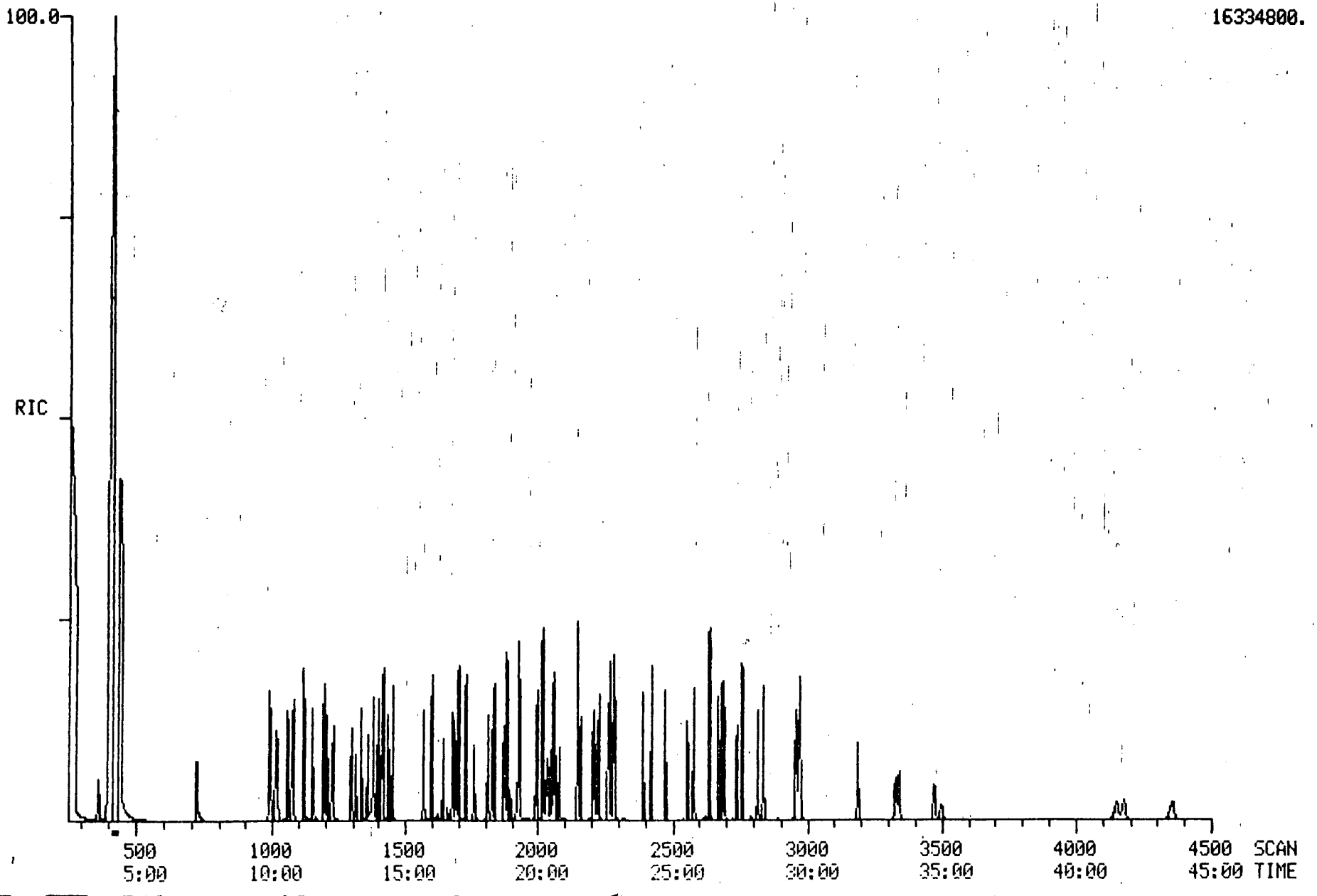
N	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3498	34:59	1	1.000	A BB	1821030.	40.000 UG/ML	10.26
2	149	3186	31:52	1	0.911	A BB	4326300.	50.000 UG/ML	12.82
3	252	3325	33:15	1	0.951	A BV	2588130.	50.000 UG/ML	12.82
4	252	3338	33:23	1	0.954	A VB	2524580.	50.000 UG/ML	12.82
5	252	3470	34:42	1	0.992	A BB	2263840.	50.000 UG/NL	12.82
6	276	4149	41:29	1	1.186	A BB	1196060.	50.000 UG/ML	12.82
7	278	4176	41:46	1	1.194	A BB	1379760.	50.000 UG/ML	12.82
8	276	4352	43:31	1	1.244	A BB	1188930.	50.000 UG/ML	12.82

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:52	1.00	0.911	1.00	50.00	50.00	1.901	1.901	1.00
3	33:15	1.00	0.951	1.00	50.00	50.00	1.137	1.137	1.00
4	33:23	1.00	0.954	1.00	50.00	50.00	1.109	1.109	1.00
5	34:42	1.00	0.992	1.00	50.00	50.00	0.995	0.995	1.00
6	41:29	1.00	1.186	1.00	50.00	50.00	0.525	0.525	1.00
7	41:46	1.00	1.194	1.00	50.00	50.00	0.606	0.606	1.00
8	43:31	1.00	1.244	1.00	50.00	50.00	0.522	0.522	1.00

RIC
11/13/90 16:30:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

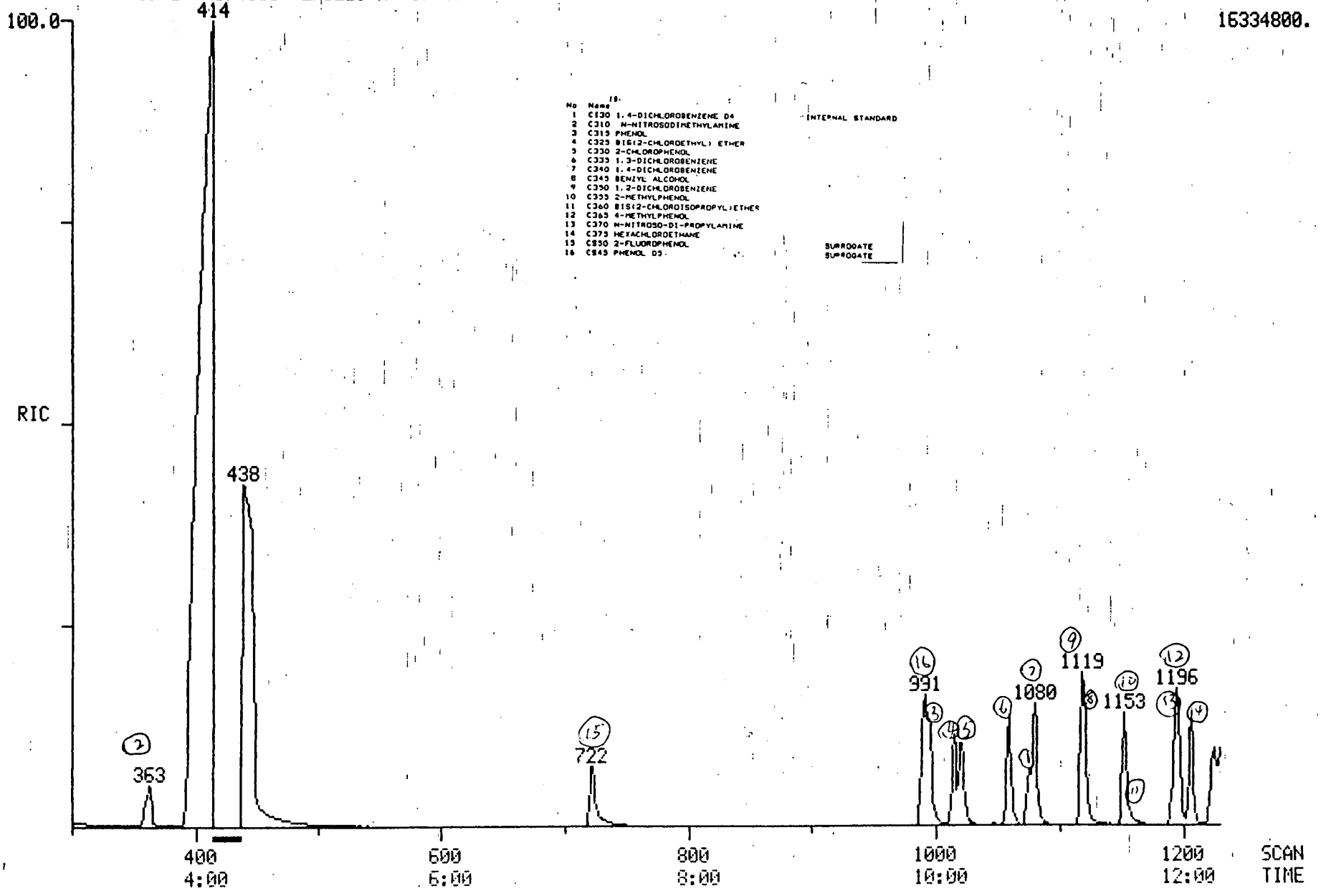
DATA: HSD801113 #1 SCANS 250 TO 4500
CALI: CALTAB #3



0002360

RIC
11/13/90 16:30:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 80 NG INJECTION
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801113 #1 SCANS 300 TO 1230
CALI: HSD801113 #3



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C380 2-FLUOROPHENOL	SURROGATE
16	C385 PHENOL D5	SURROGATE

000261

Quantitation Report File: HSD801113

000262

Data: HSD801113.TI
11/13/90 16:30:00
Sample: HSL-D STANDARD 11/13/90
C nds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80111

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	1075	10:45	1	1.000	A BB	824504.	40.000	UG/ML	3.23
2	74	363	3:38	1	0.338	A BB	1909210.	80.000	UG	6.45
3	94	995	9:57	1	0.926	A BB	2729550.	80.000	UG/ML	6.45
4	93	1015	10:09	1	0.944	A BB	2262630.	80.000	UG/ML	6.45
5	128	1020	10:12	1	0.949	A BB	2325250.	80.000	UG/ML	6.45
6	146	1059	10:35	1	0.985	A BB	2446460.	80.000	UG/ML	6.45
7	146	1080	10:48	1	1.005	A BB	2406200.	80.000	UG/ML	6.45
8	108	1121	11:13	1	1.043	A BB	1280890.	80.000	UG/ML	6.45
9	146	1118	11:11	1	1.040	A BB	2152430.	80.000	UG/ML	6.45
10	108	1153	11:32	1	1.073	A BB	2010090.	80.000	UG/ML	6.45
11	45	1157	11:34	1	1.076	A*BB	142464.	80.000	UG/ML	6.45
12	108	1197	11:58	1	1.113	A BB	1683280.	80.000	UG/ML	6.45
13	70	1194	11:56	1	1.111	A BV	1778730.	80.000	UG/ML	6.45
14	117	1207	12:04	1	1.123	A BB	1074450.	80.000	UG/ML	6.45
15	112	722	7:13	1	0.672	A BB	1815720.	80.000	UG/L	6.45
16	99	991	9:55	1	0.922	A BB	2177280.	80.000	UG/ML	6.45

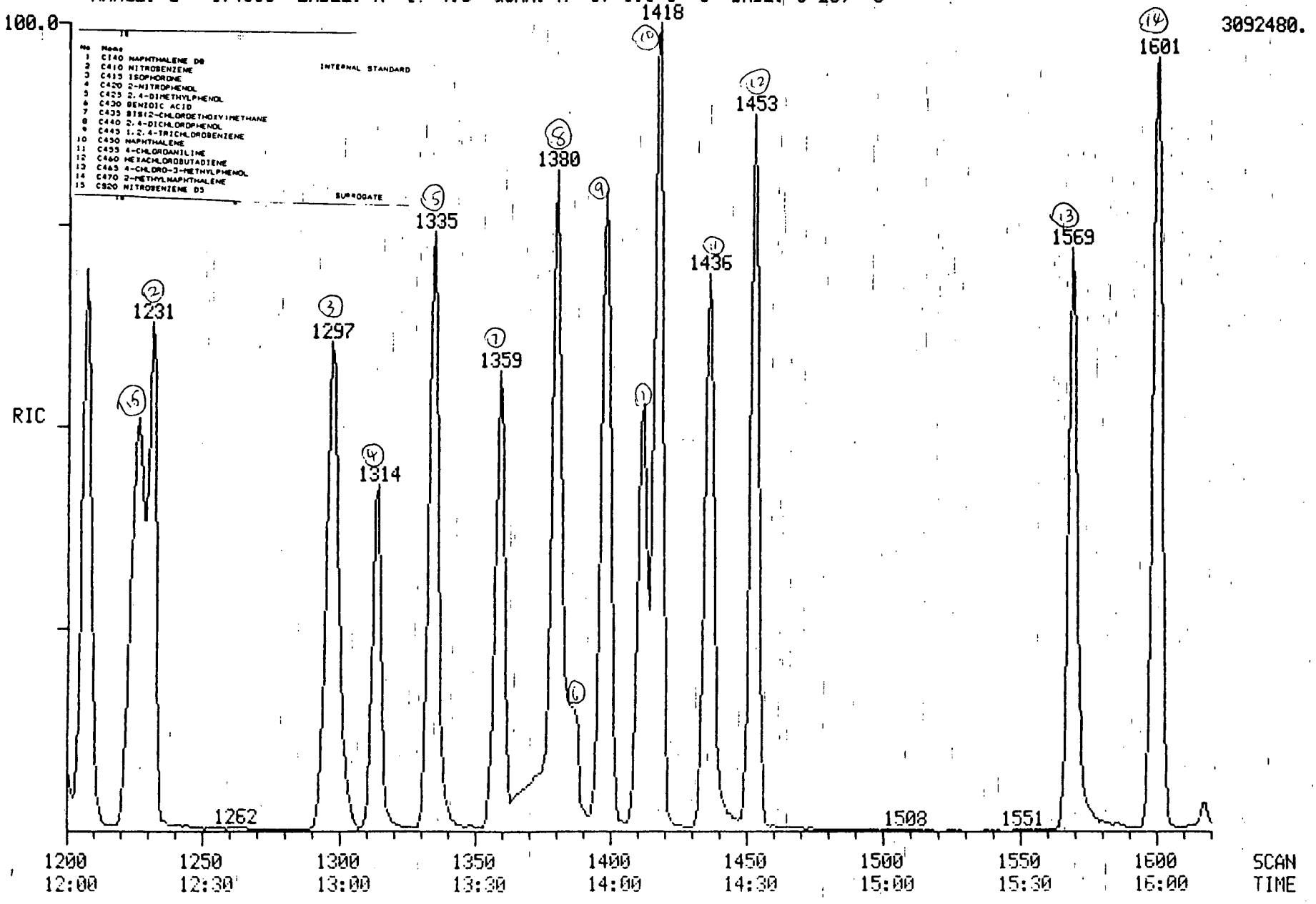
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Rati
1	10:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:38	1.00	0.338	1.00	80.00	80.00	1.158	1.158	1.00
3	9:57	1.00	0.926	1.00	80.00	80.00	1.655	1.655	1.00
4	10:09	1.00	0.944	1.00	80.00	80.00	1.372	1.372	1.00
5	10:12	1.00	0.949	1.00	80.00	80.00	1.410	1.410	1.00
6	10:35	1.00	0.985	1.00	80.00	80.00	1.484	1.484	1.00
7	10:48	1.00	1.005	1.00	80.00	80.00	1.459	1.459	1.00

No	Ret(L)	Ratio	RRT(L)	Rati	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:13	1.00	1.043	1.00	80.00	80.00	0.777	0.777	1.00
9	11:11	1.00	1.040	1.00	80.00	80.00	1.305	1.305	1.00
10	11:32	1.00	1.073	1.00	80.00	80.00	1.219	1.219	1.00
11	11:34	1.00	1.076	1.00	80.00	80.00	0.086	0.086	1.00
12	11:58	1.00	1.113	1.00	80.00	80.00	1.021	1.021	1.00
13	11:56	1.00	1.111	1.00	80.00	80.00	1.079	1.079	1.00
14	12:04	1.00	1.123	1.00	80.00	80.00	0.652	0.652	1.00
15	7:13	1.00	0.672	1.00	80.00	80.00	1.101	1.101	1.00
16	9:55	1.00	0.922	1.00	80.00	80.00	1.320	1.320	1.00

RIC
11/13/90 16:30:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801113 #1
CALI: HSD801113 #3

SCANS 1200 TO 1620



000264

Quantitation Report File: HSD801113

Data: HSD801113.TI
11/13/90 16:30:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80111

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1412	14:07	1	1.000	A VB	3051980.	40.000 UG/ML	3.45
2	77	1231	12:19	1	0.872	A BB	2447190.	80.000 UG/ML	6.90
3	82	1297	12:58	1	0.919	A BV	4493160.	80.000 UG/ML	6.90
4	139	1313	13:08	1	0.930	A BB	979818.	80.000 UG/ML	6.90
5	122	1335	13:21	1	0.945	A BB	1770060.	80.000 UG/ML	6.90
6	122	1387	13:52	1	0.982	A BB	1050930.	80.000 UG/ML	6.90
7	93	1359	13:35	1	0.962	A BB	2340410.	80.000 UG/ML	6.90
8	162	1380	13:48	1	0.977	A BB	1780850.	80.000 UG/ML	6.90
9	180	1398	13:59	1	0.990	A VV	1984160.	80.000 UG/ML	6.90
10	128	1418	14:11	1	1.004	A BB	5320160.	80.000 UG/ML	6.90
11	127	1436	14:22	1	1.017	A BB	2442400.	80.000 UG/ML	6.90
12	225	1453	14:32	1	1.029	A BB	1165850.	80.000 UG/ML	6.90
13	107	1569	15:41	1	1.111	A BB	1858430.	80.000 UG/ML	6.90
14	142	1600	16:00	1	1.133	A BB	3372140.	80.000 UG/ML	6.90
15	82	1226	12:16	1	0.868	A BB	2775050.	80.000 UG/ML	6.90

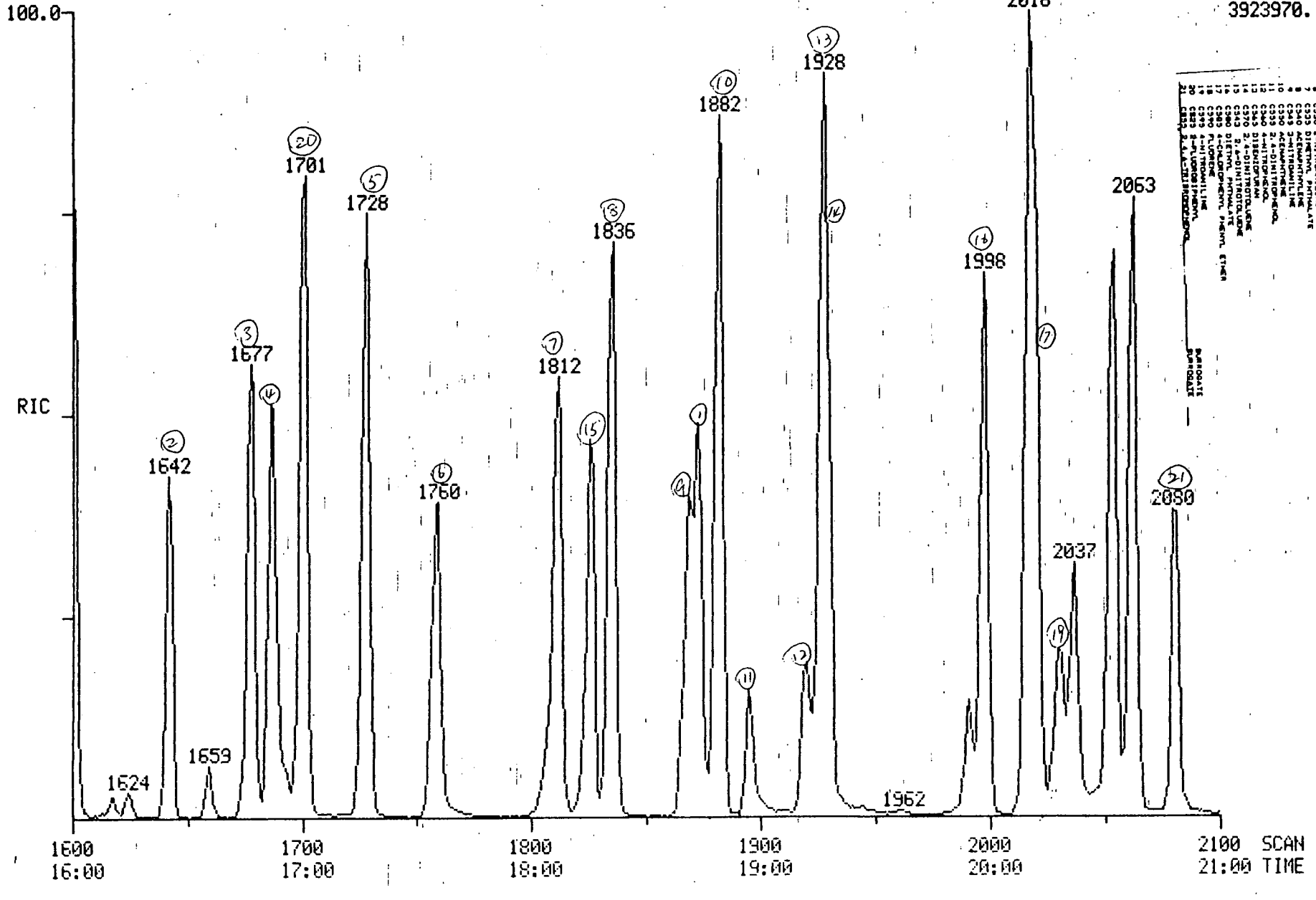
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:19	1.00	0.872	1.00	80.00	80.00	0.401	0.401	1.00
3	12:58	1.00	0.919	1.00	80.00	80.00	0.736	0.736	1.00
4	13:08	1.00	0.930	1.00	80.00	80.00	0.161	0.161	1.00
5	13:21	1.00	0.945	1.00	80.00	80.00	0.290	0.290	1.00
6	13:52	1.00	0.982	1.00	80.00	80.00	0.172	0.172	1.00
7	13:35	1.00	0.962	1.00	80.00	80.00	0.383	0.383	1.00
8	13:48	1.00	0.977	1.00	80.00	80.00	0.292	0.292	1.00
9	13:59	1.00	0.990	1.00	80.00	80.00	0.325	0.325	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:11	1.00	1.004	1.00	80.00	80.00	0.872	0.872	1.00
11	14:22	1.00	1.017	1.00	80.00	80.00	0.400	0.400	1.00
12	14:32	1.00	1.029	1.00	80.00	80.00	0.191	0.191	1.00
13	15:41	1.00	1.111	1.00	80.00	80.00	0.304	0.304	1.00
14	16:00	1.00	1.133	1.00	80.00	80.00	0.552	0.552	1.00
15	12:16	1.00	0.868	1.00	80.00	80.00	0.455	0.455	1.00

RIC
11/13/90 16:30:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801113 #1
CALI: HSD801113 #3

SCANS 1600 TO 2100



000267

Quantitation Report File: HSD801113

Data: HSD801113.TI
11/13/90 16:30:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: LA Acct. No.: HSD80111

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

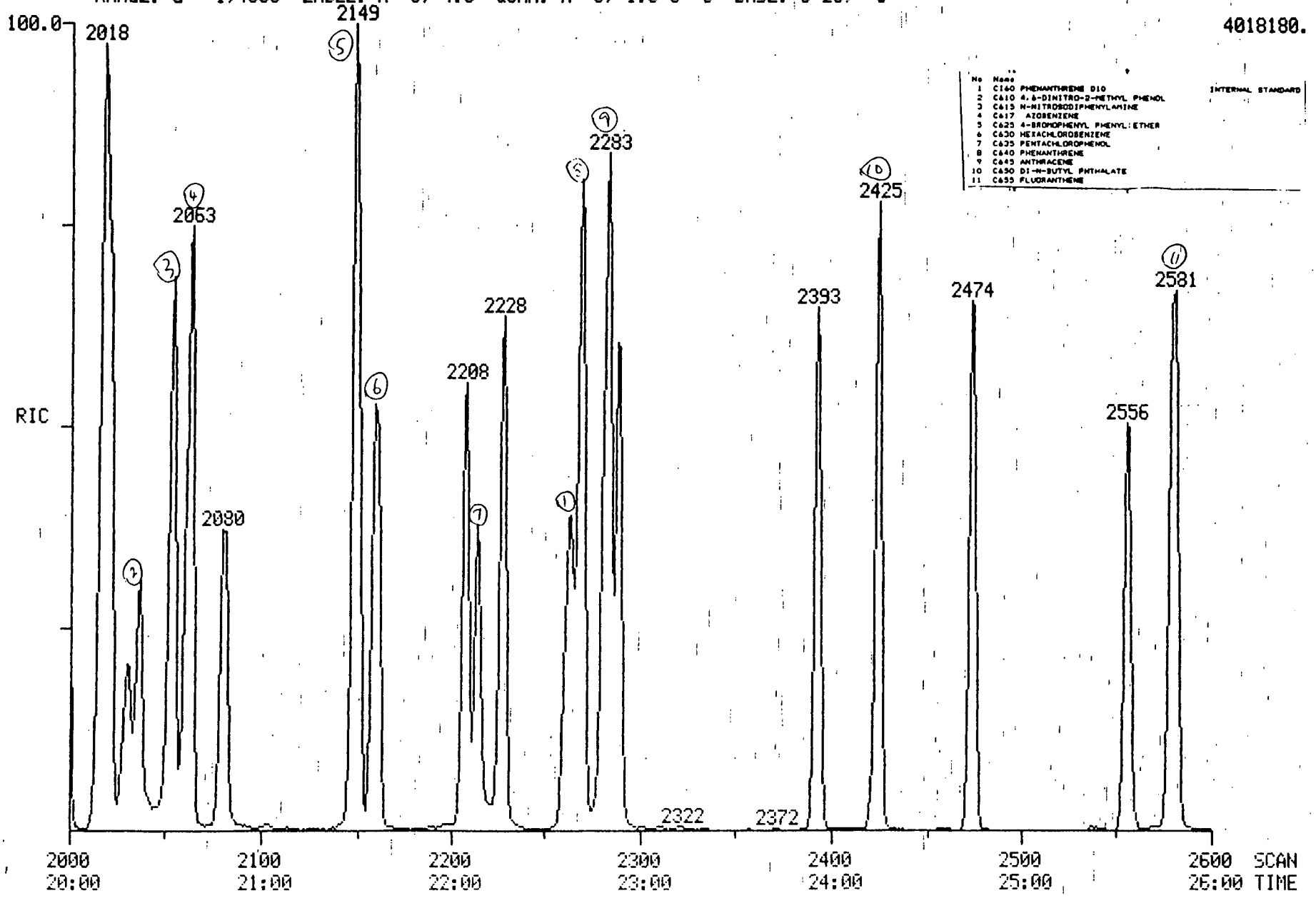
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1873	18:44	1	1.000	A BB	1683350.	40.000 UG/ML	2.44
2	237	1642	16:25	1	0.877	A BB	854448.	80.000 UG/ML	4.88
3	196	1677	16:46	1	0.895	A BV	1257760.	80.000 UG/ML	4.88
4	196	1686	16:52	1	0.900	A VB	1496650.	80.000 UG/ML	4.88
5	162	1728	17:17	1	0.923	A BB	3587280.	80.000 UG/ML	4.88
6	65	1760	17:36	1	0.940	A BB	1363980.	80.000 UG/ML	4.88
7	163	1812	18:07	1	0.967	A BB	4725910.	80.000 UG/ML	4.88
8	152	1836	18:22	1	0.980	A BB	5423110.	80.000 UG/ML	4.88
9	138	1868	18:41	1	0.997	A BB	1129110.	80.000 UG/ML	4.88
10	154	1882	18:49	1	1.005	A BB	3285050.	80.000 UG/ML	4.88
11	184	1895	18:57	1	1.012	A BB	388622.	80.000 UG/ML	4.88
12	109	1920	19:12	1	1.025	A BB	422712.	80.000 UG/ML	4.88
13	168	1928	19:17	1	1.029	A BB	4831010.	80.000 UG/ML	4.88
14	165	1930	19:18	1	1.030	A BB	1375950.	80.000 UG/ML	4.88
15	165	1826	18:16	1	0.975	A BV	1131830.	80.000 UG/ML	4.88
16	149	1998	19:59	1	1.067	A BB	4649850.	80.000 UG/ML	4.88
17	204	2021	20:13	1	1.079	A BB	1745870.	80.000 UG/ML	4.88
18	166	2018	20:11	1	1.077	A BB	3909670.	80.000 UG/ML	4.88
19	138	2030	20:18	1	1.084	A VB	877169.	80.000 UG/ML	4.88
20	172	1701	17:01	1	0.908	A VB	4083300.	80.000 UG/ML	4.88
21	330	2080	20:48	1	1.111	A BB	692029.	80.000 UG/ML	4.88

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25	1.00	0.877	1.00	80.00	80.00	0.254	0.254	1.00
3	16:46	1.00	0.895	1.00	80.00	80.00	0.374	0.374	1.00
4	16:52	1.00	0.900	1.00	80.00	80.00	0.445	0.445	1.00
5	17:17	1.00	0.923	1.00	80.00	80.00	1.066	1.066	1.00
6	17:36	1.00	0.940	1.00	80.00	80.00	0.405	0.405	1.00
7	18:07	1.00	0.967	1.00	80.00	80.00	1.404	1.404	1.00
8	18:22	1.00	0.980	1.00	80.00	80.00	1.611	1.611	1.00
9	18:41	1.00	0.997	1.00	80.00	80.00	0.335	0.335	1.00
10	18:49	1.00	1.005	1.00	80.00	80.00	0.976	0.976	1.00
11	18:57	1.00	1.012	1.00	80.00	80.00	0.115	0.115	1.00
12	19:12	1.00	1.025	1.00	80.00	80.00	0.126	0.126	1.00
13	19:17	1.00	1.029	1.00	80.00	80.00	1.435	1.435	1.00
14	19:18	1.00	1.030	1.00	80.00	80.00	0.409	0.409	1.00
15	18:16	1.00	0.975	1.00	80.00	80.00	0.336	0.336	1.00
16	19:59	1.00	1.067	1.00	80.00	80.00	1.381	1.381	1.00
17	20:13	1.00	1.079	1.00	80.00	80.00	0.519	0.519	1.00
18	20:11	1.00	1.077	1.00	80.00	80.00	1.161	1.161	1.00
19	20:18	1.00	1.084	1.00	80.00	80.00	0.261	0.261	1.00
20	17:01	1.00	0.908	1.00	80.00	80.00	1.213	1.213	1.00
21	20:48	1.00	1.111	1.00	80.00	80.00	0.206	0.206	1.00

RIC
11/13/90 16:30:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801113 #1
CALI: HSD801113 #3

SCANS 2000 TO 2600



000270

Quantitation Report File: HSD801113

000271

Data: HSD801113.TI
11/13/90 16:30:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: LA Acct. No.: HSD80111

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

No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

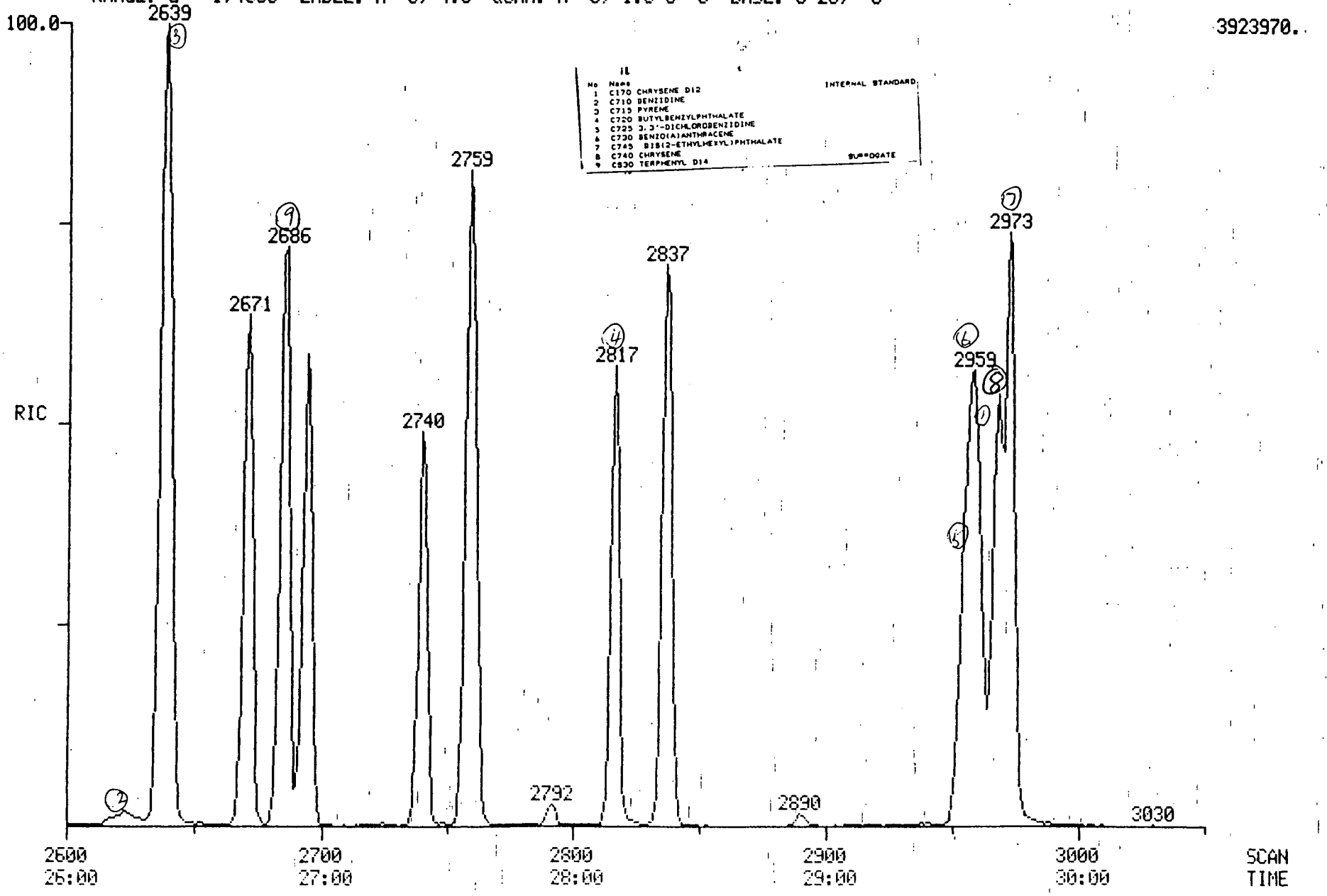
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2262	22:37	1	1.000	A BV	1609290.	40.000 UG/ML	4.76
2	198	2037	20:22	1	0.901	A BB	716312.	80.000 UG/ML	9.52
3	169	2054	20:32	1	0.908	A BB	2947510.	80.000 UG/ML	9.52
4	77	2063	20:38	1	0.912	A VB	5098100.	80.000 NG	9.52
5	248	2148	21:29	1	0.950	A BB	1118260.	80.000 UG/ML	9.52
6	284	2160	21:36	1	0.955	A BB	1349810.	80.000 UG/ML	9.52
7	266	2214	22:08	1	0.979	A BB	759395.	80.000 UG/ML	9.52
8	178	2269	22:41	1	1.003	A BV	5613730.	80.000 UG/ML	9.52
9	178	2283	22:50	1	1.009	A VB	5774800.	80.000 UG/ML	9.52
10	149	2425	24:15	1	1.072	A VB	6635990.	80.000 UG/ML	9.52
11	202	2580	25:48	1	1.141	A BB	4944580.	80.000 UG/ML	9.52

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:22	1.00	0.901	1.00	80.00	80.00	0.223	0.223	1.00
3	20:32	1.00	0.908	1.00	80.00	80.00	0.916	0.916	1.00
4	20:38	1.00	0.912	1.00	80.00	80.00	1.584	1.584	1.00
5	21:29	1.00	0.950	1.00	80.00	80.00	0.347	0.347	1.00
6	21:36	1.00	0.955	1.00	80.00	80.00	0.419	0.419	1.00
7	22:08	1.00	0.979	1.00	80.00	80.00	0.236	0.236	1.00
8	22:41	1.00	1.003	1.00	80.00	80.00	1.744	1.744	1.00
9	22:50	1.00	1.009	1.00	80.00	80.00	1.794	1.794	1.00
10	24:15	1.00	1.072	1.00	80.00	80.00	2.062	2.062	1.00
11	25:48	1.00	1.141	1.00	80.00	80.00	1.536	1.536	1.00

RIC
11/13/90 16:30:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801113 #1
CALI: HSD801113 #3

SCANS 2600 TO 3050



No	Name
1	C170 CHRYSENE D12
2	C710 BENZIDINE
3	C715 PYRENE
4	C720 BUTYLBENZYLPHTHALATE
5	C725 3,3'-DICHLORDBENZIDINE
6	C730 BENZO(A)ANTHRACENE
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE
8	C740 CHRYSENE
9	C830 TERPHENYL D14

000272

Quantitation Report File: HSD801113

Data: HSD801113.TI
11/13/90 16:30:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80111

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

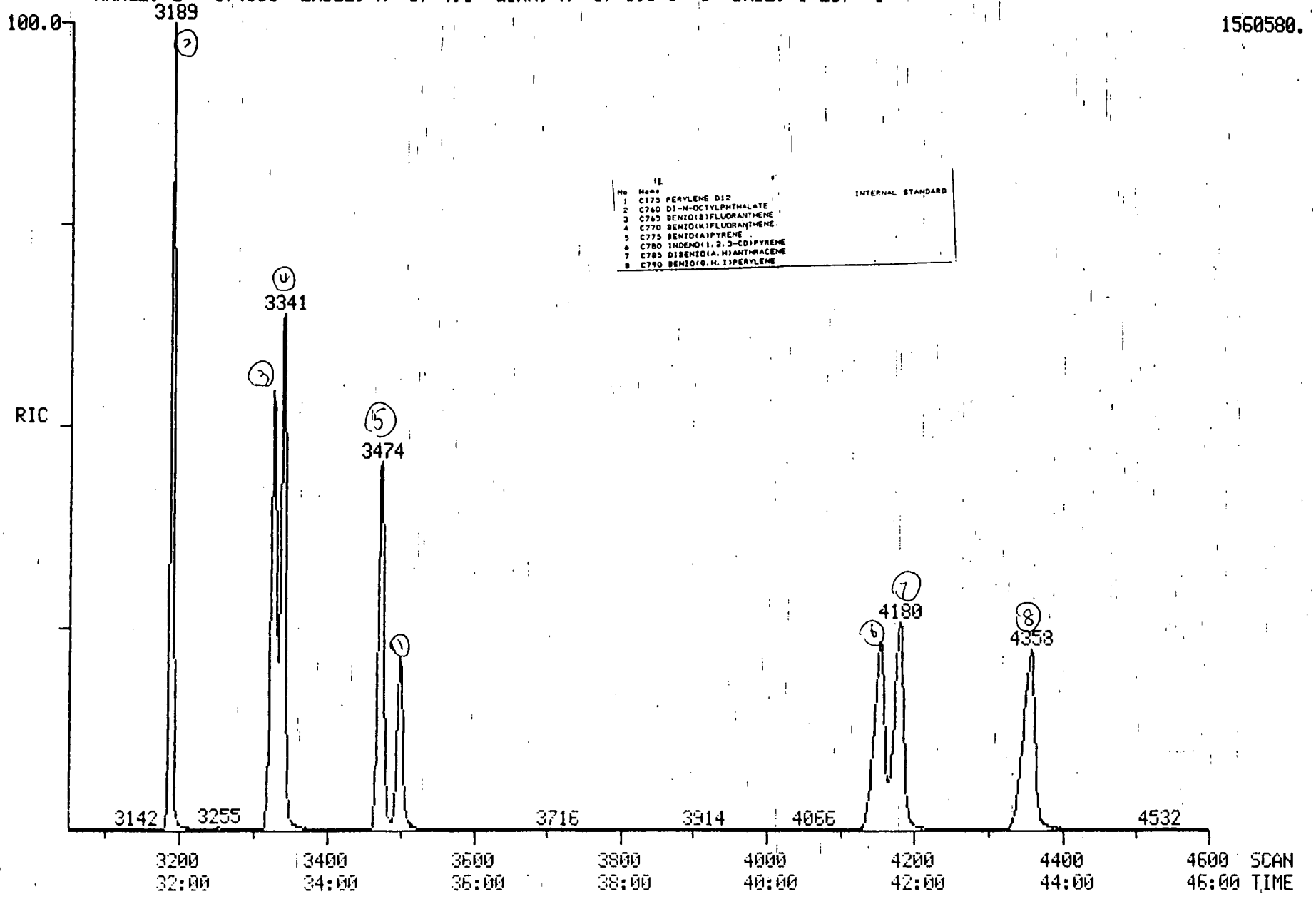
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2961	29:37	1	1.000	A BB	1545010.	40.000 UG/ML	5.88
2	184	2623	26:14	1	0.886	A BV	165498.	80.000 UG/ML	11.76
3	202	2640	26:24	1	0.892	A BB	4985360.	80.000 UG/ML	11.76
4	149	2817	28:10	1	0.951	A BB	2146780.	80.000 UG/ML	11.76
5	252	2954	29:32	1	0.998	A BB	723526.	80.000 UG/ML	11.76
6	228	2958	29:35	1	0.999	A BV	3534880.	80.000 UG/ML	11.76
7	149	2973	29:44	1	1.004	A BB	3320600.	80.000 UG/ML	11.76
8	228	2968	29:41	1	1.002	A BB	2849250.	80.000 UG/ML	11.76
9	244	2685	26:51	1	0.907	A BV	4005500.	80.000 UG/ML	11.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:14	1.00	0.886	1.00	80.00	80.00	0.054	0.054	1.00
3	26:24	1.00	0.892	1.00	80.00	80.00	1.613	1.613	1.00
4	28:10	1.00	0.951	1.00	80.00	80.00	0.695	0.695	1.00
5	29:32	1.00	0.998	1.00	80.00	80.00	0.234	0.234	1.00
6	29:35	1.00	0.999	1.00	80.00	80.00	1.144	1.144	1.00
7	29:44	1.00	1.004	1.00	80.00	80.00	1.075	1.075	1.00
8	29:41	1.00	1.002	1.00	80.00	80.00	0.922	0.922	1.00
9	26:51	1.00	0.907	1.00	80.00	80.00	1.296	1.296	1.00

RIC
11/13/90 16:30:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801113 #1
CALI: HSD801113 #3

SCANS 3050 TO 4600



No	Name		
1	C175	PERYLENE D12	INTERNAL STANDARD
2	C760	DI-N-OCTYLPHTHALATE	
3	C765	BENZO(B)FLUORANTHENE	
4	C770	BENZO(K)FLUORANTHENE	
5	C775	BENZO(A)PYRENE	
6	C780	INDENO(1,2,3-CD)PYRENE	
7	C785	DIBENZO(A,H)ANTHRACENE	
8	C790	BENZO(G,H,I)PERYLENE	

000274

Quantitation Report Fil : HSD801113

Data: HSD801113.TI
11/13/90 16:30:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: HSD80111

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

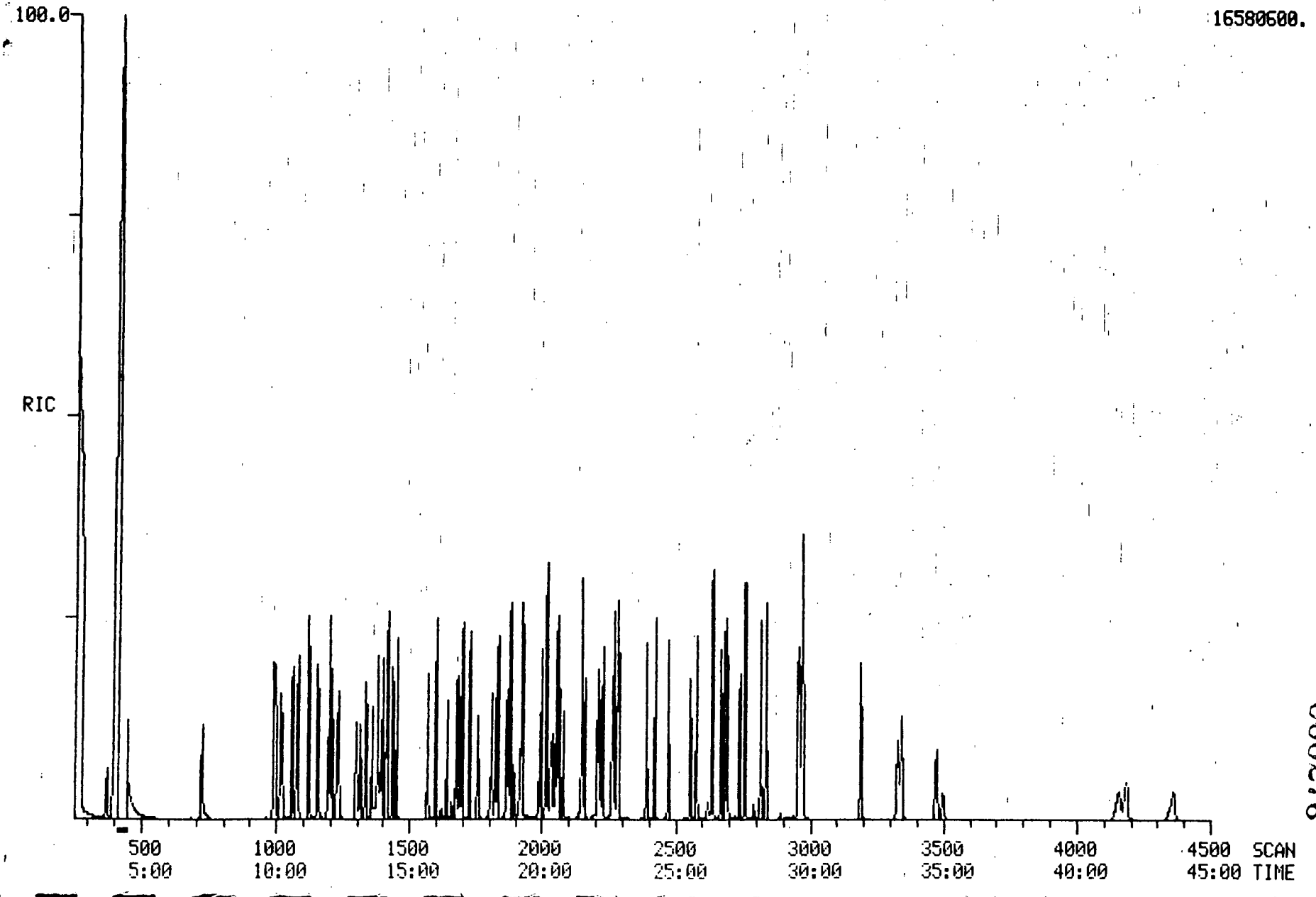
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3499	34:59	1	1.000	A BB	876369.	40.000 UG/ML	6.67
2	149	3189	31:53	1	0.911	A BB	4102930.	80.000 UG/ML	13.33
3	252	3328	33:17	1	0.951	A BV	2277070.	80.000 UG/ML	13.33
4	252	3340	33:24	1	0.955	A VB	2201490.	80.000 UG/ML	13.33
5	252	3474	34:44	1	0.993	A BB	2080270.	80.000 UG/NL	13.33
6	276	4154	41:32	1	1.187	A BB	1402780.	80.000 UG/ML	13.33
7	278	4180	41:48	1	1.195	A BB	1458370.	80.000 UG/ML	13.33
8	276	4358	43:35	1	1.245	A BB	1364860.	80.000 UG/ML	13.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:53	1.00	0.911	1.00	80.00	80.00	2.341	2.341	1.00
3	33:17	1.00	0.951	1.00	80.00	80.00	1.299	1.299	1.00
4	33:24	1.00	0.955	1.00	80.00	80.00	1.256	1.256	1.00
5	34:44	1.00	0.993	1.00	80.00	80.00	1.187	1.187	1.00
6	41:32	1.00	1.187	1.00	80.00	80.00	0.800	0.800	1.00
7	41:48	1.00	1.195	1.00	80.00	80.00	0.832	0.832	1.00
8	43:35	1.00	1.245	1.00	80.00	80.00	0.779	0.779	1.00

RIC
11/13/90 17:22:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

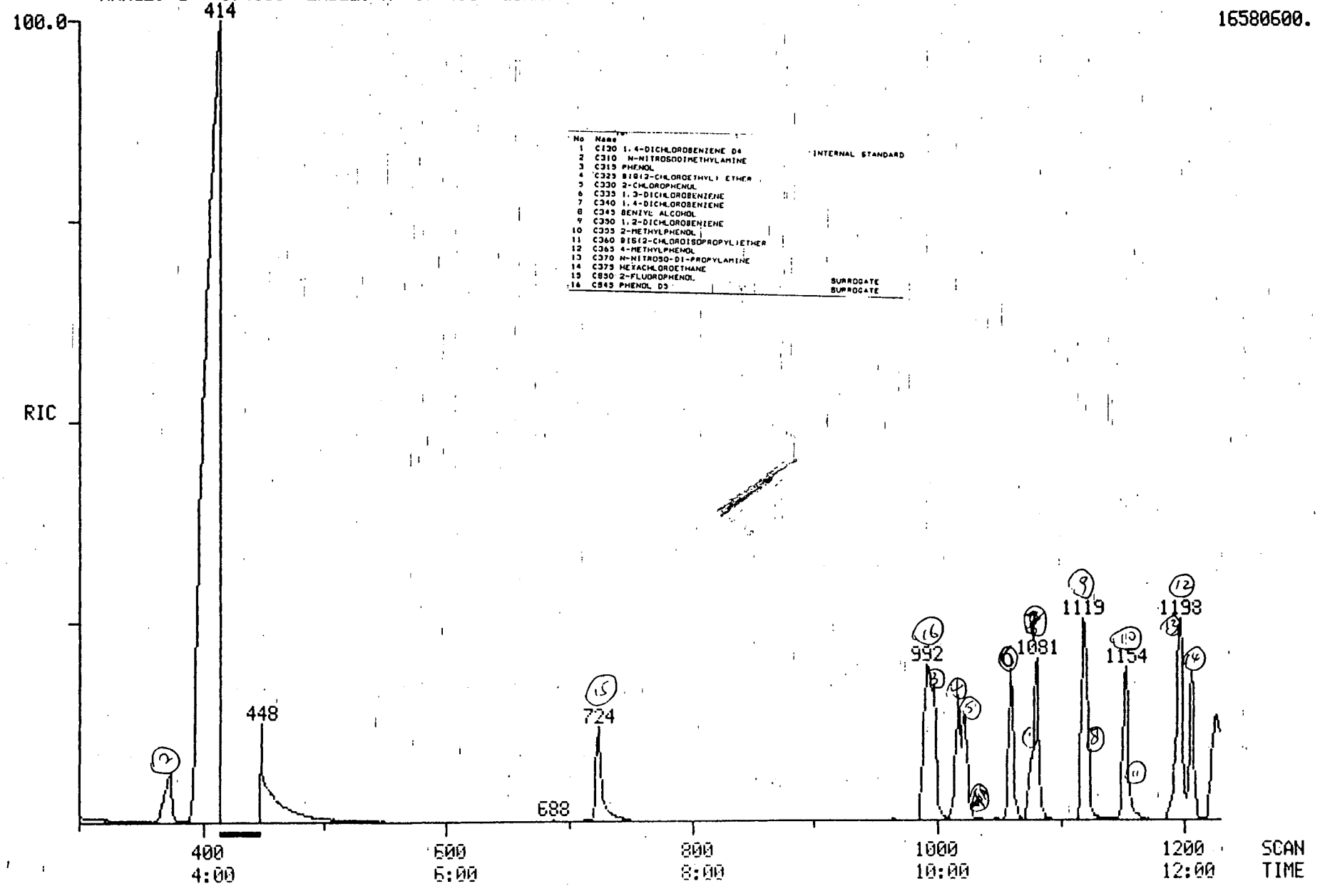
DATA: HSD1201113 #1 SCANS 250 TO 4500
CALI: CALTAB #3



000276

RIC
11/13/90 17:22:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201113 #1 SCANS 300 TO 1230
CALI: HSD1201113 #3



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C323 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C850 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000277

Quantitation Report File: HSD1201113

Data: HSD1201113.TI
11/13/90 17:22:00
Sample: HSL-D STAND 11/13/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

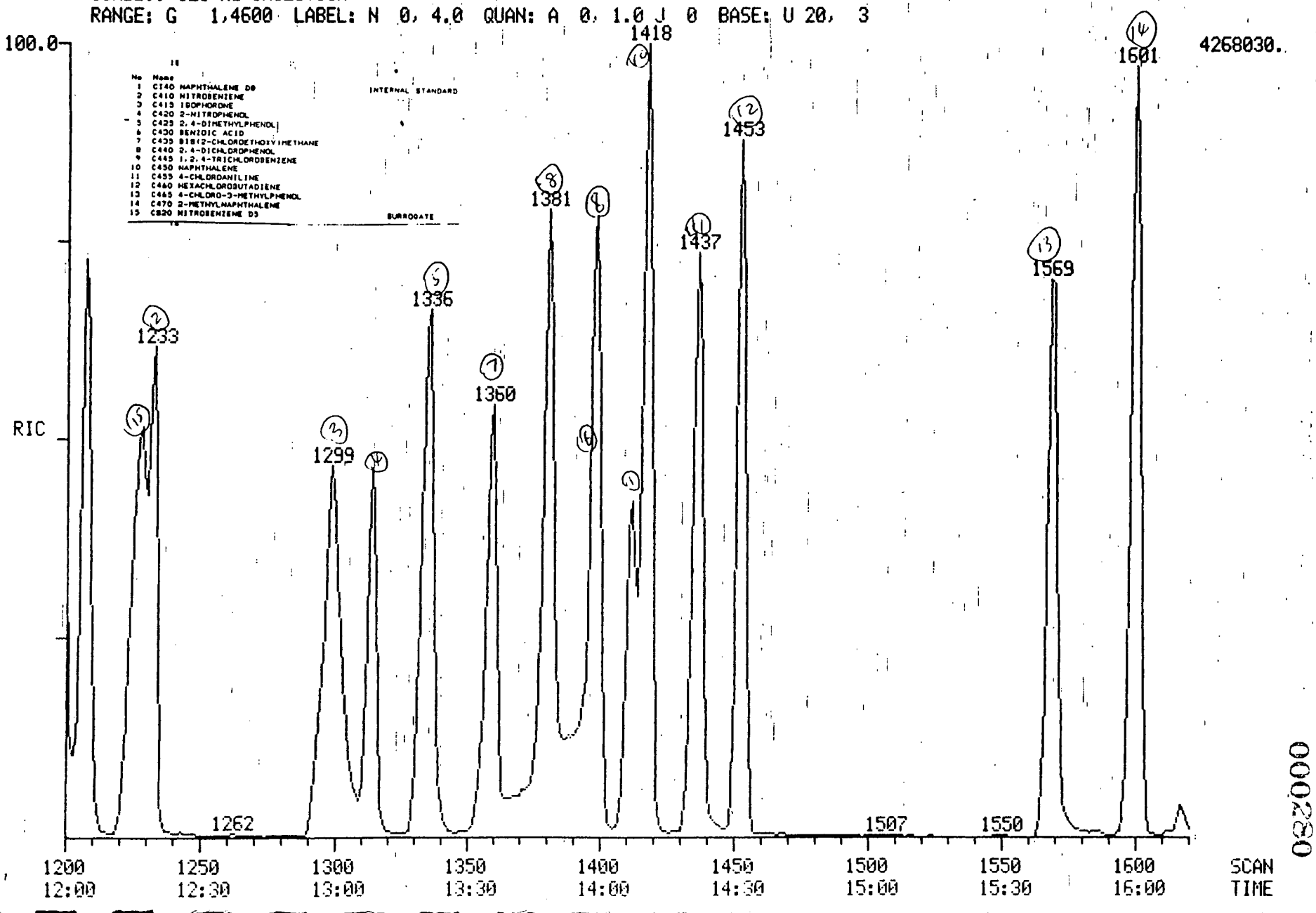
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1076	10:46	1	1.000	A BB	883440.	40.000 UG/ML	2.17
2	74	374	3:44	1	0.348	A BB	3024250.	120.000 UG	6.52
3	94	998	9:59	1	0.928	A BB	4142540.	120.000 UG/ML	6.52
4	93	1017	10:10	1	0.945	A BB	3337500.	120.000 UG/ML	6.52
5	128	1022	10:13	1	0.950	A BB	3535790.	120.000 UG/ML	6.52
6	146	1060	10:36	1	0.985	A BB	3520880.	120.000 UG/ML	6.52
7	146	1081	10:49	1	1.005	A BB	3551130.	120.000 UG/ML	6.52
8	108	1122	11:13	1	1.043	A BB	2006890.	120.000 UG/ML	6.52
9	146	1119	11:11	1	1.040	A BB	3122140.	120.000 UG/ML	6.52
10	108	1154	11:32	1	1.072	A BB	3079250.	120.000 UG/ML	6.52
11	45	1157	11:34	1	1.075	A*BB	224604.	120.000 UG/ML	6.52
12	108	1198	11:59	1	1.113	A BB	2535460.	120.000 UG/ML	6.52
13	70	1197	11:58	1	1.112	A BB	2805830.	120.000 UG/ML	6.52
14	117	1207	12:04	1	1.122	A BB	1618080.	120.000 UG/ML	6.52
15	112	724	7:14	1	0.673	A BB	2988510.	120.000 UG/L	6.52
16	99	993	9:56	1	0.923	A BB	3254000.	120.000 UG/ML	6.52

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:44	1.00	0.348	1.00	120.00	120.00	1.141	1.141	1.00
3	9:59	1.00	0.928	1.00	120.00	120.00	1.563	1.563	1.00
4	10:10	1.00	0.945	1.00	120.00	120.00	1.259	1.259	1.00
5	10:13	1.00	0.950	1.00	120.00	120.00	1.334	1.334	1.00
6	10:36	1.00	0.985	1.00	120.00	120.00	1.328	1.328	1.00
7	10:49	1.00	1.005	1.00	120.00	120.00	1.340	1.340	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Rati
8	11:13	1.00	1.043	1.00	120.00	120.00	0.757	0.757	1.00
9	11:11	1.00	1.040	1.00	120.00	120.00	1.178	1.178	1.00
10	11:32	1.00	1.072	1.00	120.00	120.00	1.162	1.162	1.00
11	11:34	1.00	1.075	1.00	120.00	120.00	0.085	0.085	1.00
12	11:59	1.00	1.113	1.00	120.00	120.00	0.957	0.957	1.00
13	11:58	1.00	1.112	1.00	120.00	120.00	1.059	1.059	1.00
14	12:04	1.00	1.122	1.00	120.00	120.00	0.611	0.611	1.00
15	7:14	1.00	0.673	1.00	120.00	120.00	1.128	1.128	1.00
16	9:56	1.00	0.923	1.00	120.00	120.00	1.228	1.228	1.00

RIC
11/13/90 17:22:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201113 #1 SCANS 1200 TO 1620
CALI: HSD1201113 #3



000280

Quantitation Report File: HSD1201113

Data: HSD1201113.TI
11/13/90 17:22:00
Sample: HSL-D STAND 11/13/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD12011

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

No	Name	
1	CI40 NAPHTHALENE_D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	136	1412	14:07	1	1.000	A BB	3450090.	40.000	UG/ML	2.33
2	77	1233	12:20	1	0.873	A BV	3720180.	120.000	UG/ML	6.98
3	82	1299	12:59	1	0.920	A BB	7094760.	120.000	UG/ML	6.98
4	139	1314	13:08	1	0.931	A BB	1551180.	120.000	UG/ML	6.98
5	122	1336	13:22	1	0.946	A BB	2632880.	120.000	UG/ML	6.98
6	122	1393	13:56	1	0.987	A BB	1718320.	120.000	UG/ML	6.98
7	93	1360	13:36	1	0.963	A BB	3739550.	120.000	UG/ML	6.98
8	162	1381	13:49	1	0.978	A BB	2650180.	120.000	UG/ML	6.98
9	180	1399	13:59	1	0.991	A VB	2927520.	120.000	UG/ML	6.98
10	128	1418	14:11	1	1.004	A BB	7831150.	120.000	UG/ML	6.98
11	127	1437	14:22	1	1.018	A BB	3926060.	120.000	UG/ML	6.98
12	225	1453	14:32	1	1.029	A BV	1710260.	120.000	UG/ML	6.98
13	107	1569	15:41	1	1.111	A BB	2784490.	120.000	UG/ML	6.98
14	142	1601	16:01	1	1.134	A BB	4909230.	120.000	UG/ML	6.98
15	82	1227	12:16	1	0.869	A BB	4165500.	120.000	UG/ML	6.98

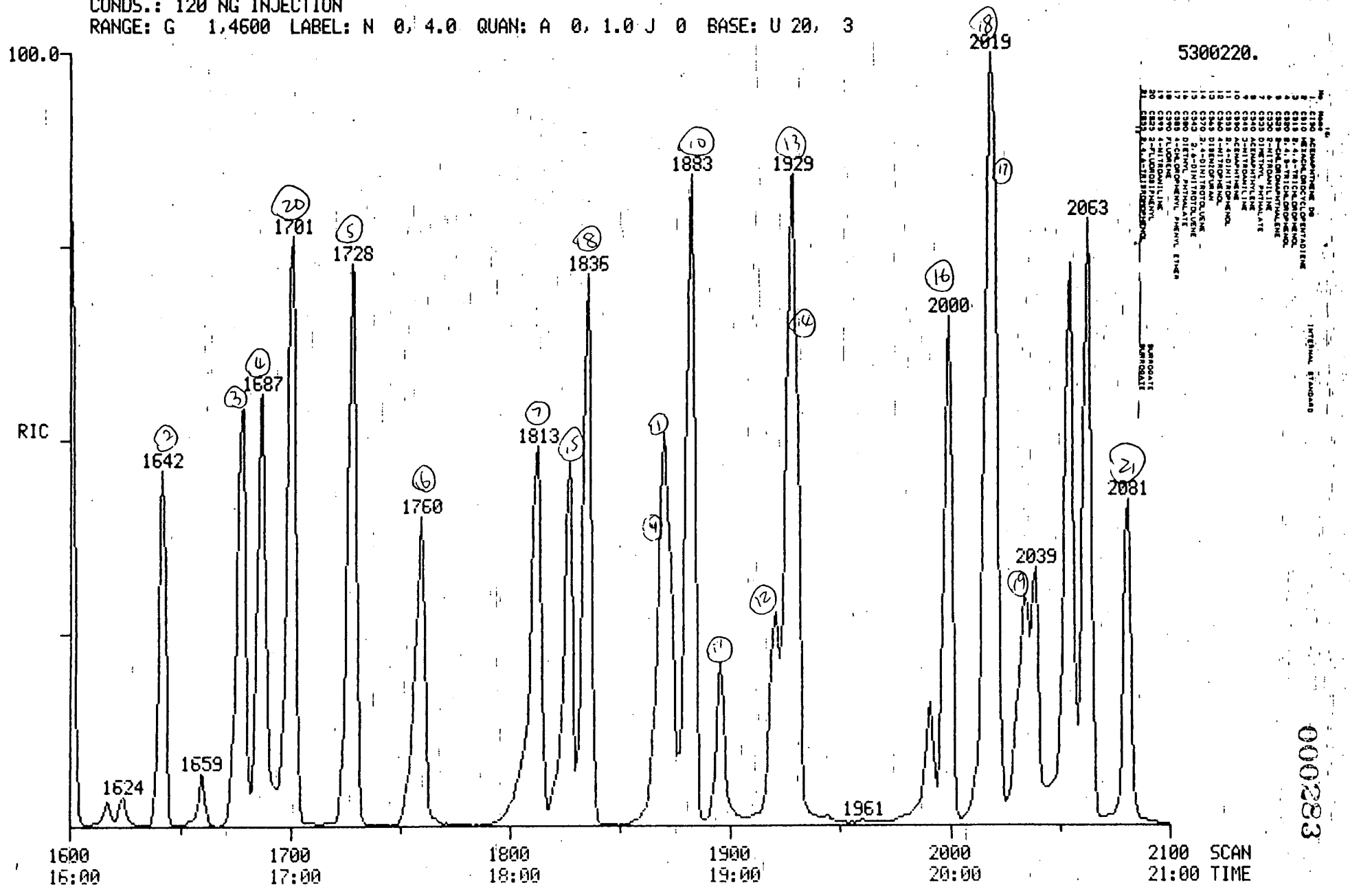
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:20	1.00	0.873	1.00	120.00	120.00	0.359	0.359	1.00
3	12:59	1.00	0.920	1.00	120.00	120.00	0.685	0.685	1.00
4	13:08	1.00	0.931	1.00	120.00	120.00	0.150	0.150	1.00
5	13:22	1.00	0.946	1.00	120.00	120.00	0.254	0.254	1.00
6	13:56	1.00	0.987	1.00	120.00	120.00	0.166	0.166	1.00
7	13:36	1.00	0.963	1.00	120.00	120.00	0.361	0.361	1.00
8	13:49	1.00	0.978	1.00	120.00	120.00	0.256	0.256	1.00
9	13:59	1.00	0.991	1.00	120.00	120.00	0.283	0.283	1.00

No	Ret(L)	Ratio	RRT(L)	Rati	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:11	1.00	1.004	1.00	120.00	120.00	0.757	0.757	1.00
11	14:22	1.00	1.018	1.00	120.00	120.00	0.379	0.379	1.00
12	14:32	1.00	1.029	1.00	120.00	120.00	0.165	0.165	1.00
13	15:41	1.00	1.111	1.00	120.00	120.00	0.269	0.269	1.00
14	16:01	1.00	1.134	1.00	120.00	120.00	0.474	0.474	1.00
15	12:16	1.00	0.869	1.00	120.00	120.00	0.402	0.402	1.00

RIC
11/13/90 17:22:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201113 #1
CALI: HSD1201113 #3

SCANS 1600 TO 2100



000283

Quantitation Report File: HSD1201113

000284

Data: HSD1201113.TI
11/13/90 17:22:00
Sample: HSL-D STAND 11/13/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

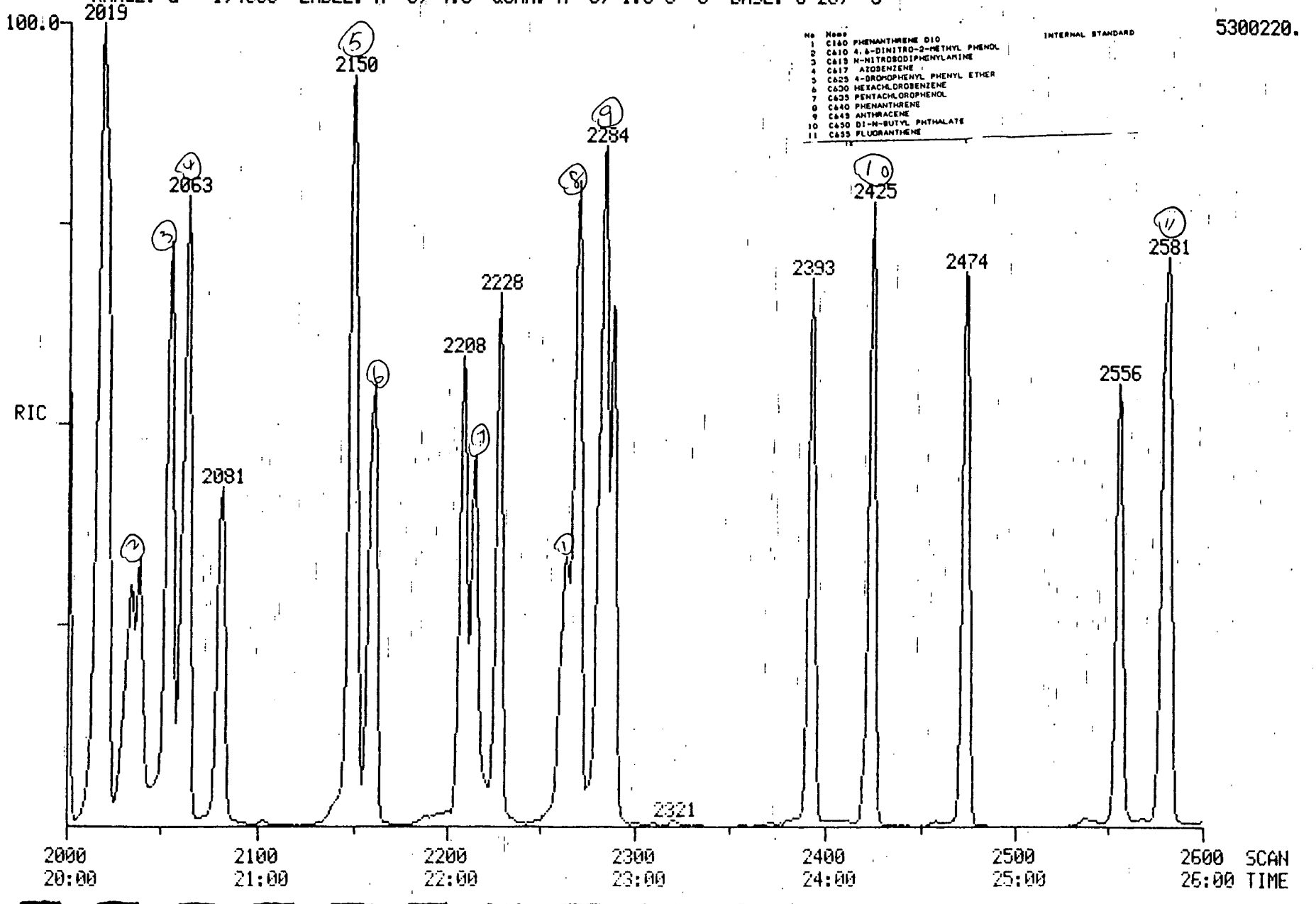
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1873	18:44	1	1.000	A BV	1887860.	40.000 UG/ML	1.64
2	237	1642	16:25	1	0.877	A BB	1310590.	120.000 UG/ML	4.92
3	196	1677	16:46	1	0.895	A BV	1854450.	120.000 UG/ML	4.92
4	196	1686	16:52	1	0.900	A VB	2089950.	120.000 UG/ML	4.92
5	162	1728	17:17	1	0.923	A BB	5331280.	120.000 UG/ML	4.92
6	65	1760	17:36	1	0.940	A BB	2156730.	120.000 UG/ML	4.92
7	163	1813	18:08	1	0.968	A BB	6662320.	120.000 UG/ML	4.92
8	152	1836	18:22	1	0.980	A BB	7854540.	120.000 UG/ML	4.92
9	138	1870	18:42	1	0.998	A BB	1808470.	120.000 UG/ML	4.92
10	154	1883	18:50	1	1.005	A BV	4908320.	120.000 UG/ML	4.92
11	184	1896	18:58	1	1.012	A BB	697012.	120.000 UG/ML	4.92
12	109	1920	19:12	1	1.025	A BB	752132.	120.000 UG/ML	4.92
13	168	1928	19:17	1	1.029	A BB	6872170.	120.000 UG/ML	4.92
14	165	1931	19:19	1	1.031	A VB	2020550.	120.000 UG/ML	4.92
15	165	1827	18:16	1	0.975	A VB	1633050.	120.000 UG/ML	4.92
16	149	2000	20:00	1	1.068	A BB	6379820.	120.000 UG/ML	4.92
17	204	2021	20:13	1	1.079	A BB	2375470.	120.000 UG/ML	4.92
18	166	2018	20:11	1	1.077	A BB	5611440.	120.000 UG/ML	4.92
19	138	2034	20:20	1	1.086	A VB	1506380.	120.000 UG/ML	4.92
20	172	1701	17:01	1	0.908	A BB	5672740.	120.000 UG/ML	4.92
21	330	2081	20:49	1	1.111	A BB	1012440.	120.000 UG/ML	4.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25	1.00	0.877	1.00	120.00	120.00	0.231	0.231	1.00
3	16:46	1.00	0.895	1.00	120.00	120.00	0.327	0.327	1.00
4	16:52	1.00	0.900	1.00	120.00	120.00	0.369	0.369	1.00
5	17:17	1.00	0.923	1.00	120.00	120.00	0.941	0.941	1.00
6	17:36	1.00	0.940	1.00	120.00	120.00	0.381	0.381	1.00
7	18:08	1.00	0.968	1.00	120.00	120.00	1.176	1.176	1.00
8	18:22	1.00	0.980	1.00	120.00	120.00	1.387	1.387	1.00
9	18:42	1.00	0.998	1.00	120.00	120.00	0.319	0.319	1.00
10	18:50	1.00	1.005	1.00	120.00	120.00	0.867	0.867	1.00
11	18:58	1.00	1.012	1.00	120.00	120.00	0.123	0.123	1.00
12	19:12	1.00	1.025	1.00	120.00	120.00	0.133	0.133	1.00
13	19:17	1.00	1.029	1.00	120.00	120.00	1.213	1.213	1.00
14	19:19	1.00	1.031	1.00	120.00	120.00	0.357	0.357	1.00
15	18:16	1.00	0.975	1.00	120.00	120.00	0.288	0.288	1.00
16	20:00	1.00	1.068	1.00	120.00	120.00	1.126	1.126	1.00
17	20:13	1.00	1.079	1.00	120.00	120.00	0.419	0.419	1.00
18	20:11	1.00	1.077	1.00	120.00	120.00	0.991	0.991	1.00
19	20:20	1.00	1.086	1.00	120.00	120.00	0.266	0.266	1.00
20	17:01	1.00	0.908	1.00	120.00	120.00	1.002	1.002	1.00
21	20:49	1.00	1.111	1.00	120.00	120.00	0.179	0.179	1.00

RIC
11/13/90 17:22:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201113 #1
CALI: HSD1201113 #3

SCANS 2000 TO 2600



5300220.

0002286

Quantitation Report File: HSD1201113

Data: HSD1201113.TI
11/13/90 17:22:00
Sample: HSL-D STAND 11/13/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

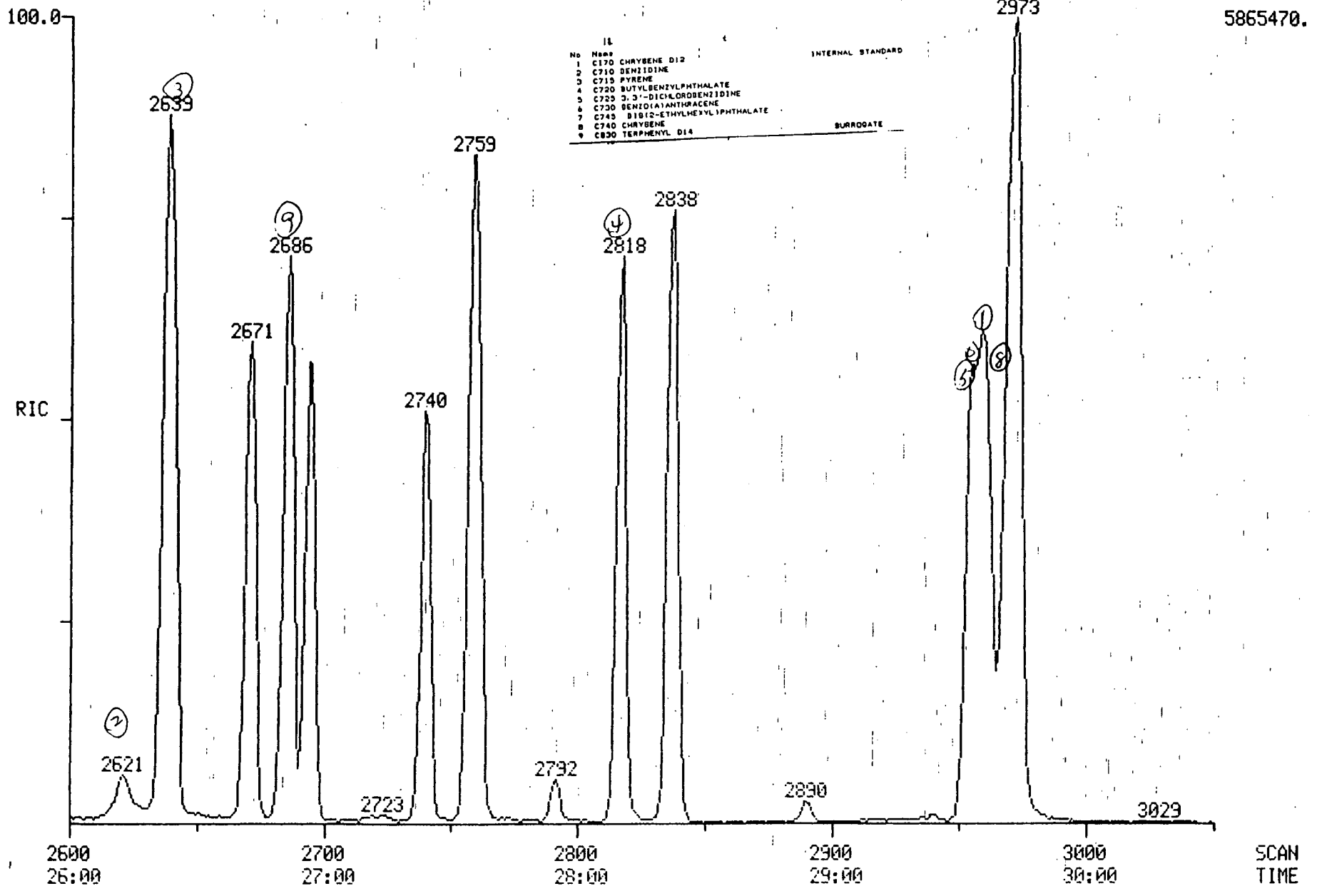
No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	188	2262	22:37	1	1.000	A BB	1773810.	40.000	UG/ML	3.23
2	198	2039	20:23	1	0.901	A BB	1132350.	120.000	UG/ML	9.68
3	169	2055	20:33	1	0.908	A BB	4515810.	120.000	UG/ML	9.68
4	77	2063	20:38	1	0.912	A VB	7693180.	120.000	NG	9.68
5	248	2149	21:29	1	0.950	A BV	1544720.	120.000	UG/ML	9.68
6	284	2161	21:37	1	0.955	A BB	2007720.	120.000	UG/ML	9.68
7	266	2214	22:08	1	0.979	A BB	1304200.	120.000	UG/ML	9.68
8	178	2270	22:42	1	1.004	A BV	8316420.	120.000	UG/ML	9.68
9	178	2283	22:50	1	1.009	A VB	8111100.	120.000	UG/ML	9.68
10	149	2425	24:15	1	1.072	A BB	9401950.	120.000	UG/ML	9.68
11	202	2581	25:49	1	1.141	A BB	7546250.	120.000	UG/ML	9.68

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:23	1.00	0.901	1.00	120.00	120.00	0.213	0.213	1.00
3	20:33	1.00	0.908	1.00	120.00	120.00	0.849	0.849	1.00
4	20:38	1.00	0.912	1.00	120.00	120.00	1.446	1.446	1.00
5	21:29	1.00	0.950	1.00	120.00	120.00	0.290	0.290	1.00
6	21:37	1.00	0.955	1.00	120.00	120.00	0.377	0.377	1.00
7	22:08	1.00	0.979	1.00	120.00	120.00	0.245	0.245	1.00
8	22:42	1.00	1.004	1.00	120.00	120.00	1.563	1.563	1.00
9	22:50	1.00	1.009	1.00	120.00	120.00	1.524	1.524	1.00
10	24:15	1.00	1.072	1.00	120.00	120.00	1.767	1.767	1.00
11	25:49	1.00	1.141	1.00	120.00	120.00	1.418	1.418	1.00

RIC
11/13/90 17:22:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201113 #1 SCANS 2600 TO 3050
CALI: HSD1201113 #3



No	Name	
1	C170	CHRYSENE D12
2	C710	BENZIDINE
3	C715	PYRENE
4	C720	BUTYLBENZYLPHTHALATE
5	C725	3,3'-DICHLOROBENZIDINE
6	C730	BENZO(A)ANTHRACENE
7	C745	BIS(2-ETHYLHEXYL)PHTHALATE
8	C740	CHRYSENE
9	C830	TERPHENYL D14

000228

Quantitation Report File: HSD1201113

Data: HSD1201113.TI
11/13/90 17:22:00
Sample: HSL-D STAND 11/13/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

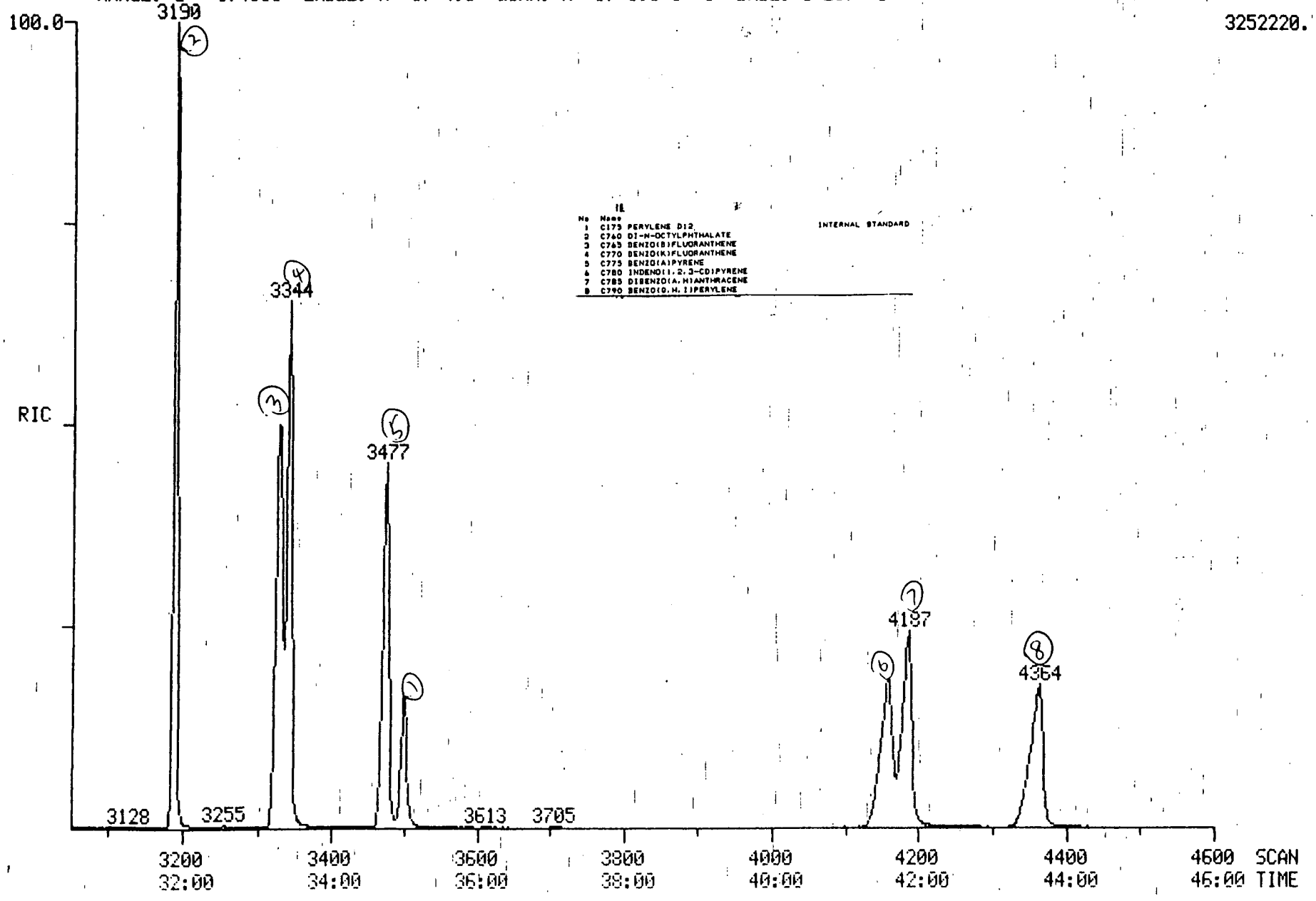
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	240	2962	29:37	1	1.000	A BB	2306490.	40.000	UG/ML	4.00
2	184	2621	26:13	1	0.885	A BB	654015.	120.000	UG/ML	12.00
3	202	2641	26:25	1	0.892	A VB	7381100.	120.000	UG/ML	12.00
4	149	2818	28:11	1	0.951	A BB	4240890.	120.000	UG/ML	12.00
5	252	2954	29:32	1	0.997	A BB	1748000.	120.000	UG/ML	12.00
6	228	2959	29:35	1	0.999	A BV	7099970.	120.000	UG/ML	12.00
7	149	2974	29:44	1	1.004	A BB	6314060.	120.000	UG/ML	12.00
8	228	2970	29:42	1	1.003	A BB	5617410.	120.000	UG/ML	12.00
9	244	2686	26:52	1	0.907	A BB	6177380.	120.000	UG/ML	12.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13	1.00	0.885	1.00	120.00	120.00	0.095	0.095	1.00
3	26:25	1.00	0.892	1.00	120.00	120.00	1.067	1.067	1.00
4	28:11	1.00	0.951	1.00	120.00	120.00	0.613	0.613	1.00
5	29:32	1.00	0.997	1.00	120.00	120.00	0.253	0.253	1.00
6	29:35	1.00	0.999	1.00	120.00	120.00	1.026	1.026	1.00
7	29:44	1.00	1.004	1.00	120.00	120.00	0.913	0.913	1.00
8	29:42	1.00	1.003	1.00	120.00	120.00	0.812	0.812	1.00
9	26:52	1.00	0.907	1.00	120.00	120.00	0.893	0.893	1.00

RIC
11/13/90 17:22:00
SAMPLE: HSL-D STAND 11/13/90
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201113 #1 SCANS 3050 TO 4600
CALI: HSD1201113 #3



000220

Quantitation Report File: HSD1201113

000291

Data: HSD1201113.TI
11/13/90 17:22:00
Sample: HSL-D STAND 11/13/90
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD12011

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

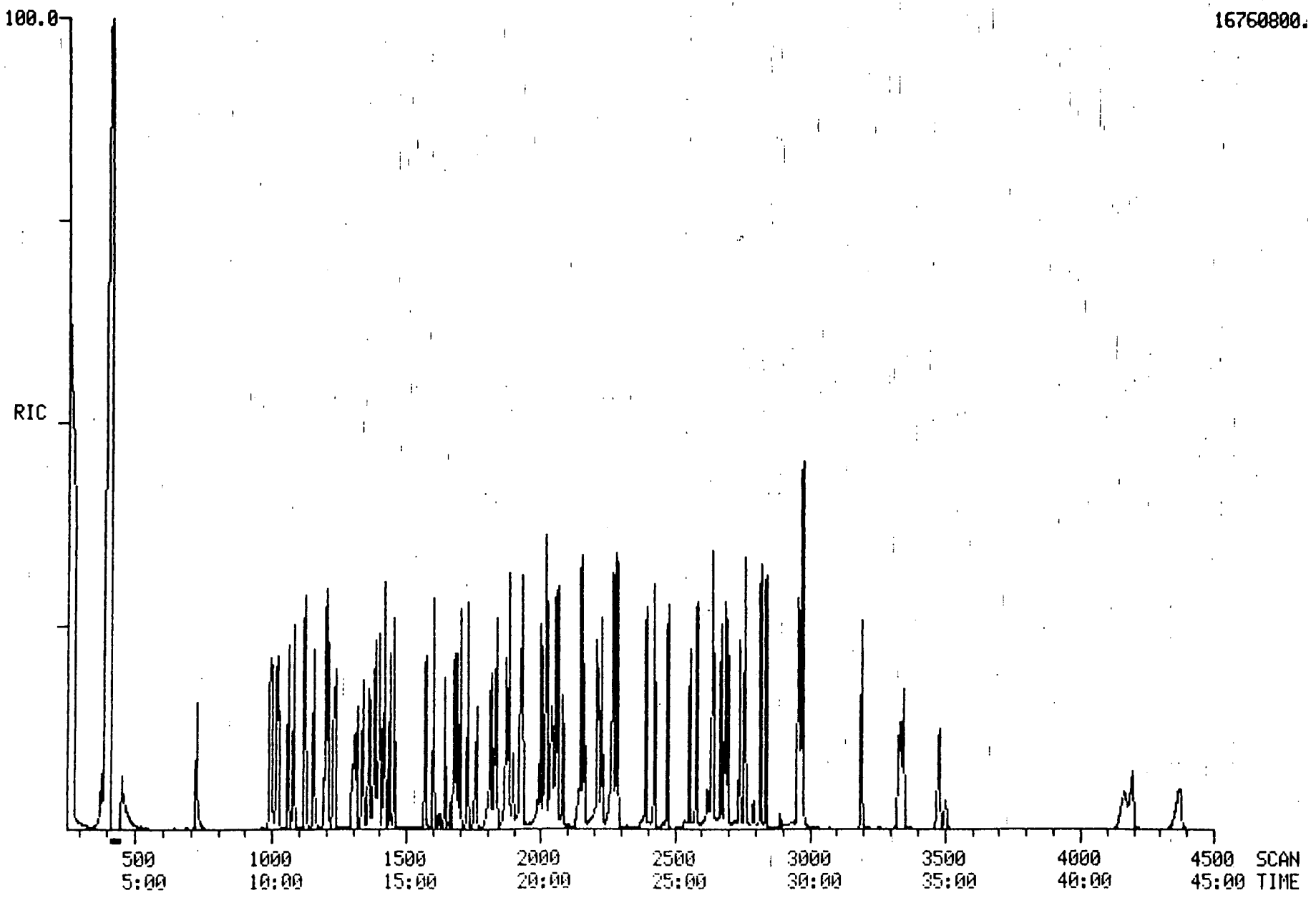
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3500	35:00	1	1.000	A BB	1294410.	40.000 UG/ML	4.55
2	149	3190	31:54	1	0.911	A BB	9011130.	120.000 UG/ML	13.64
3	252	3330	33:18	1	0.951	A BV	5106720.	120.000 UG/ML	13.64
4	252	3344	33:26	1	0.955	A VB	4421700.	120.000 UG/ML	13.64
5	252	3477	34:46	1	0.993	A BB	4429040.	120.000 UG/NL	13.64
6	276	4159	41:35	1	1.188	A BB	2165760.	120.000 UG/ML	13.64
7	278	4187	41:52	1	1.196	A BB	2779550.	120.000 UG/ML	13.64
8	276	4365	43:39	1	1.247	A BB	2090850.	120.000 UG/ML	13.64

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:54	1.00	0.911	1.00	120.00	120.00	2.321	2.321	1.00
3	33:18	1.00	0.951	1.00	120.00	120.00	1.315	1.315	1.00
4	33:26	1.00	0.955	1.00	120.00	120.00	1.139	1.139	1.00
5	34:46	1.00	0.993	1.00	120.00	120.00	1.141	1.141	1.00
6	41:35	1.00	1.188	1.00	120.00	120.00	0.558	0.558	1.00
7	41:52	1.00	1.196	1.00	120.00	120.00	0.716	0.716	1.00
8	43:39	1.00	1.247	1.00	120.00	120.00	0.538	0.538	1.00

RIC
11/13/90 14:32:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 160NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601113 #1 SCANS 250 TO 4500
CALI: CALTAB #3

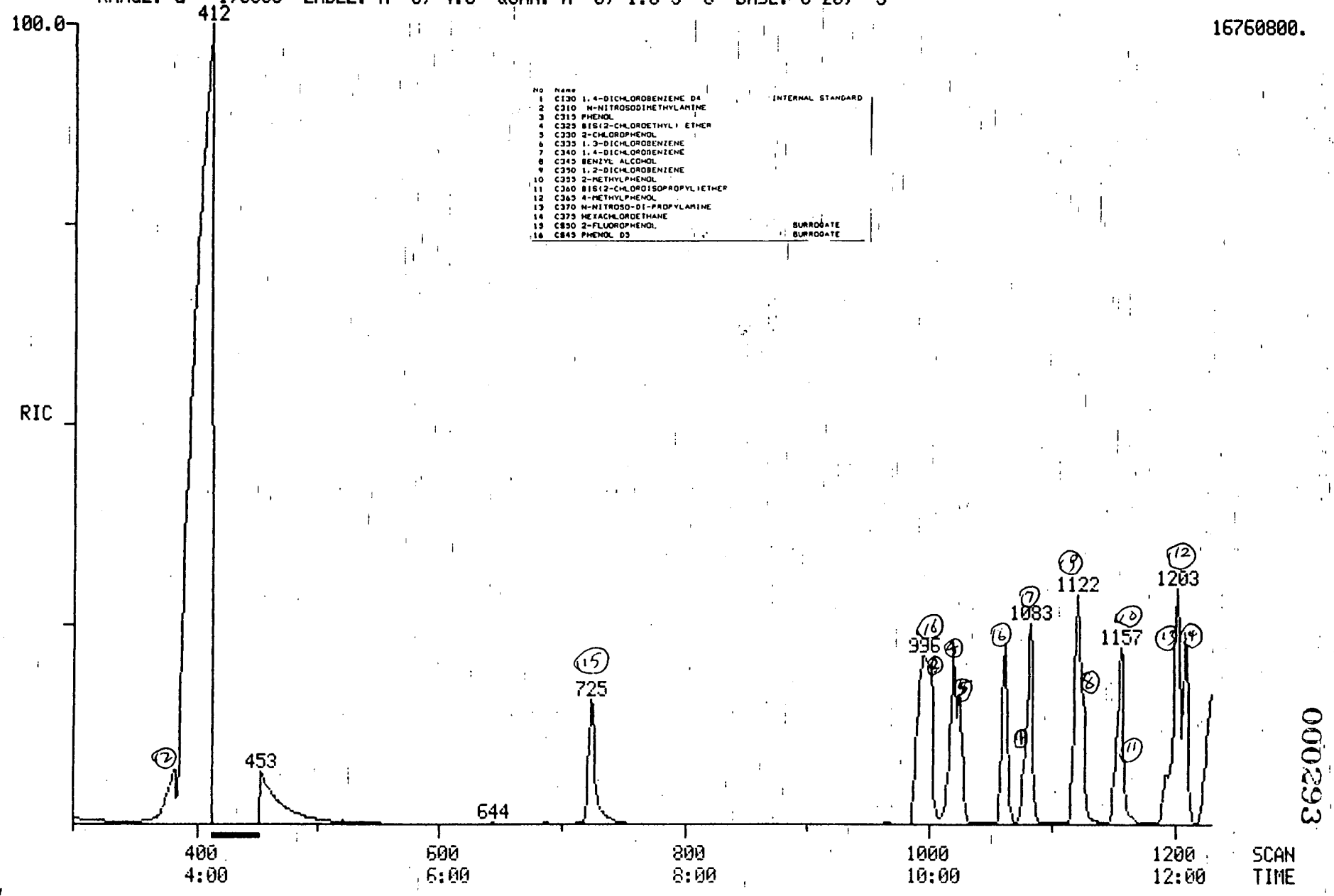


000292

RIC
11/13/90 14:32:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 160NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601113 #1
CALI: HSD1601113 #3

SCANS 300 TO 1230



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C850 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000293

Quantitation Report File: HSD1601113

000294

Data: HSD1601113.TI
11/13/90 14:32:00
Sample: HSL-D STANDARD 11/13/90
C nds.: 160NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

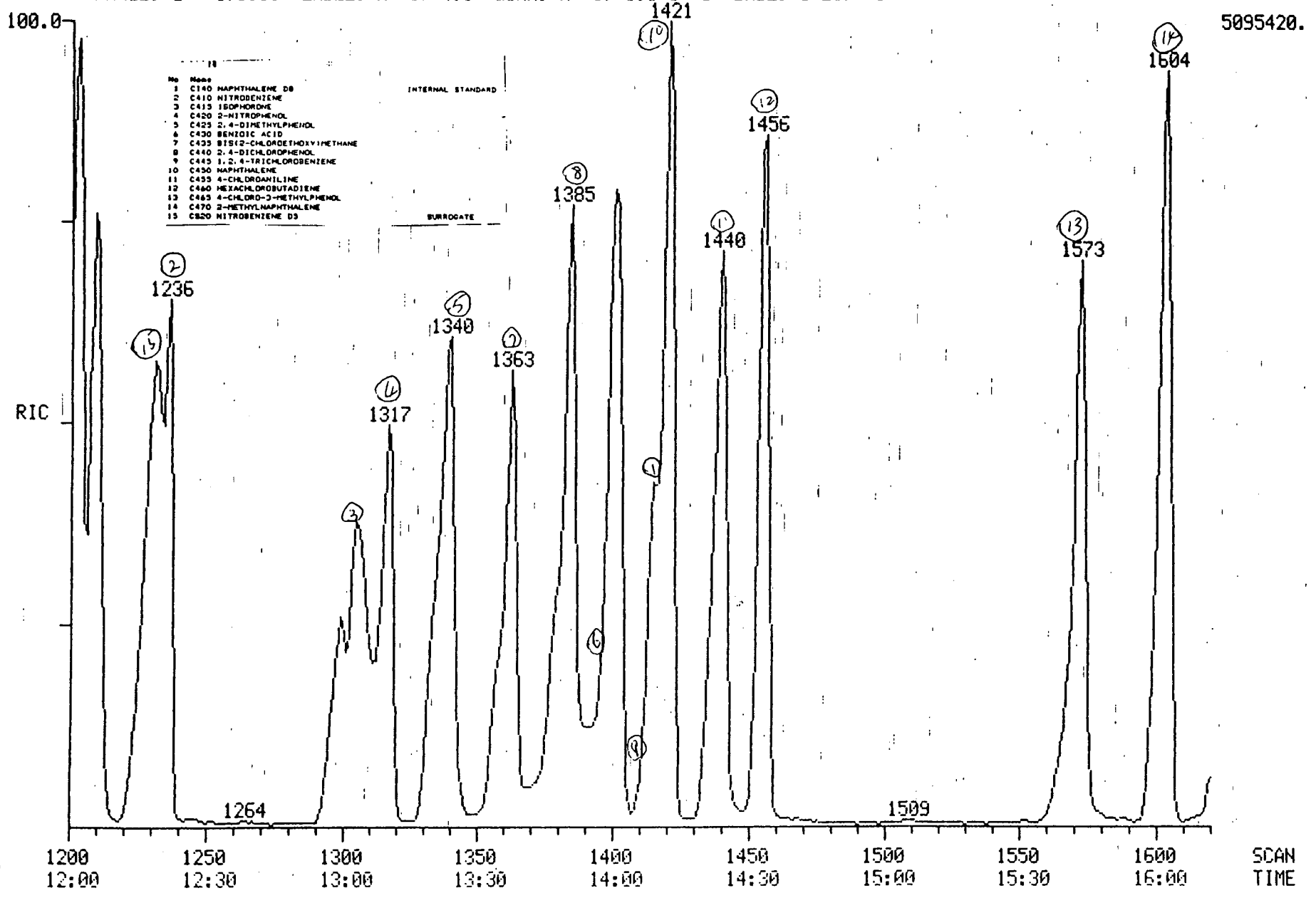
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	1078	10:47	1	1.000	A BB	971720.	40.000	UG/ML	1.64
2	74	382	3:49	1	0.354	A BB	3575420.	160.000	UG	6.56
3	94	1002	10:01	1	0.929	A BB	6041360.	160.000	UG/ML	6.56
4	93	1020	10:12	1	0.946	A BB	4740260.	160.000	UG/ML	6.56
5	128	1024	10:14	1	0.950	A BB	5060340.	160.000	UG/ML	6.56
6	146	1062	10:37	1	0.985	A BB	4926090.	160.000	UG/ML	6.56
7	146	1083	10:50	1	1.005	A BB	4735850.	160.000	UG/ML	6.56
8	108	1126	11:16	1	1.045	A BB	2948460.	160.000	UG/ML	6.56
9	146	1121	11:13	1	1.040	A BB	4218390.	160.000	UG/ML	6.56
10	108	1157	11:34	1	1.073	A BB	4508790.	160.000	UG/ML	6.56
11	45	1160	11:36	1	1.076	A*BB	338637.	160.000	UG/ML	6.56
12	108	1203	12:02	1	1.116	A*BB	3689620.	160.000	UG/ML	6.56
13	70	1200	12:00	1	1.113	A*BB	4002580.	160.000	UG/ML	6.56
14	117	1209	12:05	1	1.122	A BB	2289460.	160.000	UG/ML	6.56
15	112	725	7:15	1	0.673	A BB	4684370.	160.000	UG/L	6.56
16	99	998	9:59	1	0.926	A BB	4840520.	160.000	UG/ML	6.56

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:49	1.00	0.354	1.00	160.00	160.00	0.920	0.920	1.00
3	10:01	1.00	0.929	1.00	160.00	160.00	1.554	1.554	1.00
4	10:12	1.00	0.946	1.00	160.00	160.00	1.220	1.220	1.00
5	10:14	1.00	0.950	1.00	160.00	160.00	1.302	1.302	1.00
6	10:37	1.00	0.985	1.00	160.00	160.00	1.267	1.267	1.00
7	10:50	1.00	1.005	1.00	160.00	160.00	1.218	1.218	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:16	1.00	1.045	1.00	160.00	160.00	0.759	0.759	1.00
9	11:13	1.00	1.040	1.00	160.00	160.00	1.085	1.085	1.00
10	11:34	1.00	1.073	1.00	160.00	160.00	1.160	1.160	1.00
11	11:36	1.00	1.076	1.00	160.00	160.00	0.087	0.087	1.00
12	12:02	1.00	1.116	1.00	160.00	160.00	0.949	0.949	1.00
13	12:00	1.00	1.113	1.00	160.00	160.00	1.030	1.030	1.00
14	12:05	1.00	1.122	1.00	160.00	160.00	0.589	0.589	1.00
15	7:15	1.00	0.673	1.00	160.00	160.00	1.205	1.205	1.00
16	9:59	1.00	0.926	1.00	160.00	160.00	1.245	1.245	1.00

RIC
11/13/90 14:32:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 160NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601113 #1 SCANS 1200 TO 1620
CALI: HSD1601113 #3



000296

Quantitation Report File: HSD1601113

000297

Data: HSD1601113.TI
11/13/90 14:32:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 160NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1414	14:08	1	1.000	A BB	3704670.	40.000 UG/ML	1.75
2	77	1236	12:22	1	0.874	A BV	5332640.	160.000 UG/ML	7.02
3	82	1305	13:03	1	0.923	A*BB	8492160.	160.000 UG/ML	7.02
4	139	1317	13:10	1	0.931	A VB	2286630.	160.000 UG/ML	7.02
5	122	1340	13:24	1	0.948	A BB	4020480.	160.000 UG/ML	7.02
6	122	1397	13:58	1	0.988	A BB	1494140.	160.000 UG/ML	7.02
7	93	1363	13:38	1	0.964	A BB	5451400.	160.000 UG/ML	7.02
8	162	1385	13:51	1	0.979	A BB	3880300.	160.000 UG/ML	7.02
9	180	1401	14:01	1	0.991	A BB	3962830.	160.000 UG/ML	7.02
10	128	1421	14:13	1	1.005	A BB	11092100.	160.000 UG/ML	7.02
11	127	1440	14:24	1	1.018	A BB	5547200.	160.000 UG/ML	7.02
12	225	1455	14:33	1	1.029	A BB	2247200.	160.000 UG/ML	7.02
13	107	1573	15:44	1	1.112	A BB	4144940.	160.000 UG/ML	7.02
14	142	1604	16:02	1	1.134	A BB	6943470.	160.000 UG/ML	7.02
15	82	1231	12:19	1	0.871	A BB	5793190.	160.000 UG/ML	7.02

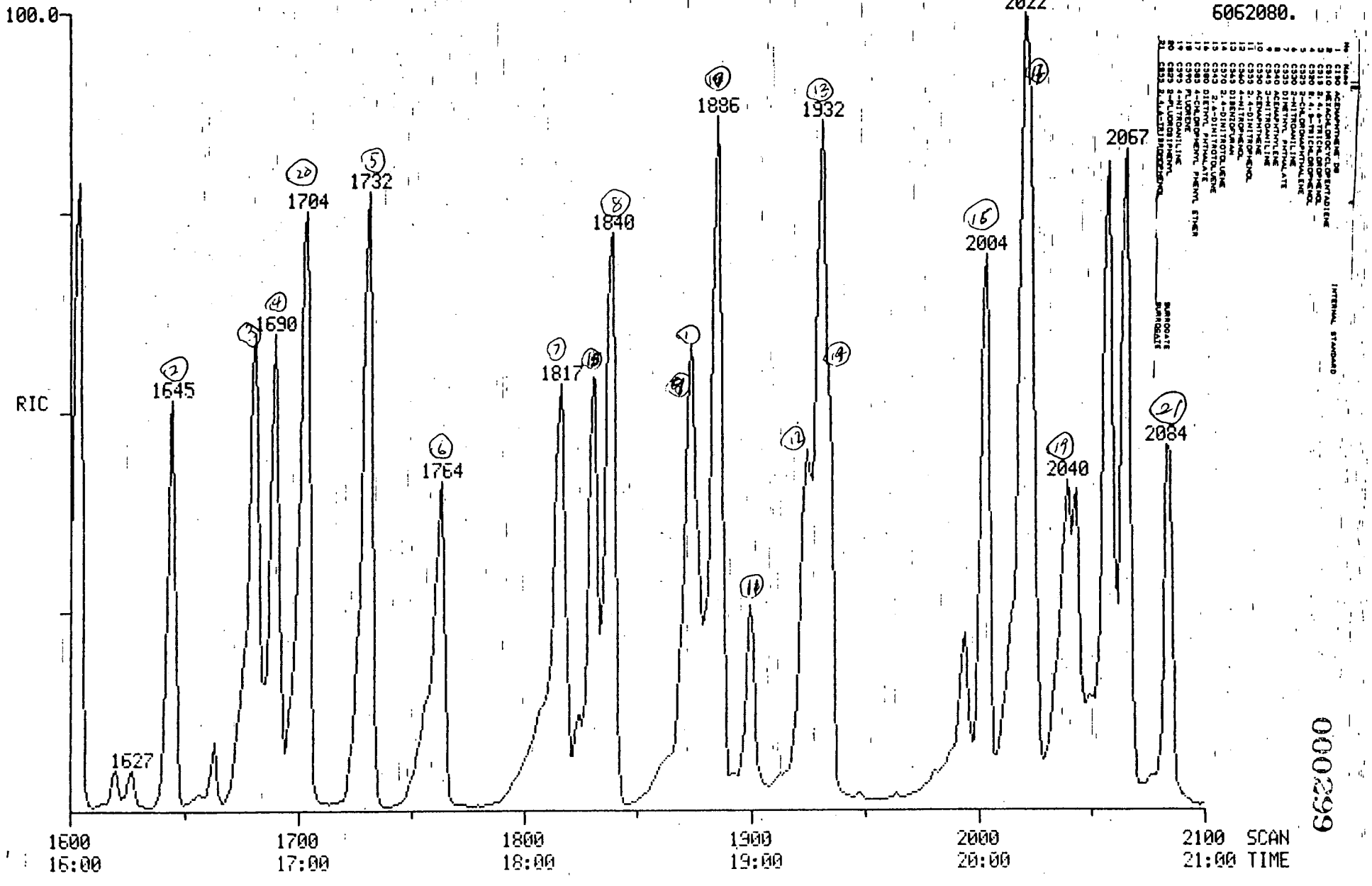
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:22	1.00	0.874	1.00	160.00	160.00	0.360	0.360	1.00
3	13:03	1.00	0.923	1.00	160.00	160.00	0.573	0.573	1.00
4	13:10	1.00	0.931	1.00	160.00	160.00	0.154	0.154	1.00
5	13:24	1.00	0.948	1.00	160.00	160.00	0.271	0.271	1.00
6	13:58	1.00	0.988	1.00	160.00	160.00	0.101	0.101	1.00
7	13:38	1.00	0.964	1.00	160.00	160.00	0.368	0.368	1.00
8	13:51	1.00	0.979	1.00	160.00	160.00	0.262	0.262	1.00
9	14:01	1.00	0.991	1.00	160.00	160.00	0.267	0.267	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:13	1.00	1.005	1.00	160.00	160.00	0.749	0.749	1.00
11	14:24	1.00	1.018	1.00	160.00	160.00	0.374	0.374	1.00
12	14:33	1.00	1.029	1.00	160.00	160.00	0.152	0.152	1.00
13	15:44	1.00	1.112	1.00	160.00	160.00	0.280	0.280	1.00
14	16:02	1.00	1.134	1.00	160.00	160.00	0.469	0.469	1.00
15	12:19	1.00	0.871	1.00	160.00	160.00	0.391	0.391	1.00

RIC
11/13/90 14:32:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 160NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601113 #1
CALI: HSD1601113 #3

SCANS 1600 TO 2100



000299

Quantitation Report Fil : HSD1601113

000300

Data: HSD1601113.TI
11/13/90 14:32:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 160NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

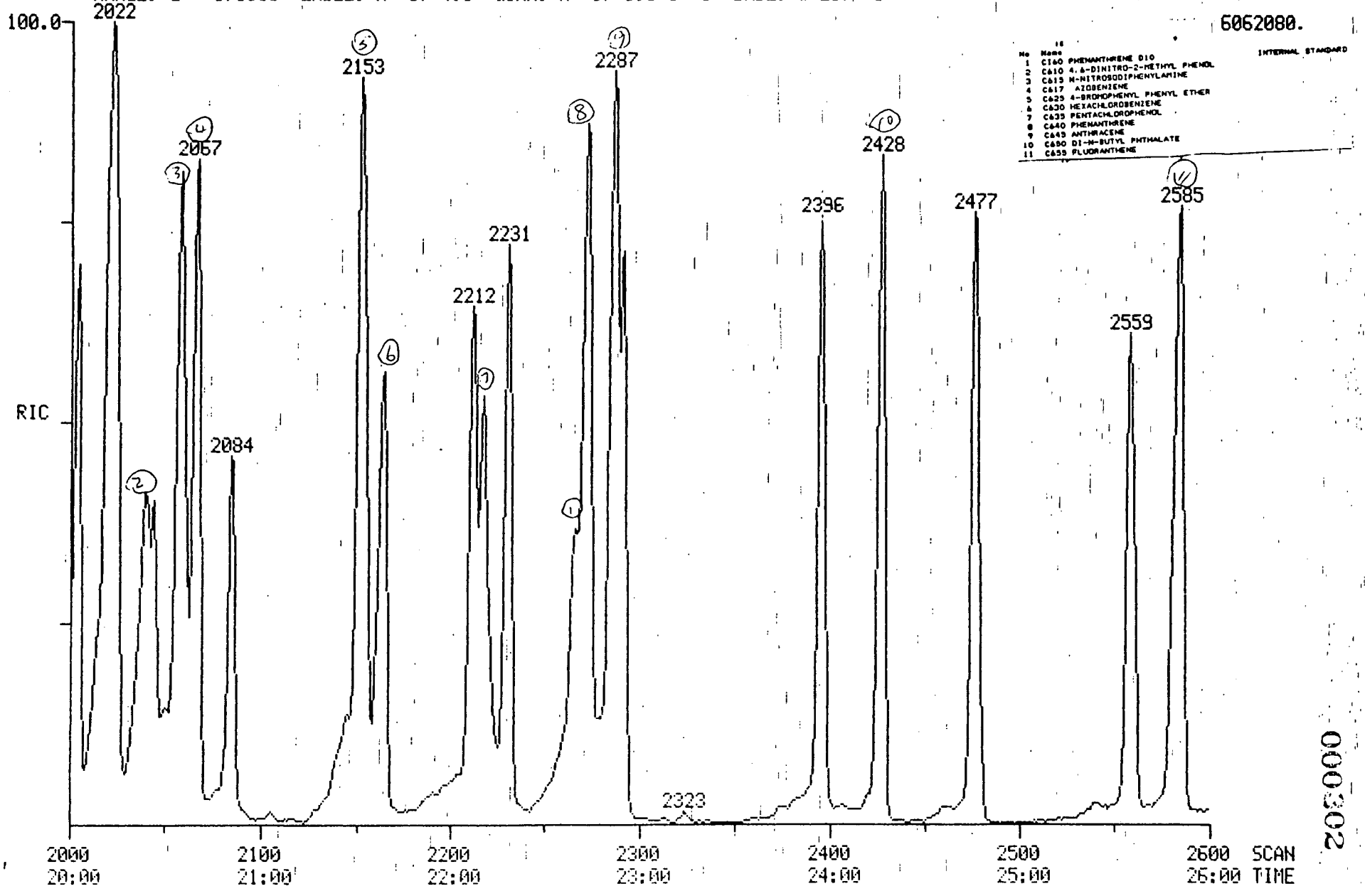
No	Nam		
1	C150	ACENAPHTHENE D8	INTERNAL STANDARD
2	C510	HEXACHLOROCYCLOPENTADIENE	
3	C515	2,4,6-TRICHLOROPHENOL	
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	
11	C555	2,4-DINITROPHENOL	
12	C560	4-NITROPHENOL	
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYL PHTHALATE	
17	C585	4-CHLOROPHENYL PHENYL ETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	SURROGATE
21	CS55	2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1876	18:46	1	1.000	A BB	1994250.	40.000 UG/ML	1.23
2	237	1645	16:27	1	0.877	A BB	1875970.	160.000 UG/ML	4.94
3	196	1681	16:49	1	0.896	A BV	2970100.	160.000 UG/ML	4.94
4	196	1690	16:54	1	0.901	A VB	2538990.	160.000 UG/ML	4.94
5	162	1732	17:19	1	0.923	A BB	7713930.	160.000 UG/ML	4.94
6	65	1764	17:38	1	0.940	A BB	3160720.	160.000 UG/ML	4.94
7	163	1817	18:10	1	0.969	A BB	8943390.	160.000 UG/ML	4.94
8	152	1839	18:23	1	0.980	A BB	11515100.	160.000 UG/ML	4.94
9	138	1874	18:44	1	0.999	A BB	2421700.	160.000 UG/ML	4.94
10	154	1886	18:52	1	1.005	A BV	7321170.	160.000 UG/ML	4.94
11	184	1900	19:00	1	1.013	A BB	1082930.	160.000 UG/ML	4.94
12	109	1925	19:15	1	1.026	A*BB	1072440.	160.000 UG/ML	4.94
13	168	1932	19:19	1	1.030	A BB	10001000.	160.000 UG/ML	4.94
14	165	1935	19:21	1	1.031	A VB	2617950.	160.000 UG/ML	4.94
15	165	1831	18:19	1	0.976	A BB	2392100.	160.000 UG/ML	4.94
16	149	2004	20:02	1	1.068	A BB	8251780.	160.000 UG/ML	4.94
17	204	2024	20:14	1	1.079	A BB	3126380.	160.000 UG/ML	4.94
18	166	2021	20:13	1	1.077	A BB	7957650.	160.000 UG/ML	4.94
19	138	2039	20:23	1	1.087	A BB	1929770.	160.000 UG/ML	4.94
20	172	1704	17:02	1	0.908	A BB	7801740.	160.000 UG/ML	4.94
21	330	2084	20:50	1	1.111	A BB	1398220.	160.000 UG/ML	4.94

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:27	1.00	0.877	1.00	160.00	160.00	0.235	0.235	1.00
3	16:49	1.00	0.896	1.00	160.00	160.00	0.372	0.372	1.00
4	16:54	1.00	0.901	1.00	160.00	160.00	0.318	0.318	1.00
5	17:19	1.00	0.923	1.00	160.00	160.00	0.967	0.967	1.00
6	17:38	1.00	0.940	1.00	160.00	160.00	0.396	0.396	1.00
7	18:10	1.00	0.969	1.00	160.00	160.00	1.121	1.121	1.00
8	18:23	1.00	0.980	1.00	160.00	160.00	1.444	1.444	1.00
9	18:44	1.00	0.999	1.00	160.00	160.00	0.304	0.304	1.00
10	18:52	1.00	1.005	1.00	160.00	160.00	0.918	0.918	1.00
11	19:00	1.00	1.013	1.00	160.00	160.00	0.136	0.136	1.00
12	19:15	1.00	1.026	1.00	160.00	160.00	0.134	0.134	1.00
13	19:19	1.00	1.030	1.00	160.00	160.00	1.254	1.254	1.00
14	19:21	1.00	1.031	1.00	160.00	160.00	0.328	0.328	1.00
15	18:19	1.00	0.976	1.00	160.00	160.00	0.300	0.300	1.00
16	20:02	1.00	1.068	1.00	160.00	160.00	1.034	1.034	1.00
17	20:14	1.00	1.079	1.00	160.00	160.00	0.392	0.392	1.00
18	20:13	1.00	1.077	1.00	160.00	160.00	0.998	0.998	1.00
19	20:23	1.00	1.087	1.00	160.00	160.00	0.242	0.242	1.00
20	17:02	1.00	0.908	1.00	160.00	160.00	0.978	0.978	1.00
21	20:50	1.00	1.111	1.00	160.00	160.00	0.175	0.175	1.00

RIC
11/13/90 14:32:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 160NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601113 #1 SCANS 2000 TO 2600
CALI: HSD1601113 #3



000302

Quantitation Report File: HSD1601113

Data: HSD1601113.TI
11/13/90 14:32:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 160NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD16011

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

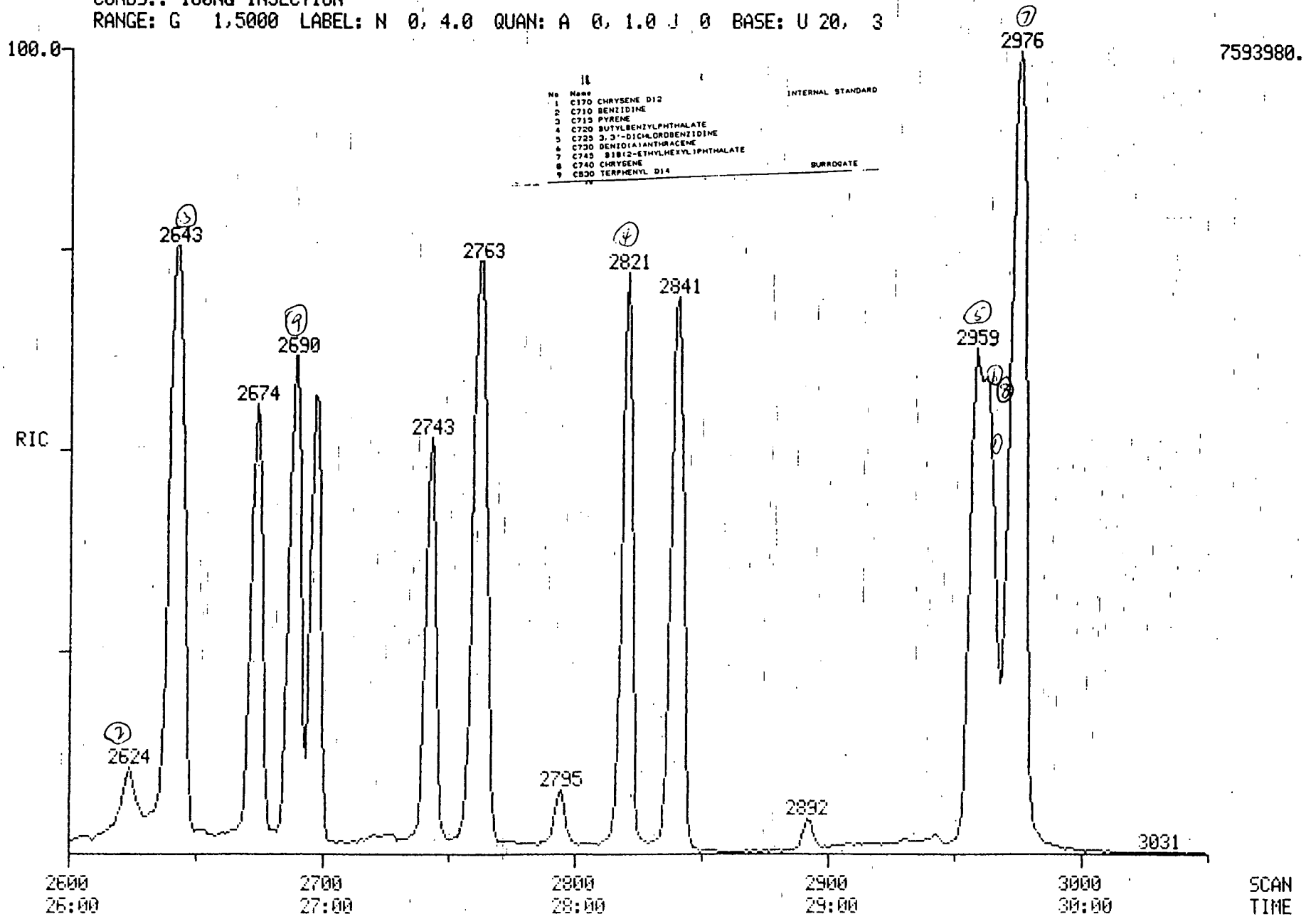
No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	188	2265	22:39	1	1.000	A BB	1935450.	40.000	UG/ML	2.44
2	198	2044	20:26	1	0.902	A VB	1367580.	160.000	UG/ML	9.76
3	169	2059	20:35	1	0.909	A BB	6378080.	160.000	UG/ML	9.76
4	77	2067	20:40	1	0.913	A BB	11724700.	160.000	NG	9.76
5	248	2153	21:32	1	0.951	A VB	1734200.	160.000	UG/ML	9.76
6	284	2164	21:38	1	0.955	A BB	2768720.	160.000	UG/ML	9.76
7	266	2218	22:11	1	0.979	A BB	1727690.	160.000	UG/ML	9.76
8	178	2273	22:44	1	1.004	A BV	12219500.	160.000	UG/ML	9.76
9	178	2287	22:52	1	1.010	A VB	10555200.	160.000	UG/ML	9.76
10	149	2428	24:17	1	1.072	A BB	12946900.	160.000	UG/ML	9.76
11	202	2585	25:51	1	1.141	A BB	10299200.	160.000	UG/ML	9.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:26	1.00	0.902	1.00	160.00	160.00	0.177	0.177	1.00
3	20:35	1.00	0.909	1.00	160.00	160.00	0.824	0.824	1.00
4	20:40	1.00	0.913	1.00	160.00	160.00	1.514	1.514	1.00
5	21:32	1.00	0.951	1.00	160.00	160.00	0.224	0.224	1.00
6	21:38	1.00	0.955	1.00	160.00	160.00	0.358	0.358	1.00
7	22:11	1.00	0.979	1.00	160.00	160.00	0.223	0.223	1.00
8	22:44	1.00	1.004	1.00	160.00	160.00	1.578	1.578	1.00
9	22:52	1.00	1.010	1.00	160.00	160.00	1.363	1.363	1.00
10	24:17	1.00	1.072	1.00	160.00	160.00	1.672	1.672	1.00
11	25:51	1.00	1.141	1.00	160.00	160.00	1.330	1.330	1.00

RIC
11/13/90 14:32:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 160NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1E01113 #1 SCANS 2600 TO 3050
CALI: HSD1E01113 #3



000304

Quantitation R port File: HSD1601113

000305

Data: HSD1601113.TI
11/13/90 14:32:00
Sample: HSL-D STANDARD 11/13/90
C nds.: 160NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

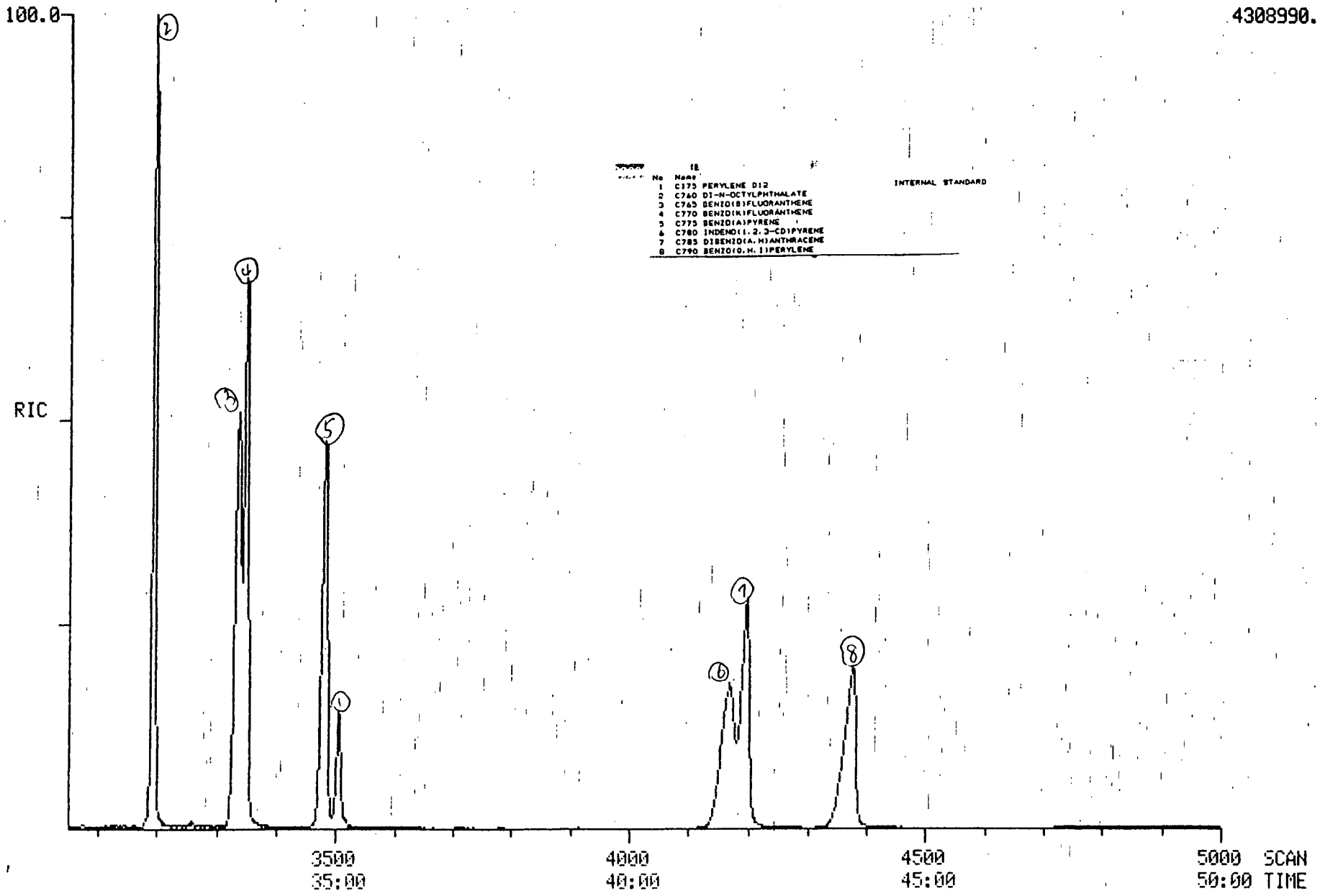
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	240	2966	29:40	1	1.000	A BB	2398490.	40.000	UG/ML	3.03
2	184	2624	26:14	1	0.885	A BB	1207650.	160.000	UG/ML	12.12
3	202	2645	26:27	1	0.892	A BB	9440030.	160.000	UG/ML	12.12
4	149	2821	28:13	1	0.951	A BB	6065190.	160.000	UG/ML	12.12
5	252	2958	29:35	1	0.997	A BB	2727110.	160.000	UG/ML	12.12
6	228	2962	29:37	1	0.999	A BV	9890690.	160.000	UG/ML	12.12
7	149	2977	29:46	1	1.004	A BB	8373970.	160.000	UG/ML	12.12
8	228	2974	29:44	1	1.003	A BB	6616510.	160.000	UG/ML	12.12
9	244	2689	26:53	1	0.907	A BB	7925900.	160.000	UG/ML	12.12

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:14	1.00	0.885	1.00	160.00	160.00	0.126	0.126	1.00
3	26:27	1.00	0.892	1.00	160.00	160.00	0.984	0.984	1.00
4	28:13	1.00	0.951	1.00	160.00	160.00	0.632	0.632	1.00
5	29:35	1.00	0.997	1.00	160.00	160.00	0.284	0.284	1.00
6	29:37	1.00	0.999	1.00	160.00	160.00	1.031	1.031	1.00
7	29:46	1.00	1.004	1.00	160.00	160.00	0.873	0.873	1.00
8	29:44	1.00	1.003	1.00	160.00	160.00	0.690	0.690	1.00
9	26:53	1.00	0.907	1.00	160.00	160.00	0.826	0.826	1.00

RIC
11/13/90 14:32:00
SAMPLE: HSL-D STANDARD 11/13/90
CONDS.: 160NG INJECTION
RANGE: G 1,5000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1E01113 #1 SCANS 3050 TO 5000
CALI: HSD1E01113 #3



No	Name	
1	C375 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000306

Quantitation Report File: HSD1601113

Data: HSD1601113.TI
11/13/90 14:32:00
Sample: HSL-D STANDARD 11/13/90
Conds.: 160NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD16011

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3505	35:03	1	1.000	A BB	1491900.	40.000 UG/ML	3.45
2	149	3195	31:57	1	0.912	A BB	13249900.	160.000 UG/ML	13.79
3	252	3335	33:21	1	0.951	A BV	8062850.	160.000 UG/ML	13.79
4	252	3350	33:30	1	0.956	A VB	6535680.	160.000 UG/ML	13.79
5	252	3483	34:50	1	0.994	A BB	6921860.	160.000 UG/NL	13.79
6	276	4170	41:42	1	1.190	A BB	2764160.	160.000 UG/ML	13.79
7	278	4199	41:59	1	1.198	A BB	4279300.	160.000 UG/ML	13.79
8	276	4377	43:46	1	1.249	A BB	3320480.	160.000 UG/ML	13.79

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:57	1.00	0.912	1.00	160.00	160.00	2.220	2.220	1.00
3	33:21	1.00	0.951	1.00	160.00	160.00	1.351	1.351	1.00
4	33:30	1.00	0.956	1.00	160.00	160.00	1.095	1.095	1.00
5	34:50	1.00	0.994	1.00	160.00	160.00	1.160	1.160	1.00
6	41:42	1.00	1.190	1.00	160.00	160.00	0.463	0.463	1.00
7	41:59	1.00	1.198	1.00	160.00	160.00	0.717	0.717	1.00
8	43:46	1.00	1.249	1.00	160.00	160.00	0.556	0.556	1.00

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: QC INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration Date(s): 11/19/90 11/20/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = HSD201119 RRF50 = HSD501119P
RRF80 = HSD801119 RRF120= HSD1201119 RRF160= HSD1601119

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
N-Nitrosodimethylamine	1.032	1.212	1.419	1.242	1.046	1.190	13.4
Phenol *	1.477	1.707	1.747	1.630	1.626	1.637	6.3*
bis(2-Chloroethyl)Ether	1.427	1.377	1.459	1.320	1.308	1.378	4.8
2-Chlorophenol	1.318	1.473	1.522	1.414	1.399	1.425	5.4
1,3-Dichlorobenzene	1.408	1.584	1.547	1.435	1.358	1.466	6.5
1,4-Dichlorobenzene *	1.475	1.582	1.573	1.434	1.369	1.487	6.1*
Benzyl Alcohol	0.740	0.833	0.869	0.860	0.826	0.826	6.2
1,2-Dichlorobenzene	1.338	1.416	1.408	1.304	1.261	1.345	5.0
2-Methylphenol	1.221	1.232	1.260	1.240	1.205	1.232	1.7
bis(2-Chloroisopropyl)Ether	0.050	0.053	0.059	0.086	0.062	0.062	23.0
4-Methylphenol	0.933	1.101	1.125	1.062	0.876	1.019	10.7
N-Nitroso-Di-n-Propylamine #	1.122	1.010	1.107	1.111	1.008	1.072	5.4#
Hexachloroethane	0.576	0.695	0.688	0.664	0.630	0.651	7.5
Nitrobenzene	0.394	0.406	0.426	0.389	0.401	0.403	3.6
Isophorone	0.724	0.703	0.761	0.684	0.438	0.662	19.4
2-Nitrophenol *	0.129	0.154	0.167	0.154	0.162	0.153	9.6*
2,4-Dimethylphenol	0.256	0.271	0.292	0.268	0.263	0.270	5.0
Benzoic Acid		0.127	0.112	0.093	0.080	0.103	20.1
bis(2-Chloroethoxy)Methane	0.419	0.367	0.408	0.394	0.384	0.394	5.2
2,4-Dichlorophenol *	0.237	0.287	0.309	0.279	0.277	0.278	9.4*
1,2,4-Trichlorobenzene	0.294	0.337	0.331	0.302	0.292	0.311	6.8
Naphthalene	1.002	0.941	0.944	0.848	0.795	0.906	9.2
4-Chloroaniline	0.286	0.379	0.408	0.400	0.358	0.366	13.4
Hexachlorobutadiene *	0.171	0.196	0.192	0.175	0.168	0.180	7.1*
4-Chloro-3-Methylphenol *	0.244	0.281	0.302	0.280	0.249	0.271	9.0*
2-Methylnaphthalene	0.550	0.550	0.565	0.510	0.475	0.530	7.0
Hexachlorocyclopentadiene #	0.169	0.296	0.336	0.267	0.317	0.277	23.7#
2,4,6-Trichlorophenol *	0.303	0.414	0.457	0.380	0.402	0.391	14.5*
2,4,5-Trichlorophenol		0.450	0.484	0.377	0.366	0.419	13.6
2-Chloronaphthalene	1.164	1.278	1.395	1.125	1.232	1.239	8.5
2-Nitroaniline		0.346	0.410	0.389	0.371	0.379	7.2
Dimethyl Phthalate	1.333	1.129	1.238	1.051	1.039	1.158	10.9
Acenaphthylene	1.624	1.701	1.725	1.577	1.639	1.653	3.6
2,6-Dinitrotoluene	0.247	0.253	0.271	0.241	0.229	0.248	6.3
3-Nitroaniline		0.210	0.285	0.271	0.250	0.254	12.9
Acenaphthene *	0.991	1.067	1.103	0.981	0.998	1.028	5.2*
2,4-Dinitrophenol #		0.046	0.072	0.089	0.090	0.074	27.8#
4-Nitrophenol #		0.064	0.095	0.109	0.113	0.095	23.4#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: QC INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration Date(s): 11/19/90 11/20/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

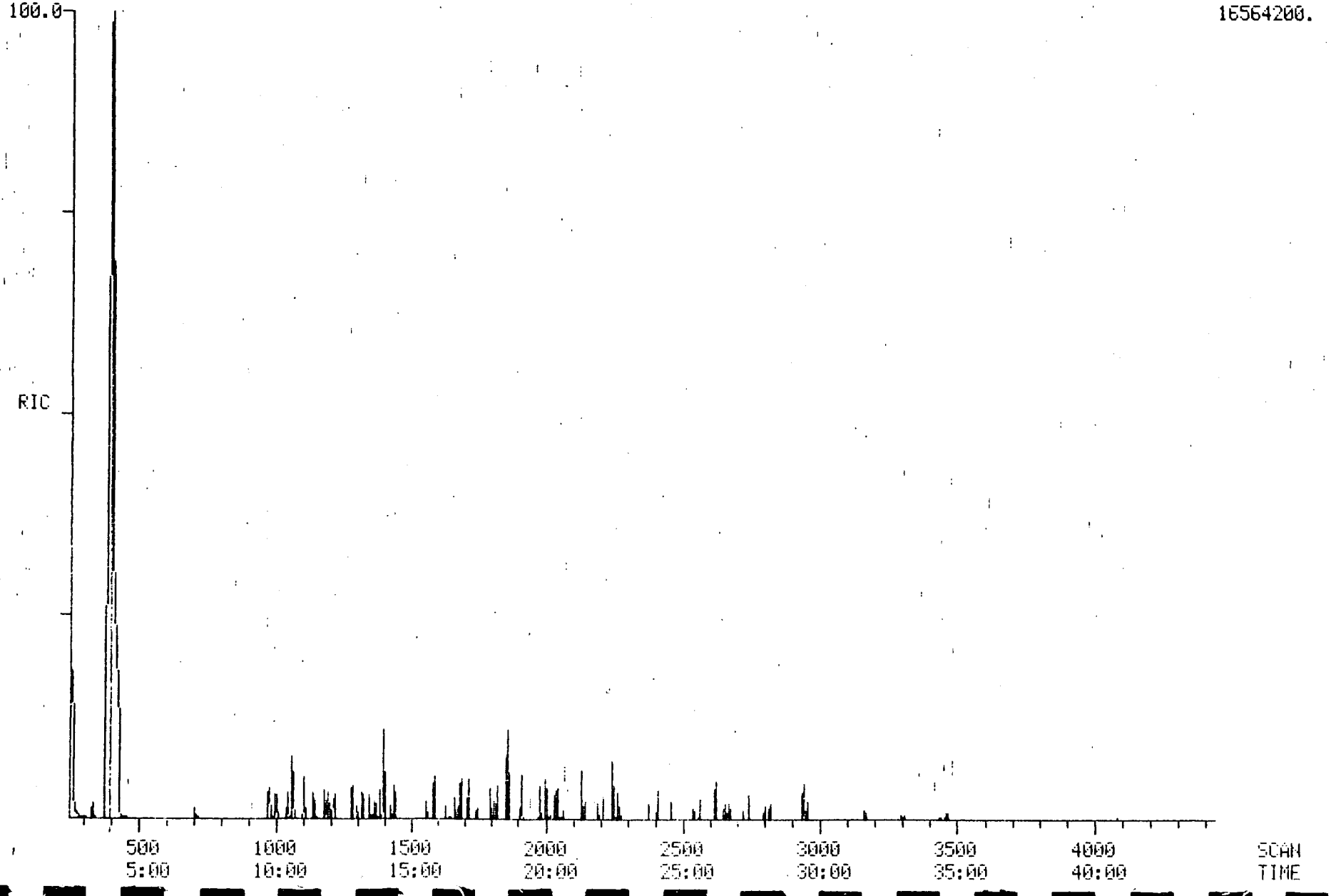
LAB FILE ID: RRF20 = HSD201119 RRF50 = HSD501119P
RRF80 = HSD801119 RRF120= HSD1201119 RRF160= HSD1601119

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.409	1.528	1.563	1.434	1.393	1.465	5.2
2,4-Dinitrotoluene	0.319	0.290	0.353	0.342	0.308	0.322	7.9
Diethylphthalate	1.291	0.962	1.153	0.984	1.054	1.089	12.4
4-Chlorophenyl-phenylether	0.467	0.465	0.529	0.471	0.475	0.481	5.6
Fluorene	1.117	1.039	1.154	1.082	1.027	1.084	4.9
4-Nitroaniline		0.111	0.146	0.168	0.128	0.138	17.7
4,6-Dinitro-2-Methylphenol		0.168	0.195	0.173	0.210	0.186	10.5
N-Nitrosodiphenylamine (1) *	1.005	1.091	1.238	0.963	1.163	1.092	10.3*
Azobenzene (2)	1.842	2.476	2.264	1.707	2.550	2.168	17.4
4-Bromophenyl-phenylether	0.421	0.497	0.534	0.416	0.458	0.465	10.8
Hexachlorobenzene	0.359	0.429	0.463	0.405	0.469	0.425	10.6
Pentachlorophenol *		0.185	0.194	0.224	0.241	0.211	12.3*
Phenanthrene	1.712	2.088	1.985	1.673	1.601	1.812	11.7
Anthracene	1.695	2.003	2.080	1.896	1.847	1.904	7.8
Di-n-Butylphthalate	2.263	2.155	2.329	2.152	2.232	2.226	3.4
Fluoranthene *	1.277	1.364	1.627	1.451	1.472	1.438	9.1*
Benzidine		0.022	0.034	0.047	0.044	0.037	30.5
Pyrene	1.719	2.205	1.916	1.439	1.426	1.741	19.0
Butylbenzylphthalate	0.597	0.686	0.760	0.712	0.664	0.684	8.8
3,3'-Dichlorobenzidine	0.162	0.204	0.263	0.300	0.298	0.245	24.8
Benzo(a)Anthracene	0.997	1.106	1.213	1.222	1.211	1.150	8.5
Chrysene	0.635	0.772	0.810	0.907	0.844	0.794	12.8
bis(2-Ethylhexyl)Phthalate	0.904	1.018	1.220	1.287	1.279	1.142	15.0
Di-n-Octyl Phthalate *	1.994	2.707	2.860	2.818	2.869	2.650	14.0*
Benzo(b)Fluoranthene	0.924	1.242	1.286	1.318	1.400	1.234	14.8
Benzo(k)Fluoranthene	0.933	1.274	1.327	1.184	1.245	1.193	12.9
Benzo(a)Pyrene *	0.768	1.049	1.150	1.133	1.182	1.056	16.0*
Indeno(1,2,3-cd)Pyrene	0.517	0.617	0.738	0.586	0.555	0.603	14.0
Dibenz(a,h)Anthracene	0.534	0.615	0.827	0.778	0.881	0.727	20.2
Benzo(g,h,i)Perylene	0.495	0.646	0.755	0.533	0.588	0.603	16.9
Nitrobenzene-d5	0.398	0.479	0.494	0.442	0.406	0.444	9.6
2-Fluorobiphenyl	1.211	1.473	1.549	1.224	1.254	1.342	11.7
Terphenyl-d14	1.004	1.543	1.466	1.145	0.973	1.226	21.5
Phenol-d5	1.323	1.392	1.429	1.361	1.329	1.367	3.2
2-Fluorophenol	0.862	1.198	1.219	1.231	1.244	1.151	14.1
2,4,6-Tribromophenol	0.091	0.091	0.125	0.136	0.123	0.113	18.5

(1) Cannot be separated from Diphenylamine

RIC
11/20/90 0:39:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 20 NG INJECTION
RANGE: G 1,4431 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

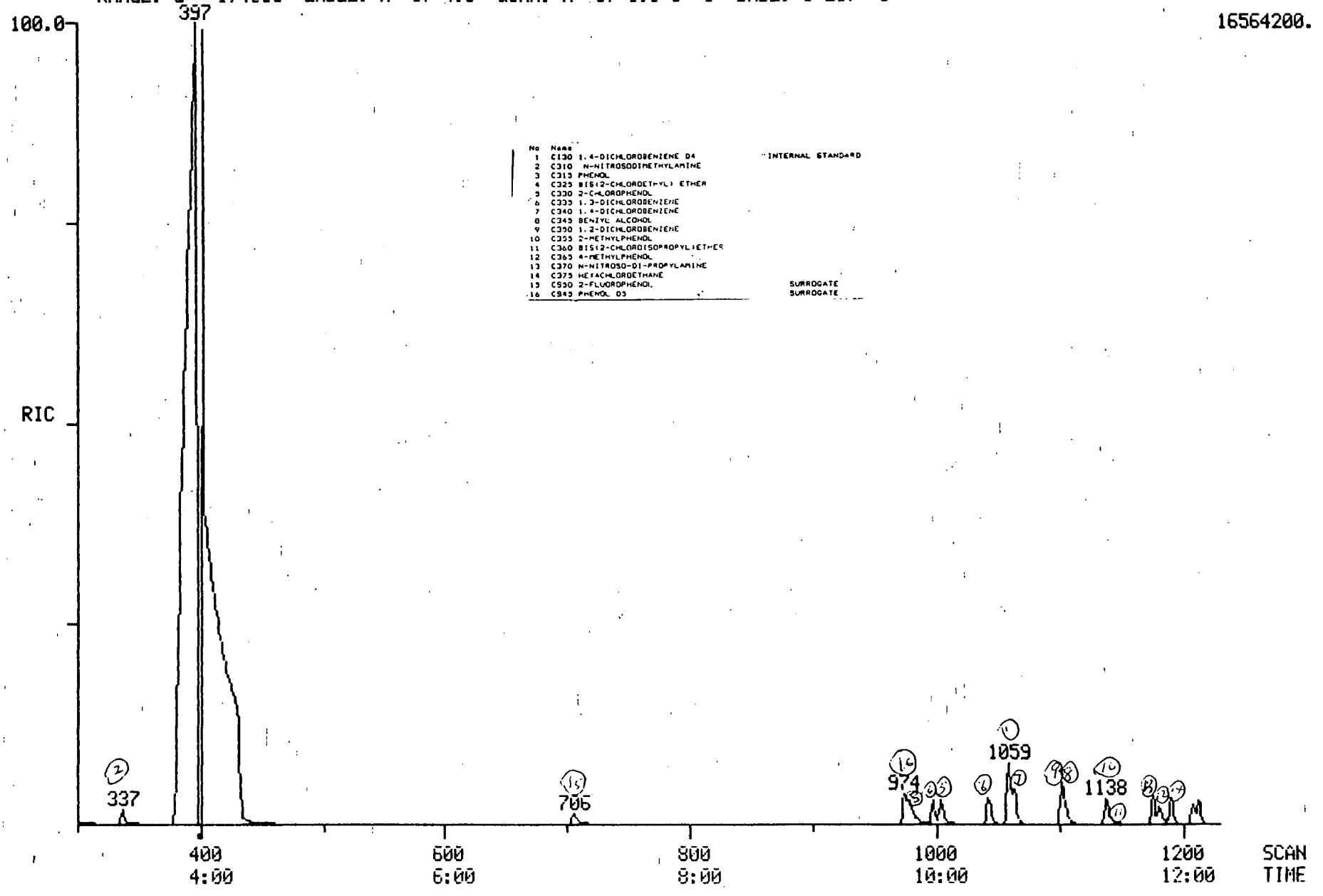
DATA: HSD201119 #1 SCANS 250 TO 4433
CALI: CALTAB #3



000340

RIC
11/20/90 0:39:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201119 #1 SCANS 300 TO 1230
CALI: HSD201119 #3



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C530 2-FLUOROPHENOL	SURROGATE
16	C545 PHENOL D5	SURROGATE

000311

Quantitation Report File: HSD201119

000312

Data: HSD201119.TI
11/20/90 0:39:00
Sample: HSL-D STAND 11/19
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD20111

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1059	10:35	1	1.000	A BB	905512.	40.000 UG/ML	11.76
2	74	337	3:22	1	0.318	A BB	467388.	20.000 UG	5.88
3	94	978	9:47	1	0.924	A BB	668696.	20.000 UG/ML	5.88
4	93	997	9:58	1	0.941	A BB	646289.	20.000 UG/ML	5.88
5	128	1004	10:02	1	0.948	A BB	596926.	20.000 UG/ML	5.88
6	146	1042	10:25	1	0.984	A BB	637361.	20.000 UG/ML	5.88
7	146	1064	10:38	1	1.005	A BB	667741.	20.000 UG/ML	5.88
8	108	1103	11:02	1	1.042	A BB	334984.	20.000 UG/ML	5.88
9	146	1102	11:01	1	1.041	A BB	605696.	20.000 UG/ML	5.88
10	108	1138	11:23	1	1.075	A BB	552930.	20.000 UG/ML	5.88
11	45	1142	11:25	1	1.078	A BV	22864.	20.000 UG/ML	5.88
12	108	1181	11:49	1	1.115	A BB	422337.	20.000 UG/ML	5.88
13	70	1176	11:46	1	1.110	A BV	508032.	20.000 UG/ML	5.88
14	117	1191	11:55	1	1.125	A BB	260752.	20.000 UG/ML	5.88
15	112	705	7:03	1	0.666	A BB	390084.	20.000 UG/L	5.88
16	99	975	9:45	1	0.921	A BB	599120.	20.000 UG/ML	5.88

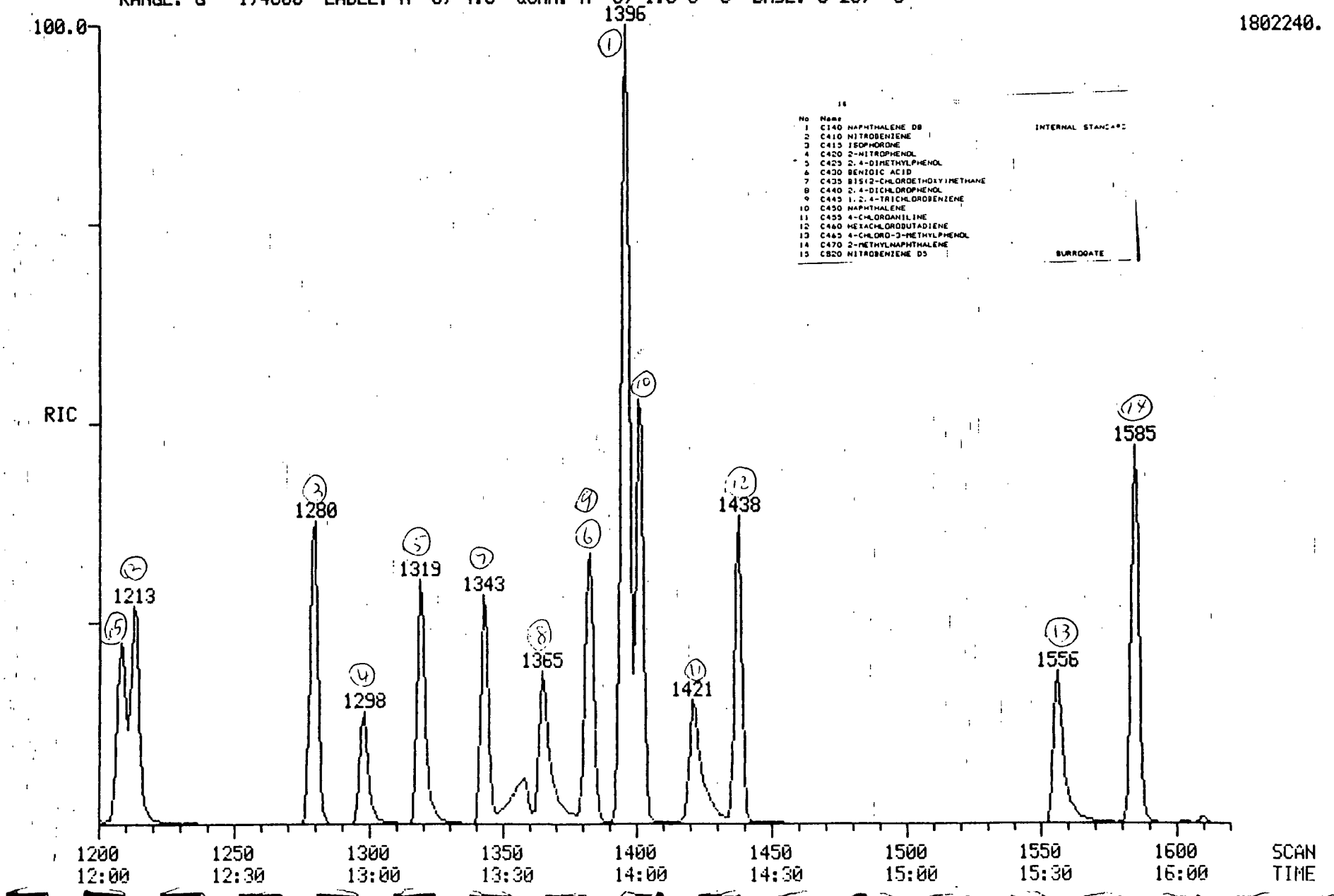
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:22	1.00	0.318	1.00	20.00	20.00	1.032	1.032	1.00
3	9:47	1.00	0.924	1.00	20.00	20.00	1.477	1.477	1.00
4	9:58	1.00	0.941	1.00	20.00	20.00	1.427	1.427	1.00
5	10:02	1.00	0.948	1.00	20.00	20.00	1.318	1.318	1.00
6	10:25	1.00	0.984	1.00	20.00	20.00	1.408	1.408	1.00
7	10:38	1.00	1.005	1.00	20.00	20.00	1.475	1.475	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:02	1.00	1.042	1.00	20.00	20.00	0.740	0.740	1.00
9	11:01	1.00	1.041	1.00	20.00	20.00	1.338	1.338	1.00
10	11:23	1.00	1.075	1.00	20.00	20.00	1.221	1.221	1.00
11	11:25	1.00	1.078	1.00	20.00	20.00	0.050	0.050	1.00
12	11:49	1.00	1.115	1.00	20.00	20.00	0.933	0.933	1.00
13	11:46	1.00	1.110	1.00	20.00	20.00	1.122	1.122	1.00
14	11:55	1.00	1.125	1.00	20.00	20.00	0.576	0.576	1.00
15	7:03	1.00	0.666	1.00	20.00	20.00	0.862	0.862	1.00
16	9:45	1.00	0.921	1.00	20.00	20.00	1.323	1.323	1.00

RIC
11/20/90 0:39:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201119 #1
CALI: HSD201119 #3

SCANS 1200 TO 1620



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLORODUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CB20 NITROBENZENE D5	SURROGATE

000314

Quantitation Report File: HSD201119

Data: HSD201119.TI
11/20/90 0:39:00
Sample: HSL-D STAND 11/19
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD20111

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1396	13:58	1	1.000	A BB	3036500.	40.000 UG/ML	12.50
2	77	1213	12:08	1	0.869	A BB	598831.	20.000 UG/ML	6.25
3	82	1280	12:48	1	0.917	A BB	1099890.	20.000 UG/ML	6.25
4	139	1298	12:59	1	0.930	A BB	196121.	20.000 UG/ML	6.25
5	122	1319	13:11	1	0.945	A BB	387983.	20.000 UG/ML	6.25
6	122	1383	13:50	1	0.991	A BB	2628.	20.000 UG/ML	6.25
7	93	1343	13:26	1	0.962	A BB	636053.	20.000 UG/ML	6.25
8	162	1365	13:39	1	0.978	A BB	359907.	20.000 UG/ML	6.25
9	180	1382	13:49	1	0.990	A BB	446288.	20.000 UG/ML	6.25
10	128	1401	14:01	1	1.004	A BB	1520910.	20.000 UG/ML	6.25
11	127	1421	14:13	1	1.018	A BB	434309.	20.000 UG/ML	6.25
12	225	1438	14:23	1	1.030	A BB	260160.	20.000 UG/ML	6.25
13	107	1556	15:34	1	1.115	A BB	370262.	20.000 UG/ML	6.25
14	142	1585	15:51	1	1.135	A BB	835377.	20.000 UG/ML	6.25
15	82	1208	12:05	1	0.865	A BB	604184.	20.000 UG/ML	6.25

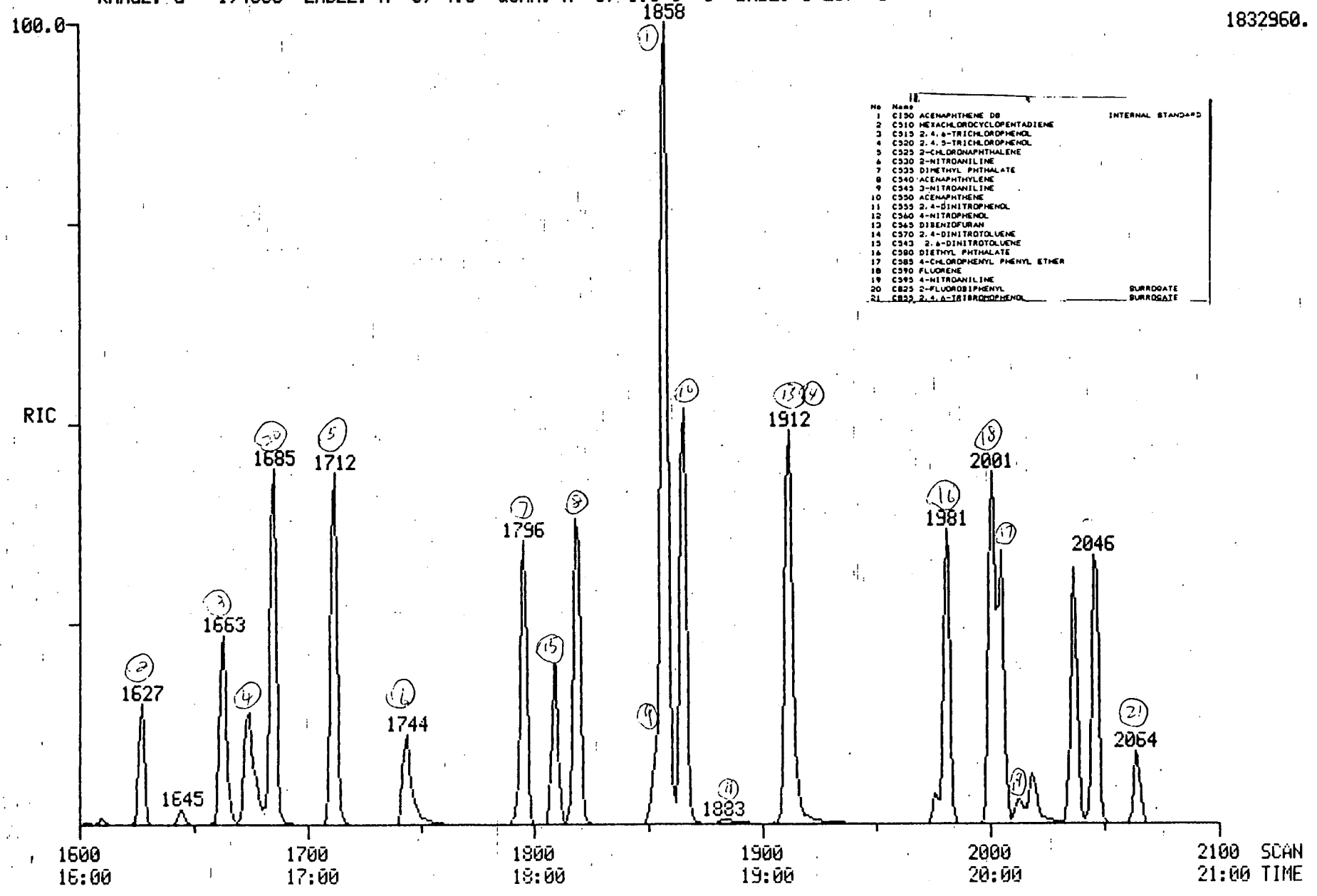
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:08	1.00	0.869	1.00	20.00	20.00	0.394	0.394	1.00
3	12:48	1.00	0.917	1.00	20.00	20.00	0.724	0.724	1.00
4	12:59	1.00	0.930	1.00	20.00	20.00	0.129	0.129	1.00
5	13:11	1.00	0.945	1.00	20.00	20.00	0.256	0.256	1.00
6	13:50	1.00	0.991	1.00	20.00	20.00	0.002	0.002	1.00
7	13:26	1.00	0.962	1.00	20.00	20.00	0.419	0.419	1.00
8	13:39	1.00	0.978	1.00	20.00	20.00	0.237	0.237	1.00
9	13:49	1.00	0.990	1.00	20.00	20.00	0.294	0.294	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:01	1.00	1.004	1.00	20.00	20.00	1.002	1.002	1.00
11	14:13	1.00	1.018	1.00	20.00	20.00	0.286	0.286	1.00
12	14:23	1.00	1.030	1.00	20.00	20.00	0.171	0.171	1.00
13	15:34	1.00	1.115	1.00	20.00	20.00	0.244	0.244	1.00
14	15:51	1.00	1.135	1.00	20.00	20.00	0.550	0.550	1.00
15	12:05	1.00	0.865	1.00	20.00	20.00	0.398	0.398	1.00

RIC
11/20/90 0:39:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201119 #1
CALI: HSD201119 #3

SCANS 1600 TO 2100



No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C573 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C825 2-FLUOROBIPHENYL	SURROGATE
21	C833 2,4,6-TRIBROMOPHENOL	SURROGATE

000349

Quantitation Report File: HSD201119

Data: HSD201119.TI
11/20/90 0:39:00
Sample: HSL-D STAND 11/19
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD20111

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

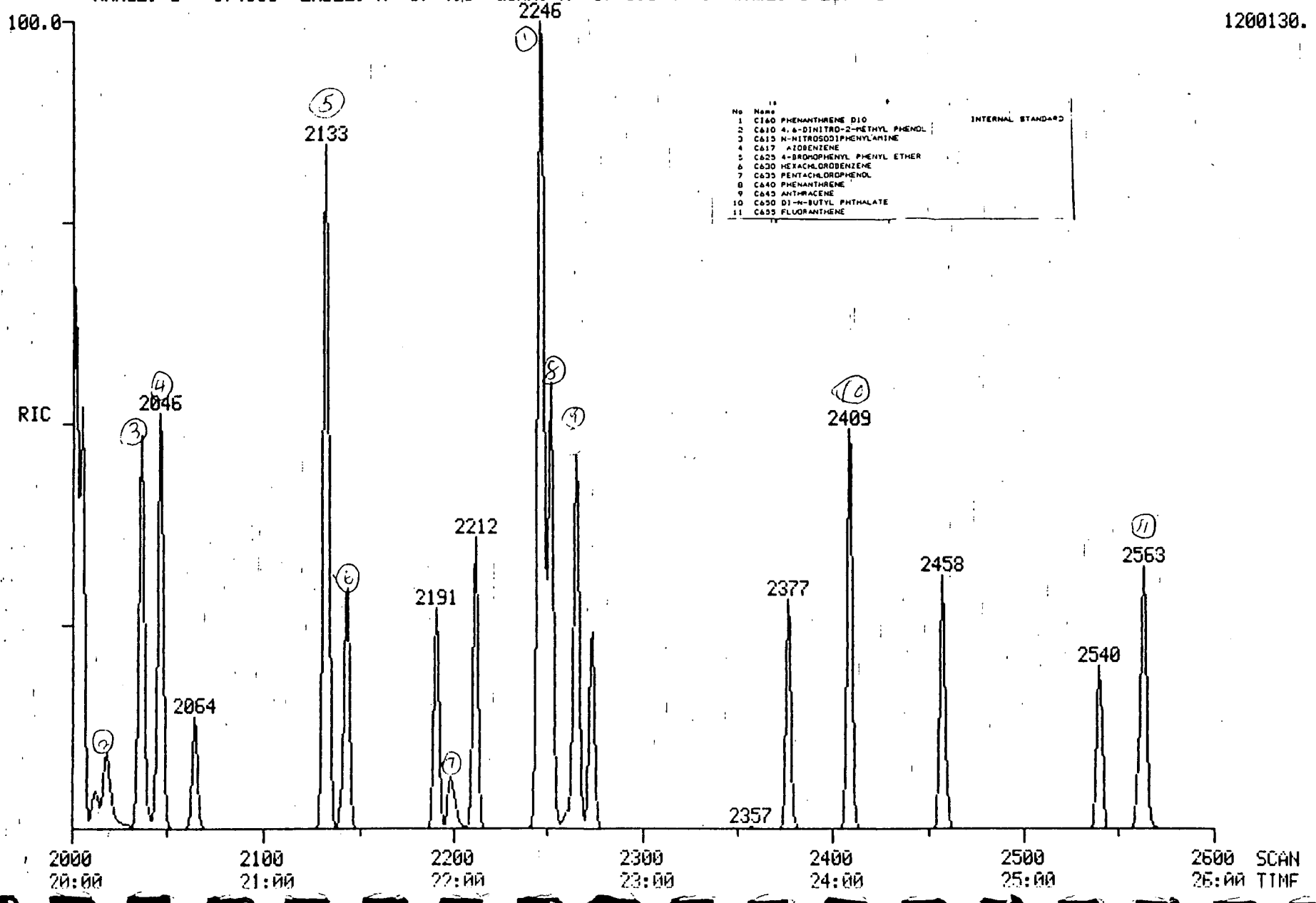
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1858	18:35	1	1.000	A BB	1414220.	40.000 UG/ML	9.52
2	237	1627	16:16	1	0.876	A BB	119776.	20.000 UG/ML	4.76
3	196	1662	16:37	1	0.895	A BB	214336.	20.000 UG/ML	4.76
4	196	1673	16:44	1	0.900	A VB	228440.	20.000 UG/ML	4.76
5	162	1712	17:07	1	0.921	A BB	823408.	20.000 UG/ML	4.76
6	65	1744	17:26	1	0.939	A BB	216512.	20.000 UG/ML	4.76
7	163	1796	17:58	1	0.967	A BB	942320.	20.000 UG/ML	4.76
8	152	1819	18:11	1	0.979	A BB	1148540.	20.000 UG/ML	4.76
9	138	1853	18:32	1	0.997	A BB	149474.	20.000 UG/ML	4.76
10	154	1866	18:40	1	1.004	A VB	700544.	20.000 UG/ML	4.76
11	184	1884	18:50	1	1.014	A BB	15538.	20.000 UG/ML	4.76
12	NOT FOUND								
13	168	1911	19:07	1	1.029	A BB	996544.	20.000 UG/ML	4.76
14	165	1913	19:08	1	1.030	A BB	225344.	20.000 UG/ML	4.76
15	165	1809	18:05	1	0.974	A BB	174672.	20.000 UG/ML	4.76
16	149	1981	19:49	1	1.066	A BB	912752.	20.000 UG/ML	4.76
17	204	2005	20:03	1	1.079	A BB	330384.	20.000 UG/ML	4.76
18	166	2001	20:01	1	1.077	A BB	789888.	20.000 UG/ML	4.76
19	138	2013	20:08	1	1.083	A BB	78768.	20.000 UG/ML	4.76
20	172	1685	16:51	1	0.907	A BB	856560.	20.000 UG/ML	4.76
21	330	2064	20:38	1	1.111	A BB	64048.	20.000 UG/ML	4.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:16	1.00	0.876	1.00	20.00	20.00	0.169	0.169	1.00
3	16:37	1.00	0.895	1.00	20.00	20.00	0.303	0.303	1.00
4	16:44	1.00	0.900	1.00	20.00	20.00	0.323	0.323	1.00
5	17:07	1.00	0.921	1.00	20.00	20.00	1.164	1.164	1.00
6	17:26	1.00	0.939	1.00	20.00	20.00	0.306	0.306	1.00
7	17:58	1.00	0.967	1.00	20.00	20.00	1.333	1.333	1.00
8	18:11	1.00	0.979	1.00	20.00	20.00	1.624	1.624	1.00
9	18:32	1.00	0.997	1.00	20.00	20.00	0.211	0.211	1.00
10	18:40	1.00	1.004	1.00	20.00	20.00	0.991	0.991	1.00
11	18:50	1.00	1.014	1.00	20.00	20.00	0.022	0.022	1.00
12	19:05		1.027						
13	19:07	1.00	1.029	1.00	20.00	20.00	1.409	1.409	1.00
14	19:08	1.00	1.030	1.00	20.00	20.00	0.319	0.319	1.00
15	18:05	1.00	0.974	1.00	20.00	20.00	0.247	0.247	1.00
16	19:49	1.00	1.066	1.00	20.00	20.00	1.291	1.291	1.00
17	20:03	1.00	1.079	1.00	20.00	20.00	0.467	0.467	1.00
18	20:01	1.00	1.077	1.00	20.00	20.00	1.117	1.117	1.00
19	20:08	1.00	1.083	1.00	20.00	20.00	0.111	0.111	1.00
20	16:51	1.00	0.907	1.00	20.00	20.00	1.211	1.211	1.00
21	20:38	1.00	1.111	1.00	20.00	20.00	0.091	0.091	1.00

RIC
11/20/90 0:39:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201119 #1
CALI: HSD201119 #3

SCANS 2000 TO 2600



No	Name	
1	C140 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000320

Quantitation Report File: HSD201119

Data: HSD201119.TI
11/20/90 0:39:00
Sample: HSL-D STAND 11/19
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD20111

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

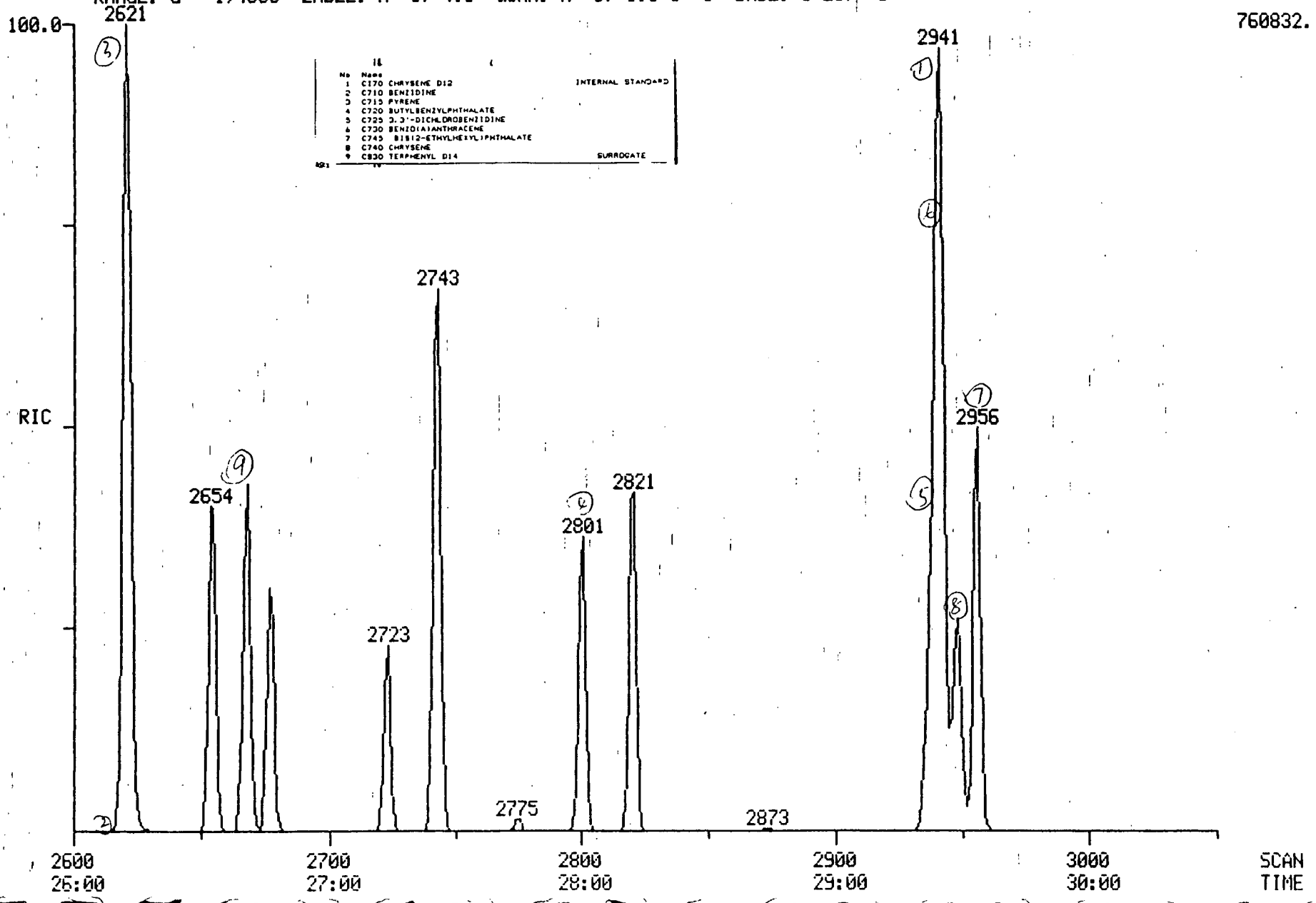
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2246	22:28	1	1.000	A BV	1002970.	40.000 UG/ML	16.67
2	198	2019	20:11	1	0.899	A BB	53424.	20.000 UG/ML	8.33
3	169	2037	20:22	1	0.907	A BB	504240.	20.000 UG/ML	8.33
4	77	2046	20:28	1	0.911	A VB	923952.	20.000 NG	8.33
5	248	2132	21:19	1	0.949	A BV	210912.	20.000 UG/ML	8.33
6	284	2143	21:26	1	0.954	A BB	179904.	20.000 UG/ML	8.33
7	266	2199	21:59	1	0.979	A BB	45856.	20.000 UG/ML	8.33
8	178	2252	22:31	1	1.003	A BB	858432.	20.000 UG/ML	8.33
9	178	2265	22:39	1	1.008	A VB	849773.	20.000 UG/ML	8.33
10	149	2409	24:05	1	1.073	A BB	1135040.	20.000 UG/ML	8.33
11	202	2563	25:38	1	1.141	A BB	640256.	20.000 UG/ML	8.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:11	1.00	0.899	1.00	20.00	20.00	0.107	0.107	1.00
3	20:22	1.00	0.907	1.00	20.00	20.00	1.005	1.005	1.00
4	20:28	1.00	0.911	1.00	20.00	20.00	1.842	1.842	1.00
5	21:19	1.00	0.949	1.00	20.00	20.00	0.421	0.421	1.00
6	21:26	1.00	0.954	1.00	20.00	20.00	0.359	0.359	1.00
7	21:59	1.00	0.979	1.00	20.00	20.00	0.091	0.091	1.00
8	22:31	1.00	1.003	1.00	20.00	20.00	1.712	1.712	1.00
9	22:39	1.00	1.008	1.00	20.00	20.00	1.695	1.695	1.00
10	24:05	1.00	1.073	1.00	20.00	20.00	2.263	2.263	1.00
11	25:38	1.00	1.141	1.00	20.00	20.00	1.277	1.277	1.00

RIC
11/20/90 0:39:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201119 #1
CALI: HSD201119 #3

SCANS 2600 TO 3050



000322

Quantitation Report File: HSD201119

Data: HSD201119.TI
11/20/90 0:39:00
Sampl.: HSL-D STAND 11/19
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD20111

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

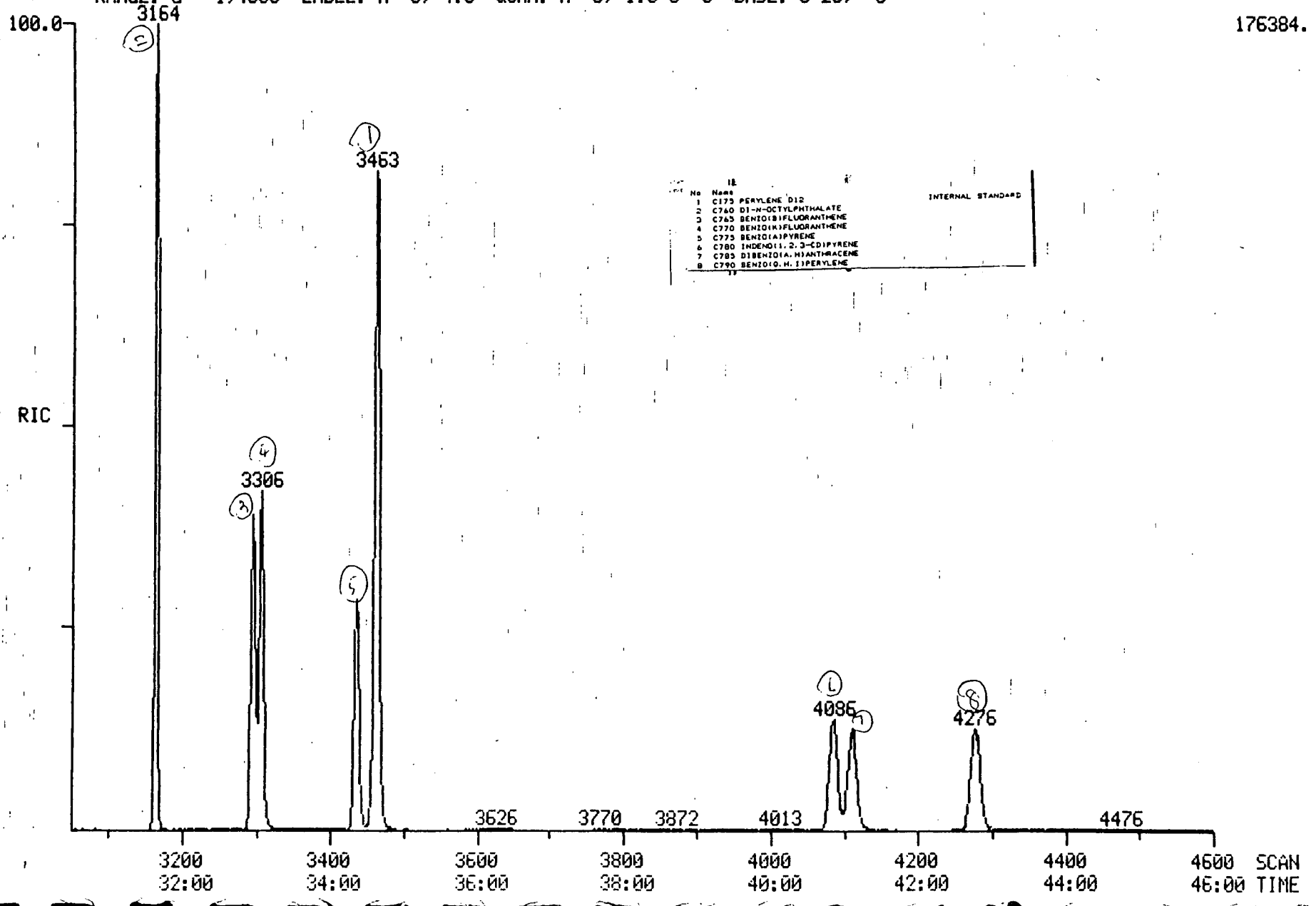
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2941	29:25	1	1.000	A BB	828766.	40.000 UG/ML	20.00
2	184	2610	26:06	1	0.887	A BB	3488.	20.000 UG/ML	10.00
3	202	2621	26:13	1	0.891	A BB	712456.	20.000 UG/ML	10.00
4	149	2801	28:01	1	0.952	A BB	247504.	20.000 UG/ML	10.00
5	252	2936	29:22	1	0.998	A BB	67050.	20.000 UG/ML	10.00
6	228	2939	29:23	1	0.999	A BV	413254.	20.000 UG/ML	10.00
7	149	2956	29:34	1	1.005	A BB	374512.	20.000 UG/ML	10.00
8	228	2948	29:29	1	1.002	A BB	263016.	20.000 UG/ML	10.00
9	244	2668	26:41	1	0.907	A BB	416080.	20.000 UG/ML	10.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:06	1.00	0.887	1.00	20.00	20.00	0.008	0.008	1.00
3	26:13	1.00	0.891	1.00	20.00	20.00	1.719	1.719	1.00
4	28:01	1.00	0.952	1.00	20.00	20.00	0.597	0.597	1.00
5	29:22	1.00	0.998	1.00	20.00	20.00	0.162	0.162	1.00
6	29:23	1.00	0.999	1.00	20.00	20.00	0.997	0.997	1.00
7	29:34	1.00	1.005	1.00	20.00	20.00	0.904	0.904	1.00
8	29:29	1.00	1.002	1.00	20.00	20.00	0.635	0.635	1.00
9	26:41	1.00	0.907	1.00	20.00	20.00	1.004	1.004	1.00

RIC
11/20/90 0:39:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 20 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD201119 #1
CALI: HSD201119 #3

SCANS 3050 TO 4600



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000324

Quantitation Report File: HSD201119

Data: HSD201119.TI
11/20/90 0:39:00
Sample: HSL-D STAND 11/19
Conds.: 20 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD20111

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

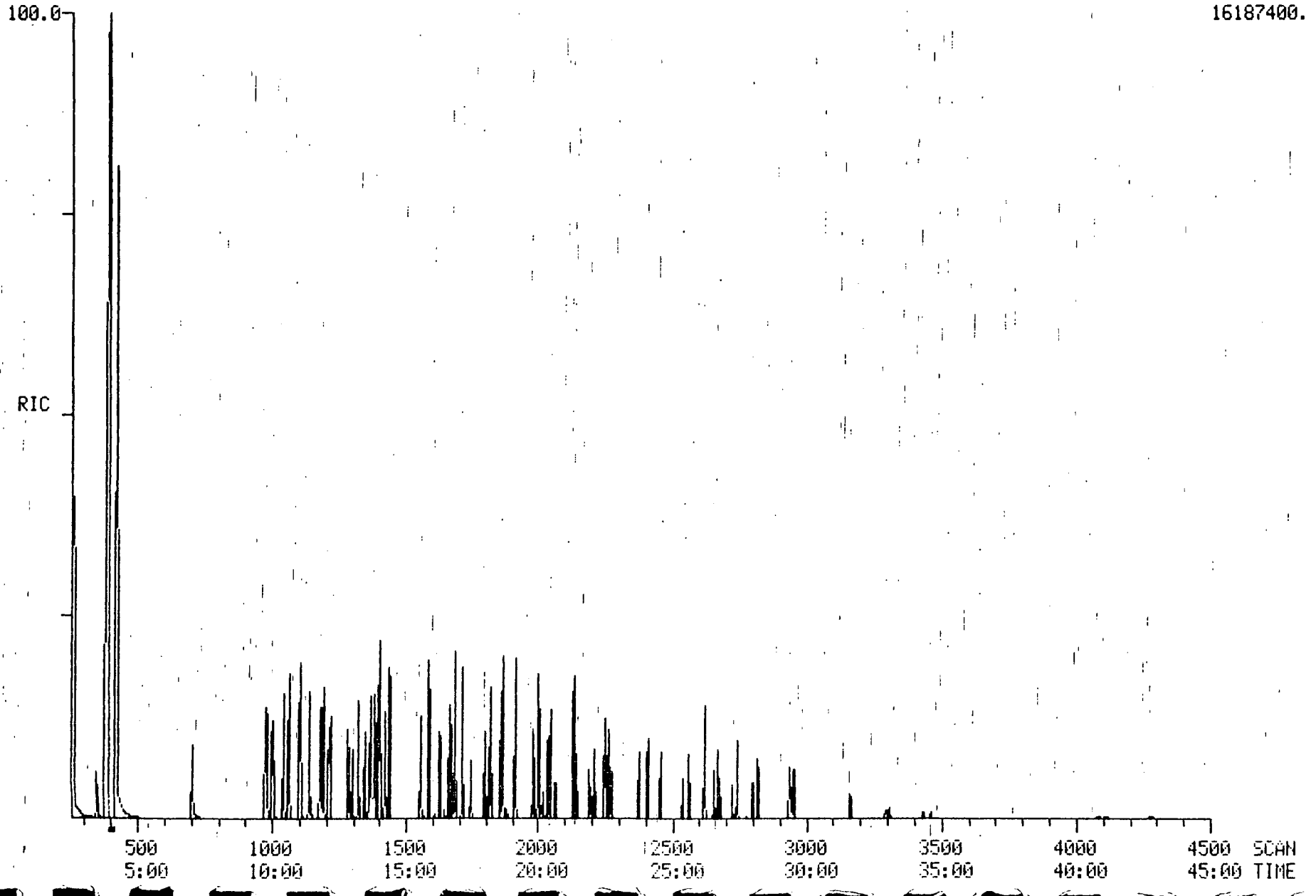
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3463	34:38	1	1.000	A BB	468688.	40.000 UG/ML	22.22
2	149	3164	31:38	1	0.914	A BB	467376.	20.000 UG/ML	11.11
3	252	3295	32:57	1	0.951	A BV	216641.	20.000 UG/ML	11.11
4	252	3306	33:04	1	0.955	A VB	218686.	20.000 UG/ML	11.11
5	252	3435	34:21	1	0.992	A BB	179898.	20.000 UG/NL	11.11
6	276	4086	40:52	1	1.180	A BB	121123.	20.000 UG/ML	11.11
7	278	4112	41:07	1	1.187	A BB	125025.	20.000 UG/ML	11.11
8	276	4277	42:46	1	1.235	A BB	115994.	20.000 UG/ML	11.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:38	1.00	0.914	1.00	20.00	20.00	1.994	1.994	1.00
3	32:57	1.00	0.951	1.00	20.00	20.00	0.924	0.924	1.00
4	33:04	1.00	0.955	1.00	20.00	20.00	0.933	0.933	1.00
5	34:21	1.00	0.992	1.00	20.00	20.00	0.768	0.768	1.00
6	40:52	1.00	1.180	1.00	20.00	20.00	0.517	0.517	1.00
7	41:07	1.00	1.187	1.00	20.00	20.00	0.534	0.534	1.00
8	42:46	1.00	1.235	1.00	20.00	20.00	0.495	0.495	1.00

RIC
11/19/90 20:19:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

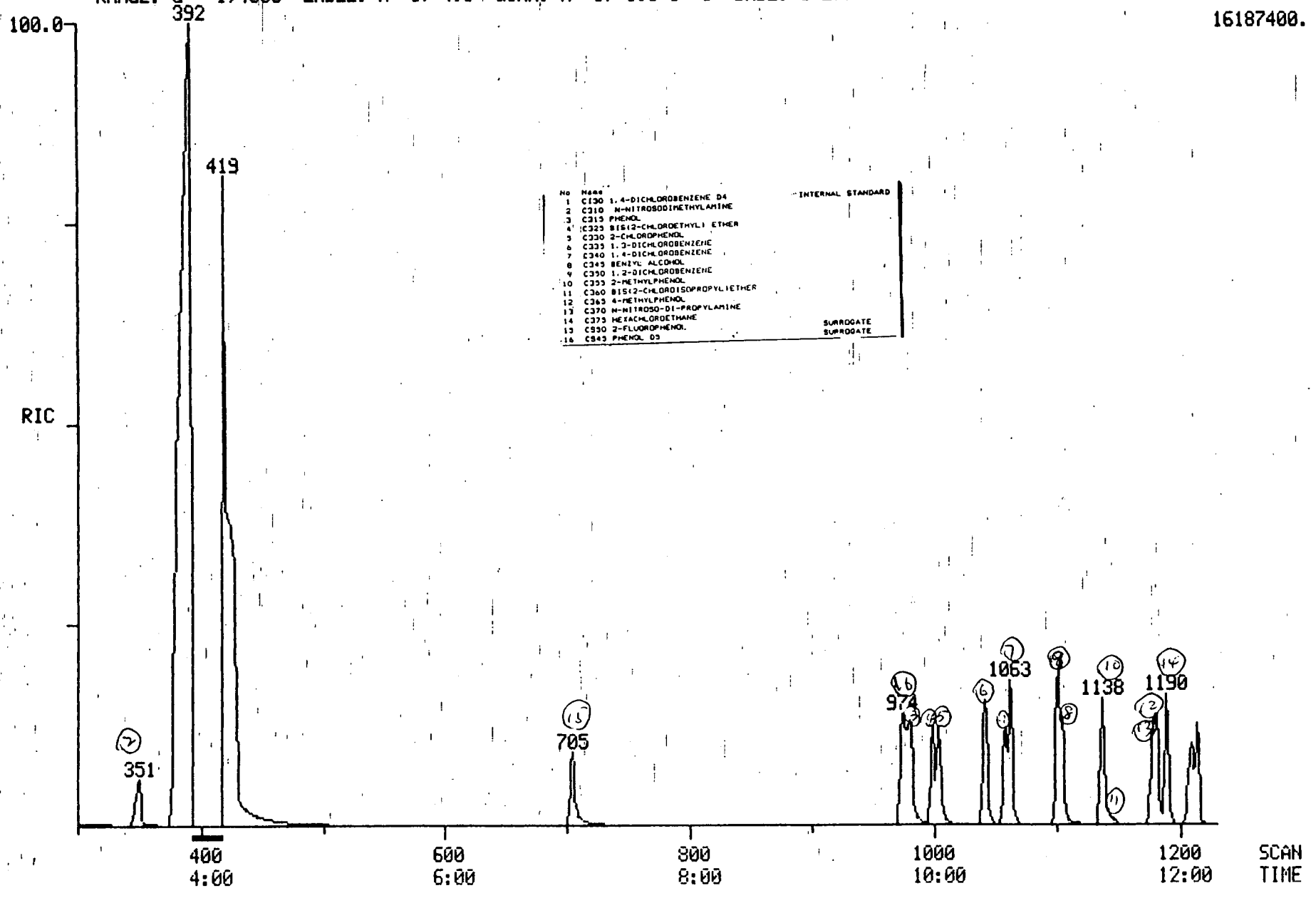
DATA: HSD501119P #1 SCANS 250 TO 4500
CALI: CALTAB #3



000326

RIC
11/19/90 20:19:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501119P #1 SCANS 300 TO 1230
CALI: HSD501119P #3



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C950 2-FLUOROPHENOL	SURROGATE
16	C945 PHENOL D5	SURROGATE

000327

Quantitation Report File: HSD501119P

Data: HSD501119P.TI
11/19/90 20:19:00
Sample: HSL-D STAND 11/19
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1058	10:35	1	1.000	A BB	1375910.	40.000 UG/ML	5.06
2	74	351	3:31	1	0.332	A BB	2083930.	50.000 UG	6.33
3	94	981	9:49	1	0.927	A BB	2935380.	50.000 UG/ML	6.33
4	93	999	9:59	1	0.944	A BB	2369030.	50.000 UG/ML	6.33
5	128	1004	10:02	1	0.949	A BB	2533220.	50.000 UG/ML	6.33
6	146	1042	10:25	1	0.985	A BB	2724860.	50.000 UG/ML	6.33
7	146	1063	10:38	1	1.005	A BB	2721370.	50.000 UG/ML	6.33
8	108	1105	11:03	1	1.044	A BB	1432270.	50.000 UG/ML	6.33
9	146	1101	11:01	1	1.041	A BB	2434630.	50.000 UG/ML	6.33
10	108	1138	11:23	1	1.076	A BB	2119560.	50.000 UG/ML	6.33
11	45	1141	11:25	1	1.078	A BV	90752.	50.000 UG/ML	6.33
12	108	1182	11:49	1	1.117	A BB	1894120.	50.000 UG/ML	6.33
13	70	1179	11:47	1	1.114	A BV	1737550.	50.000 UG/ML	6.33
14	117	1190	11:54	1	1.125	A BB	1195620.	50.000 UG/ML	6.33
15	112	705	7:03	1	0.666	A BB	2060840.	50.000 UG/L	6.33
16	99	976	9:46	1	0.922	A BB	2394020.	50.000 UG/ML	6.33

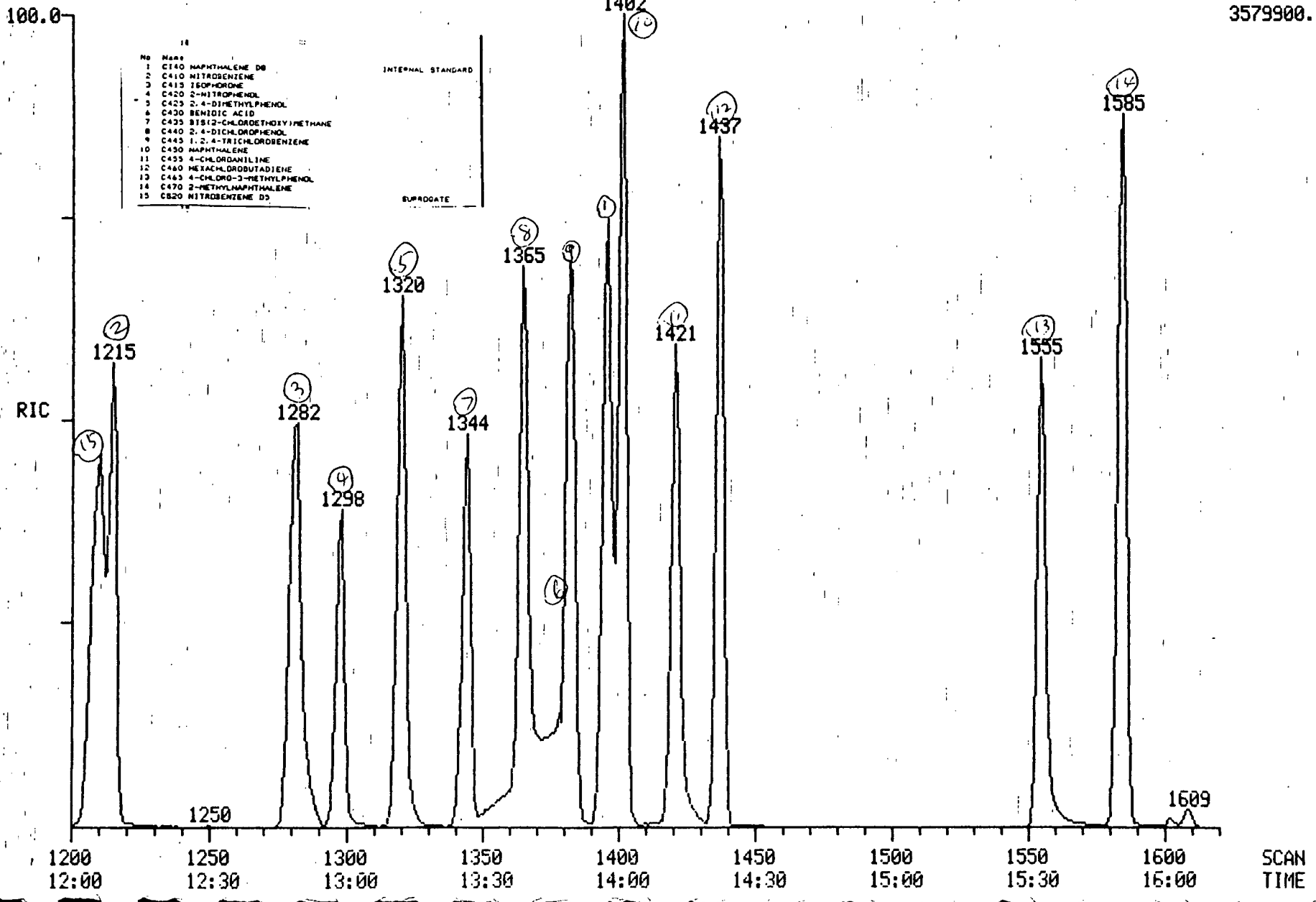
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:31	1.00	0.332	1.00	50.00	50.00	1.212	1.212	1.00
3	9:49	1.00	0.927	1.00	50.00	50.00	1.707	1.707	1.00
4	9:59	1.00	0.944	1.00	50.00	50.00	1.377	1.377	1.00
5	10:02	1.00	0.949	1.00	50.00	50.00	1.473	1.473	1.00
6	10:25	1.00	0.985	1.00	50.00	50.00	1.584	1.584	1.00
7	10:38	1.00	1.005	1.00	50.00	50.00	1.582	1.582	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:03	1.00	1.044	1.00	50.00	50.00	0.833	0.833	1.00
9	11:01	1.00	1.041	1.00	50.00	50.00	1.416	1.416	1.00
10	11:23	1.00	1.076	1.00	50.00	50.00	1.232	1.232	1.00
11	11:25	1.00	1.078	1.00	50.00	50.00	0.053	0.053	1.00
12	11:49	1.00	1.117	1.00	50.00	50.00	1.101	1.101	1.00
13	11:47	1.00	1.114	1.00	50.00	50.00	1.010	1.010	1.00
14	11:54	1.00	1.125	1.00	50.00	50.00	0.695	0.695	1.00
15	7:03	1.00	0.666	1.00	50.00	50.00	1.198	1.198	1.00
16	9:46	1.00	0.922	1.00	50.00	50.00	1.392	1.392	1.00

RIC
11/19/90 20:19:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501119P #1
CALI: HSD501119P #3

SCANS 1200 TO 1620



000330

Quantitation Report File: HSD501119P

000321

Data: HSD501119P.TI
11/19/90 20:19:00
Sample: HSL-D STAND 11/19
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1396	13:58	1	1.000	A BB	4935400.	40.000 UG/ML	5.41
2	77	1215	12:09	1	0.870	A BB	2506950.	50.000 UG/ML	6.76
3	82	1282	12:49	1	0.918	A BV	4334150.	50.000 UG/ML	6.76
4	139	1298	12:59	1	0.930	A BB	948352.	50.000 UG/ML	6.76
5	122	1320	13:12	1	0.946	A BB	1670690.	50.000 UG/ML	6.76
6	122	1377	13:46	1	0.986	A BB	780895.	50.000 UG/ML	6.76
7	93	1344	13:26	1	0.963	A BB	2262000.	50.000 UG/ML	6.76
8	162	1365	13:39	1	0.978	A BB	1771790.	50.000 UG/ML	6.76
9	180	1382	13:49	1	0.990	A BB	2079680.	50.000 UG/ML	6.76
10	128	1402	14:01	1	1.004	A BB	5805630.	50.000 UG/ML	6.76
11	127	1421	14:13	1	1.018	A BB	2340160.	50.000 UG/ML	6.76
12	225	1437	14:22	1	1.029	A BB	1206140.	50.000 UG/ML	6.76
13	107	1555	15:33	1	1.114	A BB	1733090.	50.000 UG/ML	6.76
14	142	1585	15:51	1	1.135	A BB	3394660.	50.000 UG/ML	6.76
15	82	1210	12:06	1	0.867	A BB	2957070.	50.000 UG/ML	6.76

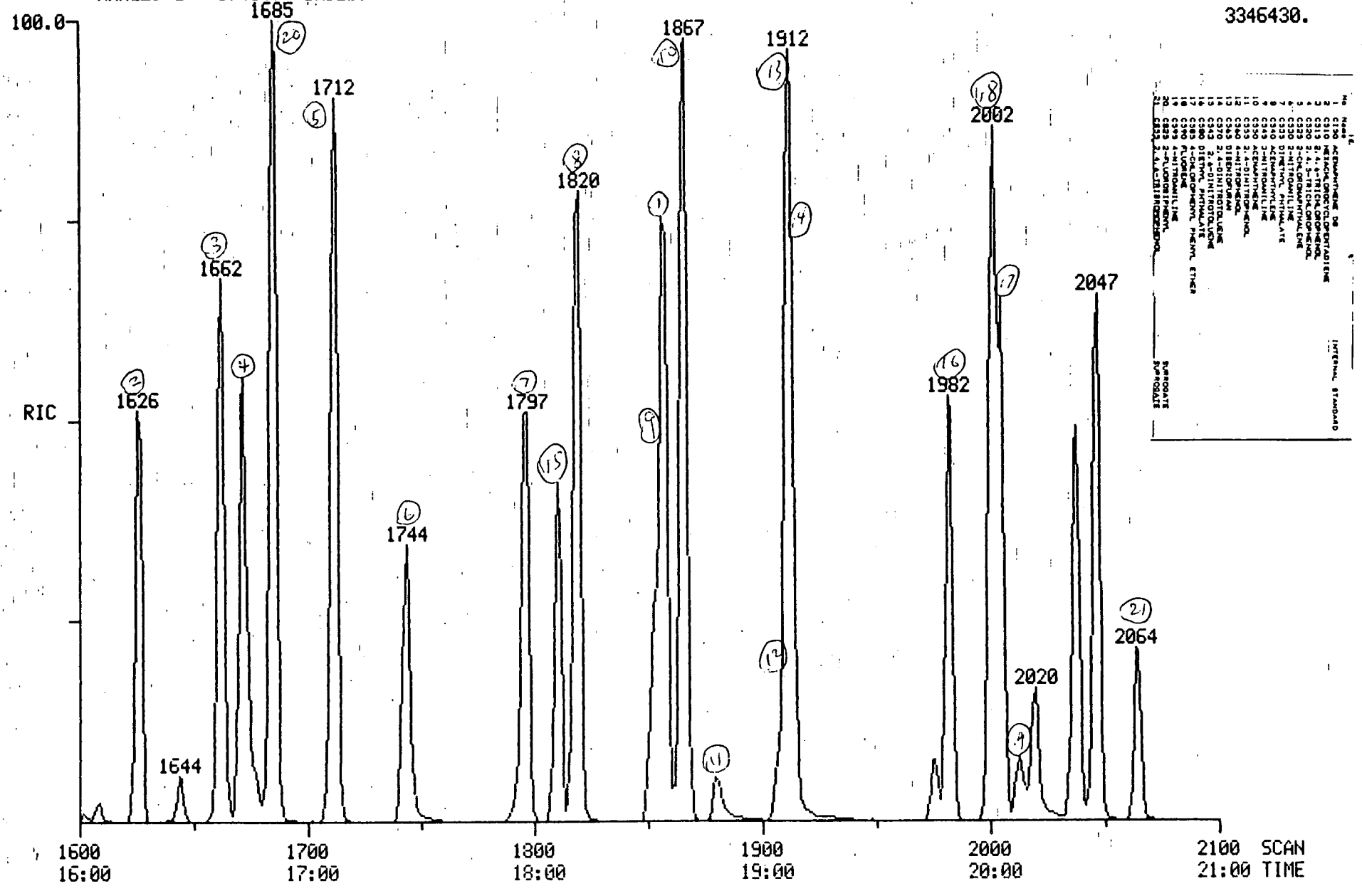
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:09	1.00	0.870	1.00	50.00	50.00	0.406	0.406	1.00
3	12:49	1.00	0.918	1.00	50.00	50.00	0.703	0.703	1.00
4	12:59	1.00	0.930	1.00	50.00	50.00	0.154	0.154	1.00
5	13:12	1.00	0.946	1.00	50.00	50.00	0.271	0.271	1.00
6	13:46	1.00	0.986	1.00	50.00	50.00	0.127	0.127	1.00
7	13:26	1.00	0.963	1.00	50.00	50.00	0.367	0.367	1.00
8	13:39	1.00	0.978	1.00	50.00	50.00	0.287	0.287	1.00
9	13:49	1.00	0.990	1.00	50.00	50.00	0.337	0.337	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:01	1.00	1.004	1.00	50.00	50.00	0.941	0.941	1.00
11	14:13	1.00	1.018	1.00	50.00	50.00	0.379	0.379	1.00
12	14:22	1.00	1.029	1.00	50.00	50.00	0.196	0.196	1.00
13	15:33	1.00	1.114	1.00	50.00	50.00	0.281	0.281	1.00
14	15:51	1.00	1.135	1.00	50.00	50.00	0.550	0.550	1.00
15	12:06	1.00	0.867	1.00	50.00	50.00	0.479	0.479	1.00

RIC
11/19/90 20:19:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501119P #1
CALI: HSD501119P #3

SCANS 1600 TO 2100



No	Name	Id.
1	C130 ACENAPHTHENE D8	
2	C310 METACHLOROCYCLOPENTADIENE	
3	C320 2,4,6-TRICHLOROPHENOL	
4	C323 2,4,5-TRICHLOROPHENOL	
5	C330 2-NITROANILINE	
6	C333 DIMETHYL PHTHALATE	
7	C340 ACENAPHTHYLENE	
8	C350 2,6-DINITROTOLUENE	
9	C353 3-NITROANILINE	
10	C360 ACENAPHTHENE	
11	C363 2,4-DINITROPHENOL	
12	C365 DIBENZOFURAN	
13	C370 2,4-DINITROTOLUENE	
14	C373 4-NITROPHENOL	
15	C380 DIETHYL PHTHALATE	
16	C383 4-CHLOROPHENYL PHENYL ETHER	
17	C390 FLUORENE	
18	C393 4-NITROANILINE	
19	C400 2-METHYL-4,6-DINITROPHENOL	
20	C403 2-FLUOROBIPHENYL	SURROGATE
21	C423 2,4,6-TRIBROMOPHENOL	SURROGATE

INTERNAL STANDARD

000323

Quantitation Report File: HSD501119P

Data: HSD501119P.TI
11/19/90 20:19:00
Sample: HSL-D STAND 11/19
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

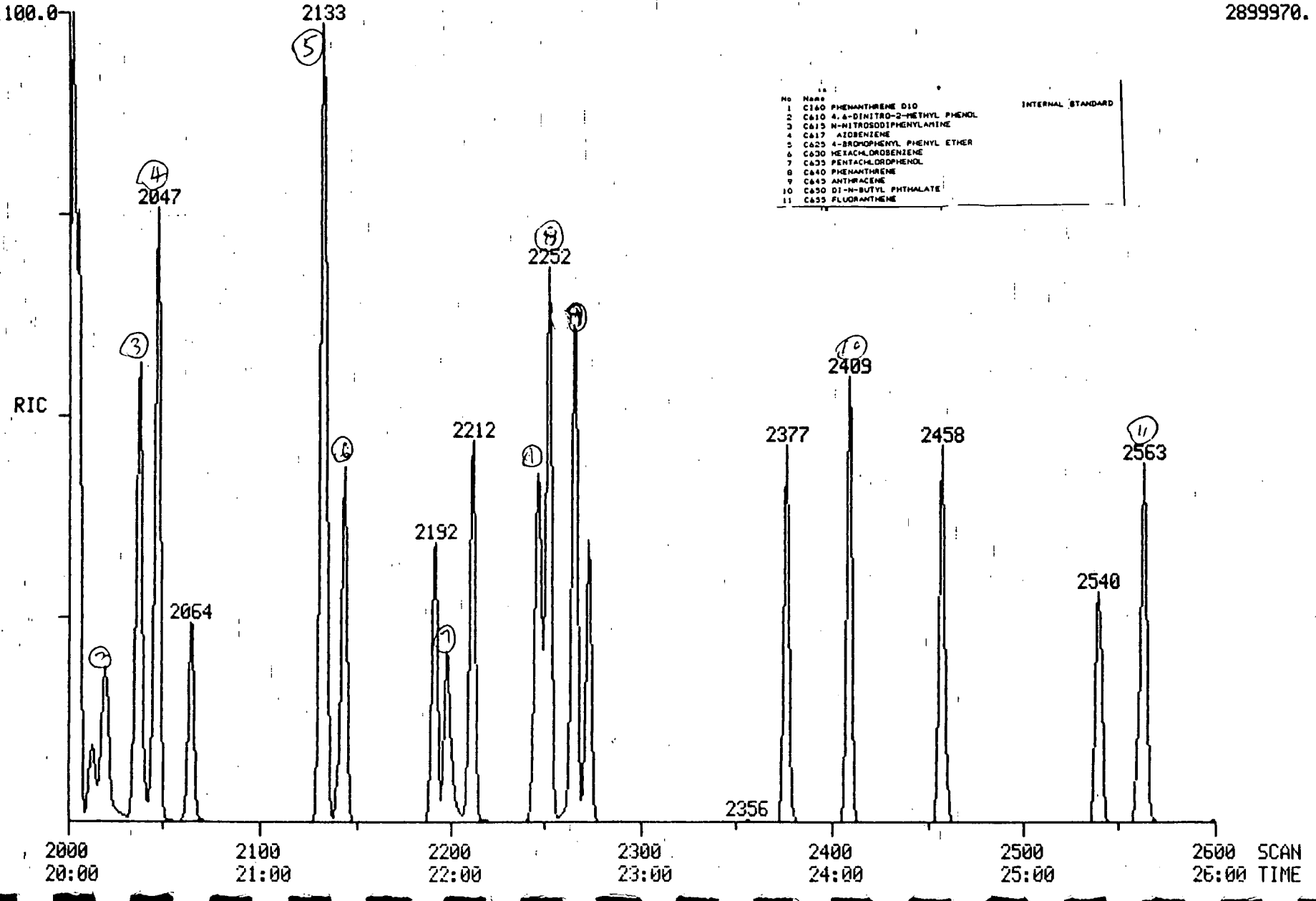
No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1857	18:34	1	1.000	A BB	2163570.	40.000 UG/ML	3.85
2	237	1626	16:16	1	0.876	A BB	799344.	50.000 UG/ML	4.81
3	196	1662	16:37	1	0.895	A BV	1120700.	50.000 UG/ML	4.81
4	196	1672	16:43	1	0.900	A VB	1216820.	50.000 UG/ML	4.81
5	162	1712	17:07	1	0.922	A BB	3456930.	50.000 UG/ML	4.81
6	65	1744	17:26	1	0.939	A BB	934401.	50.000 UG/ML	4.81
7	163	1796	17:58	1	0.967	A BB	3053100.	50.000 UG/ML	4.81
8	152	1820	18:12	1	0.980	A BB	4599150.	50.000 UG/ML	4.81
9	138	1853	18:32	1	0.998	A BB	569052.	50.000 UG/ML	4.81
10	154	1866	18:40	1	1.005	A VB	2884700.	50.000 UG/ML	4.81
11	184	1880	18:48	1	1.012	A BB	123101.	50.000 UG/ML	4.81
12	109	1907	19:04	1	1.027	A BB	174092.	50.000 UG/ML	4.81
13	168	1912	19:07	1	1.030	A BB	4133560.	50.000 UG/ML	4.81
14	165	1914	19:08	1	1.031	A BB	784384.	50.000 UG/ML	4.81
15	165	1811	18:07	1	0.975	A BB	685328.	50.000 UG/ML	4.81
16	149	1982	19:49	1	1.067	A BB	2603000.	50.000 UG/ML	4.81
17	204	2005	20:03	1	1.080	A BB	1258110.	50.000 UG/ML	4.81
18	166	2002	20:01	1	1.078	A BB	2810900.	50.000 UG/ML	4.81
19	138	2013	20:08	1	1.084	A BB	299472.	50.000 UG/ML	4.81
20	172	1685	16:51	1	0.907	A BB	3984830.	50.000 UG/ML	4.81
21	330	2064	20:38	1	1.111	A BB	247200.	50.000 UG/ML	4.81

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:16	1.00	0.876	1.00	50.00	50.00	0.296	0.296	1.00
3	16:37	1.00	0.895	1.00	50.00	50.00	0.414	0.414	1.00
4	16:43	1.00	0.900	1.00	50.00	50.00	0.450	0.450	1.00
5	17:07	1.00	0.922	1.00	50.00	50.00	1.278	1.278	1.00
6	17:26	1.00	0.939	1.00	50.00	50.00	0.346	0.346	1.00
7	17:58	1.00	0.967	1.00	50.00	50.00	1.129	1.129	1.00
8	18:12	1.00	0.980	1.00	50.00	50.00	1.701	1.701	1.00
9	18:32	1.00	0.998	1.00	50.00	50.00	0.210	0.210	1.00
10	18:40	1.00	1.005	1.00	50.00	50.00	1.067	1.067	1.00
11	18:48	1.00	1.012	1.00	50.00	50.00	0.046	0.046	1.00
12	19:04	1.00	1.027	1.00	50.00	50.00	0.064	0.064	1.00
13	19:07	1.00	1.030	1.00	50.00	50.00	1.528	1.528	1.00
14	19:08	1.00	1.031	1.00	50.00	50.00	0.290	0.290	1.00
15	18:07	1.00	0.975	1.00	50.00	50.00	0.253	0.253	1.00
16	19:49	1.00	1.067	1.00	50.00	50.00	0.962	0.962	1.00
17	20:03	1.00	1.080	1.00	50.00	50.00	0.465	0.465	1.00
18	20:01	1.00	1.078	1.00	50.00	50.00	1.039	1.039	1.00
19	20:08	1.00	1.084	1.00	50.00	50.00	0.111	0.111	1.00
20	16:51	1.00	0.907	1.00	50.00	50.00	1.473	1.473	1.00
21	20:38	1.00	1.111	1.00	50.00	50.00	0.091	0.091	1.00

RIC
11/19/90 20:19:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501119P #1 SCANS 2000 TO 2600
CALI: HSD501119P #3



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000336

Quantitation Report File: HSD501119P

Data: HSD501119P.TI
11/19/90 20:19:00
Sample: HSL-D STAND 11/19
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

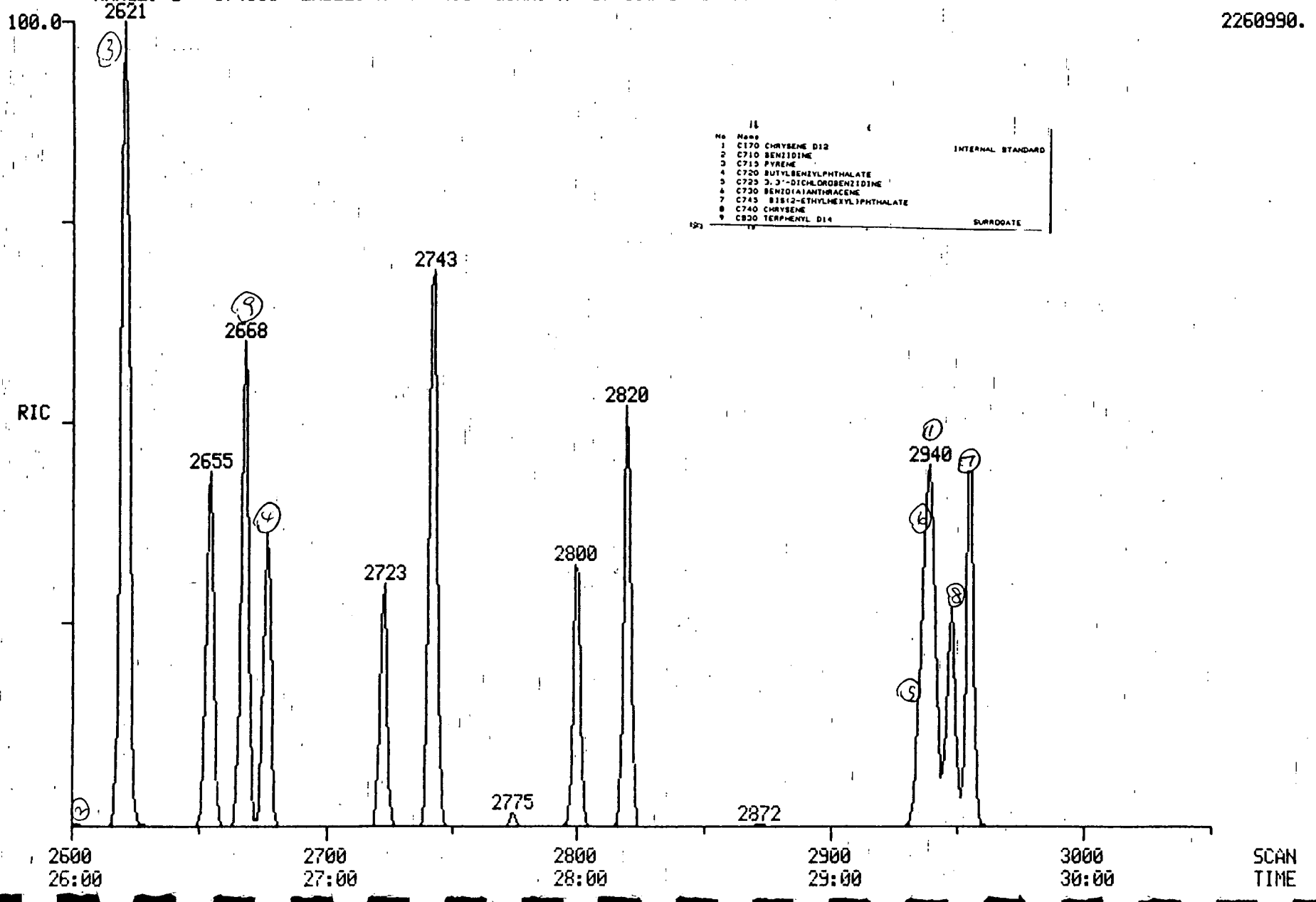
No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2246	22:28	1	1.000	A BV	1088230.	40.000 UG/ML	7.41
2	198	2020	20:12	1	0.899	A BB	227882.	50.000 UG/ML	9.26
3	169	2038	20:23	1	0.907	A BB	1483710.	50.000 UG/ML	9.26
4	77	2047	20:28	1	0.911	A VB	3367630.	50.000 NG	9.26
5	248	2132	21:19	1	0.949	A BV	675936.	50.000 UG/ML	9.26
6	284	2144	21:26	1	0.955	A BB	582944.	50.000 UG/ML	9.26
7	266	2198	21:59	1	0.979	A BV	251500.	50.000 UG/ML	9.26
8	178	2252	22:31	1	1.003	A BB	2840900.	50.000 UG/ML	9.26
9	178	2265	22:39	1	1.008	A VB	2725280.	50.000 UG/ML	9.26
10	149	2409	24:05	1	1.073	A BB	2931700.	50.000 UG/ML	9.26
11	202	2563	25:38	1	1.141	A BB	1856060.	50.000 UG/ML	9.26

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:12	1.00	0.899	1.00	50.00	50.00	0.168	0.168	1.00
3	20:23	1.00	0.907	1.00	50.00	50.00	1.091	1.091	1.00
4	20:28	1.00	0.911	1.00	50.00	50.00	2.476	2.476	1.00
5	21:19	1.00	0.949	1.00	50.00	50.00	0.497	0.497	1.00
6	21:26	1.00	0.955	1.00	50.00	50.00	0.429	0.429	1.00
7	21:59	1.00	0.979	1.00	50.00	50.00	0.185	0.185	1.00
8	22:31	1.00	1.003	1.00	50.00	50.00	2.088	2.088	1.00
9	22:39	1.00	1.008	1.00	50.00	50.00	2.003	2.003	1.00
10	24:05	1.00	1.073	1.00	50.00	50.00	2.155	2.155	1.00
11	25:38	1.00	1.141	1.00	50.00	50.00	1.364	1.364	1.00

RIC
11/19/90 20:19:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501119P #1 SCANS 2600 TO 3050
CALI: HSD501119P #3



000328

Quantitation Report File: HSD501119P

Data: HSD501119P.TI
11/19/90 20:19:00
Sample: HSL-D STAND 11/19
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

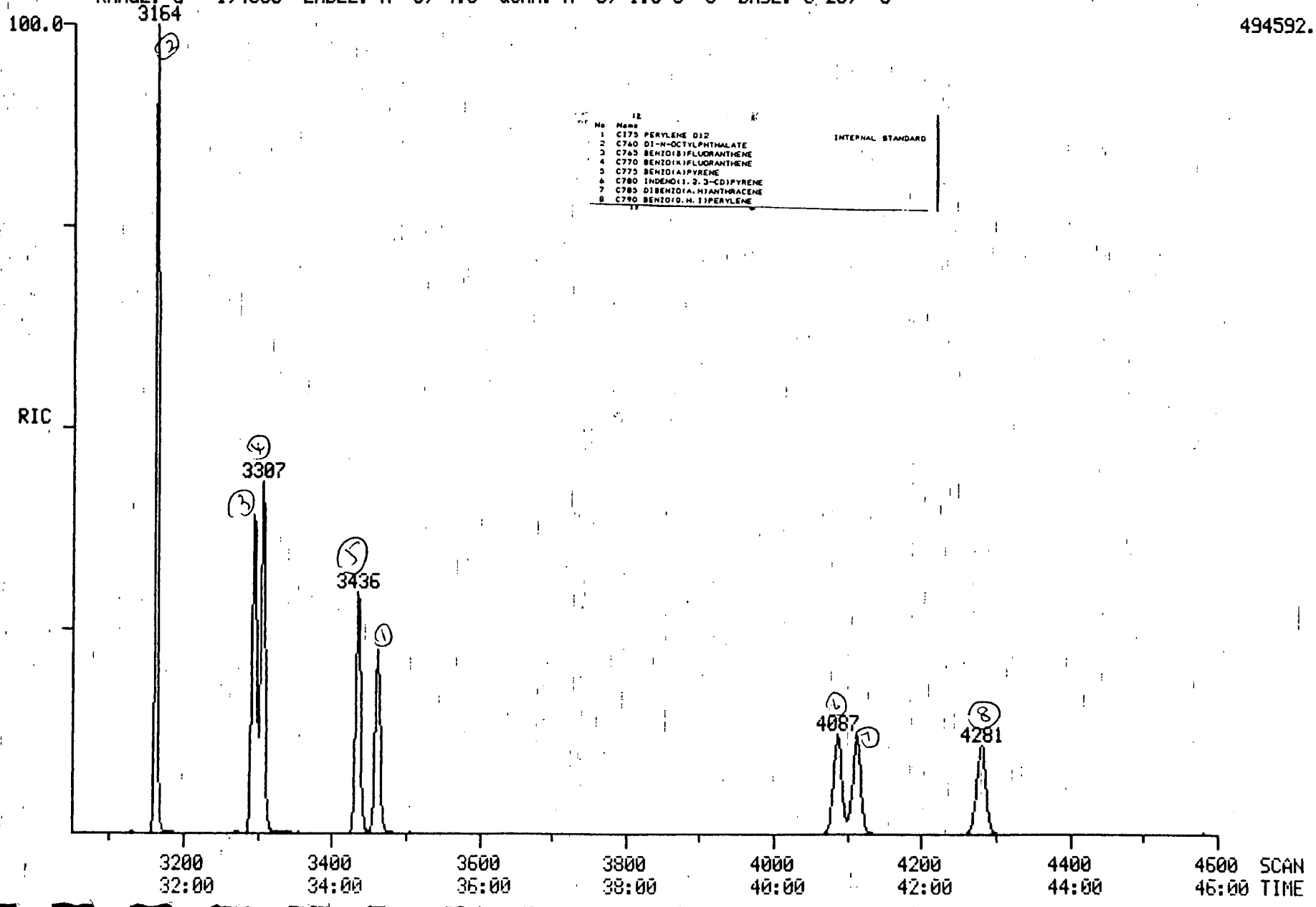
N	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

N	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2941	29:25	1	1.000	A BB	766832.	40.000 UG/ML	9.09
2	184	2602	26:01	1	0.885	A BB	21142.	50.000 UG/ML	11.36
3	202	2621	26:13	1	0.891	A BB	2113240.	50.000 UG/ML	11.36
4	149	2800	28:00	1	0.952	A BB	657728.	50.000 UG/ML	11.36
5	252	2935	29:21	1	0.998	A BB	195424.	50.000 UG/ML	11.36
6	228	2938	29:23	1	0.999	A BV	1060520.	50.000 UG/ML	11.36
7	149	2955	29:33	1	1.005	A BB	975995.	50.000 UG/ML	11.36
8	228	2948	29:29	1	1.002	A BB	739876.	50.000 UG/ML	11.36
9	244	2668	26:41	1	0.907	A BV	1479300.	50.000 UG/ML	11.36

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:01	1.00	0.885	1.00	50.00	50.00	0.022	0.022	1.00
3	26:13	1.00	0.891	1.00	50.00	50.00	2.205	2.205	1.00
4	28:00	1.00	0.952	1.00	50.00	50.00	0.686	0.686	1.00
5	29:21	1.00	0.998	1.00	50.00	50.00	0.204	0.204	1.00
6	29:23	1.00	0.999	1.00	50.00	50.00	1.106	1.106	1.00
7	29:33	1.00	1.005	1.00	50.00	50.00	1.018	1.018	1.00
8	29:29	1.00	1.002	1.00	50.00	50.00	0.772	0.772	1.00
9	26:41	1.00	0.907	1.00	50.00	50.00	1.543	1.543	1.00

RIC
11/19/90 20:19:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501119P #1 SCANS 3050 TO 4600
CALI: HSD501119P #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000340

Quantitation Report File: HSD501119P

Data: HSD501119P.TI
11/19/90 20:19:00
Sample: HSL-D STAND 11/19
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

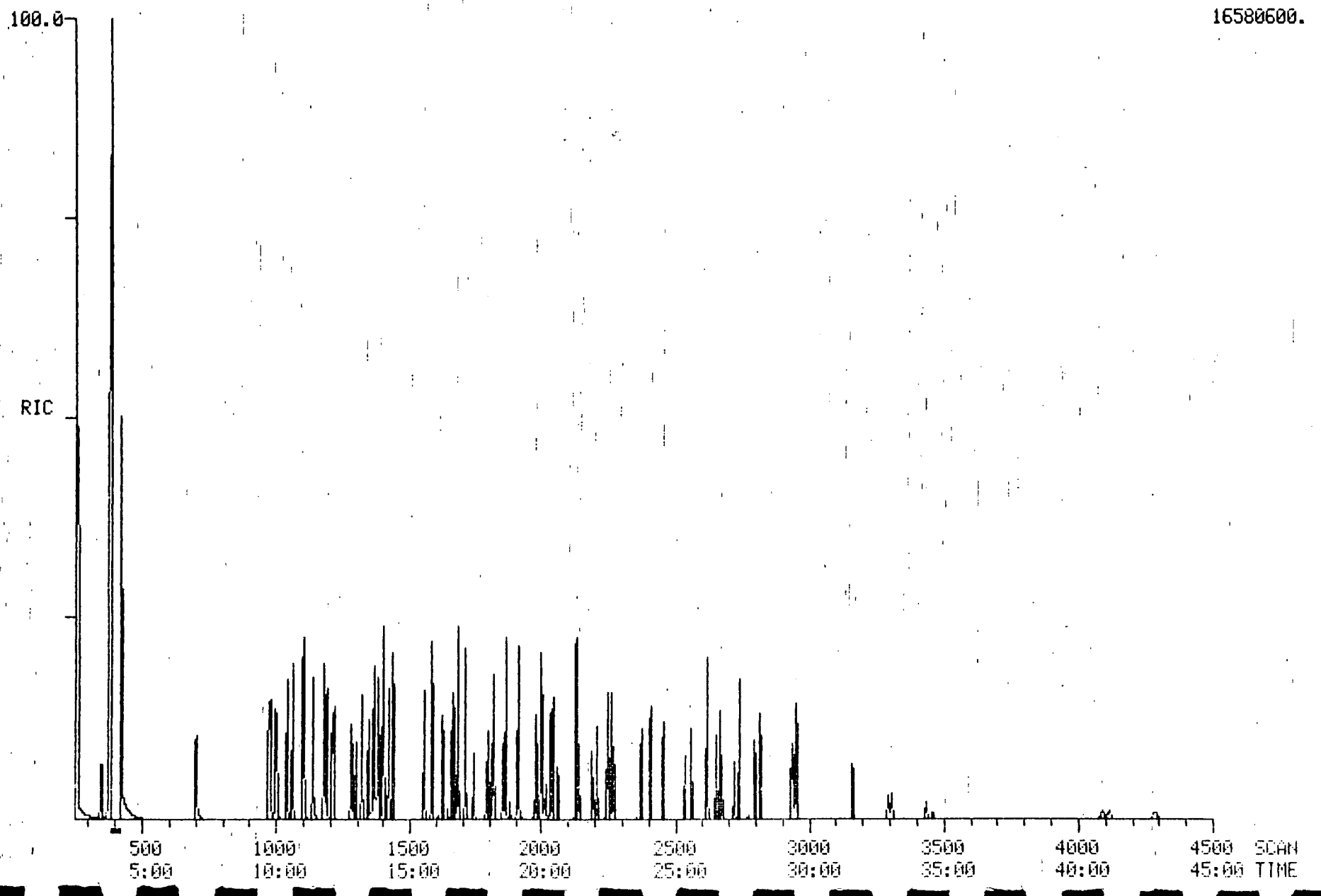
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3462	34:37	1	1.000	A BB	346371.	40.000 UG/ML	10.26
2	149	3164	31:38	1	0.914	A BB	1172050.	50.000 UG/ML	12.82
3	252	3296	32:58	1	0.952	A BV	537854.	50.000 UG/ML	12.82
4	252	3307	33:04	1	0.955	A VB	551776.	50.000 UG/ML	12.82
5	252	3436	34:22	1	0.992	A BB	454049.	50.000 UG/NL	12.82
6	276	4087	40:52	1	1.181	A BB	267354.	50.000 UG/ML	12.82
7	278	4114	41:08	1	1.188	A BB	266208.	50.000 UG/ML	12.82
8	276	4280	42:48	1	1.236	A BB	279614.	50.000 UG/ML	12.82

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:38	1.00	0.914	1.00	50.00	50.00	2.707	2.707	1.00
3	32:58	1.00	0.952	1.00	50.00	50.00	1.242	1.242	1.00
4	33:04	1.00	0.955	1.00	50.00	50.00	1.274	1.274	1.00
5	34:22	1.00	0.992	1.00	50.00	50.00	1.049	1.049	1.00
6	40:52	1.00	1.181	1.00	50.00	50.00	0.617	0.617	1.00
7	41:08	1.00	1.188	1.00	50.00	50.00	0.615	0.615	1.00
8	42:48	1.00	1.236	1.00	50.00	50.00	0.646	0.646	1.00

RIC
11/19/90 22:00:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

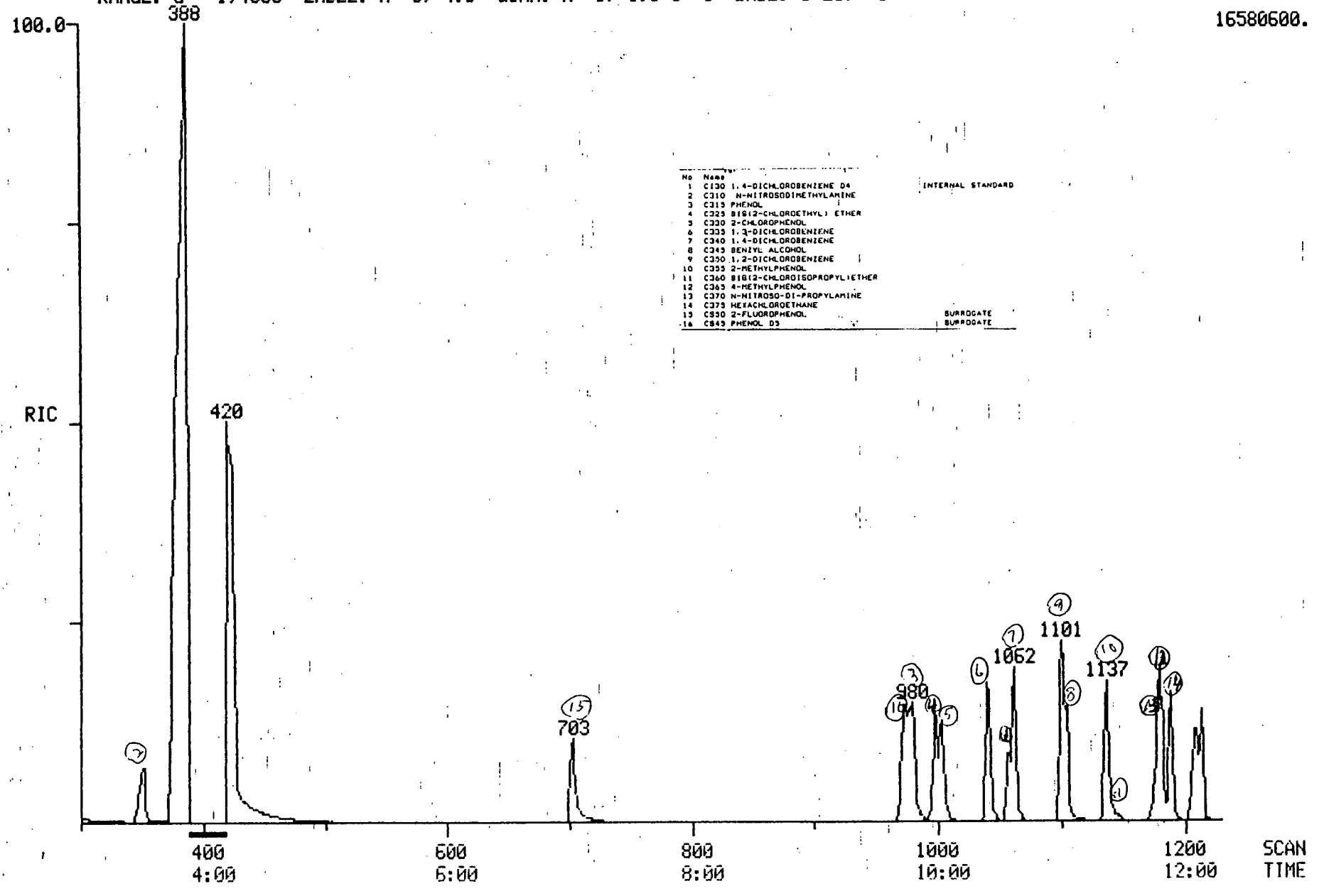
DATA: HSD801119 #1 SCANS 250 TO 4500
CALI: CALTAB #3



000342

RIC
11/19/90 22:00:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801119 #1 SCANS 300 TO 1230
CALI: HSD801119 #3



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C830 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000343

Quantitation Report File: HSD801119

Data: HSD801119.TI
11/19/90 22:00:00
Sample: HSL-D STAND 11/19
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD80111

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1057	10:34	1	1.000	A BB	1013680.	40.000 UG/ML	3.23
2	74	351	3:31	1	0.332	A BB	2876010.	80.000 UG	6.45
3	94	980	9:48	1	0.927	A BB	3541330.	80.000 UG/ML	6.45
4	93	998	9:59	1	0.944	A BB	2957810.	80.000 UG/ML	6.45
5	128	1003	10:02	1	0.949	A BB	3086590.	80.000 UG/ML	6.45
6	146	1041	10:25	1	0.985	A BB	3137240.	80.000 UG/ML	6.45
7	146	1062	10:37	1	1.005	A BB	3188250.	80.000 UG/ML	6.45
8	108	1105	11:03	1	1.045	A BB	1762540.	80.000 UG/ML	6.45
9	146	1101	11:01	1	1.042	A BB	2854120.	80.000 UG/ML	6.45
10	108	1137	11:22	1	1.076	A BB	2554680.	80.000 UG/ML	6.45
11	45	1140	11:24	1	1.079	A BV	120432.	80.000 UG/ML	6.45
12	108	1182	11:49	1	1.118	A BB	2280360.	80.000 UG/ML	6.45
13	70	1179	11:47	1	1.115	A BB	2245100.	80.000 UG/ML	6.45
14	117	1189	11:53	1	1.125	A BB	1394580.	80.000 UG/ML	6.45
15	112	703	7:02	1	0.665	A BB	2470410.	80.000 UG/L	6.45
16	99	976	9:46	1	0.923	A BB	2897640.	80.000 UG/ML	6.45

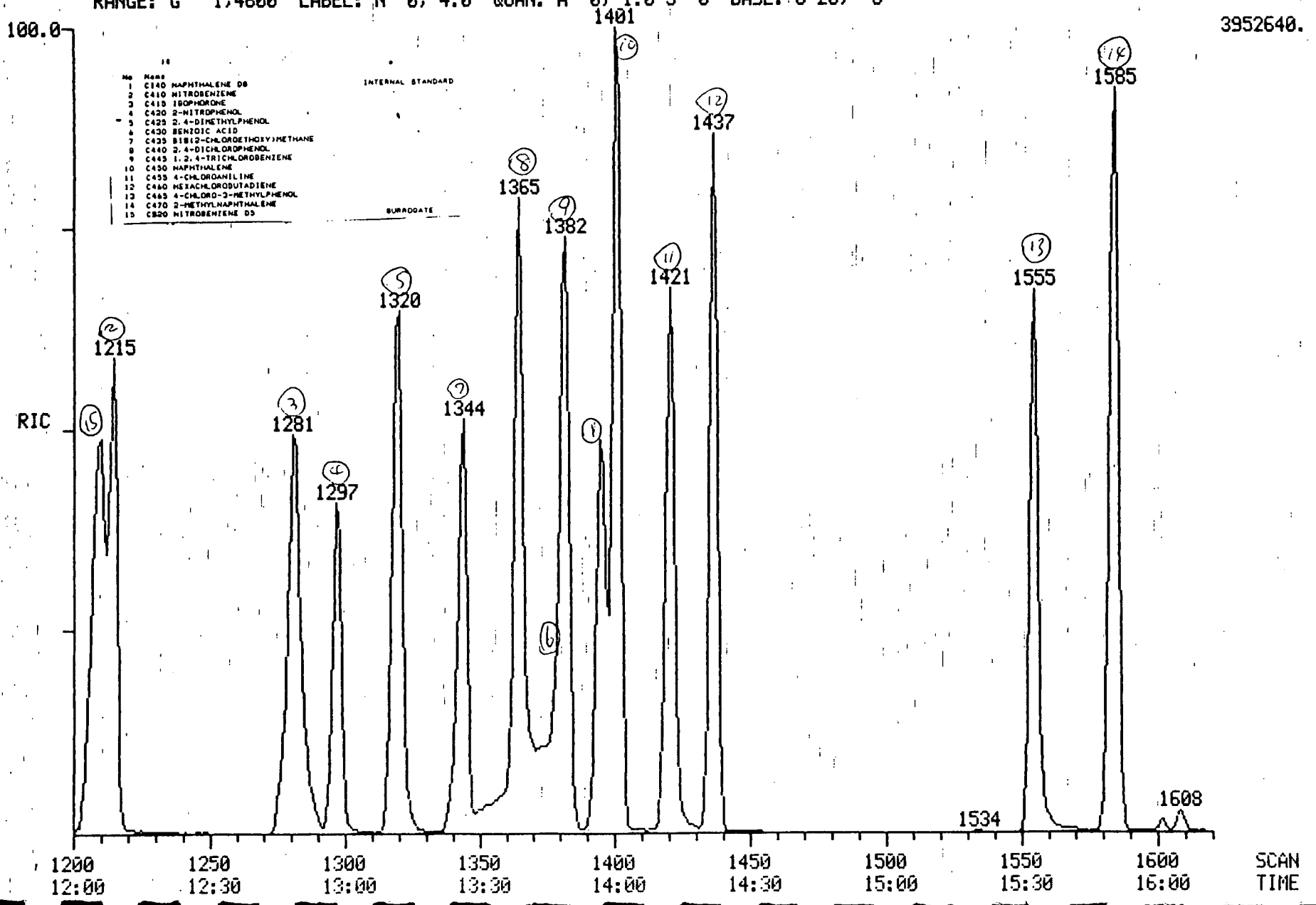
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:31	1.00	0.332	1.00	80.00	80.00	1.419	1.419	1.00
3	9:48	1.00	0.927	1.00	80.00	80.00	1.747	1.747	1.00
4	9:59	1.00	0.944	1.00	80.00	80.00	1.459	1.459	1.00
5	10:02	1.00	0.949	1.00	80.00	80.00	1.522	1.522	1.00
6	10:25	1.00	0.985	1.00	80.00	80.00	1.547	1.547	1.00
7	10:37	1.00	1.005	1.00	80.00	80.00	1.573	1.573	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:03	1.00	1.045	1.00	80.00	80.00	0.869	0.869	1.00
9	11:01	1.00	1.042	1.00	80.00	80.00	1.408	1.408	1.00
10	11:22	1.00	1.076	1.00	80.00	80.00	1.260	1.260	1.00
11	11:24	1.00	1.079	1.00	80.00	80.00	0.059	0.059	1.00
12	11:49	1.00	1.118	1.00	80.00	80.00	1.125	1.125	1.00
13	11:47	1.00	1.115	1.00	80.00	80.00	1.107	1.107	1.00
14	11:53	1.00	1.125	1.00	80.00	80.00	0.688	0.688	1.00
15	7:02	1.00	0.665	1.00	80.00	80.00	1.219	1.219	1.00
16	9:46	1.00	0.923	1.00	80.00	80.00	1.429	1.429	1.00

RIC
11/19/90 22:00:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801119 #1
CALI: HSD801119 #3

SCANS 1200 TO 1620



0003346

Quantitation Report File: HSD801119

Data: _HSD801119.TI
11/19/90 22:00:00
Sample: HSL-D STAND 11/19
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD80111

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1395	13:57	1	1.000	A BB	3573600.	40.000 UG/ML	3.45
2	77	1215	12:09	1	0.871	A BB	3048190.	80.000 UG/ML	6.90
3	82	1281	12:49	1	0.918	A BB	5437200.	80.000 UG/ML	6.90
4	139	1297	12:58	1	0.930	A BB	1192420.	80.000 UG/ML	6.90
5	122	1320	13:12	1	0.946	A BB	2089630.	80.000 UG/ML	6.90
6	122	1378	13:47	1	0.988	A BB	797531.	80.000 UG/ML	6.90
7	93	1344	13:26	1	0.963	A BB	2913090.	80.000 UG/ML	6.90
8	162	1365	13:39	1	0.978	A BB	2208570.	80.000 UG/ML	6.90
9	180	1382	13:49	1	0.991	A BB	2366610.	80.000 UG/ML	6.90
10	128	1401	14:01	1	1.004	A BB	6745720.	80.000 UG/ML	6.90
11	127	1421	14:13	1	1.019	A BB	2919600.	80.000 UG/ML	6.90
12	225	1437	14:22	1	1.030	A BB	1370530.	80.000 UG/ML	6.90
13	107	1555	15:33	1	1.115	A BB	2157590.	80.000 UG/ML	6.90
14	142	1585	15:51	1	1.136	A BB	4039010.	80.000 UG/ML	6.90
15	82	1209	12:05	1	0.867	A BB	3527850.	80.000 UG/ML	6.90

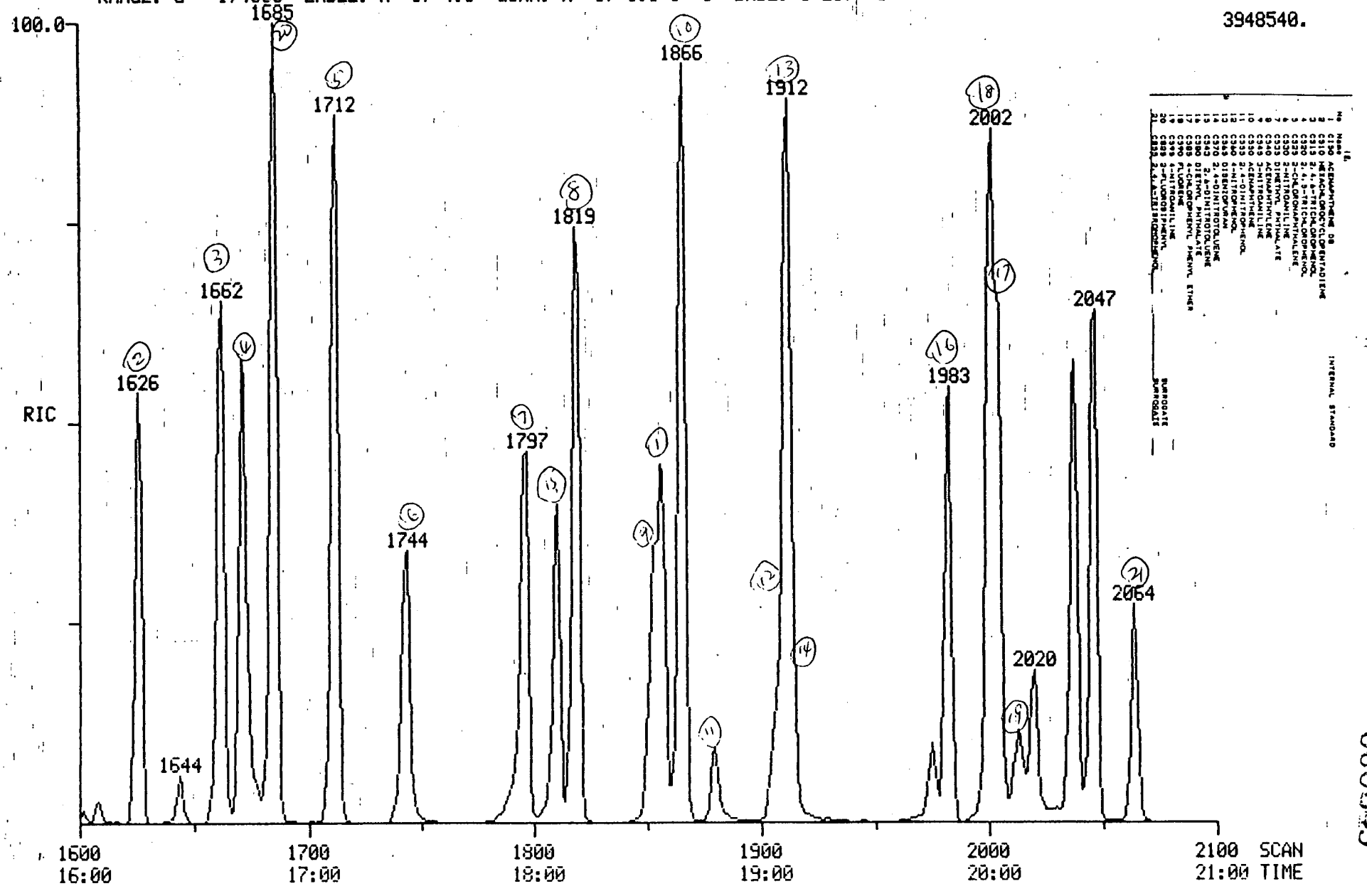
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:09	1.00	0.871	1.00	80.00	80.00	0.426	0.426	1.00
3	12:49	1.00	0.918	1.00	80.00	80.00	0.761	0.761	1.00
4	12:58	1.00	0.930	1.00	80.00	80.00	0.167	0.167	1.00
5	13:12	1.00	0.946	1.00	80.00	80.00	0.292	0.292	1.00
6	13:47	1.00	0.988	1.00	80.00	80.00	0.112	0.112	1.00
7	13:26	1.00	0.963	1.00	80.00	80.00	0.408	0.408	1.00
8	13:39	1.00	0.978	1.00	80.00	80.00	0.309	0.309	1.00
9	13:49	1.00	0.991	1.00	80.00	80.00	0.331	0.331	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:01	1.00	1.004	1.00	80.00	80.00	0.944	0.944	1.00
11	14:13	1.00	1.019	1.00	80.00	80.00	0.408	0.408	1.00
12	14:22	1.00	1.030	1.00	80.00	80.00	0.192	0.192	1.00
13	15:33	1.00	1.115	1.00	80.00	80.00	0.302	0.302	1.00
14	15:51	1.00	1.136	1.00	80.00	80.00	0.565	0.565	1.00
15	12:05	1.00	0.867	1.00	80.00	80.00	0.494	0.494	1.00

RIC
11/19/90 22:00:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801119 #1
CALI: HSD801119 #3

SCANS 1600 TO 2100



000349

Quantitation Report File: HSD801119

Data: HSD801119.TI
11/19/90 22:00:00
Sample: HSL-D STAND 11/19
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD80111

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

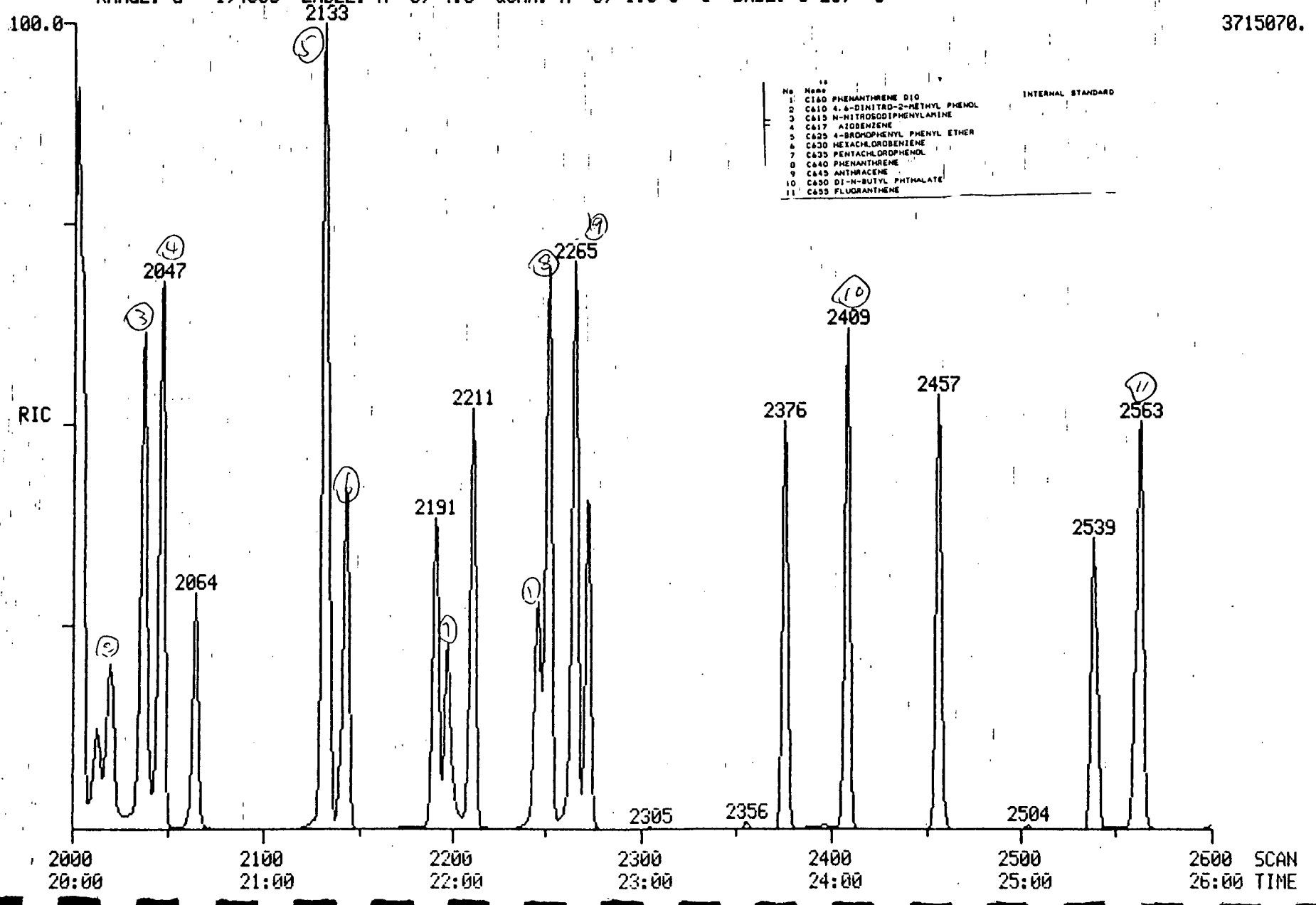
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1856	18:34	1	1.000	A BB	1475500.	40.000 UG/ML	2.44
2	237	1626	16:16	1	0.876	A BB	991888.	80.000 UG/ML	4.88
3	196	1662	16:37	1	0.895	A BV	1347210.	80.000 UG/ML	4.88
4	196	1671	16:43	1	0.900	A VB	1427090.	80.000 UG/ML	4.88
5	162	1712	17:07	1	0.922	A BB	4116060.	80.000 UG/ML	4.88
6	65	1744	17:26	1	0.940	A BB	1208580.	80.000 UG/ML	4.88
7	163	1796	17:58	1	0.968	A BB	3653620.	80.000 UG/ML	4.88
8	152	1819	18:11	1	0.980	A BB	5089800.	80.000 UG/ML	4.88
9	138	1853	18:32	1	0.998	A BB	841865.	80.000 UG/ML	4.88
10	154	1866	18:40	1	1.005	A BB	3254800.	80.000 UG/ML	4.88
11	184	1879	18:47	1	1.012	A BB	212890.	80.000 UG/ML	4.88
12	109	1906	19:04	1	1.027	A BB	280544.	80.000 UG/ML	4.88
13	168	1911	19:07	1	1.030	A BB	4613370.	80.000 UG/ML	4.88
14	165	1913	19:08	1	1.031	A BB	1041250.	80.000 UG/ML	4.88
15	165	1810	18:06	1	0.975	A VB	798547.	80.000 UG/ML	4.88
16	149	1983	19:50	1	1.068	A BB	3401830.	80.000 UG/ML	4.88
17	204	2005	20:03	1	1.080	A BB	1561000.	80.000 UG/ML	4.88
18	166	2001	20:01	1	1.078	A BB	3405510.	80.000 UG/ML	4.88
19	138	2013	20:08	1	1.085	A VB	430056.	80.000 UG/ML	4.88
20	172	1685	16:51	1	0.908	A BB	4572350.	80.000 UG/ML	4.88
21	330	2064	20:38	1	1.112	A BB	368880.	80.000 UG/ML	4.88

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:16	1.00	0.876	1.00	80.00	80.00	0.336	0.336	1.00
3	16:37	1.00	0.895	1.00	80.00	80.00	0.457	0.457	1.00
4	16:43	1.00	0.900	1.00	80.00	80.00	0.484	0.484	1.00
5	17:07	1.00	0.922	1.00	80.00	80.00	1.395	1.395	1.00
6	17:26	1.00	0.940	1.00	80.00	80.00	0.410	0.410	1.00
7	17:58	1.00	0.968	1.00	80.00	80.00	1.238	1.238	1.00
8	18:11	1.00	0.980	1.00	80.00	80.00	1.725	1.725	1.00
9	18:32	1.00	0.998	1.00	80.00	80.00	0.285	0.285	1.00
10	18:40	1.00	1.005	1.00	80.00	80.00	1.103	1.103	1.00
11	18:47	1.00	1.012	1.00	80.00	80.00	0.072	0.072	1.00
12	19:04	1.00	1.027	1.00	80.00	80.00	0.095	0.095	1.00
13	19:07	1.00	1.030	1.00	80.00	80.00	1.563	1.563	1.00
14	19:08	1.00	1.031	1.00	80.00	80.00	0.353	0.353	1.00
15	18:06	1.00	0.975	1.00	80.00	80.00	0.271	0.271	1.00
16	19:50	1.00	1.068	1.00	80.00	80.00	1.153	1.153	1.00
17	20:03	1.00	1.080	1.00	80.00	80.00	0.529	0.529	1.00
18	20:01	1.00	1.078	1.00	80.00	80.00	1.154	1.154	1.00
19	20:08	1.00	1.085	1.00	80.00	80.00	0.146	0.146	1.00
20	16:51	1.00	0.908	1.00	80.00	80.00	1.549	1.549	1.00
21	20:38	1.00	1.112	1.00	80.00	80.00	0.125	0.125	1.00

RIC
11/19/90 22:00:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801119 #1
CALI: HSD801119 #3

SCANS 2000 TO 2600



000352

Quantitation Report File: HSD801119

Data: HSD801119.TI
11/19/90 22:00:00
Sample: HSL-D STAND 11/19
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD80111

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

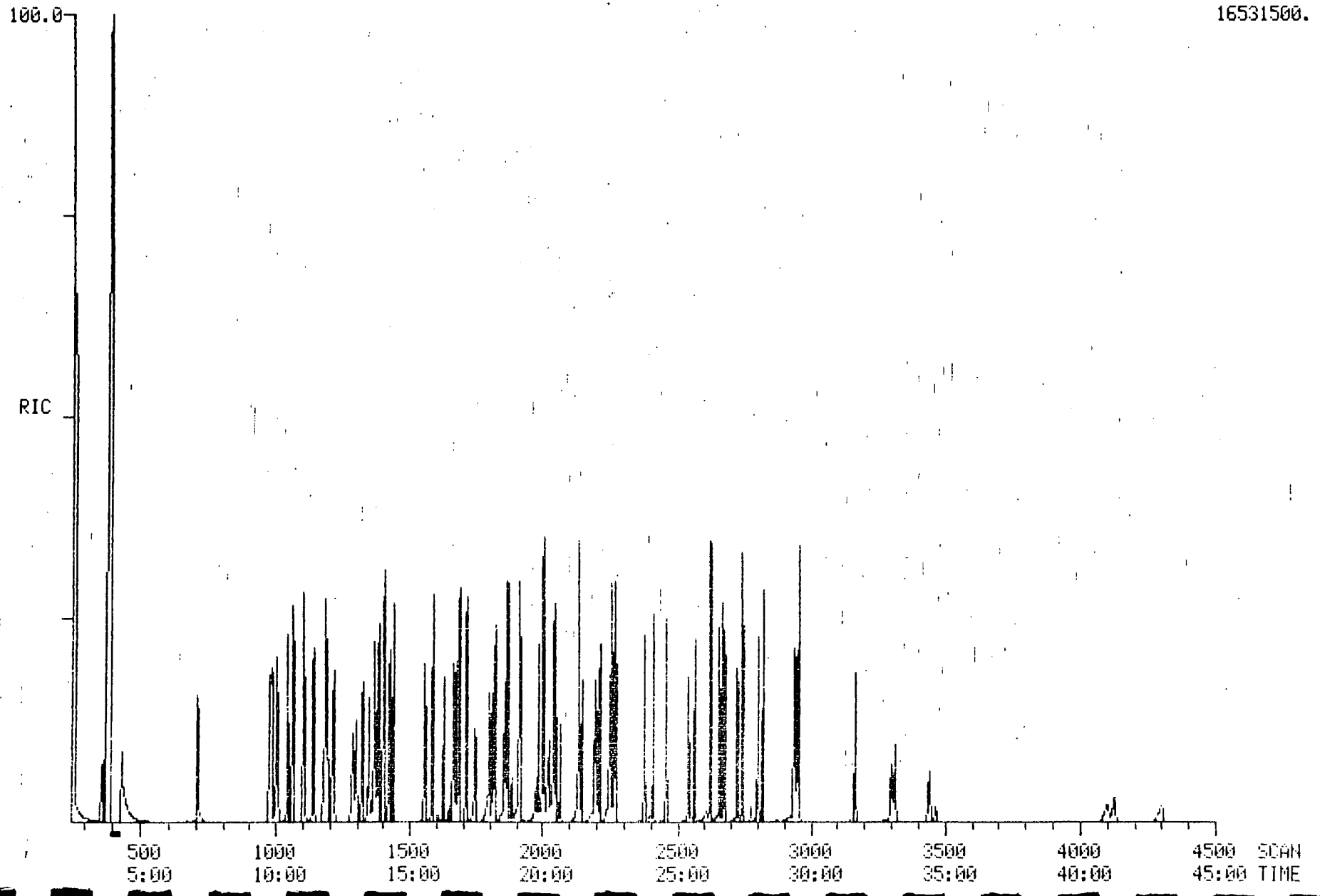
No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2245	22:27	1	1.000	A BV	890352.	40.000 UG/ML	4.76
2	198	2020	20:12	1	0.900	A BB	346506.	80.000 UG/ML	9.52
3	169	2038	20:23	1	0.908	A BB	2203730.	80.000 UG/ML	9.52
4	77	2047	20:28	1	0.912	A VB	4031100.	80.000 NG	9.52
5	248	2132	21:19	1	0.950	A BV	951408.	80.000 UG/ML	9.52
6	284	2143	21:26	1	0.955	A BB	823600.	80.000 UG/ML	9.52
7	266	2197	21:58	1	0.979	A BB	346219.	80.000 UG/ML	9.52
8	178	2252	22:31	1	1.003	A BB	3535170.	80.000 UG/ML	9.52
9	178	2265	22:39	1	1.009	A VB	3703510.	80.000 UG/ML	9.52
10	149	2409	24:05	1	1.073	A VB	4148120.	80.000 UG/ML	9.52
11	202	2563	25:38	1	1.142	A VB	2897830.	80.000 UG/ML	9.52

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:12	1.00	0.900	1.00	80.00	80.00	0.195	0.195	1.00
3	20:23	1.00	0.908	1.00	80.00	80.00	1.238	1.238	1.00
4	20:28	1.00	0.912	1.00	80.00	80.00	2.264	2.264	1.00
5	21:19	1.00	0.950	1.00	80.00	80.00	0.534	0.534	1.00
6	21:26	1.00	0.955	1.00	80.00	80.00	0.463	0.463	1.00
7	21:58	1.00	0.979	1.00	80.00	80.00	0.194	0.194	1.00
8	22:31	1.00	1.003	1.00	80.00	80.00	1.985	1.985	1.00
9	22:39	1.00	1.009	1.00	80.00	80.00	2.080	2.080	1.00
10	24:05	1.00	1.073	1.00	80.00	80.00	2.329	2.329	1.00
11	25:38	1.00	1.142	1.00	80.00	80.00	1.627	1.627	1.00

RIC
11/19/90 22:52:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

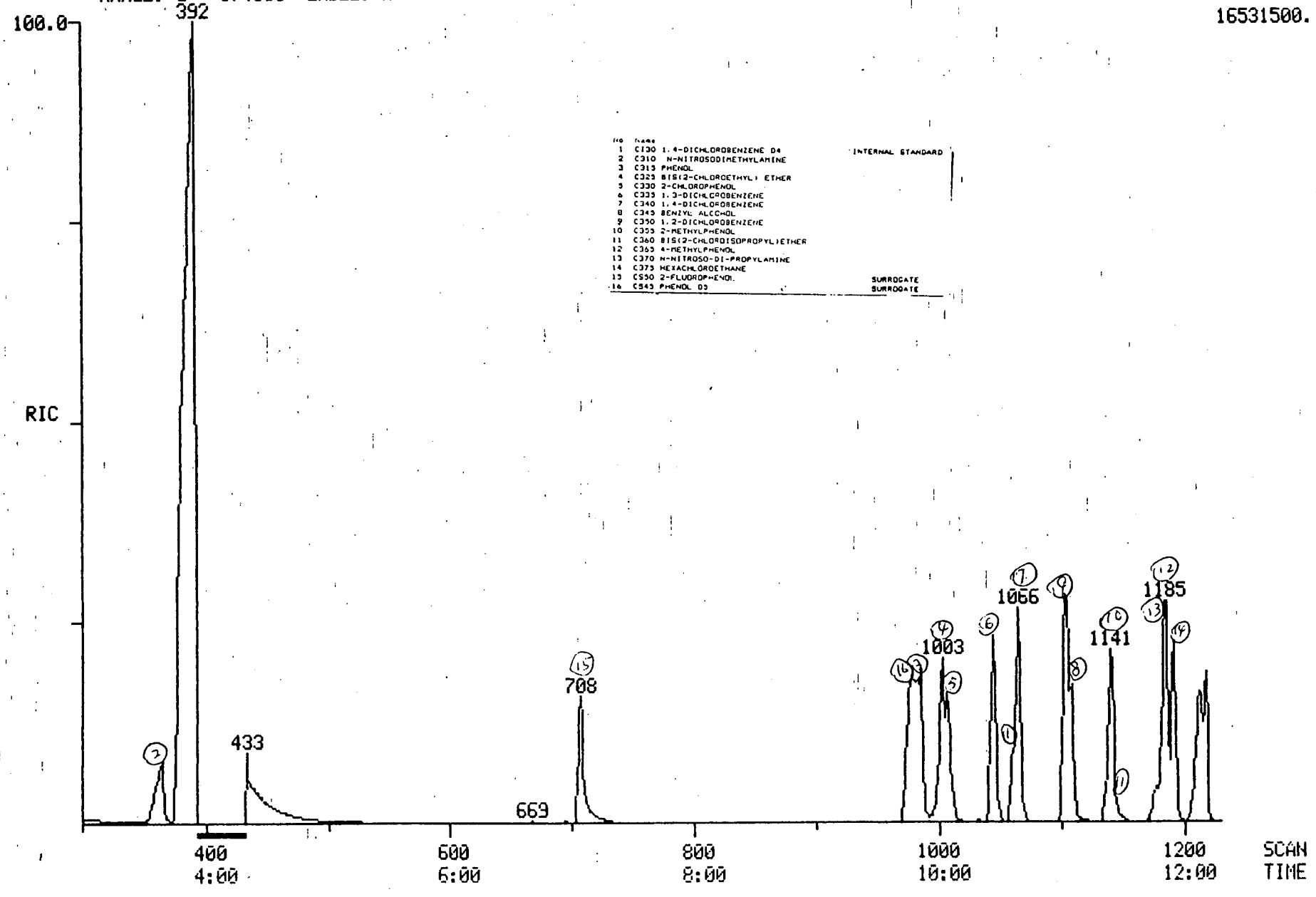
DATA: HSD1201119 #1 SCANS 250 TO 4500
CALI: CALTAB #3



000354

RIC
11/19/90 22:52:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201119 #1 SCANS 300 TO 1230
CALI: HSD1201119 #3



#0	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C313 PHENOL	
4	C323 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C333 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C343 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C353 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C363 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C373 HEXACHLOROETHANE	
15	CS30 2-FLUOROPHENOL	SURROGATE
16	CS43 PHENOL D5	SURROGATE

000355

Quantitation Report File: HSD1201119

Data: HSD1201119.TI
11/19/90 22:52:00
Sample: HSL-D STAND 11/19
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	1060	10:36	1	1.000	A BB	1054340.	40.000	UG/ML	2.17
2	74	365	3:39	1	0.344	A BB	3929760.	120.000	UG	6.52
3	74	926	9:52	1	0.930	A BB	5156800.	120.000	UG/ML	6.52
4	93	1003	10:02	1	0.946	A BB	4174280.	120.000	UG/ML	6.52
5	128	1007	10:04	1	0.950	A BB	4473380.	120.000	UG/ML	6.52
6	146	1048	10:27	1	0.986	A BB	4539170.	120.000	UG/ML	6.52
7	146	1066	10:40	1	1.006	A BB	4534180.	120.000	UG/ML	6.52
8	108	1109	11:05	1	1.046	A BB	2721360.	120.000	UG/ML	6.52
9	146	1104	11:02	1	1.042	A BB	4123840.	120.000	UG/ML	6.52
10	108	1141	11:25	1	1.076	A BB	3922000.	120.000	UG/ML	6.52
11	45	1144	11:26	1	1.079	A BB	270560.	120.000	UG/ML	6.52
12	108	1186	11:52	1	1.119	A BB	3359720.	120.000	UG/ML	6.52
13	70	1184	11:50	1	1.117	A BB	3515570.	120.000	UG/ML	6.52
14	117	1192	11:55	1	1.125	A BB	2100830.	120.000	UG/ML	6.52
15	112	708	7:05	1	0.668	A BB	3892460.	120.000	UG/L	6.52
16	99	981	9:49	1	0.925	A BB	4305890.	120.000	UG/ML	6.52

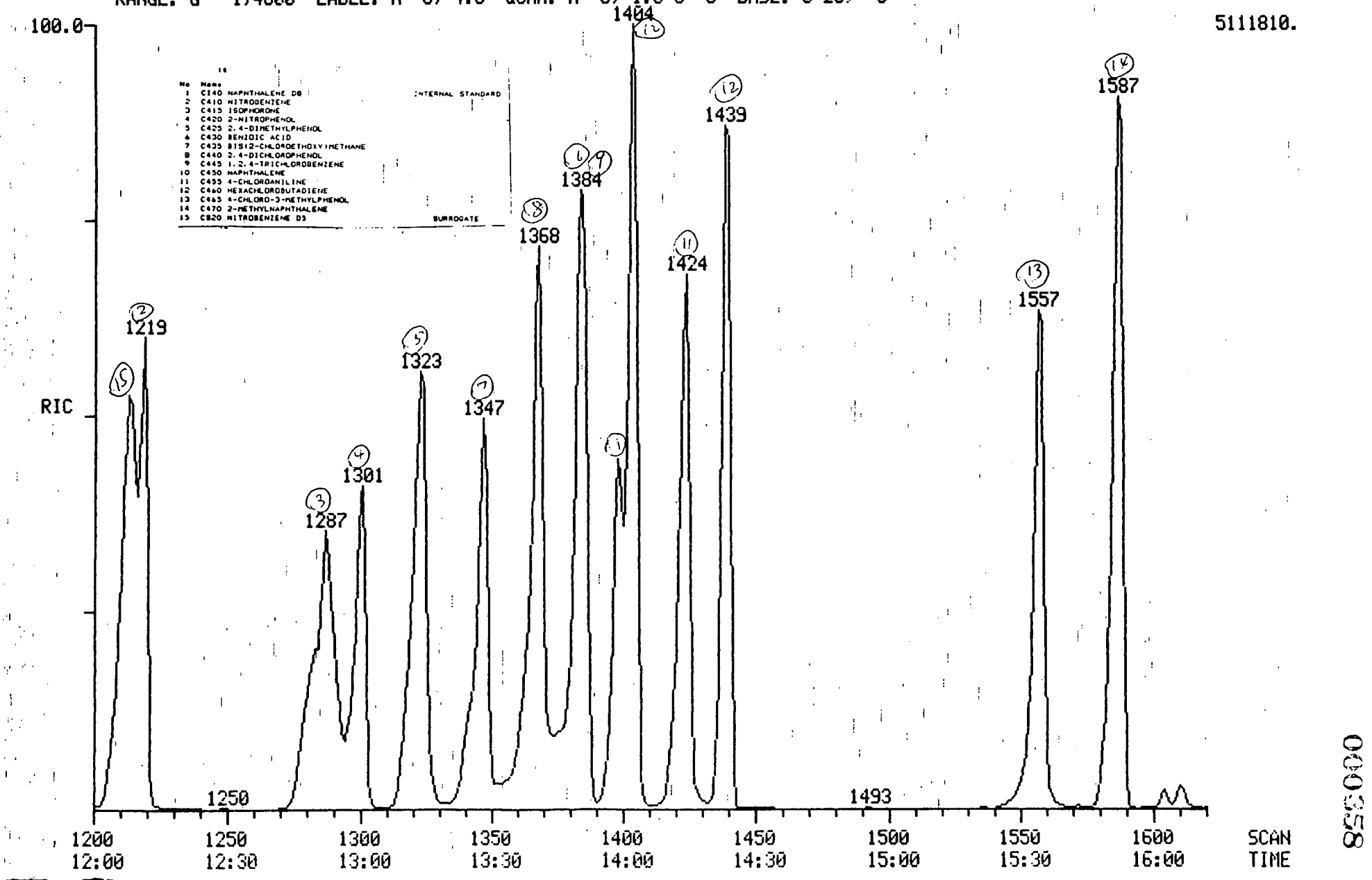
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:39	1.00	0.344	1.00	120.00	120.00	1.242	1.242	1.00
3	9:52	1.00	0.930	1.00	120.00	120.00	1.630	1.630	1.00
4	10:02	1.00	0.946	1.00	120.00	120.00	1.320	1.320	1.00
5	10:04	1.00	0.950	1.00	120.00	120.00	1.414	1.414	1.00
6	10:27	1.00	0.986	1.00	120.00	120.00	1.435	1.435	1.00
7	10:40	1.00	1.006	1.00	120.00	120.00	1.434	1.434	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:05	1.00	1.046	1.00	120.00	120.00	0.860	0.860	1.00
9	11:02	1.00	1.042	1.00	120.00	120.00	1.304	1.304	1.00
10	11:25	1.00	1.076	1.00	120.00	120.00	1.240	1.240	1.00
11	11:26	1.00	1.079	1.00	120.00	120.00	0.086	0.086	1.00
12	11:52	1.00	1.119	1.00	120.00	120.00	1.062	1.062	1.00
13	11:50	1.00	1.117	1.00	120.00	120.00	1.111	1.111	1.00
14	11:55	1.00	1.125	1.00	120.00	120.00	0.664	0.664	1.00
15	7:05	1.00	0.668	1.00	120.00	120.00	1.231	1.231	1.00
16	9:49	1.00	0.925	1.00	120.00	120.00	1.361	1.361	1.00

RIC
11/19/90 22:52:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201119 #1
CALI: HSD1201119 #3

SCANS 1200 TO 1620



000358

Quantitation Report File: HSD1201119

Data: HSD1201119.TI
11/19/90 22:52:00
Sample: HSL-D STAND 11/19
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD12011

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

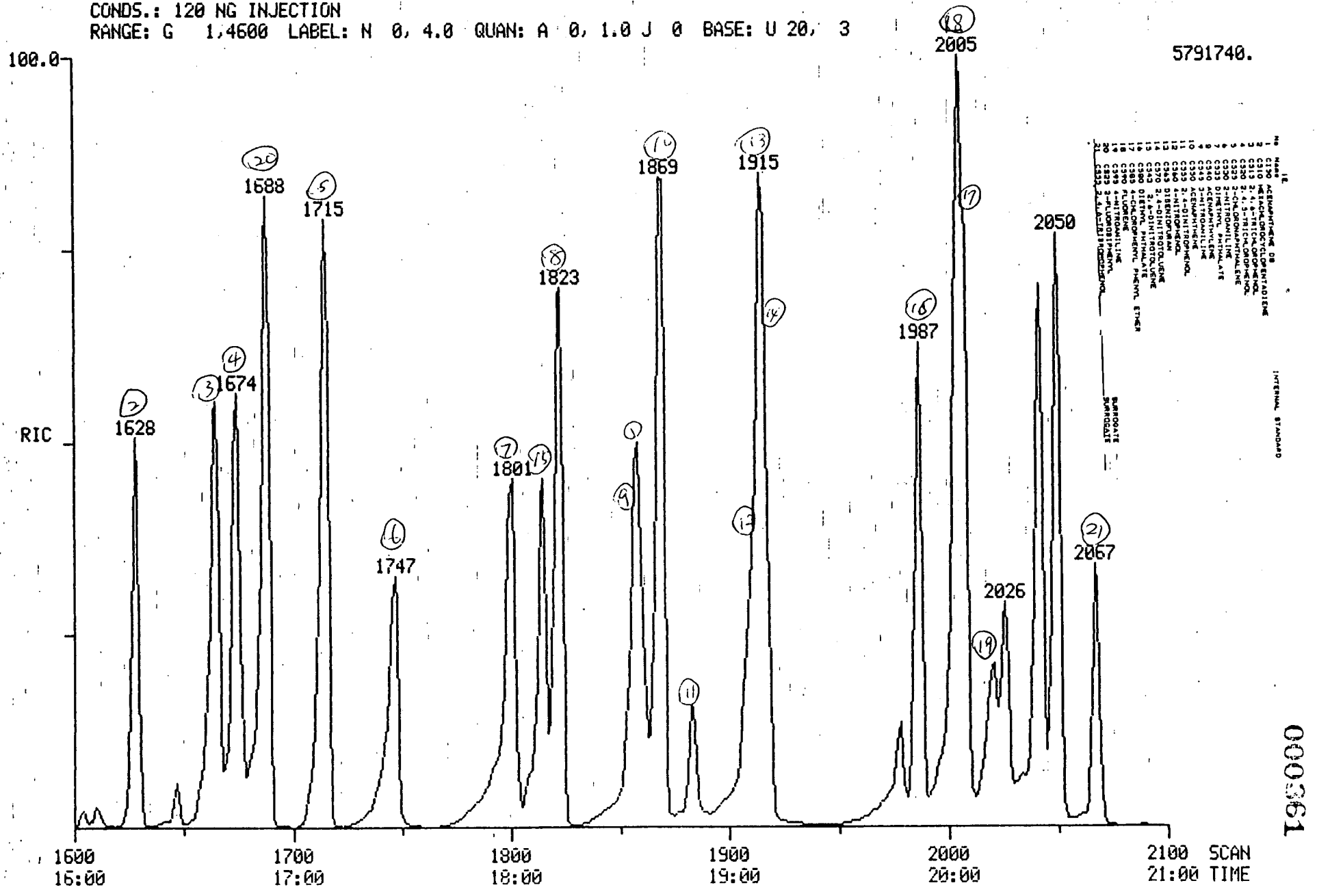
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1398	13:59	1	1.000	A BB	3930950.	40.000 UG/ML	2.33
2	77	1219	12:11	1	0.872	A BV	4590100.	120.000 UG/ML	6.98
3	82	1287	12:52	1	0.921	A BB	8066860.	120.000 UG/ML	6.98
4	139	1300	13:00	1	0.930	A VB	1817220.	120.000 UG/ML	6.98
5	122	1323	13:14	1	0.946	A BB	3162760.	120.000 UG/ML	6.98
6	122	1383	13:50	1	0.989	A BB	1095550.	120.000 UG/ML	6.98
7	93	1347	13:28	1	0.964	A BB	4641830.	120.000 UG/ML	6.98
8	162	1368	13:41	1	0.979	A BB	3286120.	120.000 UG/ML	6.98
9	180	1385	13:51	1	0.991	A BB	3567250.	120.000 UG/ML	6.98
10	128	1404	14:02	1	1.004	A BB	9995390.	120.000 UG/ML	6.98
11	127	1424	14:14	1	1.019	A BB	4720960.	120.000 UG/ML	6.98
12	225	1439	14:23	1	1.029	A BB	2066980.	120.000 UG/ML	6.98
13	107	1557	15:34	1	1.114	A BB	3300310.	120.000 UG/ML	6.98
14	142	1587	15:52	1	1.135	A BB	6008590.	120.000 UG/ML	6.98
15	82	1213	12:08	1	0.868	A BB	5206770.	120.000 UG/ML	6.98

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:11	1.00	0.872	1.00	120.00	120.00	0.389	0.389	1.00
3	12:52	1.00	0.921	1.00	120.00	120.00	0.684	0.684	1.00
4	13:00	1.00	0.930	1.00	120.00	120.00	0.154	0.154	1.00
5	13:14	1.00	0.946	1.00	120.00	120.00	0.268	0.268	1.00
6	13:50	1.00	0.989	1.00	120.00	120.00	0.093	0.093	1.00
7	13:28	1.00	0.964	1.00	120.00	120.00	0.394	0.394	1.00
8	13:41	1.00	0.979	1.00	120.00	120.00	0.279	0.279	1.00
9	13:51	1.00	0.991	1.00	120.00	120.00	0.302	0.302	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:02	1.00	1.004	1.00	120.00	120.00	0.848	0.848	1.00
11	14:14	1.00	1.019	1.00	120.00	120.00	0.400	0.400	1.00
12	14:23	1.00	1.029	1.00	120.00	120.00	0.175	0.175	1.00
13	15:34	1.00	1.114	1.00	120.00	120.00	0.280	0.280	1.00
14	15:52	1.00	1.135	1.00	120.00	120.00	0.510	0.510	1.00
15	12:08	1.00	0.868	1.00	120.00	120.00	0.442	0.442	1.00

RIC
11/19/90 22:52:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201119 #1 SCANS 1600 TO 2100
CALI: HSD1201119 #3



0003361

Quantitation Report File: HSD1201119

Data: HSD1201119.TI
11/19/90 22:52:00
Sample: HSL-D STAND 11/19
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

No	Name	
1	CI50 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

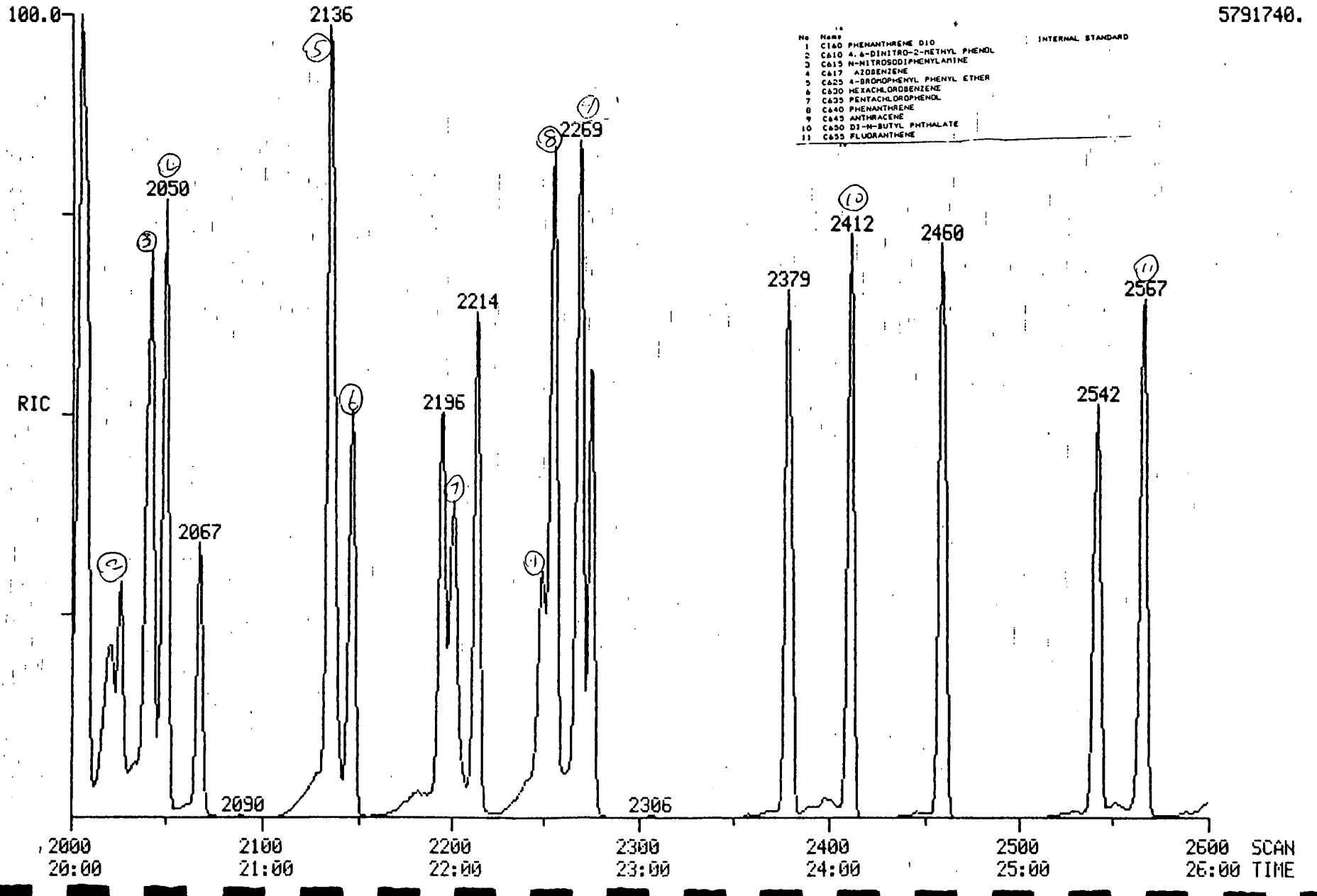
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1859	18:35	1	1.000	A BB	1903380.	40.000 UG/ML	1.64
2	237	1628	16:17	1	0.876	A BB	1524740.	120.000 UG/ML	4.92
3	196	1664	16:38	1	0.895	A BV	2169630.	120.000 UG/ML	4.92
4	196	1674	16:44	1	0.900	A VB	2153020.	120.000 UG/ML	4.92
5	162	1715	17:09	1	0.923	A BB	6423720.	120.000 UG/ML	4.92
6	65	1747	17:28	1	0.940	A BB	2218530.	120.000 UG/ML	4.92
7	163	1801	18:01	1	0.969	A BB	6003900.	120.000 UG/ML	4.92
8	152	1822	18:13	1	0.980	A BB	9004500.	120.000 UG/ML	4.92
9	138	1857	18:34	1	0.999	A BB	1545140.	120.000 UG/ML	4.92
10	154	1869	18:41	1	1.005	A BV	5602540.	120.000 UG/ML	4.92
11	184	1883	18:50	1	1.013	A VB	505532.	120.000 UG/ML	4.92
12	109	1909	19:05	1	1.027	A VB	622485.	120.000 UG/ML	4.92
13	168	1915	19:09	1	1.030	A BB	8187020.	120.000 UG/ML	4.92
14	165	1918	19:11	1	1.032	A VB	1950190.	120.000 UG/ML	4.92
15	165	1814	18:08	1	0.976	A VB	1374320.	120.000 UG/ML	4.92
16	149	1987	19:52	1	1.069	A VB	5616380.	120.000 UG/ML	4.92
17	204	2008	20:05	1	1.080	A BB	2689850.	120.000 UG/ML	4.92
18	166	2005	20:03	1	1.079	A BB	6181010.	120.000 UG/ML	4.92
19	138	2020	20:12	1	1.087	A BB	958038.	120.000 UG/ML	4.92
20	172	1688	16:53	1	0.908	A BB	6989390.	120.000 UG/ML	4.92
21	330	2067	20:40	1	1.112	A BB	774564.	120.000 UG/ML	4.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	18:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:17	1.00	0.876	1.00	120.00	120.00	0.267	0.267	1.00
3	16:38	1.00	0.895	1.00	120.00	120.00	0.380	0.380	1.00
4	16:44	1.00	0.900	1.00	120.00	120.00	0.377	0.377	1.00
5	17:09	1.00	0.923	1.00	120.00	120.00	1.125	1.125	1.00
6	17:28	1.00	0.940	1.00	120.00	120.00	0.389	0.389	1.00
7	18:01	1.00	0.969	1.00	120.00	120.00	1.051	1.051	1.00
8	18:13	1.00	0.980	1.00	120.00	120.00	1.577	1.577	1.00
9	18:34	1.00	0.999	1.00	120.00	120.00	0.271	0.271	1.00
10	18:41	1.00	1.005	1.00	120.00	120.00	0.981	0.981	1.00
11	18:50	1.00	1.013	1.00	120.00	120.00	0.089	0.089	1.00
12	19:05	1.00	1.027	1.00	120.00	120.00	0.109	0.109	1.00
13	19:09	1.00	1.030	1.00	120.00	120.00	1.434	1.434	1.00
14	19:11	1.00	1.032	1.00	120.00	120.00	0.342	0.342	1.00
15	18:08	1.00	0.976	1.00	120.00	120.00	0.241	0.241	1.00
16	19:52	1.00	1.069	1.00	120.00	120.00	0.984	0.984	1.00
17	20:05	1.00	1.080	1.00	120.00	120.00	0.471	0.471	1.00
18	20:03	1.00	1.079	1.00	120.00	120.00	1.082	1.082	1.00
19	20:12	1.00	1.087	1.00	120.00	120.00	0.168	0.168	1.00
20	16:53	1.00	0.908	1.00	120.00	120.00	1.224	1.224	1.00
21	20:40	1.00	1.112	1.00	120.00	120.00	0.136	0.136	1.00

RIC
11/19/90 22:52:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201119 #1
CALI: HSD1201119 #3

SCANS 2000 TO 2600



No	Name	
1	C140	PHENANTHRENE D10
2	C610	4,6-DINITRO-2-METHYL PHENOL
3	C615	N-NITROSODIPHENYLAMINE
4	C617	AZOBENZENE
5	C625	4-BROMOPHENYL PHENYL ETHER
6	C630	HEXACHLOROBENZENE
7	C635	PENTACHLOROPHENOL
8	C640	PHENANTHRENE
9	C645	ANTHRACENE
10	C650	DI-N-BUTYL PHTHALATE
11	C655	FLUORANTHENE

INTERNAL STANDARD

0003364

Quantitation Report File: HSD1201119

000365

Data: HSD1201119.TI
11/19/90 22:52:00
Sample: HSL-D STAND 11/19
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

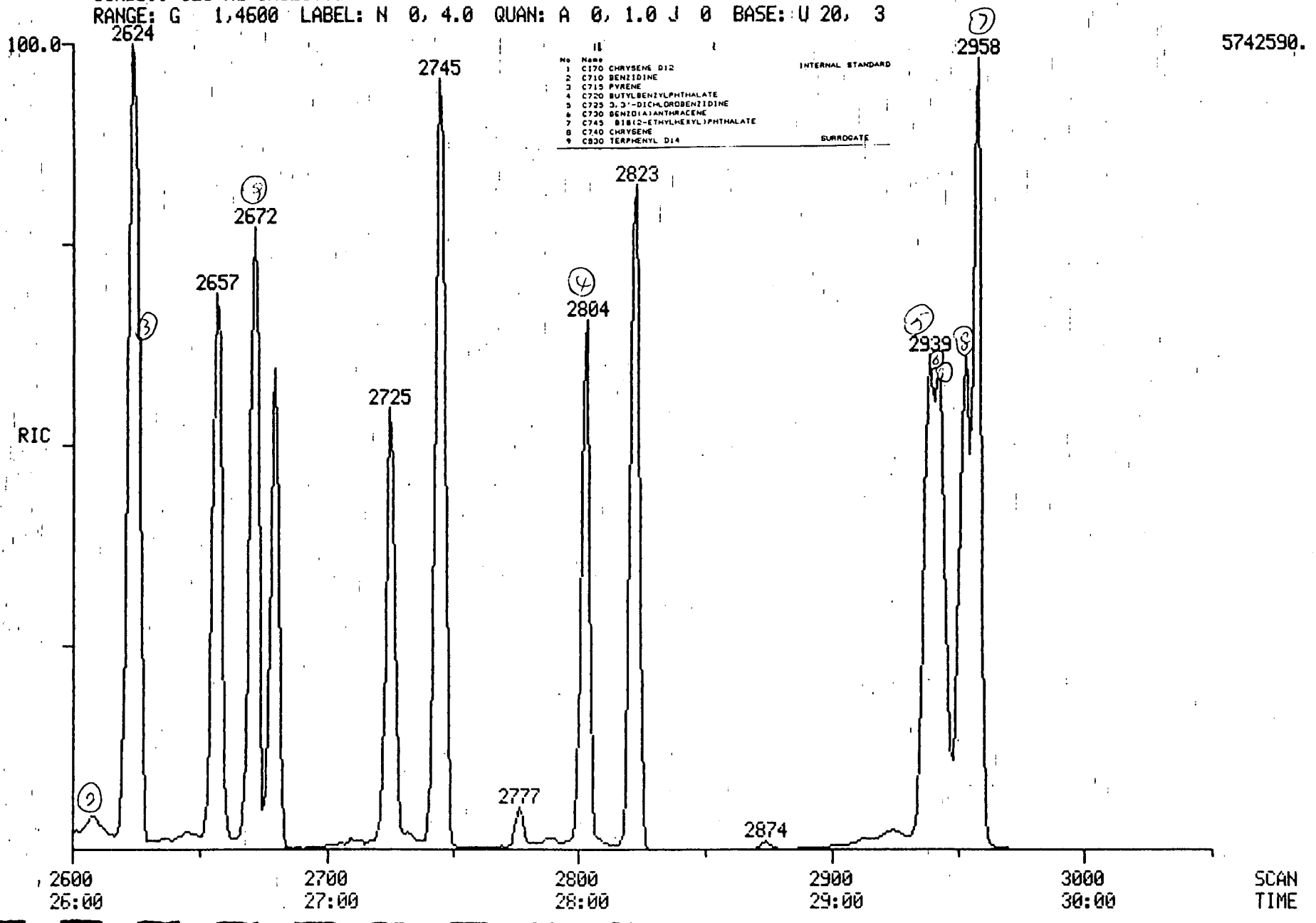
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	188	2248	22:29	1	1.000	A BB	1386180.	40.000	UG/ML	3.23
2	198	2026	20:16	1	0.901	A VB	717872.	120.000	UG/ML	9.68
3	169	2042	20:25	1	0.908	A VB	4004510.	120.000	UG/ML	9.68
4	77	2050	20:30	1	0.912	A VB	7097600.	120.000	NG	9.68
5	248	2136	21:22	1	0.950	A BB	1729600.	120.000	UG/ML	9.68
6	284	2147	21:28	1	0.955	A VB	1683090.	120.000	UG/ML	9.68
7	266	2201	22:01	1	0.979	A BV	929808.	120.000	UG/ML	9.68
8	178	2256	22:34	1	1.004	A BB	6956540.	120.000	UG/ML	9.68
9	178	2269	22:41	1	1.009	A BB	7882720.	120.000	UG/ML	9.68
10	149	2412	24:07	1	1.073	A VB	8950880.	120.000	UG/ML	9.68
11	202	2566	25:40	1	1.141	A VB	6035820.	120.000	UG/ML	9.68

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:29	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:16	1.00	0.901	1.00	120.00	120.00	0.173	0.173	1.00
3	20:25	1.00	0.908	1.00	120.00	120.00	0.963	0.963	1.00
4	20:30	1.00	0.912	1.00	120.00	120.00	1.707	1.707	1.00
5	21:22	1.00	0.950	1.00	120.00	120.00	0.416	0.416	1.00
6	21:28	1.00	0.955	1.00	120.00	120.00	0.405	0.405	1.00
7	22:01	1.00	0.979	1.00	120.00	120.00	0.224	0.224	1.00
8	22:34	1.00	1.004	1.00	120.00	120.00	1.673	1.673	1.00
9	22:41	1.00	1.009	1.00	120.00	120.00	1.896	1.896	1.00
10	24:07	1.00	1.073	1.00	120.00	120.00	2.152	2.152	1.00
11	25:40	1.00	1.141	1.00	120.00	120.00	1.451	1.451	1.00

RIC
11/19/90 22:52:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201119 #1
CALI: HSD1201119 #3

SCANS 2600 TO 3050



000366

Quantitation Report File: HSD1201119

Data: HSD1201119.TI
11/19/90 22:52:00
Sample: HSL-D STAND 11/19
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

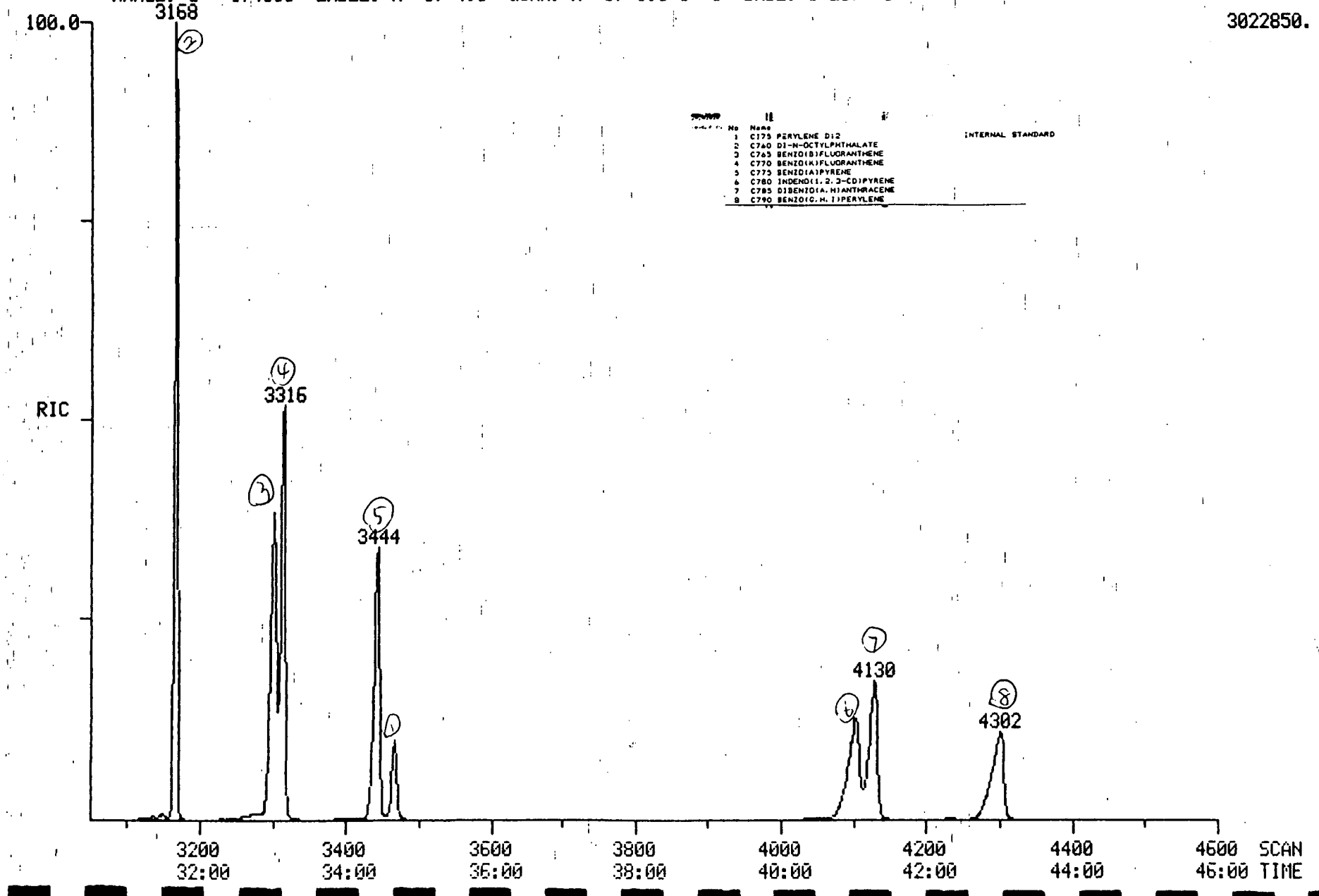
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	240	2945	29:27	1	1.000	A BV	1547350.	40.000	UG/ML	4.00
2	184	2607	26:04	1	0.885	A BV	217479.	120.000	UG/ML	12.00
3	202	2626	26:16	1	0.892	A VB	6680210.	120.000	UG/ML	12.00
4	149	2804	28:02	1	0.952	A VB	3306860.	120.000	UG/ML	12.00
5	252	2938	29:23	1	0.998	A BB	1393200.	120.000	UG/ML	12.00
6	228	2942	29:25	1	0.999	A BV	5674850.	120.000	UG/ML	12.00
7	149	2958	29:35	1	1.004	A BB	5976250.	120.000	UG/ML	12.00
8	228	2953	29:32	1	1.003	A BB	4209820.	120.000	UG/ML	12.00
9	244	2672	26:43	1	0.907	A VV	5313700.	120.000	UG/ML	12.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:04	1.00	0.885	1.00	120.00	120.00	0.047	0.047	1.00
3	26:16	1.00	0.892	1.00	120.00	120.00	1.439	1.439	1.00
4	28:02	1.00	0.952	1.00	120.00	120.00	0.712	0.712	1.00
5	29:23	1.00	0.998	1.00	120.00	120.00	0.300	0.300	1.00
6	29:25	1.00	0.999	1.00	120.00	120.00	1.222	1.222	1.00
7	29:35	1.00	1.004	1.00	120.00	120.00	1.287	1.287	1.00
8	29:32	1.00	1.003	1.00	120.00	120.00	0.907	0.907	1.00
9	26:43	1.00	0.907	1.00	120.00	120.00	1.145	1.145	1.00

RIC
11/19/90 22:52:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 120 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1201119 #1 SCANS 3050 TO 4600
CALI: HSD1201119 #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000368

Quantitation Report File: HSD1201119

Data: HSD1201119.TI
11/19/90 22:52:00
Sample: HSL-D STAND 11/19
Conds.: 120 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD12011

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

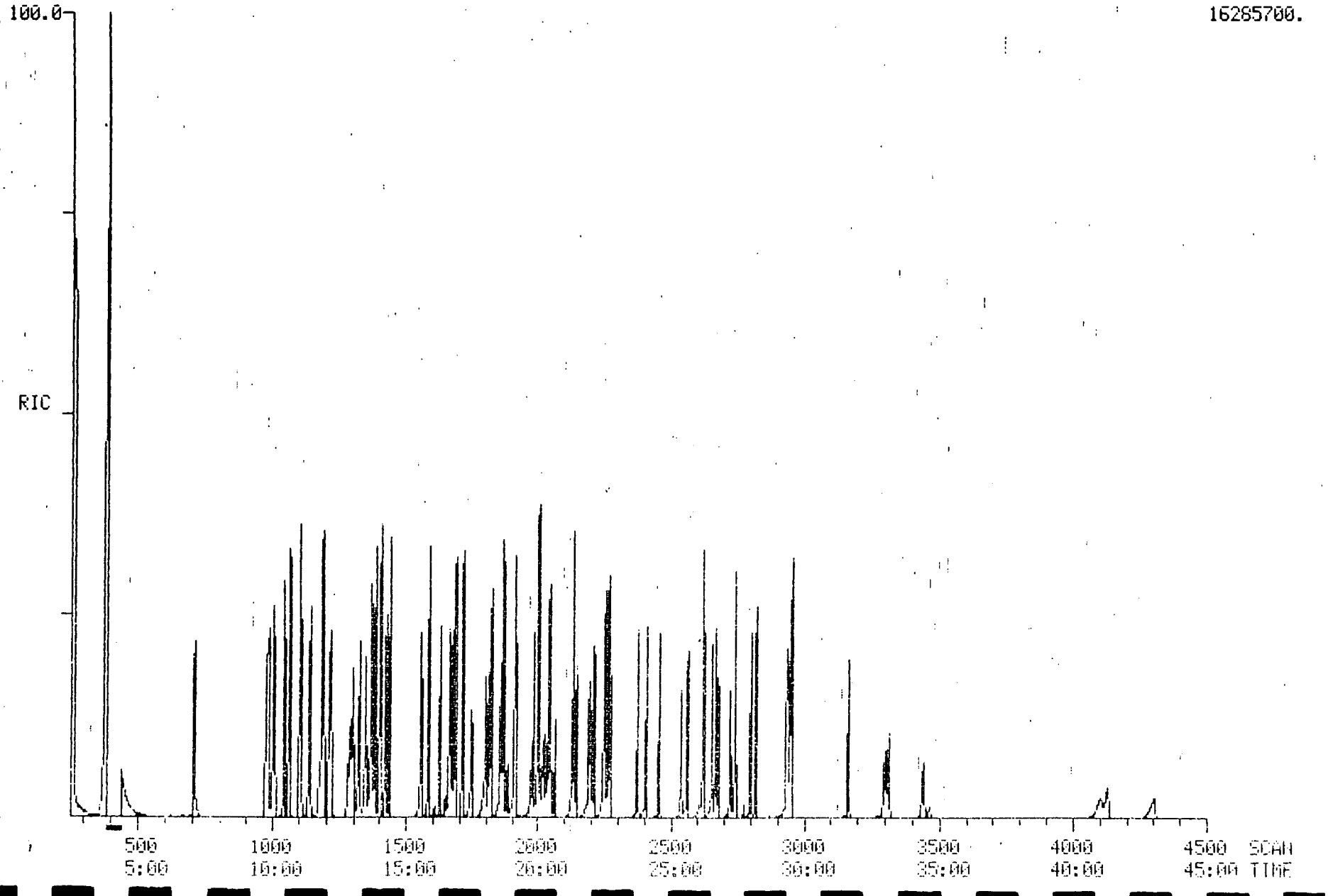
No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3466	34:40	1	1.000	A BB	827038.	40.000 UG/ML	4.55
2	149	3168	31:41	1	0.914	A BB	6991790.	120.000 UG/ML	13.64
3	252	3302	33:01	1	0.953	A BV	3270140.	120.000 UG/ML	13.64
4	252	3316	33:10	1	0.957	A VB	2937220.	120.000 UG/ML	13.64
5	252	3444	34:26	1	0.994	A BB	2809940.	120.000 UG/NL	13.64
6	276	4103	41:02	1	1.184	A BB	1453410.	120.000 UG/ML	13.64
7	278	4130	41:18	1	1.192	A BB	1929570.	120.000 UG/ML	13.64
8	276	4302	43:01	1	1.241	A BB	1321360.	120.000 UG/ML	13.64

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:41	1.00	0.914	1.00	120.00	120.00	2.818	2.818	1.00
3	33:01	1.00	0.953	1.00	120.00	120.00	1.318	1.318	1.00
4	33:10	1.00	0.957	1.00	120.00	120.00	1.184	1.184	1.00
5	34:26	1.00	0.994	1.00	120.00	120.00	1.133	1.133	1.00
6	41:02	1.00	1.184	1.00	120.00	120.00	0.586	0.586	1.00
7	41:18	1.00	1.192	1.00	120.00	120.00	0.778	0.778	1.00
8	43:01	1.00	1.241	1.00	120.00	120.00	0.533	0.533	1.00

RIC
11/19/90 23:46:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 160 NG INJECTION
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

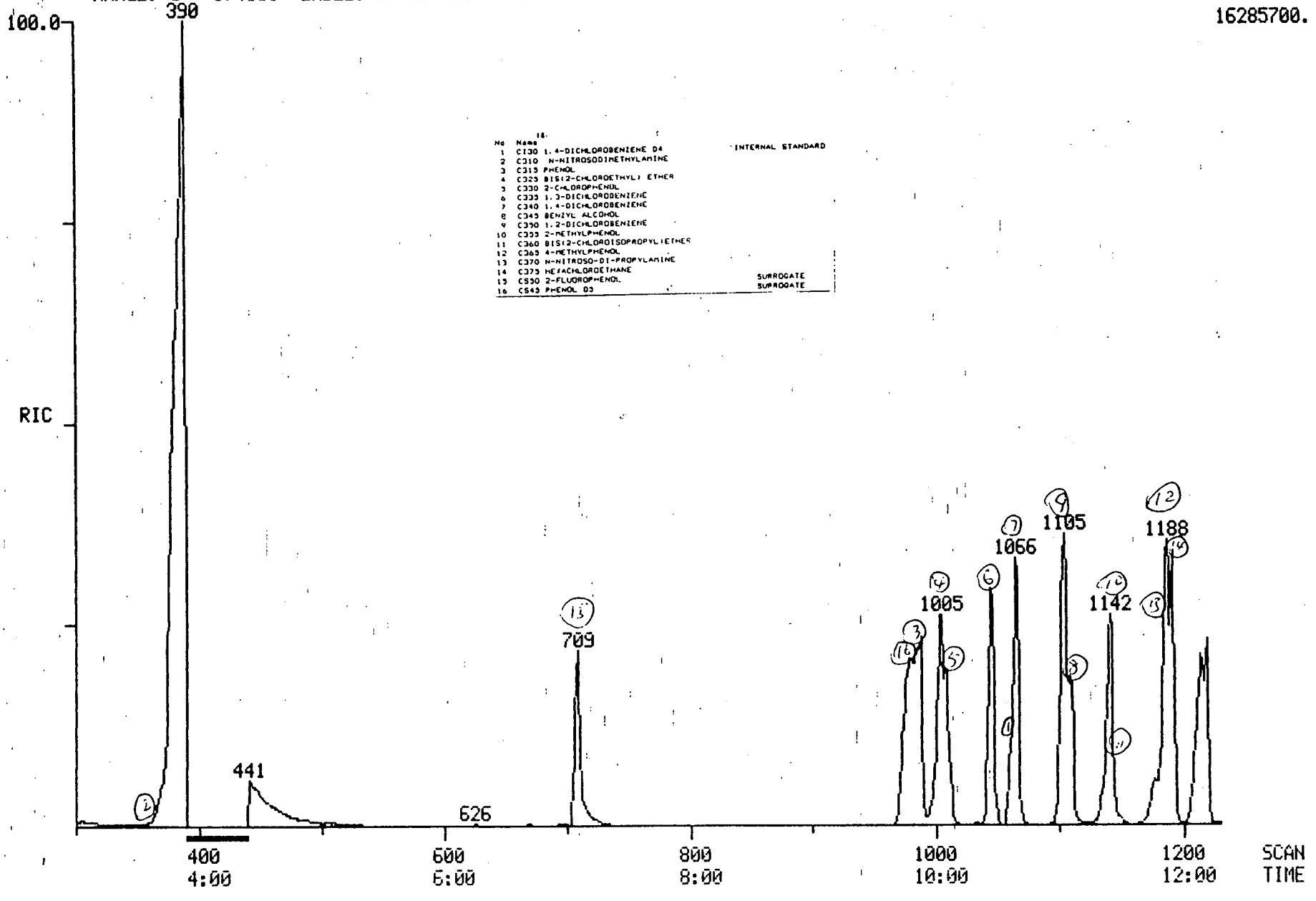
DATA: HSD1601119 #1 SCANS 250 TO 4500
CALI: CALTAB #3



000370

RIC
11/19/90 23:46:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601119 #1 SCANS 300 TO 1230
CALI: HSD1601119 #3



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C530 2-FLUOROPHENOL	SURROGATE
16	C545 PHENOL D5	SURROGATE

0003371

Quantitation Report File: HSD1601119

Data: HSD1601119.TI
11/19/90 23:46:00
Sample: HSL-D STAND 11/19
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1061	10:37	1	1.000	A BB	1095200.	40.000 UG/ML	1.64
2	74	375	3:45	1	0.353	A BB	4580790.	160.000 UG	6.56
3	94	988	9:53	1	0.931	A BB	7122420.	160.000 UG/ML	6.56
4	93	1004	10:02	1	0.946	A BB	5728180.	160.000 UG/ML	6.56
5	128	1008	10:05	1	0.950	A BB	6127080.	160.000 UG/ML	6.56
6	146	1045	10:27	1	0.985	A BB	5950540.	160.000 UG/ML	6.56
7	146	1066	10:40	1	1.005	A BB	5995430.	160.000 UG/ML	6.56
8	108	1110	11:06	1	1.046	A BB	3620420.	160.000 UG/ML	6.56
9	146	1105	11:03	1	1.041	A BB	5525810.	160.000 UG/ML	6.56
10	108	1142	11:25	1	1.076	A BB	5280670.	160.000 UG/ML	6.56
11	45	1144	11:26	1	1.078	A BV	269472.	160.000 UG/ML	6.56
12	108	1188	11:53	1	1.120	A VB	3838220.	160.000 UG/ML	6.56
13	70	1185	11:51	1	1.117	A BB	4416740.	160.000 UG/ML	6.56
14	117	1192	11:55	1	1.123	A BB	2758220.	160.000 UG/ML	6.56
15	112	709	7:05	1	0.668	A BB	5448800.	160.000 UG/L	6.56
16	99	983	9:50	1	0.926	A BB	5821700.	160.000 UG/ML	6.56

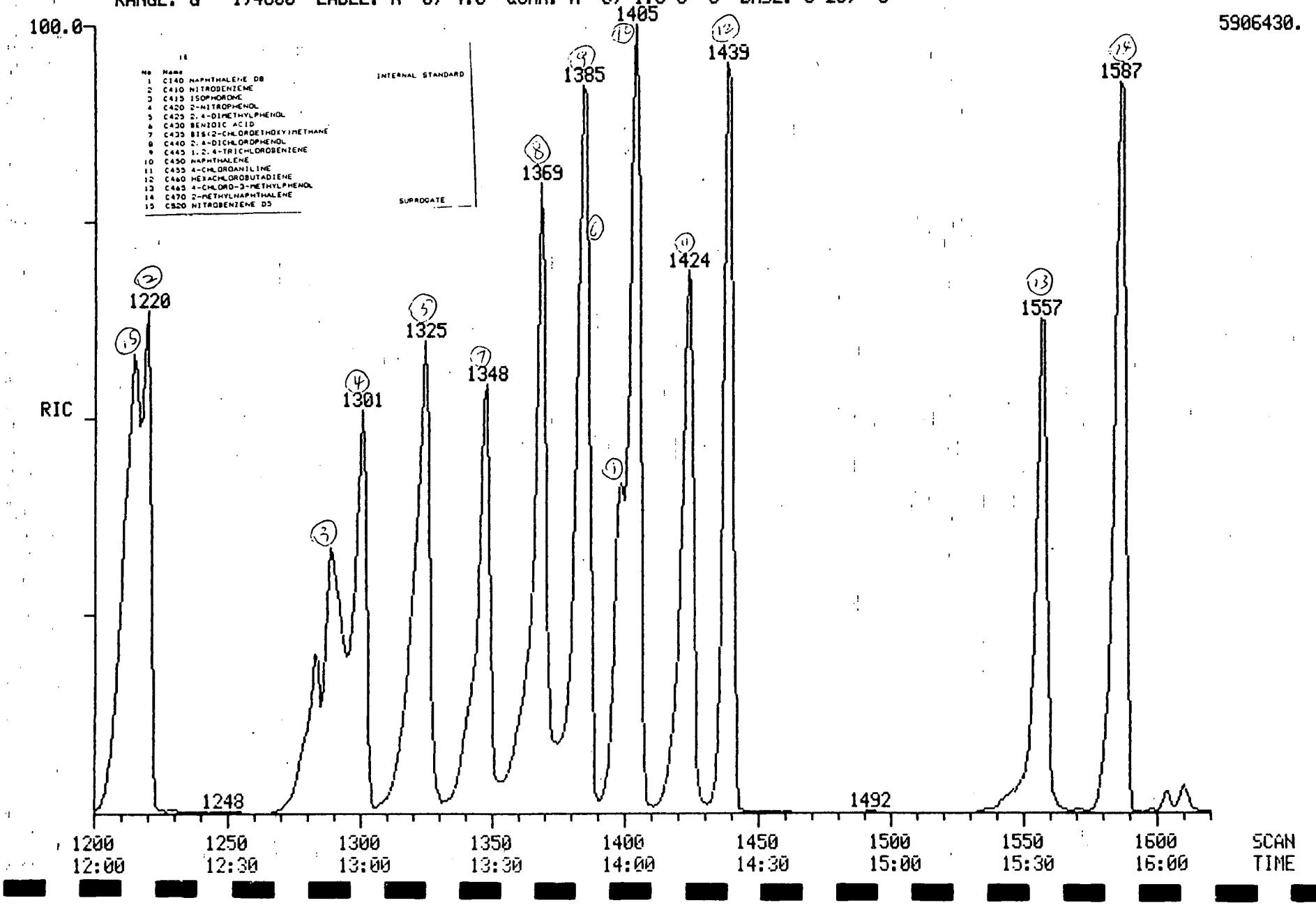
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:45	1.00	0.353	1.00	160.00	160.00	1.046	1.046	1.00
3	9:53	1.00	0.931	1.00	160.00	160.00	1.626	1.626	1.00
4	10:02	1.00	0.946	1.00	160.00	160.00	1.308	1.308	1.00
5	10:05	1.00	0.950	1.00	160.00	160.00	1.399	1.399	1.00
6	10:27	1.00	0.985	1.00	160.00	160.00	1.358	1.358	1.00
7	10:40	1.00	1.005	1.00	160.00	160.00	1.369	1.369	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:06	1.00	1.046	1.00	160.00	160.00	0.826	0.826	1.00
9	11:03	1.00	1.041	1.00	160.00	160.00	1.261	1.261	1.00
10	11:25	1.00	1.076	1.00	160.00	160.00	1.205	1.205	1.00
11	11:26	1.00	1.078	1.00	160.00	160.00	0.062	0.062	1.00
12	11:53	1.00	1.120	1.00	160.00	160.00	0.876	0.876	1.00
13	11:51	1.00	1.117	1.00	160.00	160.00	1.008	1.008	1.00
14	11:55	1.00	1.123	1.00	160.00	160.00	0.630	0.630	1.00
15	7:05	1.00	0.668	1.00	160.00	160.00	1.244	1.244	1.00
16	9:50	1.00	0.926	1.00	160.00	160.00	1.329	1.329	1.00

RIC
11/19/90 23:46:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601119 #1
CALI: HSD1601119 #3

SCANS 1200 TO 1620



000324

Quantitation Report File: HSD1601119

000375

Data: HSD1601119.TI
11/19/90 23:46:00
Sample: HSL-D STAND 11/19
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

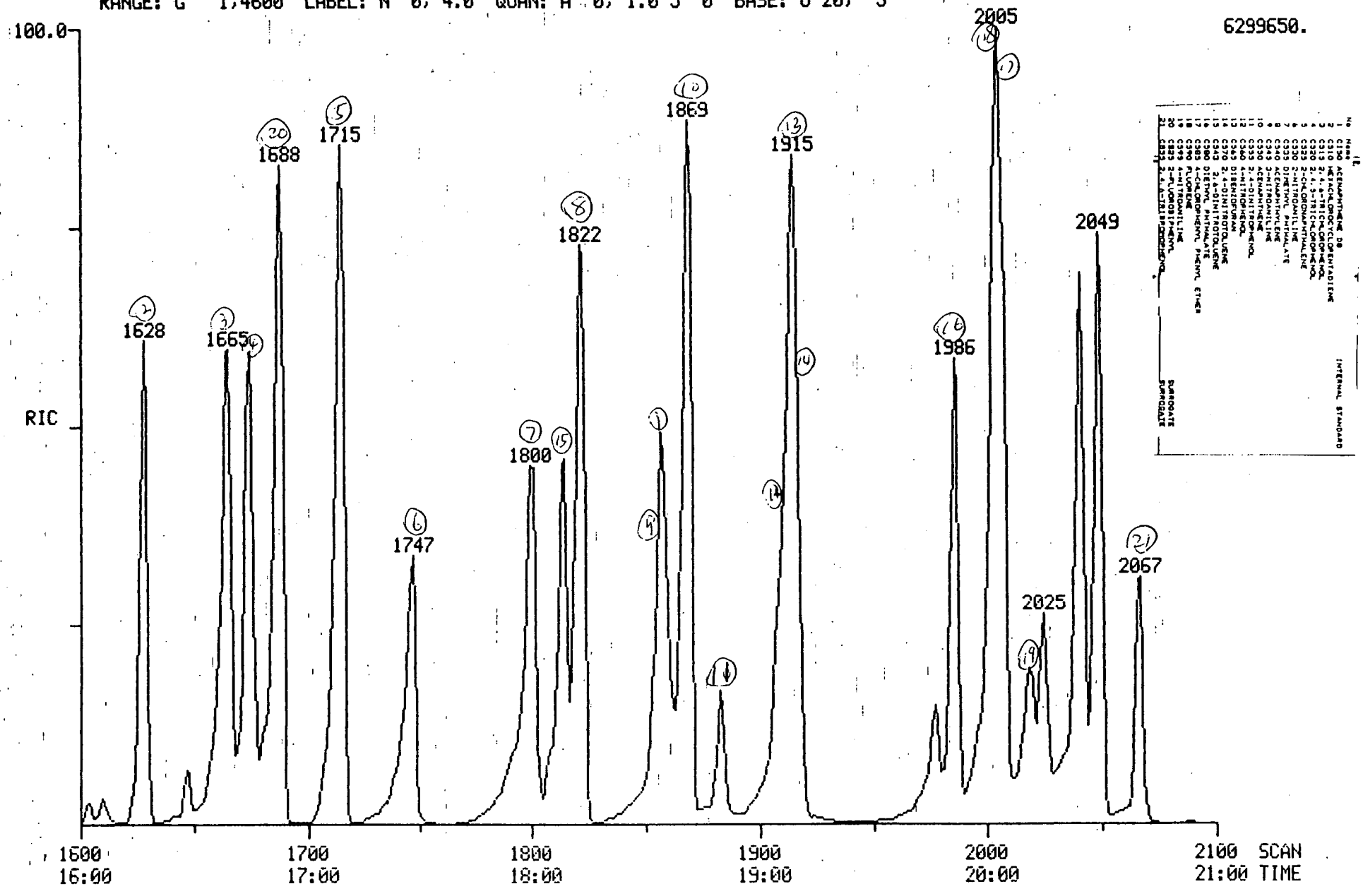
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1398	13:59	1	1.000	A BB	4075150.	40.000 UG/ML	1.75
2	77	1220	12:12	1	0.873	A BB	6531090.	160.000 UG/ML	7.02
3	82	1289	12:53	1	0.922	A VB	7144800.	160.000 UG/ML	7.02
4	139	1301	13:01	1	0.931	A BB	2640530.	160.000 UG/ML	7.02
5	122	1325	13:15	1	0.948	A BB	4279300.	160.000 UG/ML	7.02
6	122	1387	13:52	1	0.992	A BB	1304770.	160.000 UG/ML	7.02
7	93	1348	13:29	1	0.964	A BB	6266760.	160.000 UG/ML	7.02
8	162	1369	13:41	1	0.979	A BB	4523290.	160.000 UG/ML	7.02
9	180	1385	13:51	1	0.991	A BB	4765170.	160.000 UG/ML	7.02
10	128	1405	14:03	1	1.005	A BB	12959600.	160.000 UG/ML	7.02
11	127	1424	14:14	1	1.019	A BB	5840950.	160.000 UG/ML	7.02
12	225	1439	14:23	1	1.029	A BB	2745070.	160.000 UG/ML	7.02
13	107	1558	15:35	1	1.114	A BB	4058250.	160.000 UG/ML	7.02
14	142	1587	15:52	1	1.135	A BB	7746550.	160.000 UG/ML	7.02
15	82	1215	12:09	1	0.869	A BB	6624840.	160.000 UG/ML	7.02

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:12	1.00	0.873	1.00	160.00	160.00	0.401	0.401	1.00
3	12:53	1.00	0.922	1.00	160.00	160.00	0.438	0.438	1.00
4	13:01	1.00	0.931	1.00	160.00	160.00	0.162	0.162	1.00
5	13:15	1.00	0.948	1.00	160.00	160.00	0.263	0.263	1.00
6	13:52	1.00	0.992	1.00	160.00	160.00	0.080	0.080	1.00
7	13:29	1.00	0.964	1.00	160.00	160.00	0.384	0.384	1.00
8	13:41	1.00	0.979	1.00	160.00	160.00	0.277	0.277	1.00
9	13:51	1.00	0.991	1.00	160.00	160.00	0.292	0.292	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:03	1.00	1.005	1.00	160.00	160.00	0.795	0.795	1.00
11	14:14	1.00	1.019	1.00	160.00	160.00	0.358	0.358	1.00
12	14:23	1.00	1.029	1.00	160.00	160.00	0.168	0.168	1.00
13	15:35	1.00	1.114	1.00	160.00	160.00	0.249	0.249	1.00
14	15:52	1.00	1.135	1.00	160.00	160.00	0.475	0.475	1.00
15	12:09	1.00	0.869	1.00	160.00	160.00	0.406	0.406	1.00

RIC
11/19/90 23:46:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601119 #1 SCANS 1600 TO 2100
CALI: HSD1601119 #3



000377

Quantitation Report File: HSD1601119

Data: HSD1601119.TI
11/19/90 23:46:00
Sample: HSL-D STAND 11/19
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	164	1859	18:35	1	1.000	A BB	1658400.	40.000	UG/ML	1.23
2	237	1628	16:17	1	0.876	A BB	2101390.	160.000	UG/ML	4.94
3	196	1664	16:38	1	0.895	A BV	2665570.	160.000	UG/ML	4.94
4	196	1674	16:44	1	0.900	A VB	2428300.	160.000	UG/ML	4.94
5	162	1715	17:09	1	0.923	A BB	8171190.	160.000	UG/ML	4.94
6	65	1747	17:28	1	0.940	A BB	2462260.	160.000	UG/ML	4.94
7	163	1800	18:00	1	0.968	A BB	6894300.	160.000	UG/ML	4.94
8	152	1822	18:13	1	0.980	A BB	10875300.	160.000	UG/ML	4.94
9	138	1857	18:34	1	0.999	A BB	1659150.	160.000	UG/ML	4.94
10	154	1869	18:41	1	1.005	A BB	6617500.	160.000	UG/ML	4.94
11	184	1883	18:50	1	1.013	A BB	599826.	160.000	UG/ML	4.94
12	109	1909	19:05	1	1.027	A BB	748775.	160.000	UG/ML	4.94
13	168	1914	19:08	1	1.030	A BB	9241730.	160.000	UG/ML	4.94
14	165	1917	19:10	1	1.031	A VB	2042130.	160.000	UG/ML	4.94
15	165	1814	18:08	1	0.976	A VB	1519970.	160.000	UG/ML	4.94
16	149	1986	19:52	1	1.068	A BB	6994940.	160.000	UG/ML	4.94
17	204	2007	20:04	1	1.080	A BB	3148480.	160.000	UG/ML	4.94
18	166	2004	20:02	1	1.078	A BB	6815310.	160.000	UG/ML	4.94
19	138	2019	20:11	1	1.086	A VB	851696.	160.000	UG/ML	4.94
20	172	1688	16:53	1	0.908	A BB	8319400.	160.000	UG/ML	4.94
21	330	2066	20:40	1	1.111	A VB	815608.	160.000	UG/ML	4.94

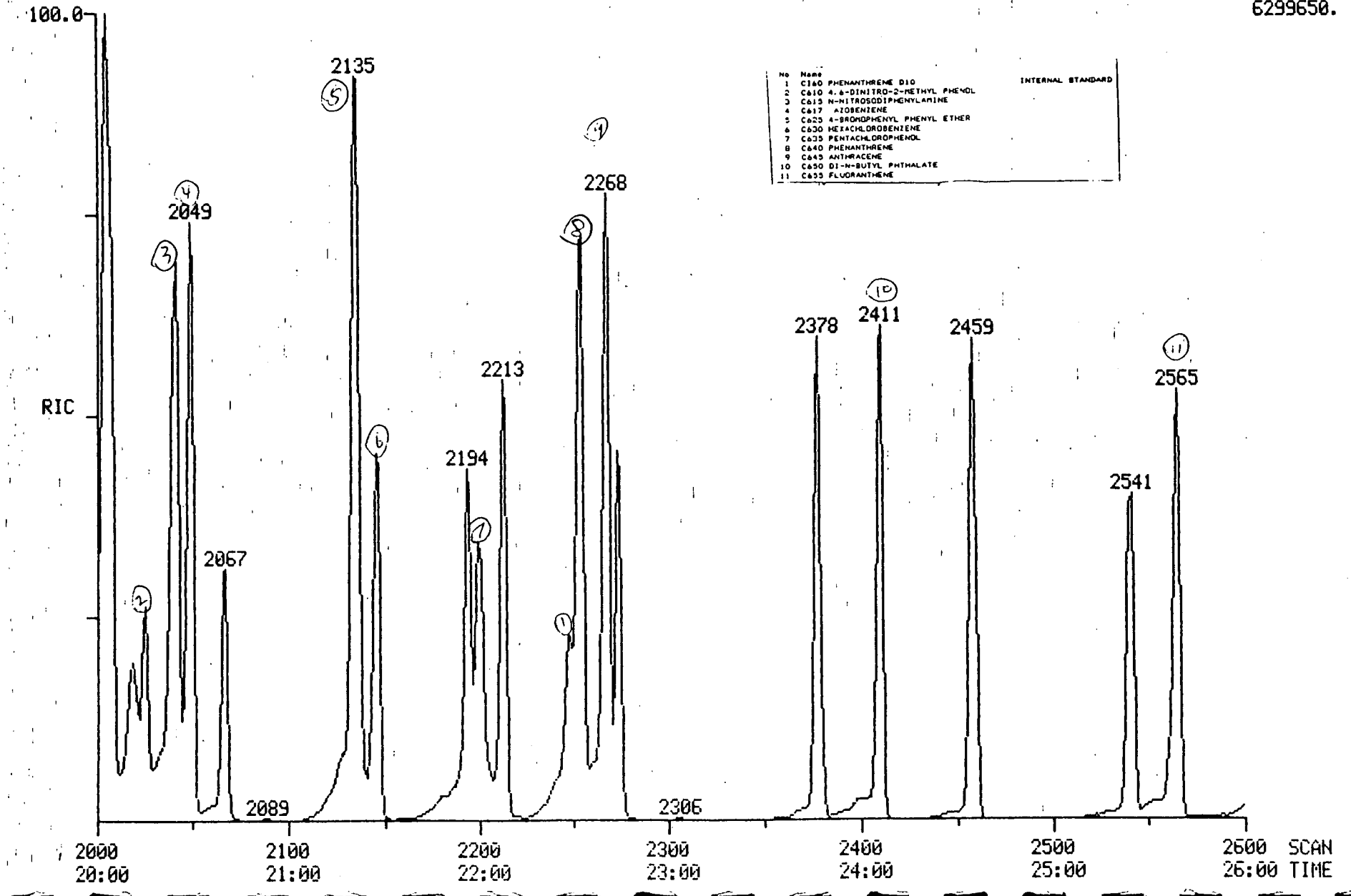
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:17	1.00	0.876	1.00	160.00	160.00	0.317	0.317	1.00
3	16:38	1.00	0.895	1.00	160.00	160.00	0.402	0.402	1.00
4	16:44	1.00	0.900	1.00	160.00	160.00	0.366	0.366	1.00
5	17:09	1.00	0.923	1.00	160.00	160.00	1.232	1.232	1.00
6	17:28	1.00	0.940	1.00	160.00	160.00	0.371	0.371	1.00
7	18:00	1.00	0.968	1.00	160.00	160.00	1.039	1.039	1.00
8	18:13	1.00	0.980	1.00	160.00	160.00	1.639	1.639	1.00
9	18:34	1.00	0.999	1.00	160.00	160.00	0.250	0.250	1.00
10	18:41	1.00	1.005	1.00	160.00	160.00	0.998	0.998	1.00
11	18:50	1.00	1.013	1.00	160.00	160.00	0.090	0.090	1.00
12	19:05	1.00	1.027	1.00	160.00	160.00	0.113	0.113	1.00
13	19:08	1.00	1.030	1.00	160.00	160.00	1.393	1.393	1.00
14	19:10	1.00	1.031	1.00	160.00	160.00	0.308	0.308	1.00
15	18:08	1.00	0.976	1.00	160.00	160.00	0.229	0.229	1.00
16	19:52	1.00	1.068	1.00	160.00	160.00	1.054	1.054	1.00
17	20:04	1.00	1.080	1.00	160.00	160.00	0.475	0.475	1.00
18	20:02	1.00	1.078	1.00	160.00	160.00	1.027	1.027	1.00
19	20:11	1.00	1.086	1.00	160.00	160.00	0.128	0.128	1.00
20	16:53	1.00	0.908	1.00	160.00	160.00	1.254	1.254	1.00
21	20:40	1.00	1.111	1.00	160.00	160.00	0.123	0.123	1.00

RIC
11/19/90 23:46:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601119 #1
CALI: HSD1601119 #3

SCANS 2000 TO 2600

6299650.



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000380

Quantitation Report File: HSD1601119

Data: HSD1601119.TI
11/19/90 23:46:00
Sample: HSL-D STAND 11/19
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

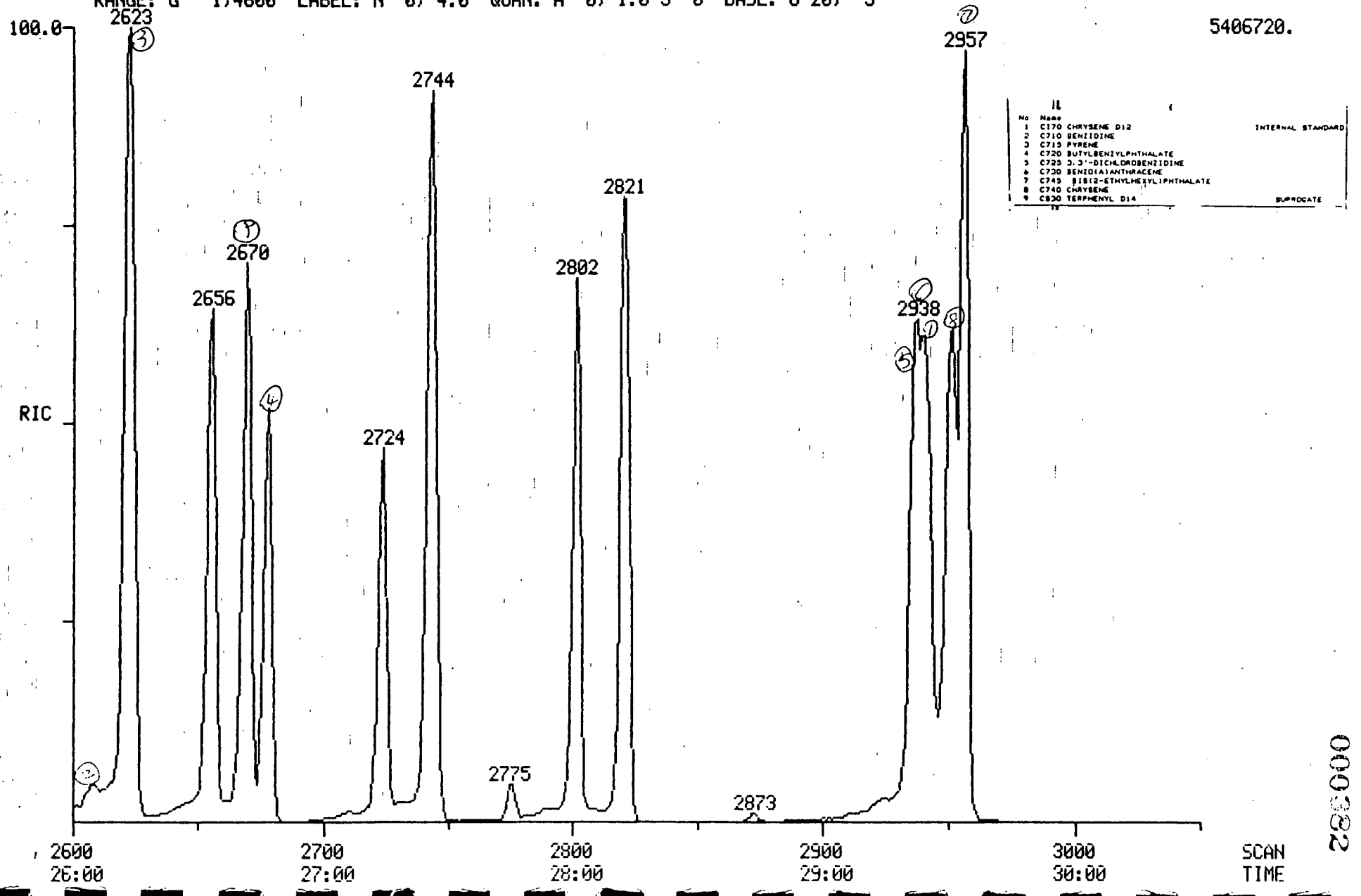
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	188	2247	22:28	1	1.000	A BB	979456.	40.000	UG/ML	2.44
2	198	2025	20:15	1	0.901	A VB	823904.	160.000	UG/ML	9.76
3	169	2041	20:25	1	0.908	A BB	4555230.	160.000	UG/ML	9.76
4	77	2049	20:29	1	0.912	A BB	9990080.	160.000	NG	9.76
5	248	2135	21:21	1	0.950	A BB	1793180.	160.000	UG/ML	9.76
6	284	2146	21:28	1	0.955	A BB	1837970.	160.000	UG/ML	9.76
7	266	2200	22:00	1	0.979	A BV	943176.	160.000	UG/ML	9.76
8	178	2255	22:33	1	1.004	A BB	6271490.	160.000	UG/ML	9.76
9	178	2268	22:41	1	1.009	A VB	7237570.	160.000	UG/ML	9.76
10	149	2411	24:07	1	1.073	A BB	8745060.	160.000	UG/ML	9.76
11	202	2565	25:39	1	1.142	A BB	5768060.	160.000	UG/ML	9.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:15	1.00	0.901	1.00	160.00	160.00	0.210	0.210	1.00
3	20:25	1.00	0.908	1.00	160.00	160.00	1.163	1.163	1.00
4	20:29	1.00	0.912	1.00	160.00	160.00	2.550	2.550	1.00
5	21:21	1.00	0.950	1.00	160.00	160.00	0.458	0.458	1.00
6	21:28	1.00	0.955	1.00	160.00	160.00	0.469	0.469	1.00
7	22:00	1.00	0.979	1.00	160.00	160.00	0.241	0.241	1.00
8	22:33	1.00	1.004	1.00	160.00	160.00	1.601	1.601	1.00
9	22:41	1.00	1.009	1.00	160.00	160.00	1.847	1.847	1.00
10	24:07	1.00	1.073	1.00	160.00	160.00	2.232	2.232	1.00
11	25:39	1.00	1.142	1.00	160.00	160.00	1.472	1.472	1.00

RIC
11/19/90 23:46:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601119 #1
CALI: HSD1601119 #3

SCANS 2600 TO 3050



000582

Quantitation Report File: HSD1601119

Data: HSD1601119.TI
11/19/90 23:46:00
Sample: HSL-D STAND 11/19
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

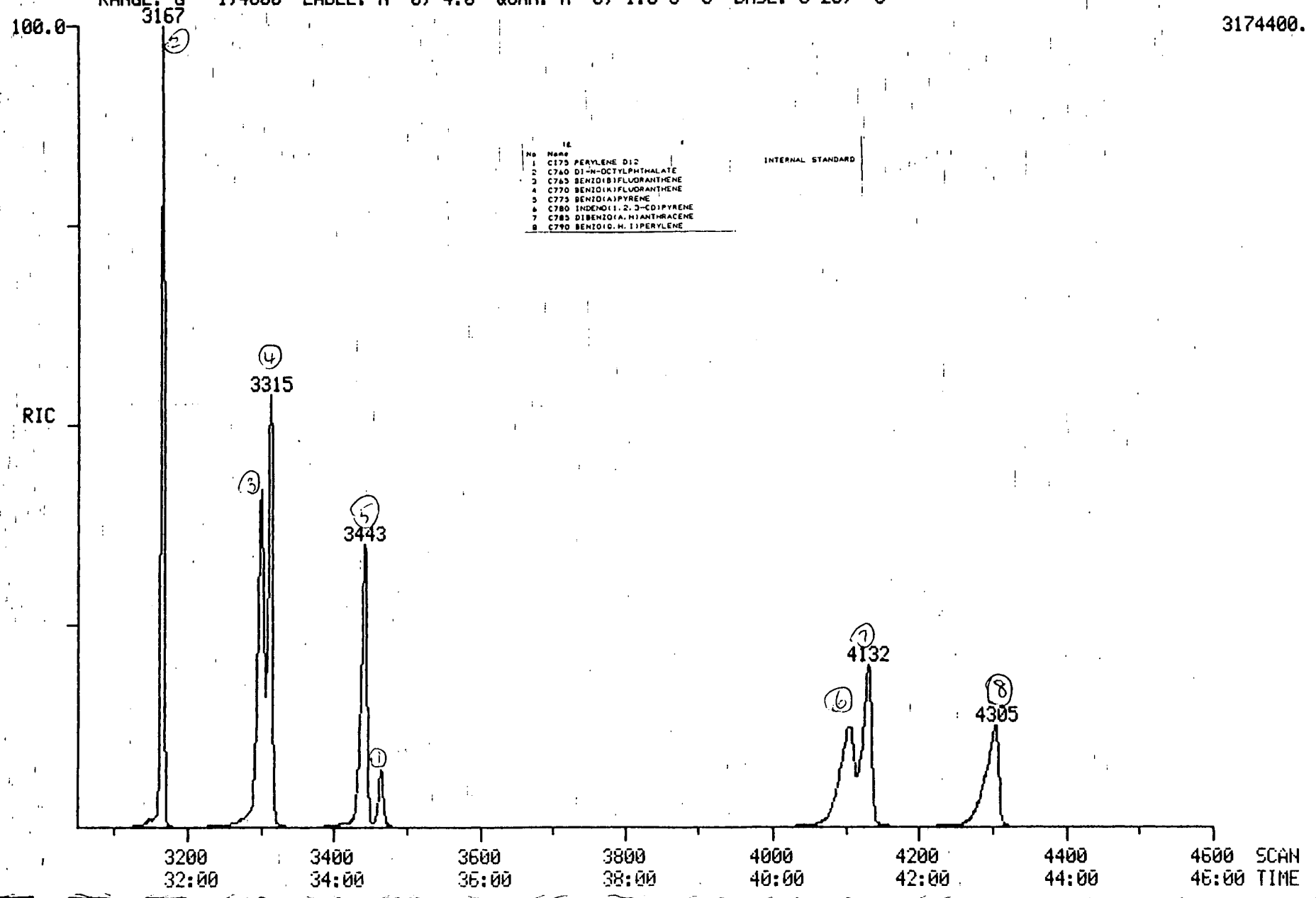
N	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2943	29:26	1	1.000	A BB	1162250.	40.000 UG/ML	3.03
2	184	2607	26:04	1	0.886	A BV	204748.	160.000 UG/ML	12.12
3	202	2624	26:14	1	0.892	A BB	6627900.	160.000 UG/ML	12.12
4	149	2802	28:01	1	0.952	A VB	3085060.	160.000 UG/ML	12.12
5	252	2936	29:22	1	0.998	A BB	1384800.	160.000 UG/ML	12.12
6	228	2940	29:24	1	0.999	A BV	5630660.	160.000 UG/ML	12.12
7	149	2957	29:34	1	1.005	A VB	5943780.	160.000 UG/ML	12.12
8	228	2951	29:31	1	1.003	A BB	3925620.	160.000 UG/ML	12.12
9	244	2670	26:42	1	0.907	A VB	4524320.	160.000 UG/ML	12.12

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:04	1.00	0.886	1.00	160.00	160.00	0.044	0.044	1.00
3	26:14	1.00	0.892	1.00	160.00	160.00	1.426	1.426	1.00
4	28:01	1.00	0.952	1.00	160.00	160.00	0.664	0.664	1.00
5	29:22	1.00	0.998	1.00	160.00	160.00	0.298	0.298	1.00
6	29:24	1.00	0.999	1.00	160.00	160.00	1.211	1.211	1.00
7	29:34	1.00	1.005	1.00	160.00	160.00	1.279	1.279	1.00
8	29:31	1.00	1.003	1.00	160.00	160.00	0.844	0.844	1.00
9	26:42	1.00	0.907	1.00	160.00	160.00	0.973	0.973	1.00

RIC
11/19/90 23:46:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 160 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD1601119 #1 SCANS 3050 TO 4600
CALI: HSD1601119 #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000284

Quantitation Report File: HSD1601119

Data: HSD1601119.TI
11/19/90 23:46:00
Sample: HSL-D STAND 11/19
Conds.: 160 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD16011

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

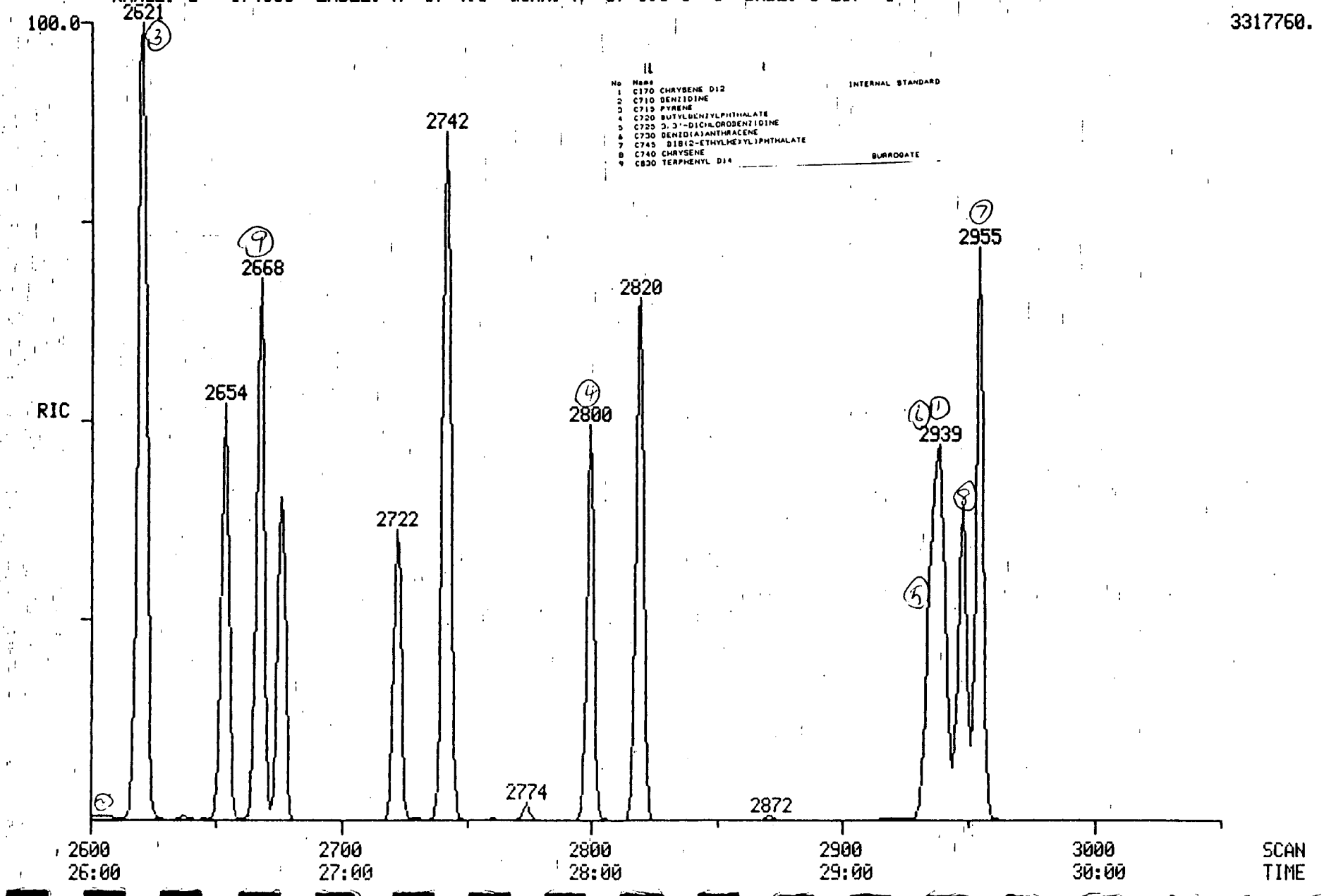
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	264	3465	34:39	1	1.000	A BB	660193.	40.000	UG/ML	3.45
2	149	3167	31:40	1	0.914	A BB	7576470.	160.000	UG/ML	13.79
3	252	3301	33:01	1	0.953	A BV	3697410.	160.000	UG/ML	13.79
4	252	3315	33:09	1	0.957	A VB	3288960.	160.000	UG/ML	13.79
5	252	3443	34:26	1	0.994	A BB	3120410.	160.000	UG/NL	13.79
6	276	4107	41:04	1	1.185	A BB	1464380.	160.000	UG/ML	13.79
7	278	4132	41:19	1	1.192	A BB	2326990.	160.000	UG/ML	13.79
8	276	4305	43:03	1	1.242	A BB	1551600.	160.000	UG/ML	13.79

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:40	1.00	0.914	1.00	160.00	160.00	2.869	2.869	1.00
3	33:01	1.00	0.953	1.00	160.00	160.00	1.400	1.400	1.00
4	33:09	1.00	0.957	1.00	160.00	160.00	1.245	1.245	1.00
5	34:26	1.00	0.994	1.00	160.00	160.00	1.182	1.182	1.00
6	41:04	1.00	1.185	1.00	160.00	160.00	0.555	0.555	1.00
7	41:19	1.00	1.192	1.00	160.00	160.00	0.881	0.881	1.00
8	43:03	1.00	1.242	1.00	160.00	160.00	0.588	0.588	1.00

RIC
11/19/90 22:00:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801119 #1
CALI: HSD801119 #3

SCANS 2600 TO 3050



000386

Quantitation Report File: HSD801119

Data: HSD801119.TI
11/19/90 22:00:00
Sample: HSL-D STAND 11/19
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD80111

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

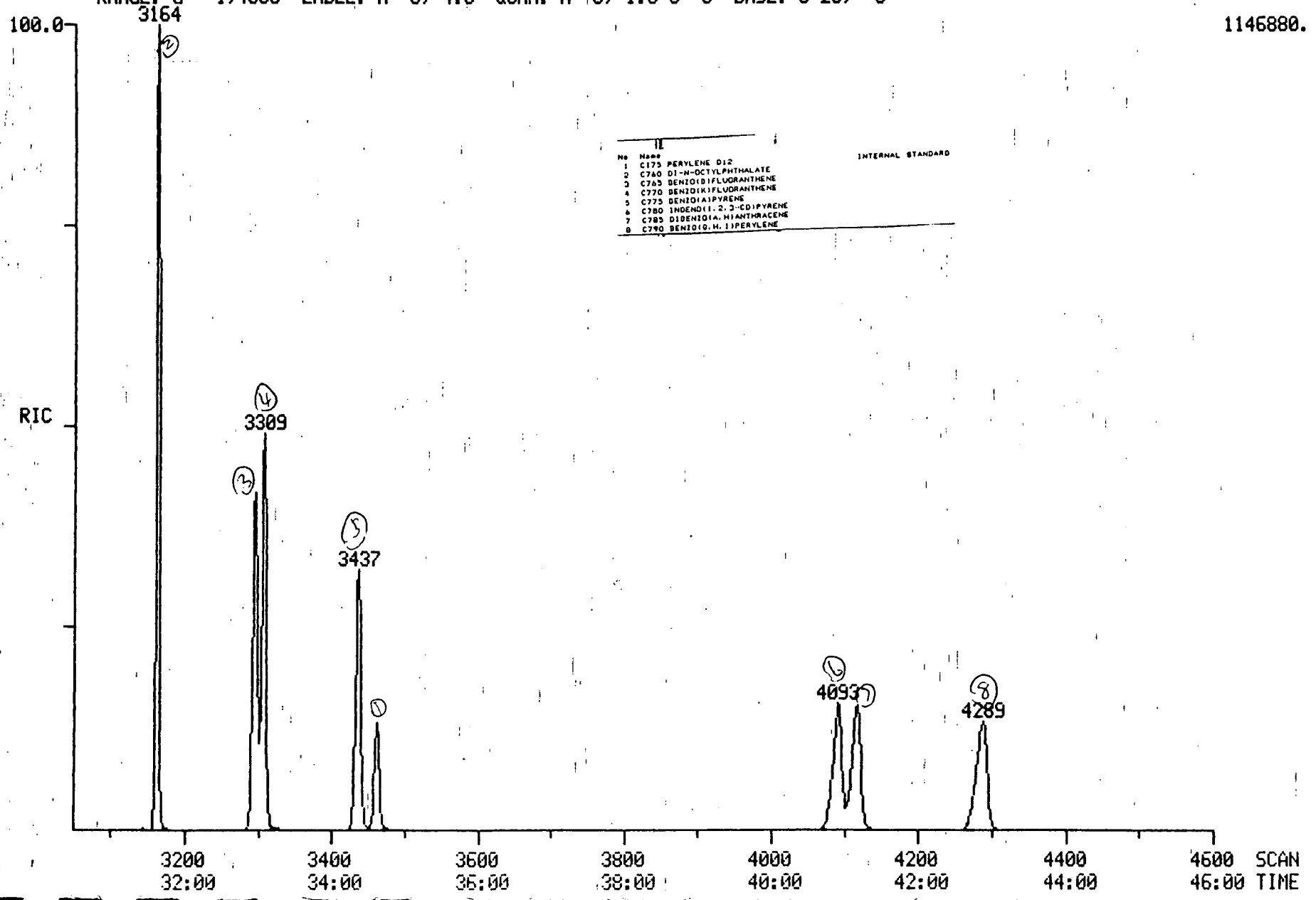
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2940	29:24	1	1.000	A BV	867595.	40.000 UG/ML	5.88
2	184	2604	26:02	1	0.886	A BV	59074.	80.000 UG/ML	11.76
3	202	2621	26:13	1	0.891	A VB	3324210.	80.000 UG/ML	11.76
4	149	2800	28:00	1	0.952	A VB	1317890.	80.000 UG/ML	11.76
5	252	2934	29:20	1	0.998	A BB	456762.	80.000 UG/ML	11.76
6	228	2938	29:23	1	0.999	A BV	2104940.	80.000 UG/ML	11.76
7	149	2955	29:33	1	1.005	A BB	2116540.	80.000 UG/ML	11.76
8	228	2948	29:29	1	1.003	A BB	1405260.	80.000 UG/ML	11.76
9	244	2668	26:41	1	0.907	A VV	2543380.	80.000 UG/ML	11.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:24	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:02	1.00	0.886	1.00	80.00	80.00	0.034	0.034	1.00
3	26:13	1.00	0.891	1.00	80.00	80.00	1.916	1.916	1.00
4	28:00	1.00	0.952	1.00	80.00	80.00	0.760	0.760	1.00
5	29:20	1.00	0.998	1.00	80.00	80.00	0.263	0.263	1.00
6	29:23	1.00	0.999	1.00	80.00	80.00	1.213	1.213	1.00
7	29:33	1.00	1.005	1.00	80.00	80.00	1.220	1.220	1.00
8	29:29	1.00	1.003	1.00	80.00	80.00	0.810	0.810	1.00
9	26:41	1.00	0.907	1.00	80.00	80.00	1.466	1.466	1.00

RIC
11/19/90 22:00:00
SAMPLE: HSL-D STAND 11/19
CONDS.: 80 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD801119 #1 SCANS 3050 TO 4600
CALI: HSD801119 #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C740 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000088

Quantitation Report File: HSD801119

Data: HSD801119.TI
11/19/90 22:00:00
Sample: HSL-D STAND 11/19
Conds.: 80 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD80111

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3462	34:37	1	1.000	A BB	457854.	40.000 UG/ML	6.67
2	149	3164	31:38	1	0.914	A BB	2618800.	80.000 UG/ML	13.33
3	252	3297	32:58	1	0.952	A BV	1177480.	80.000 UG/ML	13.33
4	252	3309	33:05	1	0.956	A VB	1215090.	80.000 UG/ML	13.33
5	252	3437	34:22	1	0.993	A BB	1053160.	80.000 UG/NL	13.33
6	276	4093	40:56	1	1.182	A BB	675888.	80.000 UG/ML	13.33
7	278	4119	41:11	1	1.190	A BB	757432.	80.000 UG/ML	13.33
8	276	4289	42:53	1	1.239	A BB	691456.	80.000 UG/ML	13.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:38	1.00	0.914	1.00	80.00	80.00	2.860	2.860	1.00
3	32:58	1.00	0.952	1.00	80.00	80.00	1.286	1.286	1.00
4	33:05	1.00	0.956	1.00	80.00	80.00	1.327	1.327	1.00
5	34:22	1.00	0.993	1.00	80.00	80.00	1.150	1.150	1.00
6	40:56	1.00	1.182	1.00	80.00	80.00	0.738	0.738	1.00
7	41:11	1.00	1.190	1.00	80.00	80.00	0.827	0.827	1.00
8	42:53	1.00	1.239	1.00	80.00	80.00	0.755	0.755	1.00

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

ANALYTICAL DATA REPORT PACKAGE
FOR
GANNET & FLEMING INC.

PART 3 OF 3

Field Sample ID	Laboratory Sample ID	Date of Collection
14 A	296400	11/01/90
14 B	296401	11/01/90
14 C	296402	11/01/90
29 C	296403	11/01/90
FIELD BLANK	296404	11/01/90
TRIP BLANK	296405	11/01/90

Laboratory Name: QC Inc.

Certification No.: PADER No. 09-131
NJDEP No. 77166

Supervisor/Manager Signature: Thomas J. Hines

Printed Name: Thomas J. Hines

Date: 11-30-90

QC G-1

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

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	(14 B).....	562
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7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration date: 11/12/90 Time: 1718

Lab File ID: HSD501112 Init. Calib. Date(s): 11/09/90 11/09/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
N-Nitrosodimethylamine		0.951	0.750	21.1	
Phenol	*	1.613	1.642	-1.8	*
bis(2-Chloroethyl)Ether		1.357	1.329	2.1	
2-Chlorophenol		1.364	1.357	0.5	
1,3-Dichlorobenzene		1.453	1.542	-6.1	
1,4-Dichlorobenzene	*	1.458	1.572	-7.8	*
Benzyl Alcohol		0.758	0.815	-7.5	
1,2-Dichlorobenzene		1.275	1.483	-16.3	
2-Methylphenol		1.249	1.328	-6.3	
bis(2-Chloroisopropyl)Ether		0.018	0.055	-99.9	
4-Methylphenol		0.987	1.157	-17.2	
N-Nitroso-Di-n-Propylamine	#	1.059	1.161	-9.6	#
Hexachloroethane		0.631	0.694	-10.0	
Nitrobenzene		0.381	0.372	2.4	
Isophorone		0.700	0.758	-8.3	
2-Nitrophenol	*	0.139	0.133	4.3	*
2,4-Dimethylphenol		0.275	0.269	2.2	
Benzoic Acid		0.128	0.211	-64.8	
bis(2-Chloroethoxy)Methane		0.374	0.358	4.3	
2,4-Dichlorophenol	*	0.266	0.260	2.3	*
1,2,4-Trichlorobenzene		0.302	0.294	2.6	
Naphthalene		0.850	0.940	-10.6	
4-Chloroaniline		0.378	0.439	-16.1	
Hexachlorobutadiene	*	0.168	0.154	8.3	*
4-Chloro-3-Methylphenol	*	0.269	0.293	-8.9	*
2-Methylnaphthalene		0.538	0.637	-18.4	
Hexachlorocyclopentadiene	#	0.215	0.174	19.1	#
2,4,6-Trichlorophenol	*	0.338	0.306	9.5	*
2,4,5-Trichlorophenol		0.353	0.382	-8.2	
2-Chloronaphthalene		1.072	1.023	4.6	
2-Nitroaniline		0.391	0.398	-1.8	
Dimethyl Phthalate		1.251	1.340	-7.1	
Acenaphthylene		1.585	1.669	-5.3	
2,6-Dinitrotoluene		0.291	0.304	-4.5	
3-Nitroaniline		0.304	0.313	-3.0	
Acenaphthene	*	0.972	1.033	-6.3	*
2,4-Dinitrophenol	#	0.100	0.057	43.0	#
4-Nitrophenol	#	0.139	0.097	30.2	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration date: 11/12/90 Time: 1718

Lab File ID: HSD501112 Init. Calib. Date(s): 11/09/90 11/09/90

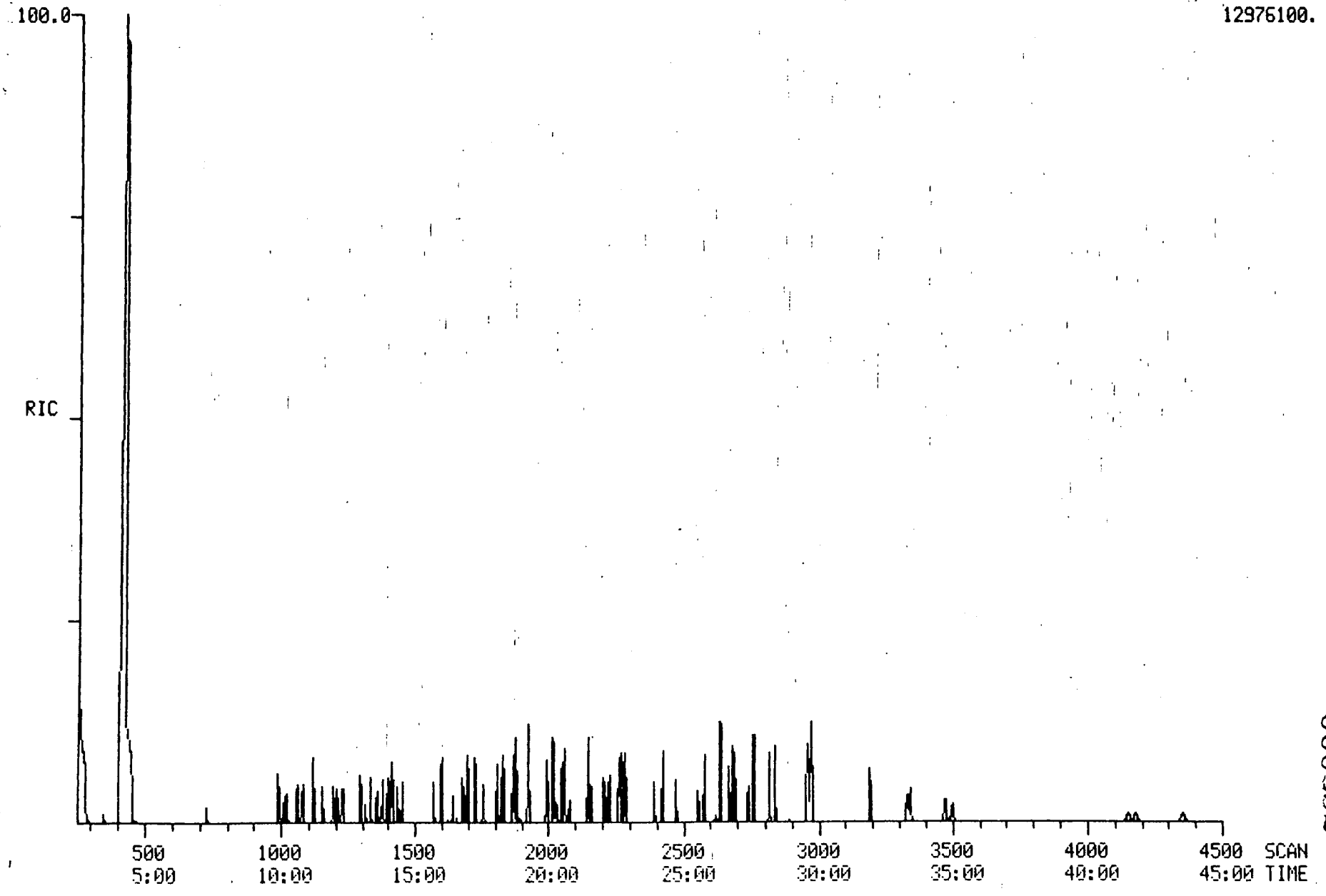
Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dibenzofuran		1.396	1.550	-11.0	
2,4-Dinitrotoluene		0.374	0.368	1.6	
Diethylphthalate		1.306	1.325	-1.5	
4-Chlorophenyl-phenylether		0.482	0.504	-4.6	
Fluorene		1.121	1.216	-8.5	
4-Nitroaniline		0.201	0.282	-40.3	
4,6-Dinitro-2-Methylphenol		0.180	0.179	0.6	
N-Nitrosodiphenylamine (1)	*	0.919	0.983	-7.0	*
Azobenzene (2)		1.625	1.957	-20.4	
4-Bromophenyl-phenylether		0.321	0.340	-5.9	
Hexachlorobenzene		0.365	0.351	3.8	
Pentachlorophenol	*	0.216	0.218	-0.9	*
Phenanthrene		1.734	1.903	-9.7	
Anthracene		1.741	2.006	-15.2	
Di-n-Butylphthalate		2.273	2.547	-12.0	
Fluoranthene	*	1.739	2.097	-20.6	*
Benzidine		0.116	0.240	-99.9	
Pyrene		1.290	1.206	6.5	
Butylbenzylphthalate		0.691	0.624	9.7	
3,3'-Dichlorobenzidine		0.241	0.277	-14.9	
Benzo(a)Anthracene		1.027	1.078	-5.0	
Chrysene		0.803	0.856	-6.6	
bis(2-Ethylhexyl)Phthalate		1.061	1.067	-0.6	
Di-n-Octyl Phthalate	*	2.243	2.123	5.4	*
Benzo(b)Fluoranthene		1.121	1.166	-4.0	
Benzo(k)Fluoranthene		1.049	1.095	-4.4	
Benzo(a)Pyrene	*	0.988	1.041	-5.4	*
Indeno(1,2,3-cd)Pyrene		0.477	0.560	-17.4	
Dibenz(a,h)Anthracene		0.564	0.591	-4.8	
Benzo(g,h,i)Perylene		0.489	0.562	-14.9	
Nitrobenzene-d5		0.412	0.415	-0.7	
2-Fluorobiphenyl		1.140	1.133	0.6	
Terphenyl-d14		1.010	0.944	6.5	
Phenol-d5		1.284	1.351	-5.2	
2-Fluorophenol		1.048	0.901	14.0	
2,4,6-Tribromophenol		0.161	0.119	26.1	

(1) Cannot be separated from Diphenylamine

RIC
11/12/90 17:18:00
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501112 #1 SCANS 250 TO 4500
CALI: CALTAB #3

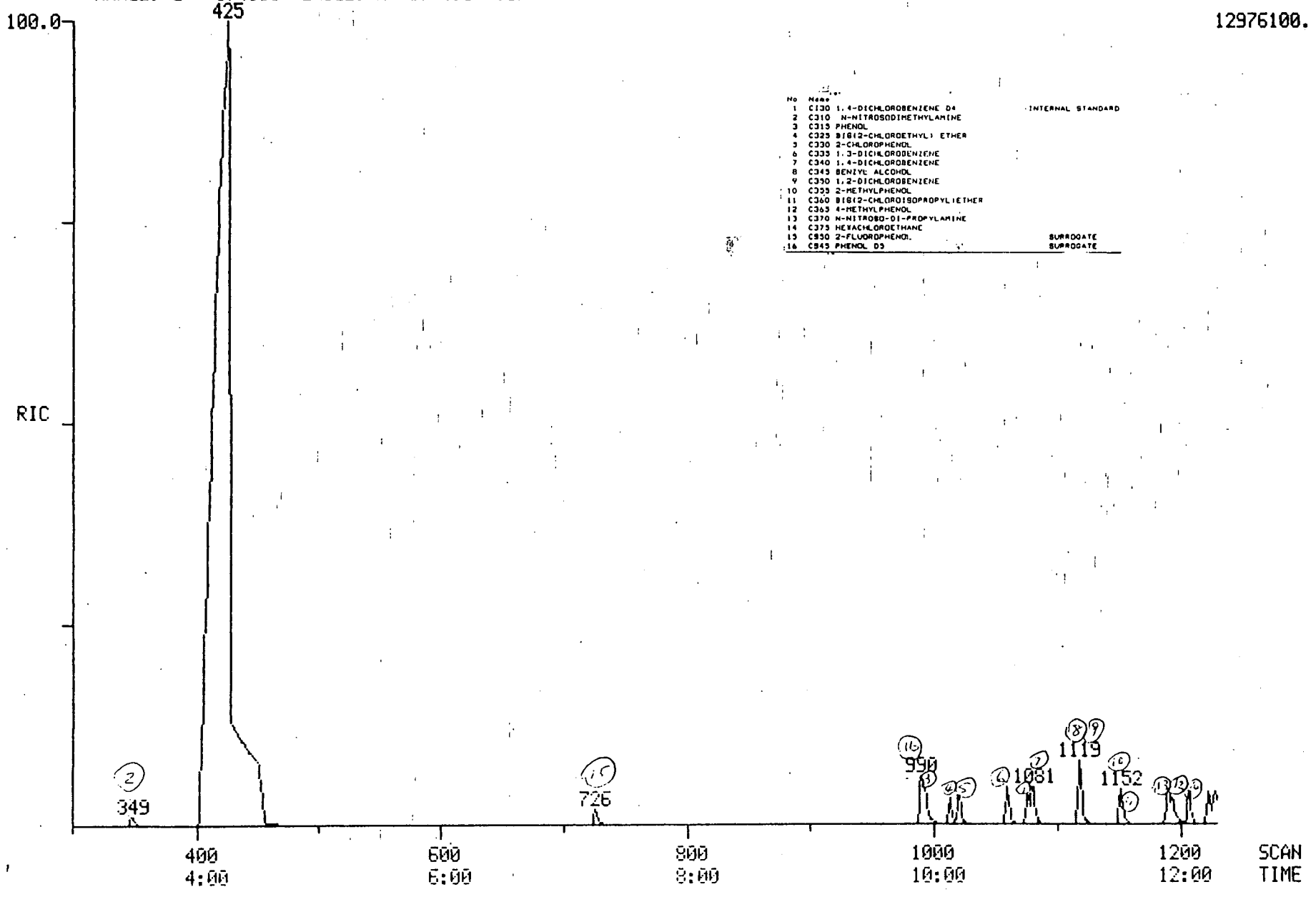


000392

RIC
11/12/90 17:18:00
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501112 #1
CALI: HSD501112 #3

SCANS 300 TO 1230



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C950 2-FLUOROPHENOL	SURROGATE
16	C945 PHENOL D5	SURROGATE

000393

Quantitation Report File: HSD501112

000394

Data: HSD501112.TI
11/12/90 17:18:00
Sample: HSL-D STAND 11/12/90
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50110

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1076	10:46	1	1.000	A BB	310240.	40.000 UG/ML	5.06
2	74	349	3:29	1	0.324	A BB	290802.	50.000 UG	6.33
3	94	993	9:56	1	0.923	A BB	636581.	50.000 UG/ML	6.33
4	93	1013	10:08	1	0.941	A BB	515238.	50.000 UG/ML	6.33
5	128	1020	10:12	1	0.948	A BB	526144.	50.000 UG/ML	6.33
6	146	1060	10:36	1	0.985	A BB	598160.	50.000 UG/ML	6.33
7	146	1080	10:48	1	1.004	A BB	609728.	50.000 UG/ML	6.33
8	108	1119	11:11	1	1.040	A BB	315975.	50.000 UG/ML	6.33
9	146	1119	11:11	1	1.040	A BB	575216.	50.000 UG/ML	6.33
10	108	1152	11:31	1	1.071	A BB	514918.	50.000 UG/ML	6.33
11	45	1157	11:34	1	1.075	A*BB	21248.	50.000 UG/ML	6.33
12	108	1194	11:56	1	1.110	A BB	448734.	50.000 UG/ML	6.33
13	70	1191	11:55	1	1.107	A BB	450336.	50.000 UG/ML	6.33
14	117	1208	12:05	1	1.123	A BB	269056.	50.000 UG/ML	6.33
15	112	726	7:16	1	0.675	A BB	349539.	50.000 UG/L	6.33
16	99	990	9:54	1	0.920	A BB	523892.	50.000 UG/ML	6.33

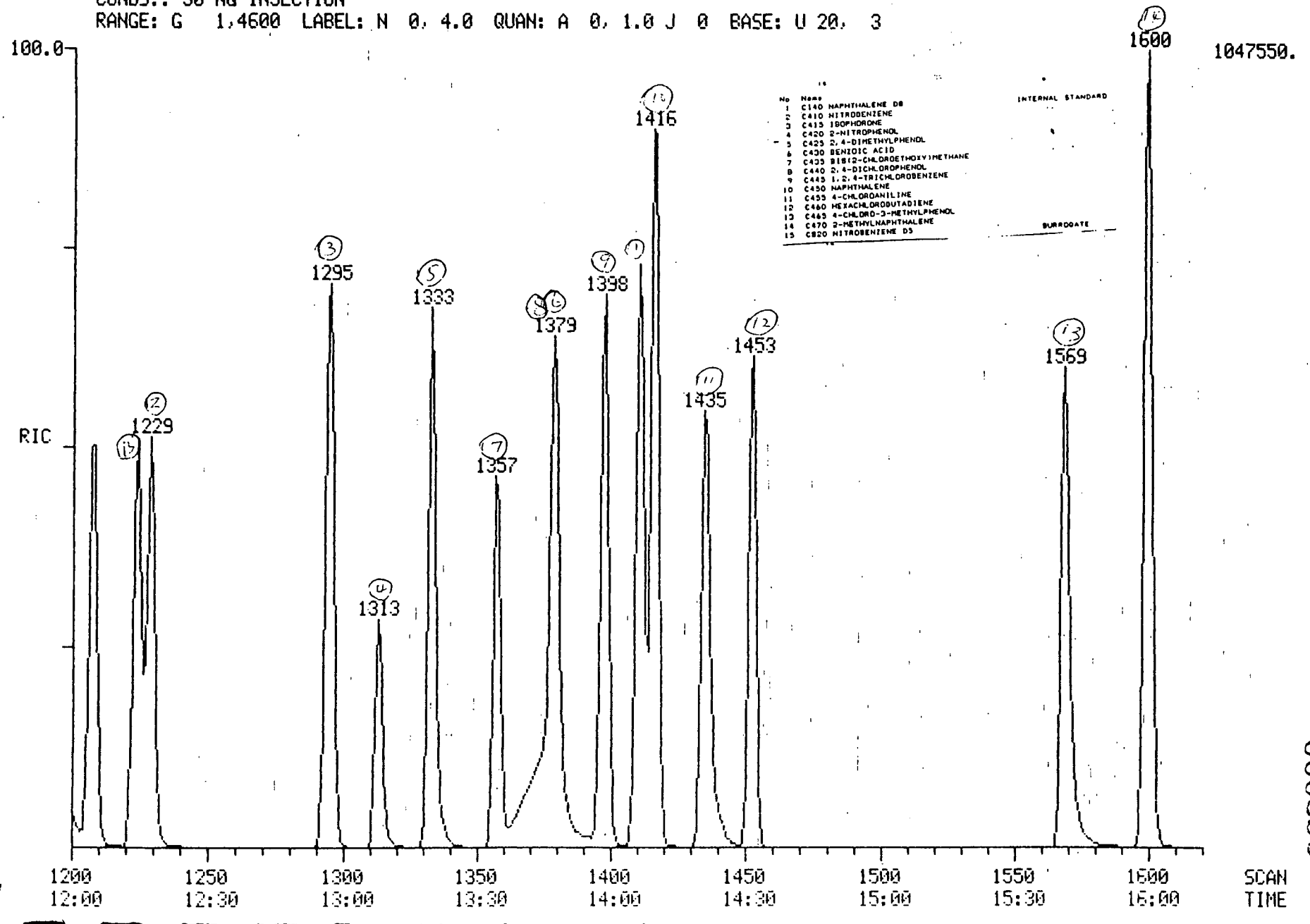
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:29	1.00	0.324	1.00	50.00	50.00	0.750	0.750	1.00
3	9:56	1.00	0.923	1.00	50.00	50.00	1.642	1.642	1.00
4	10:08	1.00	0.941	1.00	50.00	50.00	1.329	1.329	1.00
5	10:12	1.00	0.948	1.00	50.00	50.00	1.357	1.357	1.00
6	10:36	1.00	0.985	1.00	50.00	50.00	1.542	1.542	1.00
7	10:48	1.00	1.004	1.00	50.00	50.00	1.572	1.572	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11	1.00	1.040	1.00	50.00	50.00	0.815	0.815	1.00
9	11:11	1.00	1.040	1.00	50.00	50.00	1.483	1.483	1.00
10	11:31	1.00	1.071	1.00	50.00	50.00	1.328	1.328	1.00
11	11:34	1.00	1.075	1.00	50.00	50.00	0.055	0.055	1.00
12	11:56	1.00	1.110	1.00	50.00	50.00	1.157	1.157	1.00
13	11:55	1.00	1.107	1.00	50.00	50.00	1.161	1.161	1.00
14	12:05	1.00	1.123	1.00	50.00	50.00	0.694	0.694	1.00
15	7:16	1.00	0.675	1.00	50.00	50.00	0.901	0.901	1.00
16	9:54	1.00	0.920	1.00	50.00	50.00	1.351	1.351	1.00

RIC
11/12/90 17:18:00
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501112 #1
CALI: HSD501112 #3

SCANS 1200 TO 1620



No	Name
1	C140 NAPHTHALENE D8
2	C410 NITROBENZENE
3	C415 ISOPHORONE
4	C420 2-NITROPHENOL
5	C425 2,4-DIMETHYLPHENOL
6	C430 BENZOIC ACID
7	C435 BIS(2-CHLOROETHOXY)METHANE
8	C440 2,4-DICHLOROPHENOL
9	C445 1,2,4-TRICHLOROBENZENE
10	C450 NAPHTHALENE
11	C455 4-CHLOROANILINE
12	C460 HEXACHLOROBUTADIENE
13	C465 4-CHLORO-3-METHYLPHENOL
14	C470 2-METHYLNAPHTHALENE
15	C820 NITROBENZENE D5

000396

Quantitation Report File: HSD501112

Data: HSD501112.TI
11/12/90 17:18:00
Sample: HSL-D STAND 11/12/90
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50110

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1411	14:07	1	1.000	A BB	1384750.	40.000 UG/ML	5.41
2	77	1229	12:17	1	0.871	A BB	644044.	50.000 UG/ML	6.76
3	82	1295	12:57	1	0.918	A BB	1311660.	50.000 UG/ML	6.76
4	139	1313	13:08	1	0.931	A BB	230944.	50.000 UG/ML	6.76
5	122	1333	13:20	1	0.945	A BB	465840.	50.000 UG/ML	6.76
6	122	1380	13:48	1	0.978	A BB	364516.	50.000 UG/ML	6.76
7	93	1357	13:34	1	0.962	A BB	619424.	50.000 UG/ML	6.76
8	162	1379	13:47	1	0.977	A BB	450408.	50.000 UG/ML	6.76
9	180	1398	13:59	1	0.991	A BB	508896.	50.000 UG/ML	6.76
10	128	1416	14:10	1	1.004	A BB	1626910.	50.000 UG/ML	6.76
11	127	1435	14:21	1	1.017	A BB	760205.	50.000 UG/ML	6.76
12	225	1452	14:31	1	1.029	A BB	267296.	50.000 UG/ML	6.76
13	107	1569	15:41	1	1.112	A BB	506800.	50.000 UG/ML	6.76
14	142	1600	16:00	1	1.134	A BB	1103310.	50.000 UG/ML	6.76
15	82	1224	12:14	1	0.867	A BB	719168.	50.000 UG/ML	6.76

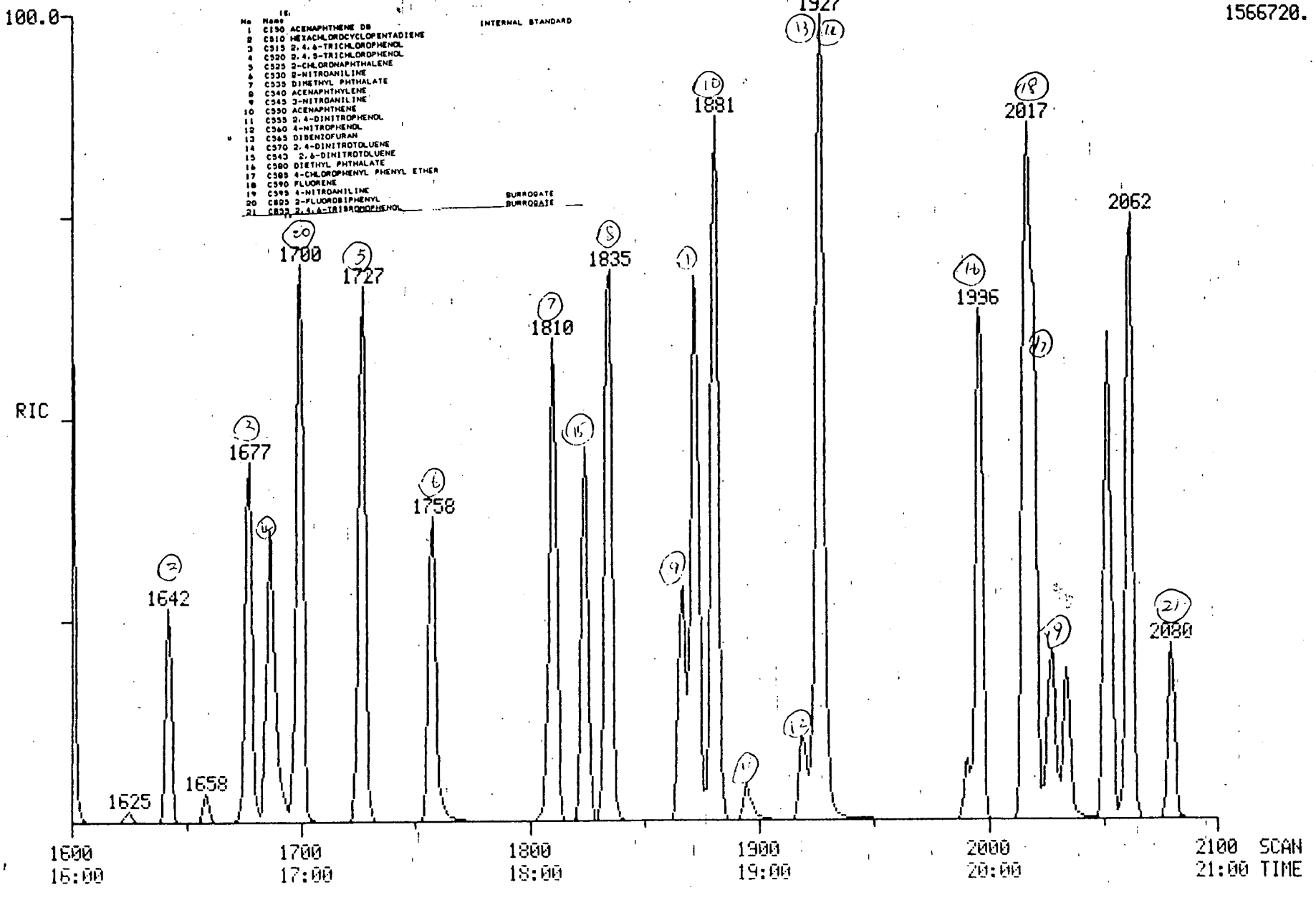
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17	1.00	0.871	1.00	50.00	50.00	0.372	0.372	1.00
3	12:57	1.00	0.918	1.00	50.00	50.00	0.758	0.758	1.00
4	13:08	1.00	0.931	1.00	50.00	50.00	0.133	0.133	1.00
5	13:20	1.00	0.945	1.00	50.00	50.00	0.269	0.269	1.00
6	13:48	1.00	0.978	1.00	50.00	50.00	0.211	0.211	1.00
7	13:34	1.00	0.962	1.00	50.00	50.00	0.358	0.358	1.00
8	13:47	1.00	0.977	1.00	50.00	50.00	0.260	0.260	1.00
9	13:59	1.00	0.991	1.00	50.00	50.00	0.294	0.294	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Rati
10	14:10	1.00	1.004	1.00	50.00	50.00	0.940	0.940	1.00
11	14:21	1.00	1.017	1.00	50.00	50.00	0.439	0.439	1.00
12	14:31	1.00	1.029	1.00	50.00	50.00	0.154	0.154	1.00
13	15:41	1.00	1.112	1.00	50.00	50.00	0.293	0.293	1.00
14	16:00	1.00	1.134	1.00	50.00	50.00	0.637	0.637	1.00
15	12:14	1.00	0.867	1.00	50.00	50.00	0.415	0.415	1.00

RIC
11/12/90 17:18:00
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501112 #1
CALI: HSD501112 #3

SCANS 1600 TO 2100



000399

Quantitation Report File: HSD501112

000400

Data: HSD501112.TI
11/12/90 17:18:00
Sample: HSL-D STAND 11/12/90
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD50110

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

No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1872	18:43	1	1.000	A BB	935440.	40.000 UG/ML	3.85
2	237	1642	16:25	1	0.877	A BB	203008.	50.000 UG/ML	4.81
3	196	1677	16:46	1	0.896	A BV	357992.	50.000 UG/ML	4.81
4	196	1686	16:52	1	0.901	A VB	447093.	50.000 UG/ML	4.81
5	162	1727	17:16	1	0.923	A BB	1196670.	50.000 UG/ML	4.81
6	65	1758	17:35	1	0.939	A BB	464889.	50.000 UG/ML	4.81
7	163	1810	18:06	1	0.967	A BB	1567390.	50.000 UG/ML	4.81
8	152	1835	18:21	1	0.980	A BB	1951790.	50.000 UG/ML	4.81
9	138	1866	18:40	1	0.997	A BB	365445.	50.000 UG/ML	4.81
10	154	1881	18:49	1	1.005	A BB	1207380.	50.000 UG/ML	4.81
11	184	1895	18:57	1	1.012	A BB	66928.	50.000 UG/ML	4.81
12	109	1919	19:11	1	1.025	A BB	113274.	50.000 UG/ML	4.81
13	168	1927	19:16	1	1.029	A BB	1812030.	50.000 UG/ML	4.81
14	165	1928	19:17	1	1.030	A BB	430416.	50.000 UG/ML	4.81
15	165	1824	18:14	1	0.974	A BB	355536.	50.000 UG/ML	4.81
16	149	1996	19:58	1	1.066	A BB	1549230.	50.000 UG/ML	4.81
17	204	2020	20:12	1	1.079	A BB	589408.	50.000 UG/ML	4.81
18	166	2016	20:10	1	1.077	A BB	1422340.	50.000 UG/ML	4.81
19	138	2027	20:16	1	1.083	A BB	329565.	50.000 UG/ML	4.81
20	172	1700	17:00	1	0.908	A BB	1324990.	50.000 UG/ML	4.81
21	330	2079	20:47	1	1.111	A BB	139280.	50.000 UG/ML	4.81

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Rati
1	18:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:25	1.00	0.877	1.00	50.00	50.00	0.174	0.174	1.00
3	16:46	1.00	0.896	1.00	50.00	50.00	0.306	0.306	1.00
4	16:52	1.00	0.901	1.00	50.00	50.00	0.382	0.382	1.00
5	17:16	1.00	0.923	1.00	50.00	50.00	1.023	1.023	1.00
6	17:35	1.00	0.939	1.00	50.00	50.00	0.398	0.398	1.00
7	18:06	1.00	0.967	1.00	50.00	50.00	1.340	1.340	1.00
8	18:21	1.00	0.980	1.00	50.00	50.00	1.669	1.669	1.00
9	18:40	1.00	0.997	1.00	50.00	50.00	0.313	0.313	1.00
10	18:49	1.00	1.005	1.00	50.00	50.00	1.033	1.033	1.00
11	18:57	1.00	1.012	1.00	50.00	50.00	0.057	0.057	1.00
12	19:11	1.00	1.025	1.00	50.00	50.00	0.097	0.097	1.00
13	19:16	1.00	1.029	1.00	50.00	50.00	1.550	1.550	1.00
14	19:17	1.00	1.030	1.00	50.00	50.00	0.368	0.368	1.00
15	18:14	1.00	0.974	1.00	50.00	50.00	0.304	0.304	1.00
16	19:58	1.00	1.066	1.00	50.00	50.00	1.325	1.325	1.00
17	20:12	1.00	1.079	1.00	50.00	50.00	0.504	0.504	1.00
18	20:10	1.00	1.077	1.00	50.00	50.00	1.216	1.216	1.00
19	20:16	1.00	1.083	1.00	50.00	50.00	0.282	0.282	1.00
20	17:00	1.00	0.908	1.00	50.00	50.00	1.133	1.133	1.00
21	20:47	1.00	1.111	1.00	50.00	50.00	0.119	0.119	1.00

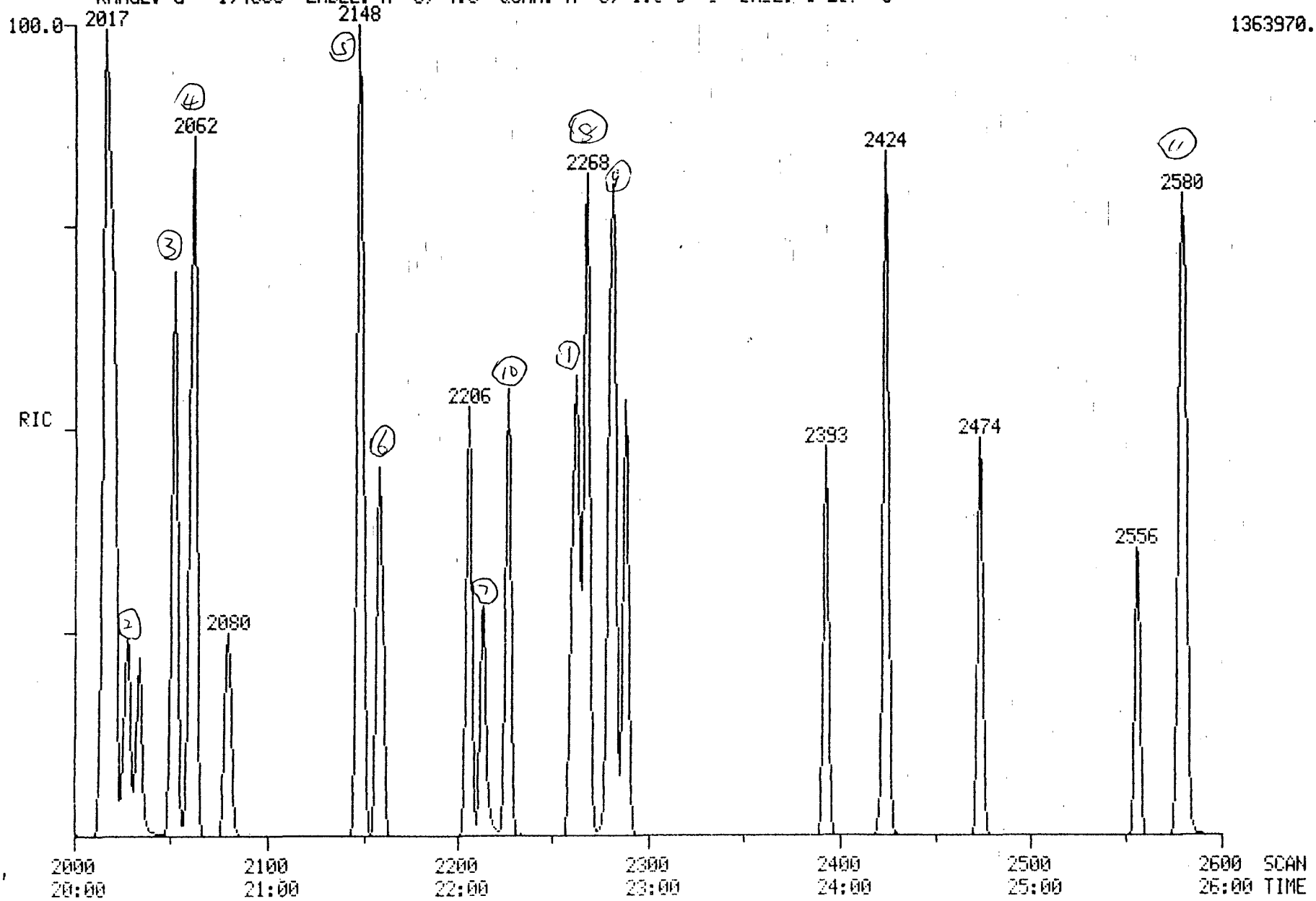
RIC
11/12/90 17:18:00
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501112 #1
CALI: HSD501112 #3

SCANS 2000 TO 2600

No	Name
1	C160 PHENANTHRENE D10
2	C610 4,6-DINITRO-2-METHYL PHENOL
3	C615 N-NITROSODIPHENYLAMINE
4	C617 AZOBENZENE
5	C625 4-BROMOPHENYL PHENYL ETHER
6	C630 HEXACHLOROBENZENE
7	C635 PENTACHLOROPHENOL
8	C640 PHENANTHRENE
9	C645 ANTHRACENE
10	C650 DI-N-BUTYL PHTHALATE
11	C655 FLUORANTHENE

INTERNAL STANDARD



000402

Quantitation Report File: HSD501112

000403

Data: HSD501112.TI
11/12/90 17:18:00
Sample: HSL-D STAND 11/12/90
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50110

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

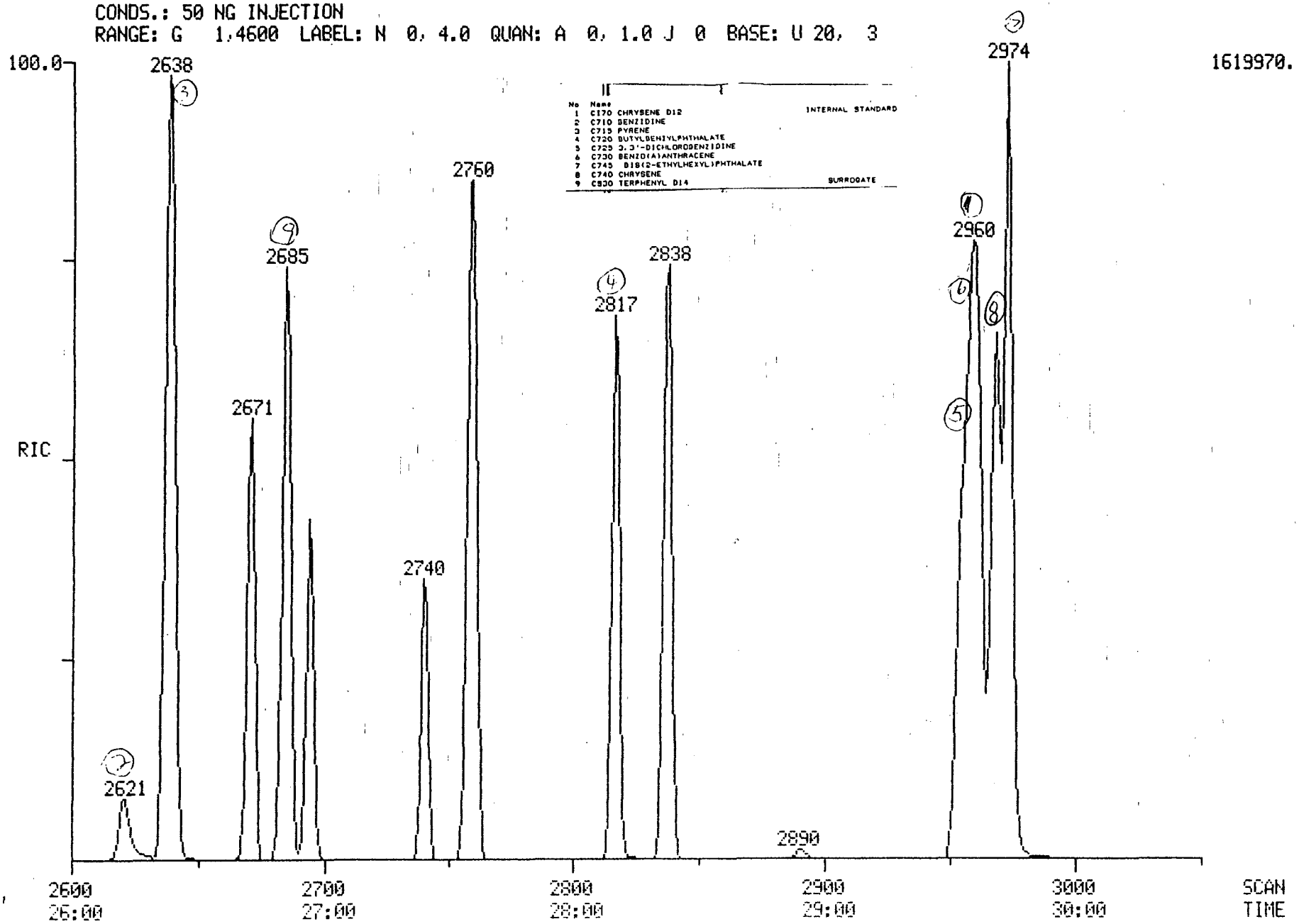
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2261	22:37	1	1.000	A BV	749760.	40.000 UG/ML	7.41
2	198	2034	20:20	1	0.900	A BB	167840.	50.000 UG/ML	9.26
3	169	2052	20:31	1	0.908	A BB	921392.	50.000 UG/ML	9.26
4	77	2062	20:37	1	0.912	A VB	1833680.	50.000 NG	9.26
5	248	2147	21:28	1	0.950	A BB	318672.	50.000 UG/ML	9.26
6	284	2159	21:35	1	0.955	A BB	328944.	50.000 UG/ML	9.26
7	266	2213	22:08	1	0.979	A BB	204518.	50.000 UG/ML	9.26
8	178	2268	22:41	1	1.003	A BV	1783490.	50.000 UG/ML	9.26
9	178	2281	22:49	1	1.009	A VB	1880460.	50.000 UG/ML	9.26
10	149	2424	24:14	1	1.072	A BB	2386690.	50.000 UG/ML	9.26
11	202	2580	25:48	1	1.141	A BB	1965670.	50.000 UG/ML	9.26

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20	1.00	0.900	1.00	50.00	50.00	0.179	0.179	1.00
3	20:31	1.00	0.908	1.00	50.00	50.00	0.983	0.983	1.00
4	20:37	1.00	0.912	1.00	50.00	50.00	1.957	1.957	1.00
5	21:28	1.00	0.950	1.00	50.00	50.00	0.340	0.340	1.00
6	21:35	1.00	0.955	1.00	50.00	50.00	0.351	0.351	1.00
7	22:08	1.00	0.979	1.00	50.00	50.00	0.218	0.218	1.00
8	22:41	1.00	1.003	1.00	50.00	50.00	1.903	1.903	1.00
9	22:49	1.00	1.009	1.00	50.00	50.00	2.006	2.006	1.00
10	24:14	1.00	1.072	1.00	50.00	50.00	2.547	2.547	1.00
11	25:48	1.00	1.141	1.00	50.00	50.00	2.097	2.097	1.00

RIC
11/12/90 17:18:00
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501112 #1
CALI: HSD501112 #3

SCANS 2600 TO 3050



000404

Quantitation Report File: HSD501112

Data: HSD501112.TI
11/12/90 17:18:00
Sample: HSL-D STAND 11/12/90
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50110

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

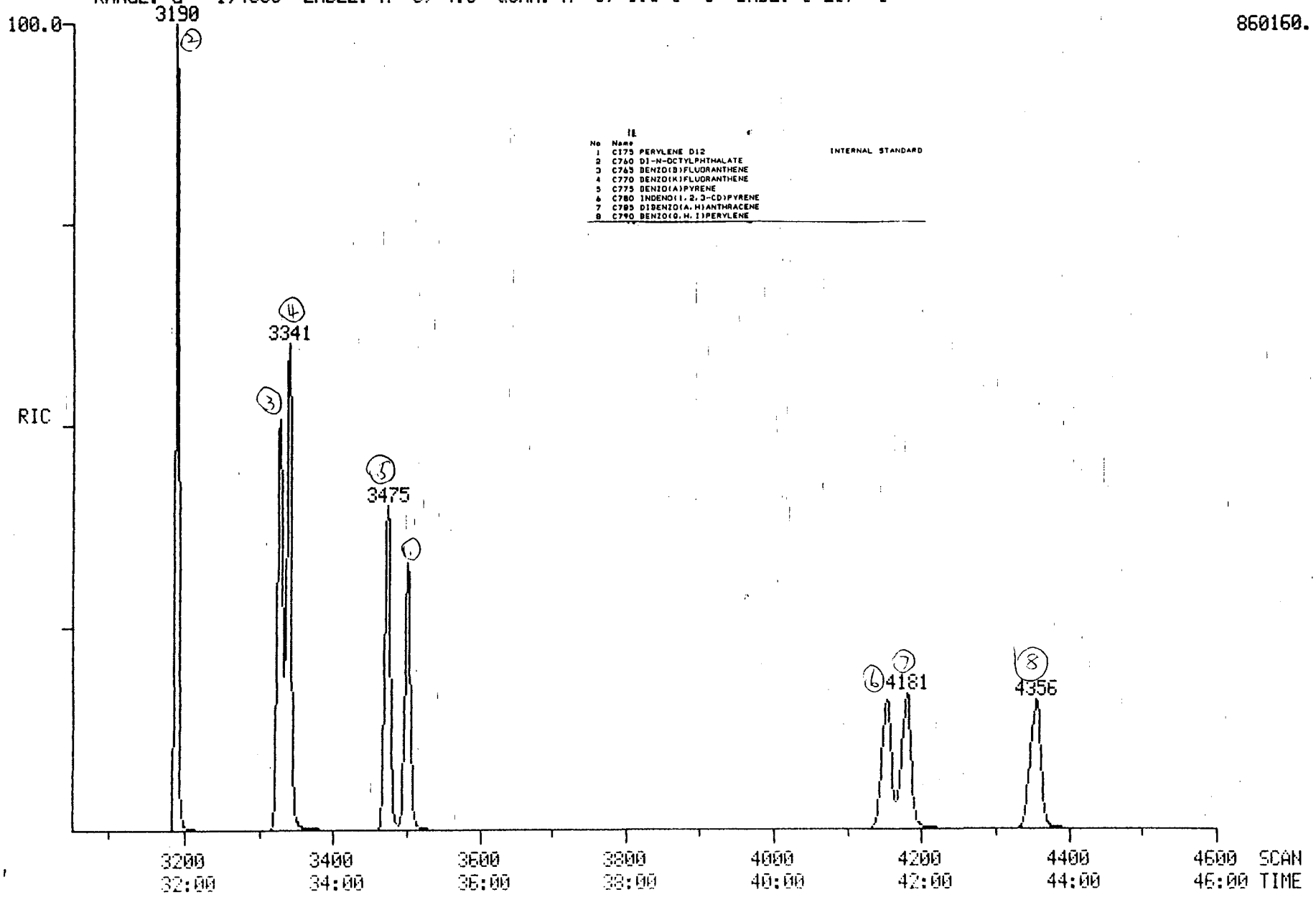
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2961	29:37	1	1.000	A BB	1397870.	40.000 UG/ML	9.09
2	184	2621	26:13	1	0.885	A BB	419435.	50.000 UG/ML	11.36
3	202	2639	26:23	1	0.891	A BB	2106820.	50.000 UG/ML	11.36
4	149	2817	28:10	1	0.951	A BB	1089920.	50.000 UG/ML	11.36
5	252	2954	29:32	1	0.998	A BB	483968.	50.000 UG/ML	11.36
6	228	2958	29:35	1	0.999	A BV	1883620.	50.000 UG/ML	11.36
7	149	2974	29:44	1	1.004	A BB	1864180.	50.000 UG/ML	11.36
8	228	2958	29:35	1	0.999	A BV	1883620.	50.000 UG/ML	11.36
9	244	2685	26:51	1	0.907	A BV	1650140.	50.000 UG/ML	11.36

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:13	1.00	0.885	1.00	50.00	50.00	0.240	0.240	1.00
3	26:23	1.00	0.891	1.00	50.00	50.00	1.206	1.206	1.00
4	28:10	1.00	0.951	1.00	50.00	50.00	0.624	0.624	1.00
5	29:32	1.00	0.998	1.00	50.00	50.00	0.277	0.277	1.00
6	29:35	1.00	0.999	1.00	50.00	50.00	1.078	1.078	1.00
7	29:44	1.00	1.004	1.00	50.00	50.00	1.067	1.067	1.00
8	29:35	1.00	0.999	1.00	50.00	50.00	1.078	1.078	1.00
9	26:51	1.00	0.907	1.00	50.00	50.00	0.944	0.944	1.00

RIC
11/12/90 17:18:00
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501112 #1
CALI: HSD501112 #3

SCANS 3050 TO 4600



IL

No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000406

Quantitation Report File: HSD501112

Data: HSD501112.TI
11/12/90 17:18:00
Sample: HSL-D STAND 11/12/90
Conds.: 50 NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50110

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3502	35:01	1	1.000	A BB	929381.	40.000 UG/ML	10.26
2	149	3190	31:54	1	0.911	A BB	2466010.	50.000 UG/ML	12.82
3	252	3329	33:17	1	0.951	A BV	1354750.	50.000 UG/ML	12.82
4	252	3341	33:25	1	0.954	A VB	1272500.	50.000 UG/ML	12.82
5	252	3475	34:45	1	0.992	A BB	1209360.	50.000 UG/NL	12.82
6	276	4154	41:32	1	1.186	A BB	650580.	50.000 UG/ML	12.82
7	278	4181	41:49	1	1.194	A BB	686848.	50.000 UG/ML	12.82
8	276	4356	43:34	1	1.244	A BB	652752.	50.000 UG/ML	12.82

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	35:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:54	1.00	0.911	1.00	50.00	50.00	2.123	2.123	1.00
3	33:17	1.00	0.951	1.00	50.00	50.00	1.166	1.166	1.00
4	33:25	1.00	0.954	1.00	50.00	50.00	1.095	1.095	1.00
5	34:45	1.00	0.992	1.00	50.00	50.00	1.041	1.041	1.00
6	41:32	1.00	1.186	1.00	50.00	50.00	0.560	0.560	1.00
7	41:49	1.00	1.194	1.00	50.00	50.00	0.591	0.591	1.00
8	43:34	1.00	1.244	1.00	50.00	50.00	0.562	0.562	1.00

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration date: 11/15/90 Time: 0935

Lab File ID: HSD501115A Init. Calib. Date(s): 11/13/90 11/13/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
N-Nitrosodimethylamine		1.019	1.066	-4.6	
Phenol	*	1.575	1.651	-4.8	*
bis(2-Chloroethyl)Ether		1.329	1.288	3.1	
2-Chlorophenol		1.361	1.413	-3.8	
1,3-Dichlorobenzene		1.426	1.487	-4.3	
1,4-Dichlorobenzene	*	1.421	1.491	-4.9	*
Benzyl Alcohol		0.750	0.803	-7.1	
1,2-Dichlorobenzene		1.267	1.331	-5.1	
2-Methylphenol		1.202	1.239	-3.1	
bis(2-Chloroisopropyl)Ether		0.086	0.082	4.7	
4-Methylphenol		0.978	1.046	-7.0	
N-Nitroso-Di-n-Propylamine	#	1.062	1.016	4.3	#
Hexachloroethane		0.620	0.651	-5.0	
Nitrobenzene		0.384	0.411	-7.0	
Isophorone		0.693	0.772	-11.4	
2-Nitrophenol	*	0.149	0.170	-14.1	*
2,4-Dimethylphenol		0.272	0.279	-2.6	
Benzoic Acid		0.146	0.204	-39.7	
bis(2-Chloroethoxy)Methane		0.379	0.387	-2.1	
2,4-Dichlorophenol	*	0.271	0.307	-13.3	*
1,2,4-Trichlorobenzene		0.314	0.344	-9.6	
Naphthalene		0.863	0.936	-8.5	
4-Chloroaniline		0.371	0.413	-11.3	
Hexachlorobutadiene	*	0.186	0.198	-6.5	*
4-Chloro-3-Methylphenol	*	0.283	0.325	-14.8	*
2-Methylnaphthalene		0.539	0.575	-6.7	
Hexachlorocyclopentadiene	#	0.230	0.247	-7.4	#
2,4,6-Trichlorophenol	*	0.352	0.384	-9.1	*
2,4,5-Trichlorophenol		0.390	0.448	-14.9	
2-Chloronaphthalene		1.062	1.125	-5.9	
2-Nitroaniline		0.391	0.421	-7.7	
Dimethyl Phthalate		1.297	1.325	-2.2	
Acenaphthylene		1.566	1.645	-5.0	
2,6-Dinitrotoluene		0.314	0.336	-7.0	
3-Nitroaniline		0.320	0.369	-15.3	
Acenaphthene	*	0.984	1.001	-1.7	*
2,4-Dinitrophenol	#	0.117	0.115	1.7	#
4-Nitrophenol	#	0.132	0.142	-7.6	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration date: 11/15/90 Time: 0935

Lab File ID: HSD501115A Init. Calib. Date(s): 11/13/90 11/13/90

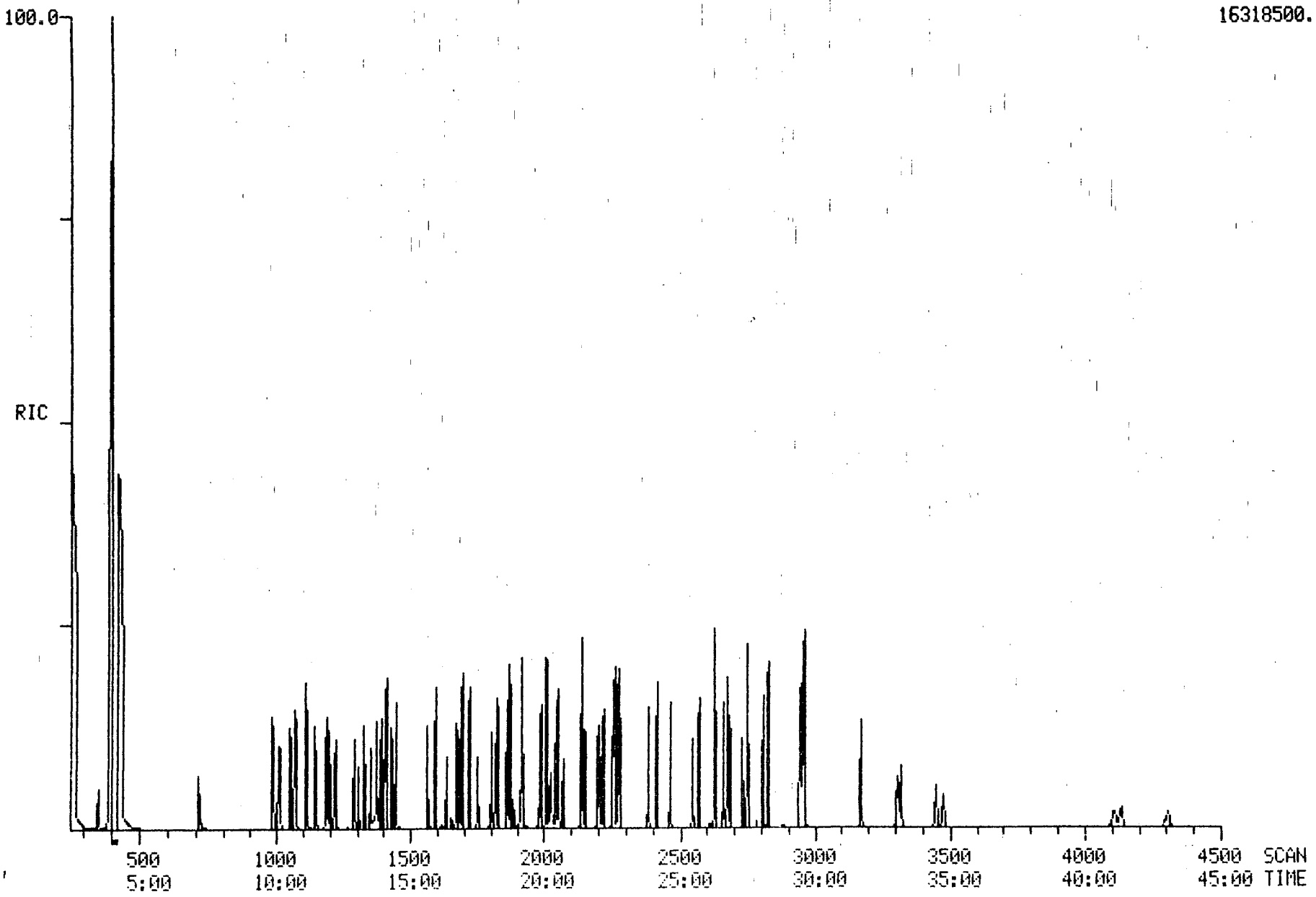
Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dibenzofuran		1.404	1.486	-5.8	
2,4-Dinitrotoluene		0.392	0.457	-16.6	
Diethylphthalate		1.294	1.362	-5.3	
4-Chlorophenyl-phenylether		0.496	0.525	-5.8	
Fluorene		1.138	1.206	-6.0	
4-Nitroaniline		0.260	0.262	-0.8	
4,6-Dinitro-2-Methylphenol		0.201	0.203	-1.0	
N-Nitrosodiphenylamine (1)	*	0.905	0.968	-7.0	*
Azobenzene (2)		1.519	1.706	-12.3	
4-Bromophenyl-phenylether		0.326	0.369	-13.2	
Hexachlorobenzene		0.391	0.411	-5.1	
Pentachlorophenol	*	0.239	0.252	-5.4	*
Phenanthrene		1.728	1.948	-12.7	
Anthracene		1.732	1.948	-12.5	
Di-n-Butylphthalate		2.044	2.225	-8.9	
Fluoranthene	*	1.555	1.654	-6.4	*
Benzidine		0.096	0.055	42.7	
Pyrene		1.300	1.275	1.9	
Butylbenzylphthalate		0.644	0.668	-3.7	
3,3'-Dichlorobenzidine		0.244	0.288	-18.0	
Benzo(a)Anthracene		1.072	1.145	-6.8	
Chrysene		0.815	1.145	-40.5	
bis(2-Ethylhexyl)Phthalate		0.964	1.120	-16.2	
Di-n-Octyl Phthalate	*	2.246	2.514	-11.9	*
Benzo(b)Fluoranthene		1.224	1.266	-3.4	
Benzo(k)Fluoranthene		1.141	1.187	-4.0	
Benzo(a)Pyrene	*	1.069	1.001	6.4	*
Indeno(1,2,3-cd)Pyrene		0.551	0.542	1.6	
Dibenz(a,h)Anthracene		0.650	0.597	8.2	
Benzo(g,h,i)Perylene		0.554	0.516	6.9	
Nitrobenzene-d5		0.418	0.474	-13.4	
2-Fluorobiphenyl		1.151	1.261	-9.6	
Terphenyl-d14		1.018	1.054	-3.5	
Phenol-d5		1.281	1.342	-4.8	
2-Fluorophenol		1.063	1.104	-3.9	
2,4,6-Tribromophenol		0.179	0.171	4.5	

(1) Cannot be separated from Diphenylamine

RIC
11/15/90 9:35:00
SAMPLE: HSL-D STANDARD 11/15/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501115A #1 SCANS 250 TO 4500
CALI: CALTAB #3

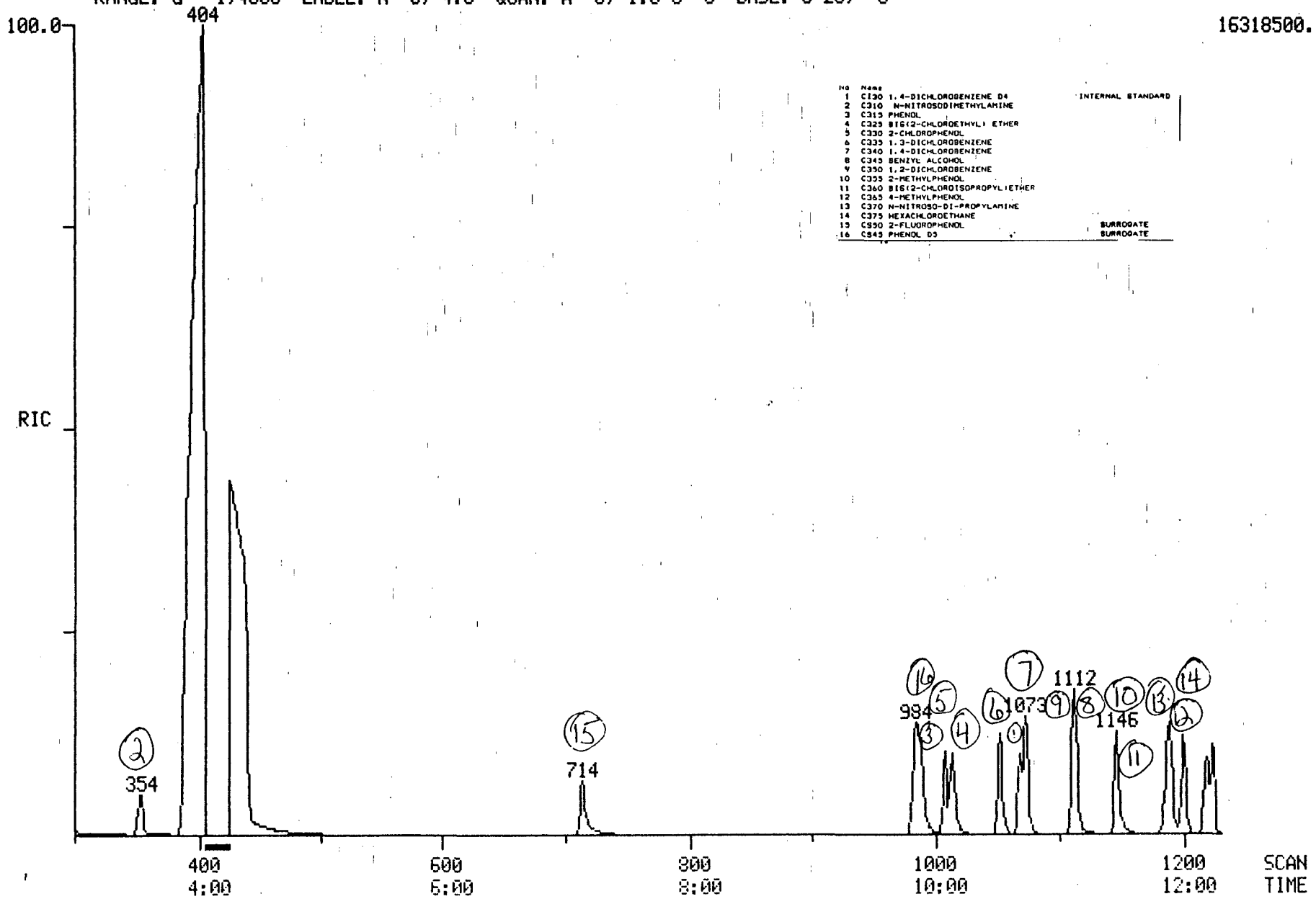


000440

RIC
11/15/90 9:35:00
SAMPLE: HSL-D STANDARD 11/15/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501115A #1
CALI: HSD501115A #3

SCANS 300 TO 1230



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C950 2-FLUOROPHENOL	SURROGATE
16	C545 PHENOL D5	SURROGATE

000411

Quantitation Report File: HSD501115A

000412

Data: HSD501115A.TI
11/15/90 9:35:00
Sample: HSL-D STANDARD 11/15/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

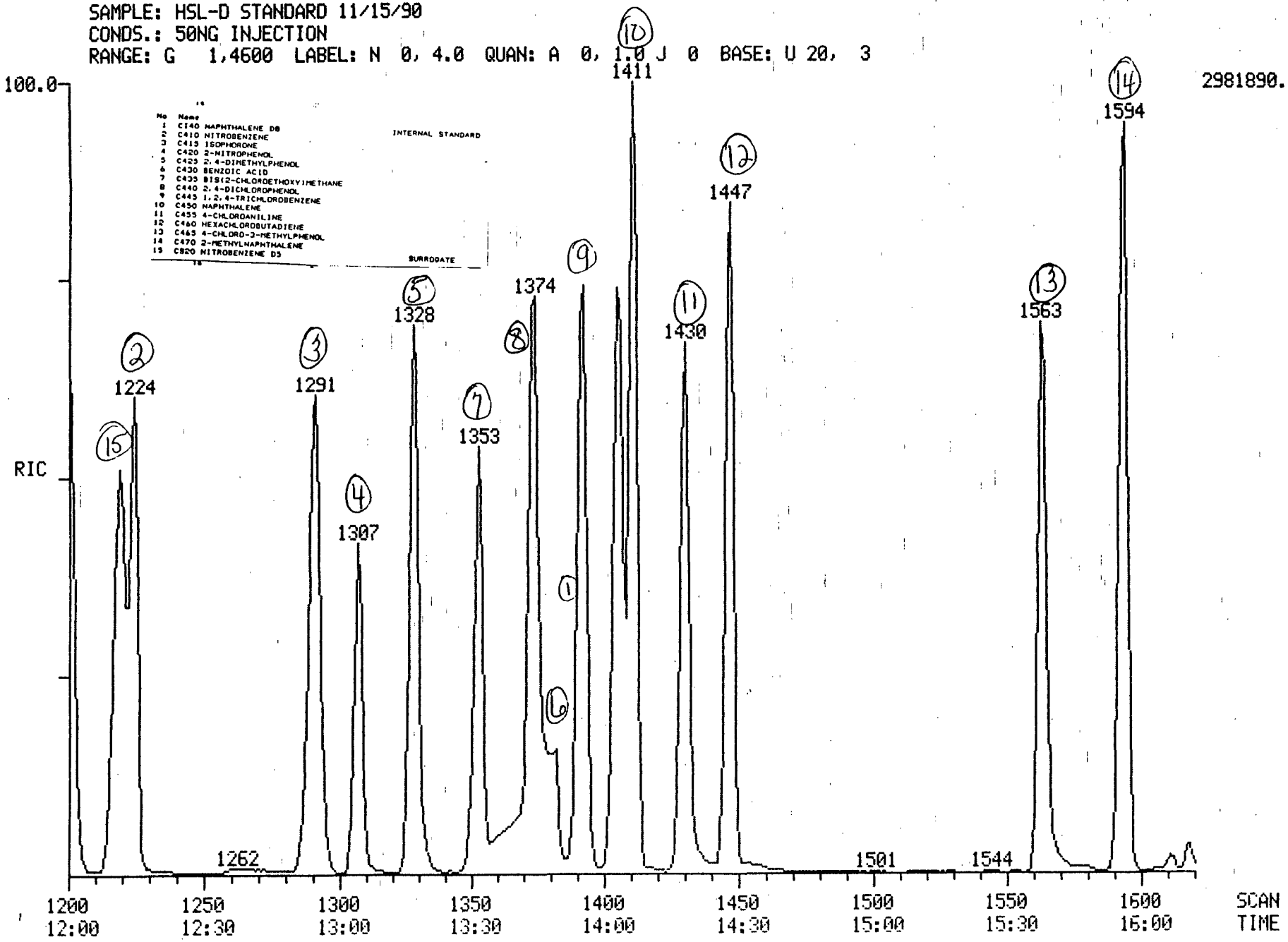
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	1068	10:41	1	1.000	A BB	1205330.	40.000	UG/ML	5.06
2	74	354	3:32	1	0.331	A BB	1606380.	50.000	UG	6.33
3	94	988	9:53	1	0.925	A BB	2487910.	50.000	UG/ML	6.33
4	93	1008	10:05	1	0.944	A BB	1939850.	50.000	UG/ML	6.33
5	128	1013	10:08	1	0.949	A BB	2129580.	50.000	UG/ML	6.33
6	146	1052	10:31	1	0.985	A BB	2239960.	50.000	UG/ML	6.33
7	146	1073	10:44	1	1.005	A BB	2246880.	50.000	UG/ML	6.33
8	108	1114	11:08	1	1.043	A BB	1209660.	50.000	UG/ML	6.33
9	146	1111	11:07	1	1.040	A BB	2005720.	50.000	UG/ML	6.33
10	108	1146	11:28	1	1.073	A BB	1866430.	50.000	UG/ML	6.33
11	45	1151	11:31	1	1.078	A*BB	123910.	50.000	UG/ML	6.33
12	108	1190	11:54	1	1.114	A BB	1576230.	50.000	UG/ML	6.33
13	70	1188	11:53	1	1.112	A BV	1531160.	50.000	UG/ML	6.33
14	117	1200	12:00	1	1.124	A BB	981392.	50.000	UG/ML	6.33
15	112	714	7:08	1	0.669	A BB	1663310.	50.000	UG/L	6.33
16	99	985	9:51	1	0.922	A BB	2021680.	50.000	UG/ML	6.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:32	1.00	0.331	1.00	50.00	50.00	1.066	1.066	1.00
3	9:53	1.00	0.925	1.00	50.00	50.00	1.651	1.651	1.00
4	10:05	1.00	0.944	1.00	50.00	50.00	1.288	1.288	1.00
5	10:08	1.00	0.949	1.00	50.00	50.00	1.413	1.413	1.00
6	10:31	1.00	0.985	1.00	50.00	50.00	1.487	1.487	1.00
7	10:44	1.00	1.005	1.00	50.00	50.00	1.491	1.491	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:08	1.00	1.043	1.00	50.00	50.00	0.803	0.803	1.00
9	11:07	1.00	1.040	1.00	50.00	50.00	1.331	1.331	1.00
10	11:28	1.00	1.073	1.00	50.00	50.00	1.239	1.239	1.00
11	11:31	1.00	1.078	1.00	50.00	50.00	0.082	0.082	1.00
12	11:54	1.00	1.114	1.00	50.00	50.00	1.046	1.046	1.00
13	11:53	1.00	1.112	1.00	50.00	50.00	1.016	1.016	1.00
14	12:00	1.00	1.124	1.00	50.00	50.00	0.651	0.651	1.00
15	7:08	1.00	0.669	1.00	50.00	50.00	1.104	1.104	1.00
16	9:51	1.00	0.922	1.00	50.00	50.00	1.342	1.342	1.00

RIC
11/15/90 9:35:00
SAMPLE: HSL-D STANDARD 11/15/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501115A #1 SCANS 1200 TO 1620
CALI: HSD501115A #3



000414

Quantitation Report File: HSD501115A

Data: HSD501115A.TI
11/15/90 9:35:00
Sample: HSL-D STANDARD 11/15/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1405	14:03	1	1.000	A BB	4262830.	40.000 UG/ML	5.41
2	77	1224	12:14	1	0.871	A BB	2190180.	50.000 UG/ML	6.76
3	82	1291	12:55	1	0.919	A BV	4111570.	50.000 UG/ML	6.76
4	139	1307	13:04	1	0.930	A BB	908490.	50.000 UG/ML	6.76
5	122	1328	13:17	1	0.945	A BB	1488540.	50.000 UG/ML	6.76
6	122	1382	13:49	1	0.984	A BB	1086800.	50.000 UG/ML	6.76
7	93	1353	13:32	1	0.963	A BB	2060900.	50.000 UG/ML	6.76
8	162	1373	13:44	1	0.977	A BB	1635670.	50.000 UG/ML	6.76
9	180	1392	13:55	1	0.991	A BB	1834400.	50.000 UG/ML	6.76
10	128	1411	14:07	1	1.004	A BB	4985310.	50.000 UG/ML	6.76
11	127	1430	14:18	1	1.018	A BB	2200340.	50.000 UG/ML	6.76
12	225	1447	14:28	1	1.030	A BB	1053540.	50.000 UG/ML	6.76
13	107	1563	15:38	1	1.112	A BB	1731980.	50.000 UG/ML	6.76
14	142	1594	15:56	1	1.135	A BB	3064470.	50.000 UG/ML	6.76
15	82	1219	12:11	1	0.868	A BB	2524080.	50.000 UG/ML	6.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:14	1.00	0.871	1.00	50.00	50.00	0.411	0.411	1.00
3	12:55	1.00	0.919	1.00	50.00	50.00	0.772	0.772	1.00
4	13:04	1.00	0.930	1.00	50.00	50.00	0.170	0.170	1.00
5	13:17	1.00	0.945	1.00	50.00	50.00	0.279	0.279	1.00
6	13:49	1.00	0.984	1.00	50.00	50.00	0.204	0.204	1.00
7	13:32	1.00	0.963	1.00	50.00	50.00	0.387	0.387	1.00
8	13:44	1.00	0.977	1.00	50.00	50.00	0.307	0.307	1.00
9	13:55	1.00	0.991	1.00	50.00	50.00	0.344	0.344	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:07	1.00	1.004	1.00	50.00	50.00	0.936	0.936	1.00
11	14:18	1.00	1.018	1.00	50.00	50.00	0.413	0.413	1.00
12	14:28	1.00	1.030	1.00	50.00	50.00	0.198	0.198	1.00
13	15:38	1.00	1.112	1.00	50.00	50.00	0.325	0.325	1.00
14	15:56	1.00	1.135	1.00	50.00	50.00	0.575	0.575	1.00
15	12:11	1.00	0.868	1.00	50.00	50.00	0.474	0.474	1.00

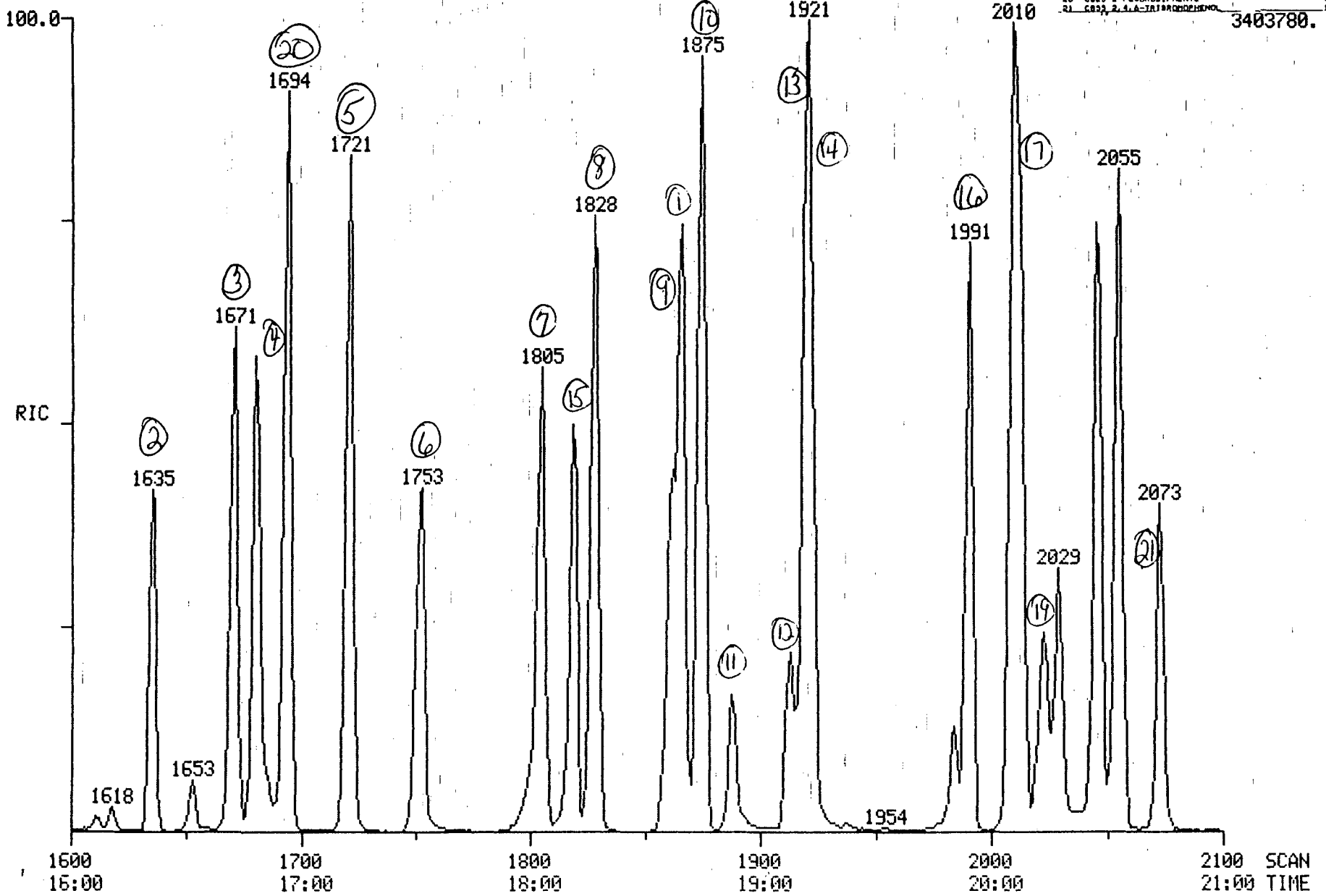
RIC
11/15/90 9:35:00
SAMPLE: HSL-D STANDARD 11/15/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501115A #1
CALI: HSD501115A #3

SCANS 1600 TO 2100

No	RT		
1	C530	ACENAPHTHENE D8	INTERNAL STANDA
2	C510	HEXACHLOROCYCLOPENTADIENE	
3	C515	2,4,6-TRICHLOROPHENOL	
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	
11	C555	2,4-DINITROPHENOL	
12	C560	4-NITROPHENOL	
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYL PHTHALATE	
17	C585	4-CHLOROPHENYL PHENYL ETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	C825	2-FLUOROBIPHENYL	SURROGATE
21	C833	2,4,6-TRIBROMOPHENOL	SURROGATE

3403780.



000417

Quantitation Report File: HSD501115A

000418

Data: HSD501115A.TI
11/15/90 9:35:00
Sample: HSL-D STANDARD 11/15/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

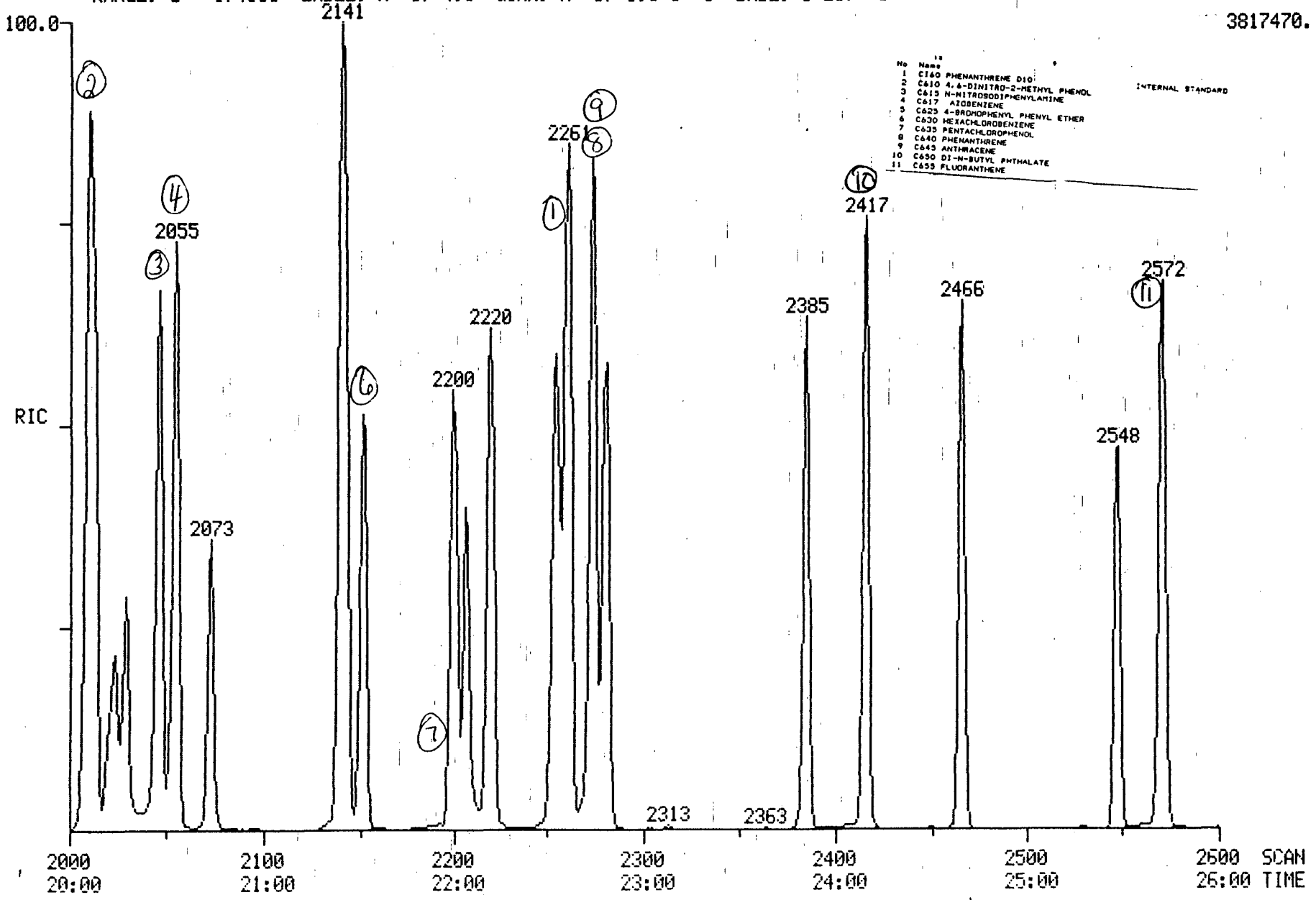
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1866	18:40	1	1.000	A BB	2340140.	40.000 UG/ML	3.85
2	237	1635	16:21	1	0.876	A BB	721696.	50.000 UG/ML	4.81
3	196	1671	16:43	1	0.895	A BV	1123610.	50.000 UG/ML	4.81
4	196	1680	16:48	1	0.900	A VB	1311490.	50.000 UG/ML	4.81
5	162	1721	17:13	1	0.922	A BB	3289390.	50.000 UG/ML	4.81
6	65	1753	17:32	1	0.939	A BB	1231480.	50.000 UG/ML	4.81
7	163	1805	18:03	1	0.967	A BB	3875800.	50.000 UG/ML	4.81
8	152	1828	18:17	1	0.980	A BB	4810820.	50.000 UG/ML	4.81
9	138	1861	18:37	1	0.997	A BB	1079520.	50.000 UG/ML	4.81
10	154	1875	18:45	1	1.005	A BB	2926700.	50.000 UG/ML	4.81
11	184	1888	18:53	1	1.012	A BB	337557.	50.000 UG/ML	4.81
12	109	1913	19:08	1	1.025	A BB	416155.	50.000 UG/ML	4.81
13	168	1920	19:12	1	1.029	A BB	4346980.	50.000 UG/ML	4.81
14	165	1923	19:14	1	1.031	A BB	1337630.	50.000 UG/ML	4.81
15	165	1819	18:11	1	0.975	A VB	983359.	50.000 UG/ML	4.81
16	149	1991	19:55	1	1.067	A BB	3984050.	50.000 UG/ML	4.81
17	204	2013	20:08	1	1.079	A BB	1536300.	50.000 UG/ML	4.81
18	166	2010	20:06	1	1.077	A BB	3529140.	50.000 UG/ML	4.81
19	138	2023	20:14	1	1.084	A VB	767008.	50.000 UG/ML	4.81
20	172	1694	16:56	1	0.908	A BB	3688900.	50.000 UG/ML	4.81
21	330	2072	20:43	1	1.110	A BB	500832.	50.000 UG/ML	4.81

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:21	1.00	0.876	1.00	50.00	50.00	0.247	0.247	1.00
3	16:43	1.00	0.895	1.00	50.00	50.00	0.384	0.384	1.00
4	16:48	1.00	0.900	1.00	50.00	50.00	0.448	0.448	1.00
5	17:13	1.00	0.922	1.00	50.00	50.00	1.125	1.125	1.00
6	17:32	1.00	0.939	1.00	50.00	50.00	0.421	0.421	1.00
7	18:03	1.00	0.967	1.00	50.00	50.00	1.325	1.325	1.00
8	18:17	1.00	0.980	1.00	50.00	50.00	1.645	1.645	1.00
9	18:37	1.00	0.997	1.00	50.00	50.00	0.369	0.369	1.00
10	18:45	1.00	1.005	1.00	50.00	50.00	1.001	1.001	1.00
11	18:53	1.00	1.012	1.00	50.00	50.00	0.115	0.115	1.00
12	19:08	1.00	1.025	1.00	50.00	50.00	0.142	0.142	1.00
13	19:12	1.00	1.029	1.00	50.00	50.00	1.486	1.486	1.00
14	19:14	1.00	1.031	1.00	50.00	50.00	0.457	0.457	1.00
15	18:11	1.00	0.975	1.00	50.00	50.00	0.336	0.336	1.00
16	19:55	1.00	1.067	1.00	50.00	50.00	1.362	1.362	1.00
17	20:08	1.00	1.079	1.00	50.00	50.00	0.525	0.525	1.00
18	20:06	1.00	1.077	1.00	50.00	50.00	1.206	1.206	1.00
19	20:14	1.00	1.084	1.00	50.00	50.00	0.262	0.262	1.00
20	16:56	1.00	0.908	1.00	50.00	50.00	1.261	1.261	1.00
21	20:43	1.00	1.110	1.00	50.00	50.00	0.171	0.171	1.00

RIC
11/15/90 9:35:00
SAMPLE: HSL-D STANDARD 11/15/90
CONDS.: 50NG INJECTION (5)
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501115A #1
CALI: HSD501115A #3

SCANS 2000 TO 2600



No	Name	
1	C140 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000420

Quantitation Report File: HSD501115A

Data: HSD501115A.TI
11/15/90 9:35:00
Sample: HSL-D STANDARD 11/15/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

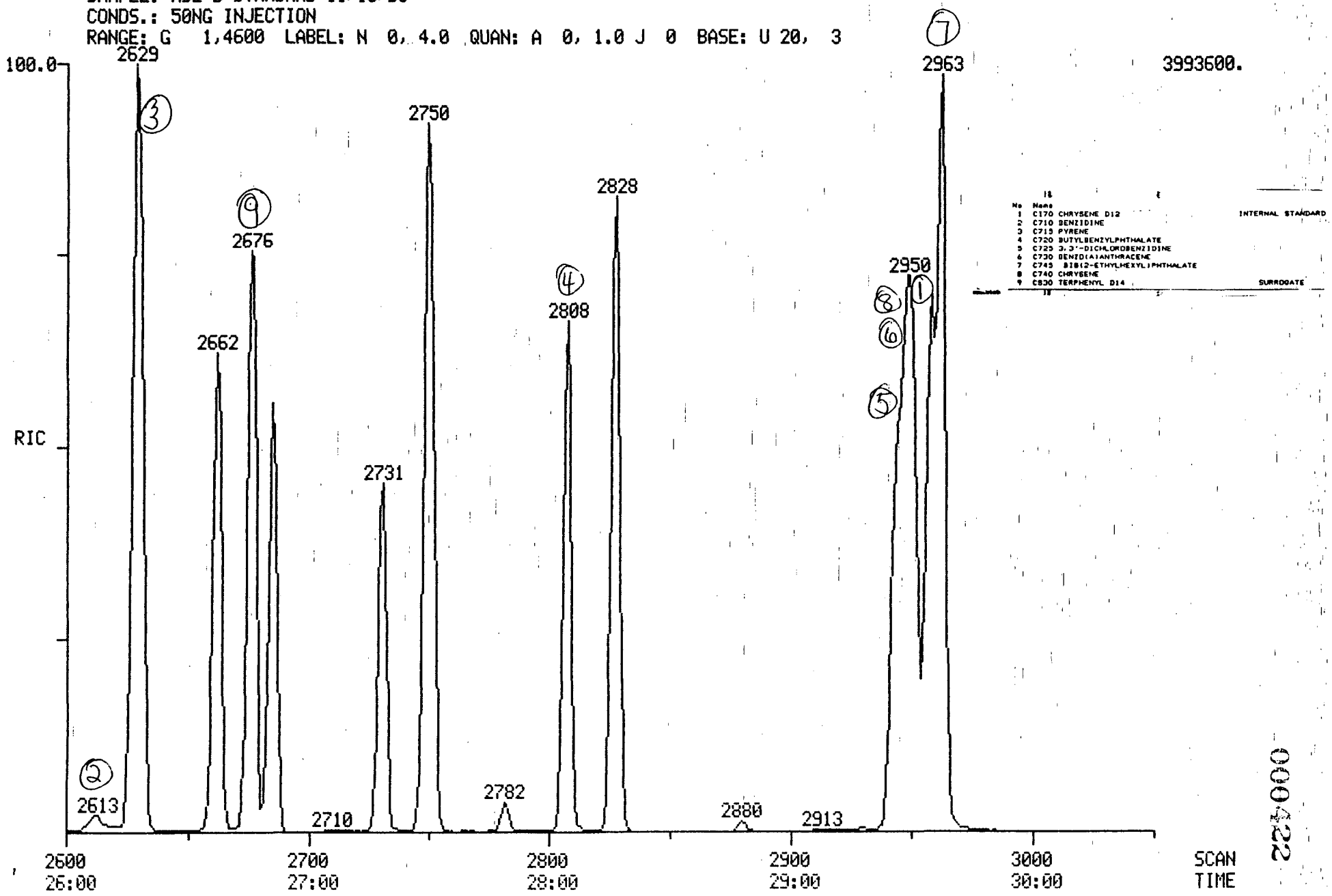
No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2254	22:32	1	1.000	A BB	2165200.	40.000 UG/ML	7.41
2	198	2029	20:17	1	0.900	A BB	548116.	50.000 UG/ML	9.26
3	169	2046	20:28	1	0.908	A BB	2620610.	50.000 UG/ML	9.26
4	77	2055	20:33	1	0.912	A VB	4618200.	50.000 NG	9.26
5	248	2141	21:25	1	0.950	A BV	997936.	50.000 UG/ML	9.26
6	284	2152	21:31	1	0.955	A BB	1112580.	50.000 UG/ML	9.26
7	266	2206	22:04	1	0.979	A BB	680802.	50.000 UG/ML	9.26
8	178	2274	22:44	1	1.009	A VB	5270990.	50.000 UG/ML	9.26
9	178	2274	22:44	1	1.009	A VB	5270990.	50.000 UG/ML	9.26
10	149	2417	24:10	1	1.072	A BB	6022910.	50.000 UG/ML	9.26
11	202	2571	25:43	1	1.141	A BB	4477750.	50.000 UG/ML	9.26

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:17	1.00	0.900	1.00	50.00	50.00	0.203	0.203	1.00
3	20:28	1.00	0.908	1.00	50.00	50.00	0.968	0.968	1.00
4	20:33	1.00	0.912	1.00	50.00	50.00	1.706	1.706	1.00
5	21:25	1.00	0.950	1.00	50.00	50.00	0.369	0.369	1.00
6	21:31	1.00	0.955	1.00	50.00	50.00	0.411	0.411	1.00
7	22:04	1.00	0.979	1.00	50.00	50.00	0.252	0.252	1.00
8	22:44	1.00	1.009	1.00	50.00	50.00	1.948	1.948	1.00
9	22:44	1.00	1.009	1.00	50.00	50.00	1.948	1.948	1.00
10	24:10	1.00	1.072	1.00	50.00	50.00	2.225	2.225	1.00
11	25:43	1.00	1.141	1.00	50.00	50.00	1.654	1.654	1.00

RIC
11/15/90 9:35:00
SAMPLE: HSL-D STANDARD 11/15/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501115A #1 SCANS 2600 TO 3050
CALI: HSD501115A #3



000422

Quantitation Report File: HSD501115A

Data: HSD501115A.TI
11/15/90 9:35:00
Sample: HSL-D STANDARD 11/15/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

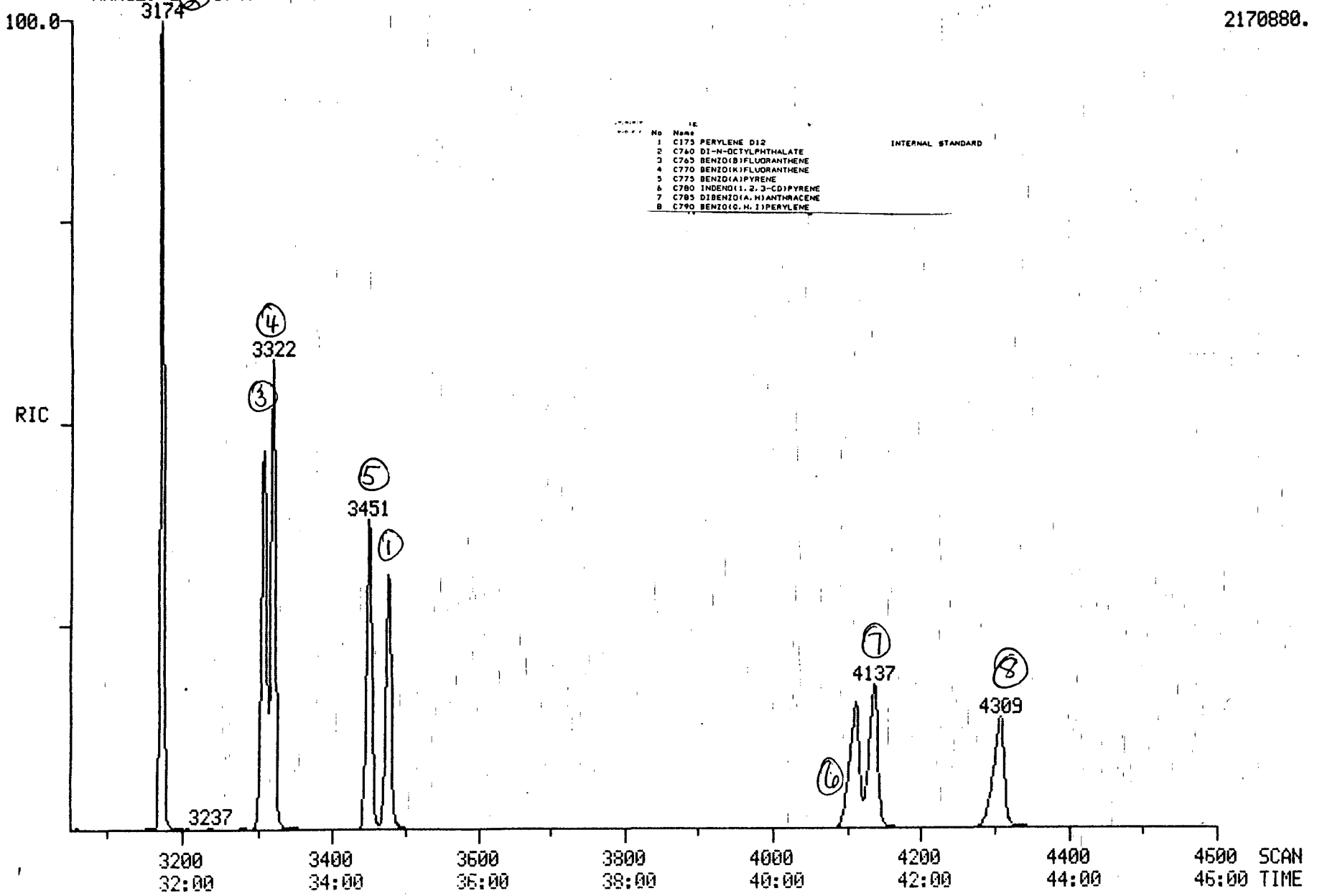
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2951	29:31	1	1.000	A BB	2951140.	40.000 UG/ML	9.09
2	184	2613	26:08	1	0.885	A BV	203090.	50.000 UG/ML	11.36
3	202	2630	26:18	1	0.891	A BB	4704610.	50.000 UG/ML	11.36
4	149	2808	28:05	1	0.952	A BB	2464570.	50.000 UG/ML	11.36
5	252	2943	29:26	1	0.997	A BB	1063270.	50.000 UG/ML	11.36
6	228	2948	29:29	1	0.999	A BV	4225420.	50.000 UG/ML	11.36
7	149	2963	29:38	1	1.004	A VB	4133190.	50.000 UG/ML	11.36
8	228	2948	29:29	1	0.999	A BV	4225420.	50.000 UG/ML	11.36
9	244	2676	26:46	1	0.907	A VV	3888630.	50.000 UG/ML	11.36

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:31	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:08	1.00	0.885	1.00	50.00	50.00	0.055	0.055	1.00
3	26:18	1.00	0.891	1.00	50.00	50.00	1.275	1.275	1.00
4	28:05	1.00	0.952	1.00	50.00	50.00	0.668	0.668	1.00
5	29:26	1.00	0.997	1.00	50.00	50.00	0.288	0.288	1.00
6	29:29	1.00	0.999	1.00	50.00	50.00	1.145	1.145	1.00
7	29:38	1.00	1.004	1.00	50.00	50.00	1.120	1.120	1.00
8	29:29	1.00	0.999	1.00	50.00	50.00	1.145	1.145	1.00
9	26:46	1.00	0.907	1.00	50.00	50.00	1.054	1.054	1.00

RIC
11/15/90 9:35:00
SAMPLE: HSL-D STANDARD 11/15/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501115A #1 SCANS 3050 TO 4600
CALI: HSD501115A #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000424

Quantitation Report File: HSD501115A

Data: HSD501115A.TI
11/15/90 9:35:00
Sample: HSL-D STANDARD 11/15/90
Conds.: SONG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3477	34:46	1	1.000	A BB	1680860.	40.000 UG/ML	10.26
2	149	3174	31:44	1	0.913	A BB	5281240.	50.000 UG/ML	12.82
3	252	3309	33:05	1	0.952	A BV	2659870.	50.000 UG/ML	12.82
4	252	3322	33:13	1	0.955	A VB	2493230.	50.000 UG/ML	12.82
5	252	3451	34:31	1	0.993	A BB	2103730.	50.000 UG/NL	12.82
6	276	4112	41:07	1	1.183	A BB	1138460.	50.000 UG/ML	12.82
7	278	4137	41:22	1	1.190	A BB	1255220.	50.000 UG/ML	12.82
8	276	4308	43:05	1	1.239	A BB	1083220.	50.000 UG/ML	12.82

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:44	1.00	0.913	1.00	50.00	50.00	2.514	2.514	1.00
3	33:05	1.00	0.952	1.00	50.00	50.00	1.266	1.266	1.00
4	33:13	1.00	0.955	1.00	50.00	50.00	1.187	1.187	1.00
5	34:31	1.00	0.993	1.00	50.00	50.00	1.001	1.001	1.00
6	41:07	1.00	1.183	1.00	50.00	50.00	0.542	0.542	1.00
7	41:22	1.00	1.190	1.00	50.00	50.00	0.597	0.597	1.00
8	43:05	1.00	1.239	1.00	50.00	50.00	0.516	0.516	1.00

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration date: 11/16/90 Time: 1118

Lab File ID: HSD501116A Init. Calib. Date(s): 11/13/90 11/13/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
N-Nitrosodimethylamine		1.019	1.111	-9.0	
Phenol	*	1.575	1.662	-5.5	*
bis(2-Chloroethyl)Ether		1.329	1.349	-1.5	
2-Chlorophenol		1.361	1.493	-9.7	
1,3-Dichlorobenzene		1.426	1.529	-7.2	
1,4-Dichlorobenzene	*	1.421	1.544	-8.7	*
Benzyl Alcohol		0.750	0.834	-11.2	
1,2-Dichlorobenzene		1.267	1.412	-11.4	
2-Methylphenol		1.202	1.254	-4.3	
bis(2-Chloroisopropyl)Ether		0.086	0.080	7.0	
4-Methylphenol		0.978	1.093	-11.8	
N-Nitroso-Di-n-Propylamine	#	1.062	1.053	0.8	#
Hexachloroethane		0.620	0.682	-10.0	
Nitrobenzene		0.384	0.389	-1.3	
Isophorone		0.693	0.730	-5.3	
2-Nitrophenol	*	0.149	0.167	-12.1	*
2,4-Dimethylphenol		0.272	0.268	1.5	
Benzoic Acid		0.146	0.114	21.9	
bis(2-Chloroethoxy)Methane		0.379	0.372	1.8	
2,4-Dichlorophenol	*	0.271	0.300	-10.7	*
1,2,4-Trichlorobenzene		0.314	0.327	-4.1	
Naphthalene		0.863	0.879	-1.9	
4-Chloroaniline		0.371	0.374	-0.8	
Hexachlorobutadiene	*	0.186	0.188	-1.1	*
4-Chloro-3-Methylphenol	*	0.283	0.311	-9.9	*
2-Methylnaphthalene		0.539	0.564	-4.6	
Hexachlorocyclopentadiene	#	0.230	0.275	-19.6	#
2,4,6-Trichlorophenol	*	0.352	0.401	-13.9	*
2,4,5-Trichlorophenol		0.390	0.475	-21.8	
2-Chloronaphthalene		1.062	1.232	-16.0	
2-Nitroaniline		0.391	0.420	-7.4	
Dimethyl Phthalate		1.297	1.251	3.5	
Acenaphthylene		1.566	1.651	-5.4	
2,6-Dinitrotoluene		0.314	0.296	5.7	
3-Nitroaniline		0.320	0.327	-2.2	
Acenaphthene	*	0.984	1.030	-4.7	*
2,4-Dinitrophenol	#	0.117	0.095	18.8	#
4-Nitrophenol	#	0.132	0.116	12.1	#

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Instrument ID: FINN Calibration date: 11/16/90 Time: 1118

Lab File ID: HSD501116A Init. Calib. Date(s): 11/13/90 11/13/90

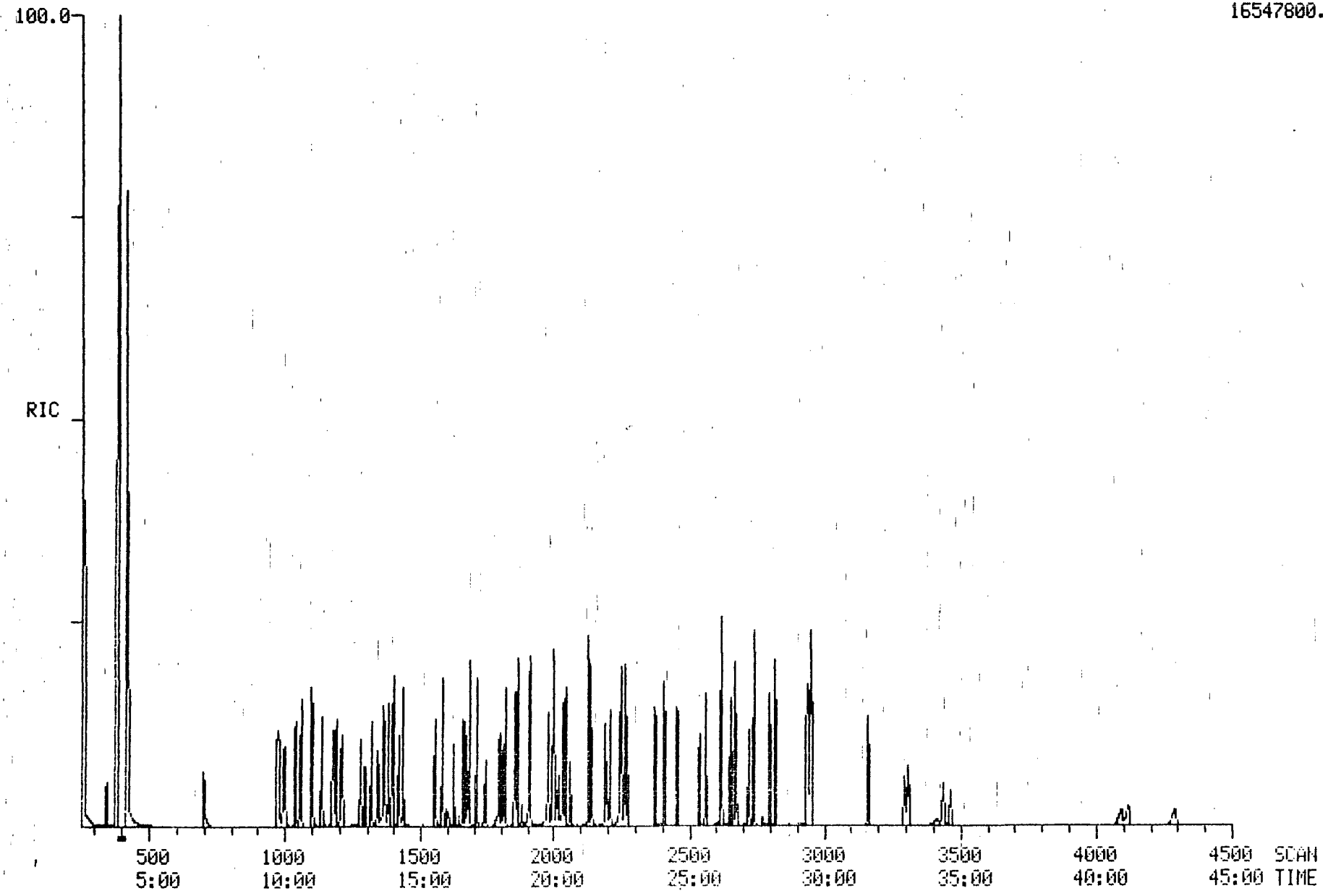
Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dibenzofuran		1.404	1.530	-9.0	
2,4-Dinitrotoluene		0.392	0.402	-2.6	
Diethylphthalate		1.294	1.261	2.6	
4-Chlorophenyl-phenylether		0.496	0.517	-4.2	
Fluorene		1.138	1.180	-3.7	
4-Nitroaniline		0.260	0.207	20.4	
4,6-Dinitro-2-Methylphenol		0.201	0.189	6.0	
N-Nitrosodiphenylamine (1)	*	0.905	1.010	-11.6	*
Azobenzene (2)		1.519	1.801	-18.6	
4-Bromophenyl-phenylether		0.326	0.420	-28.8	
Hexachlorobenzene		0.391	0.435	-11.2	
Pentachlorophenol	*	0.239	0.214	10.5	*
Phenanthrene		1.728	1.881	-8.9	
Anthracene		1.732	1.971	-13.8	
Di-n-Butylphthalate		2.044	2.287	-11.9	
Fluoranthene	*	1.555	1.731	-11.3	*
Benzidine		0.096	0.045	53.1	
Pyrene		1.300	1.407	-8.2	
Butylbenzylphthalate		0.644	0.674	-4.7	
3,3'-Dichlorobenzidine		0.244	0.304	-24.6	
Benzo(a)Anthracene		1.072	1.156	-7.8	
Chrysene		0.815	0.906	-11.2	
bis(2-Ethylhexyl)Phthalate		0.964	1.202	-24.7	
Di-n-Octyl Phthalate	*	2.246	2.348	-4.5	*
Benzo(b)Fluoranthene		1.224	1.140	6.9	
Benzo(k)Fluoranthene		1.141	1.082	5.2	
Benzo(a)Pyrene	*	1.069	1.017	4.9	*
Indeno(1,2,3-cd)Pyrene		0.551	0.586	-6.4	
Dibenz(a,h)Anthracene		0.650	0.680	-4.6	
Benzo(g,h,i)Perylene		0.554	0.528	4.7	
Nitrobenzene-d5		0.418	0.454	-8.6	
2-Fluorobiphenyl		1.151	1.383	-20.2	
Terphenyl-d14		1.018	1.171	-15.0	
Phenol-d5		1.281	1.361	-6.2	
2-Fluorophenol		1.063	1.112	-4.6	
2,4,6-Tribromophenol		0.179	0.149	16.8	

(1) Cannot be separated from Diphenylamine

RIC
11/16/90 11:18:00
SAMPLE: HSL-D STANDARD 11/16/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

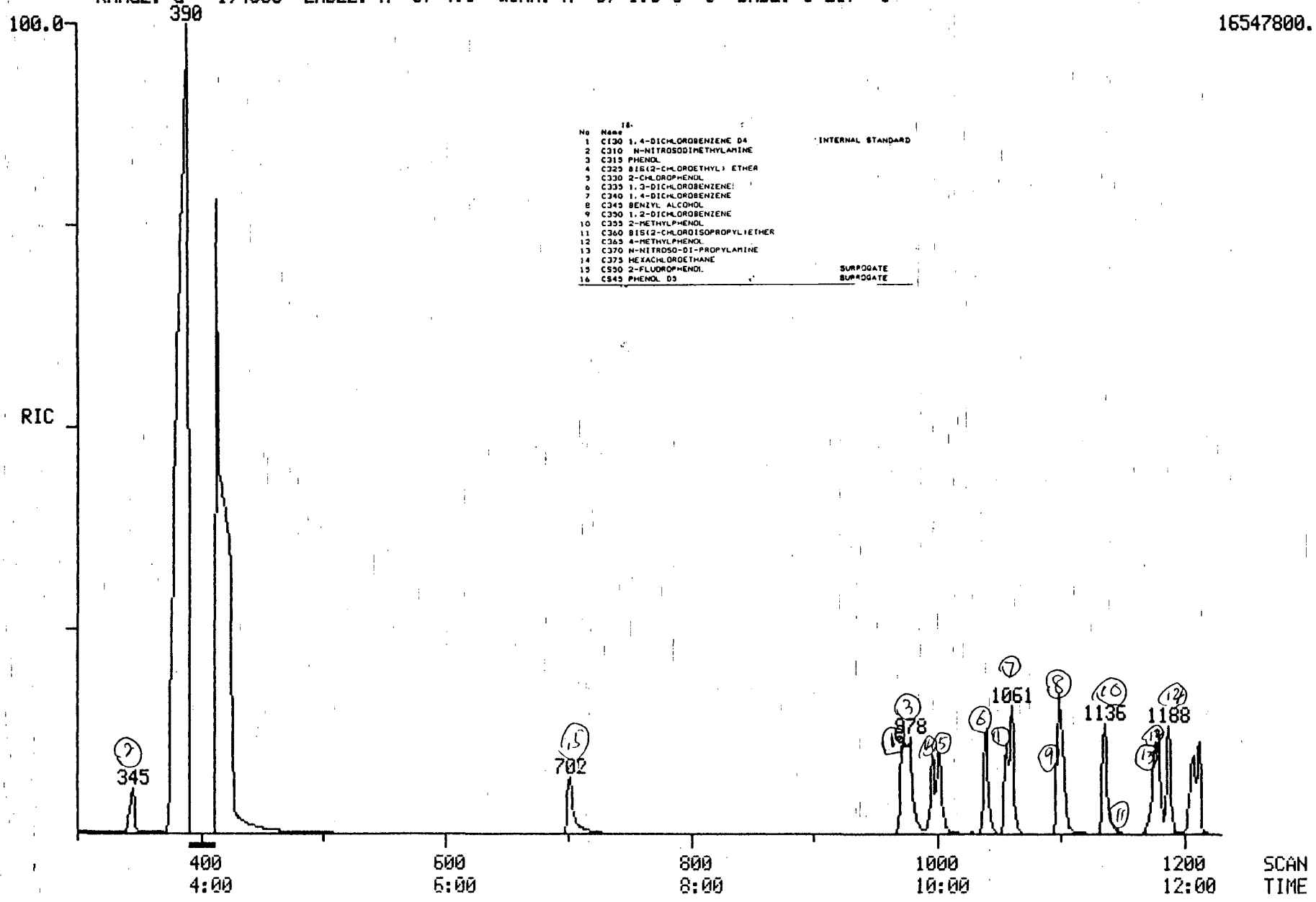
DATA: HSD501116A #1 SCANS 250 TO 4500
CALI: CALTAB #3



000428

RIC
11/16/90 11:18:00
SAMPLE: HSL-D STANDARD 11/16/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501116A #1 SCANS 300 TO 1230
CALI: HSD501116A #3



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

000429

Quantitation Report File: HSD501116A

Data: HSD501116A.TI
11/16/90 11:18:00
Sample: HSL-D STANDARD 11/16/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

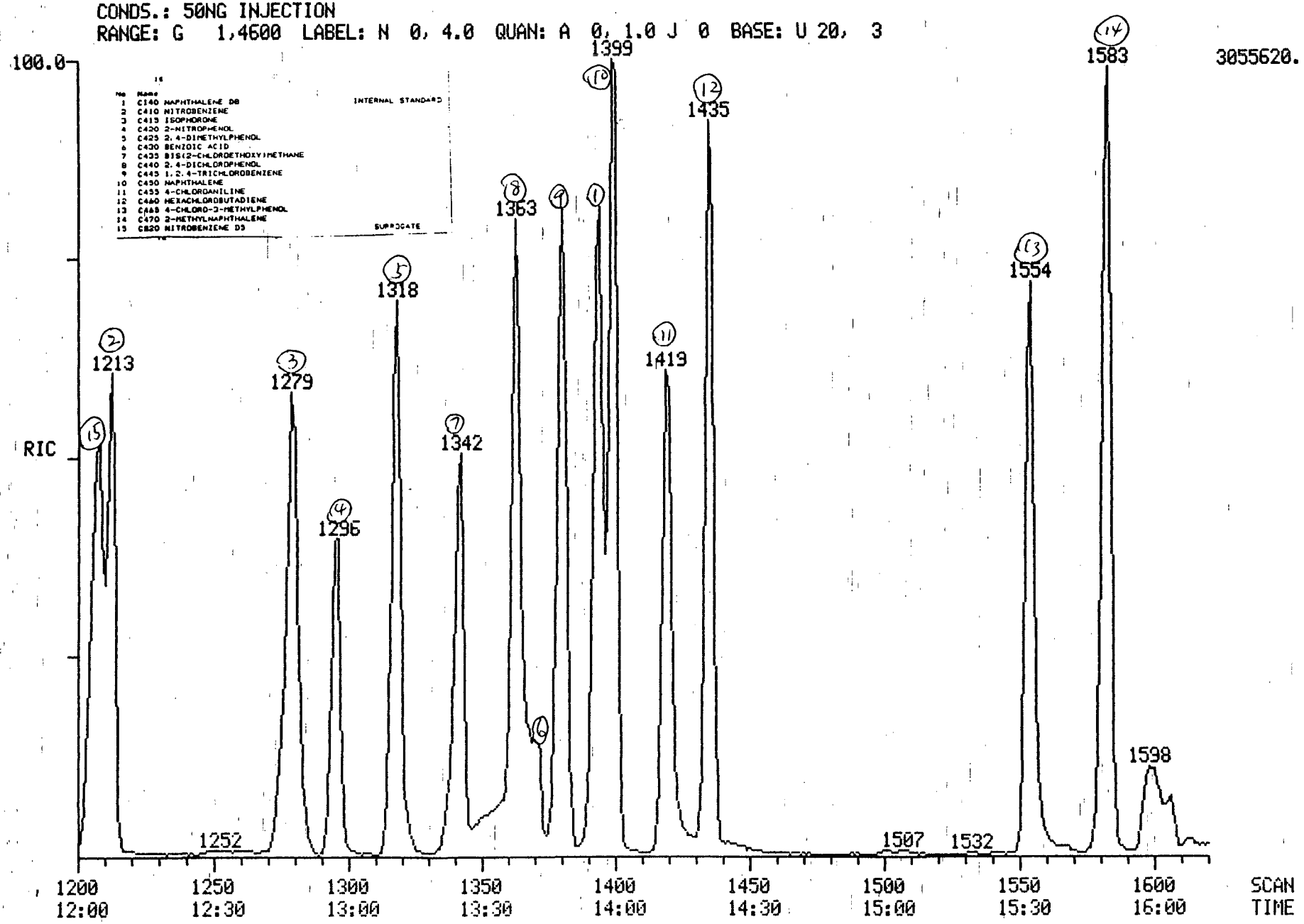
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1056	10:34	1	1.000	A BB	1284820.	40.000 UG/ML	5.06
2	74	345	3:27	1	0.327	A BB	1783530.	50.000 UG	6.33
3	94	978	9:47	1	0.926	A BB	2669720.	50.000 UG/ML	6.33
4	93	996	9:58	1	0.943	A BB	2166270.	50.000 UG/ML	6.33
5	128	1001	10:01	1	0.948	A BB	2397870.	50.000 UG/ML	6.33
6	146	1040	10:24	1	0.985	A BB	2454810.	50.000 UG/ML	6.33
7	146	1061	10:37	1	1.005	A BB	2479690.	50.000 UG/ML	6.33
8	108	1103	11:02	1	1.045	A BB	1339210.	50.000 UG/ML	6.33
9	146	1099	10:59	1	1.041	A BB	2268230.	50.000 UG/ML	6.33
10	108	1136	11:22	1	1.076	A BB	2013250.	50.000 UG/ML	6.33
11	45	1139	11:23	1	1.079	A*BB	128137.	50.000 UG/ML	6.33
12	108	1180	11:48	1	1.117	A BB	1755450.	50.000 UG/ML	6.33
13	70	1176	11:46	1	1.114	A BV	1690890.	50.000 UG/ML	6.33
14	117	1188	11:53	1	1.125	A BB	1094720.	50.000 UG/ML	6.33
15	112	702	7:01	1	0.665	A BB	1785550.	50.000 UG/L	6.33
16	99	974	9:44	1	0.922	A BB	2185130.	50.000 UG/ML	6.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:27	1.00	0.327	1.00	50.00	50.00	1.111	1.111	1.00
3	9:47	1.00	0.926	1.00	50.00	50.00	1.662	1.662	1.00
4	9:58	1.00	0.943	1.00	50.00	50.00	1.349	1.349	1.00
5	10:01	1.00	0.948	1.00	50.00	50.00	1.493	1.493	1.00
6	10:24	1.00	0.985	1.00	50.00	50.00	1.529	1.529	1.00
7	10:37	1.00	1.005	1.00	50.00	50.00	1.544	1.544	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:02	1.00	1.045	1.00	50.00	50.00	0.834	0.834	1.00
9	10:59	1.00	1.041	1.00	50.00	50.00	1.412	1.412	1.00
10	11:22	1.00	1.076	1.00	50.00	50.00	1.254	1.254	1.00
11	11:23	1.00	1.079	1.00	50.00	50.00	0.080	0.080	1.00
12	11:48	1.00	1.117	1.00	50.00	50.00	1.093	1.093	1.00
13	11:46	1.00	1.114	1.00	50.00	50.00	1.053	1.053	1.00
14	11:53	1.00	1.125	1.00	50.00	50.00	0.682	0.682	1.00
15	7:01	1.00	0.665	1.00	50.00	50.00	1.112	1.112	1.00
16	9:44	1.00	0.922	1.00	50.00	50.00	1.361	1.361	1.00

RIC
11/16/90 11:18:00
SAMPLE: HSL-D STANDARD 11/16/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501116A #1 SCANS 1200 TO 1620
CALI: HSD501116A #3



000432

Quantitation Report File: HSD501116A

000433

Data: HSD501116A.TI
11/16/90 11:18:00
Sample: HSL-D STANDARD 11/16/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

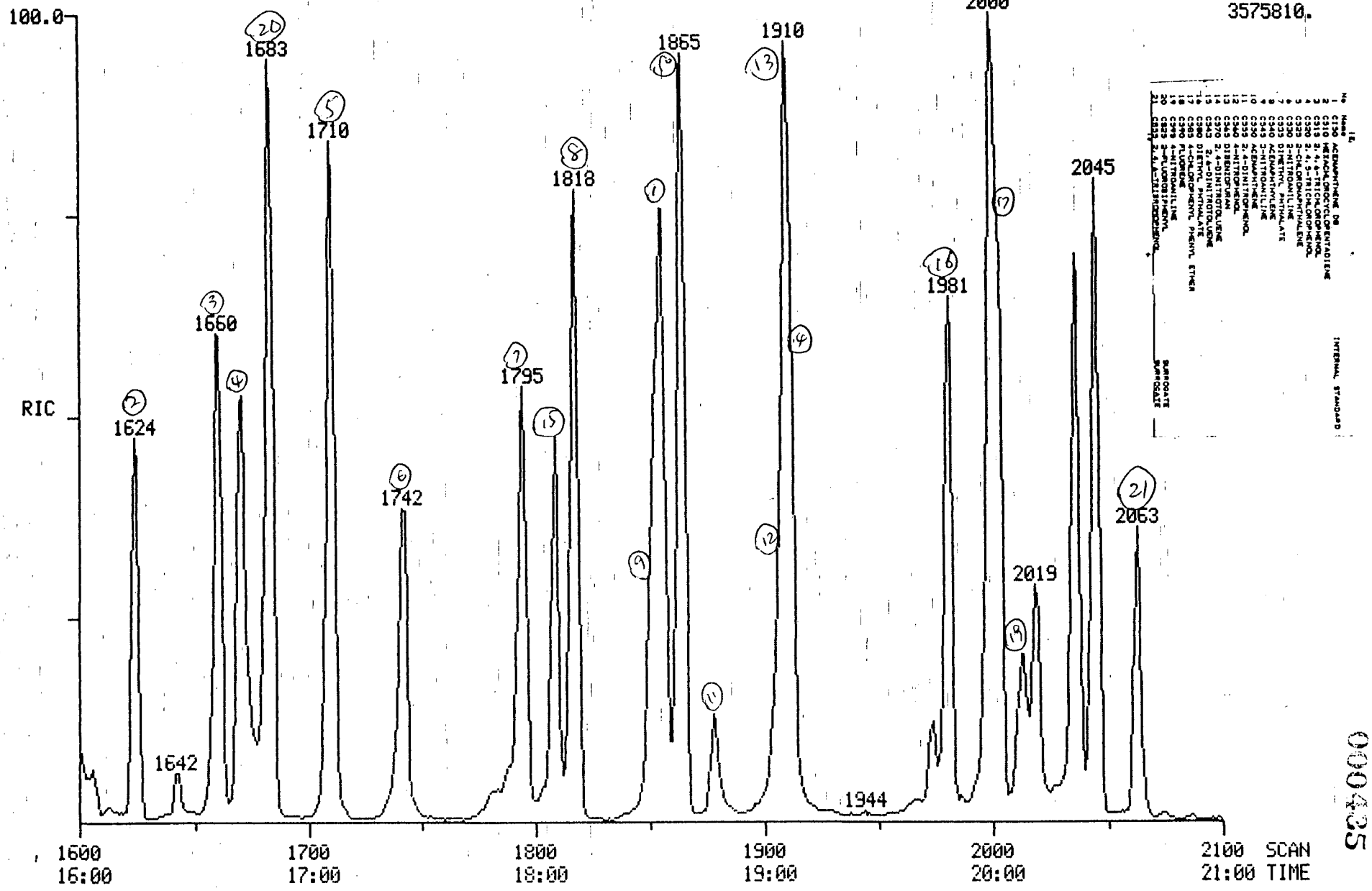
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1394	13:56	1	1.000	A BB	4799990.	40.000 UG/ML	5.41
2	77	1213	12:08	1	0.870	A BB	2332790.	50.000 UG/ML	6.76
3	82	1279	12:47	1	0.918	A BB	4378830.	50.000 UG/ML	6.76
4	139	1295	12:57	1	0.929	A BB	1001360.	50.000 UG/ML	6.76
5	122	1318	13:11	1	0.945	A BB	1605670.	50.000 UG/ML	6.76
6	122	1371	13:43	1	0.984	A BB	683312.	50.000 UG/ML	6.76
7	93	1342	13:25	1	0.963	A BB	2229150.	50.000 UG/ML	6.76
8	162	1363	13:38	1	0.978	A BB	1801270.	50.000 UG/ML	6.76
9	180	1380	13:48	1	0.990	A BV	1960350.	50.000 UG/ML	6.76
10	128	1399	13:59	1	1.004	A BB	5271380.	50.000 UG/ML	6.76
11	127	1419	14:11	1	1.018	A BB	2244070.	50.000 UG/ML	6.76
12	225	1435	14:21	1	1.029	A BB	1130800.	50.000 UG/ML	6.76
13	107	1554	15:22	1	1.115	A BB	1865200.	50.000 UG/ML	6.76
14	142	1583	15:50	1	1.136	A BB	3383320.	50.000 UG/ML	6.76
15	82	1207	12:04	1	0.866	A BB	2721940.	50.000 UG/ML	6.76

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:08	1.00	0.870	1.00	50.00	50.00	0.389	0.389	1.00
3	12:47	1.00	0.918	1.00	50.00	50.00	0.730	0.730	1.00
4	12:57	1.00	0.929	1.00	50.00	50.00	0.167	0.167	1.00
5	13:11	1.00	0.945	1.00	50.00	50.00	0.268	0.268	1.00
6	13:43	1.00	0.984	1.00	50.00	50.00	0.114	0.114	1.00
7	13:25	1.00	0.963	1.00	50.00	50.00	0.372	0.372	1.00
8	13:38	1.00	0.978	1.00	50.00	50.00	0.300	0.300	1.00
9	13:48	1.00	0.990	1.00	50.00	50.00	0.327	0.327	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	13:59	1.00	1.004	1.00	50.00	50.00	0.879	0.879	1.00
11	14:11	1.00	1.018	1.00	50.00	50.00	0.374	0.374	1.00
12	14:21	1.00	1.029	1.00	50.00	50.00	0.188	0.188	1.00
13	15:32	1.00	1.115	1.00	50.00	50.00	0.311	0.311	1.00
14	15:50	1.00	1.136	1.00	50.00	50.00	0.564	0.564	1.00
15	12:04	1.00	0.866	1.00	50.00	50.00	0.454	0.454	1.00

RIC
11/16/90 11:18:00
SAMPLE: HSL-D STANDARD 11/16/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501116A #1 SCANS 1600 TO 2100
CALI: HSD501116A #3



000435

Quantitation Report File: HSD501116A

Data: HSD501116A.TI
11/16/90 11:18:00
Sample: HSL-D STANDARD 11/16/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

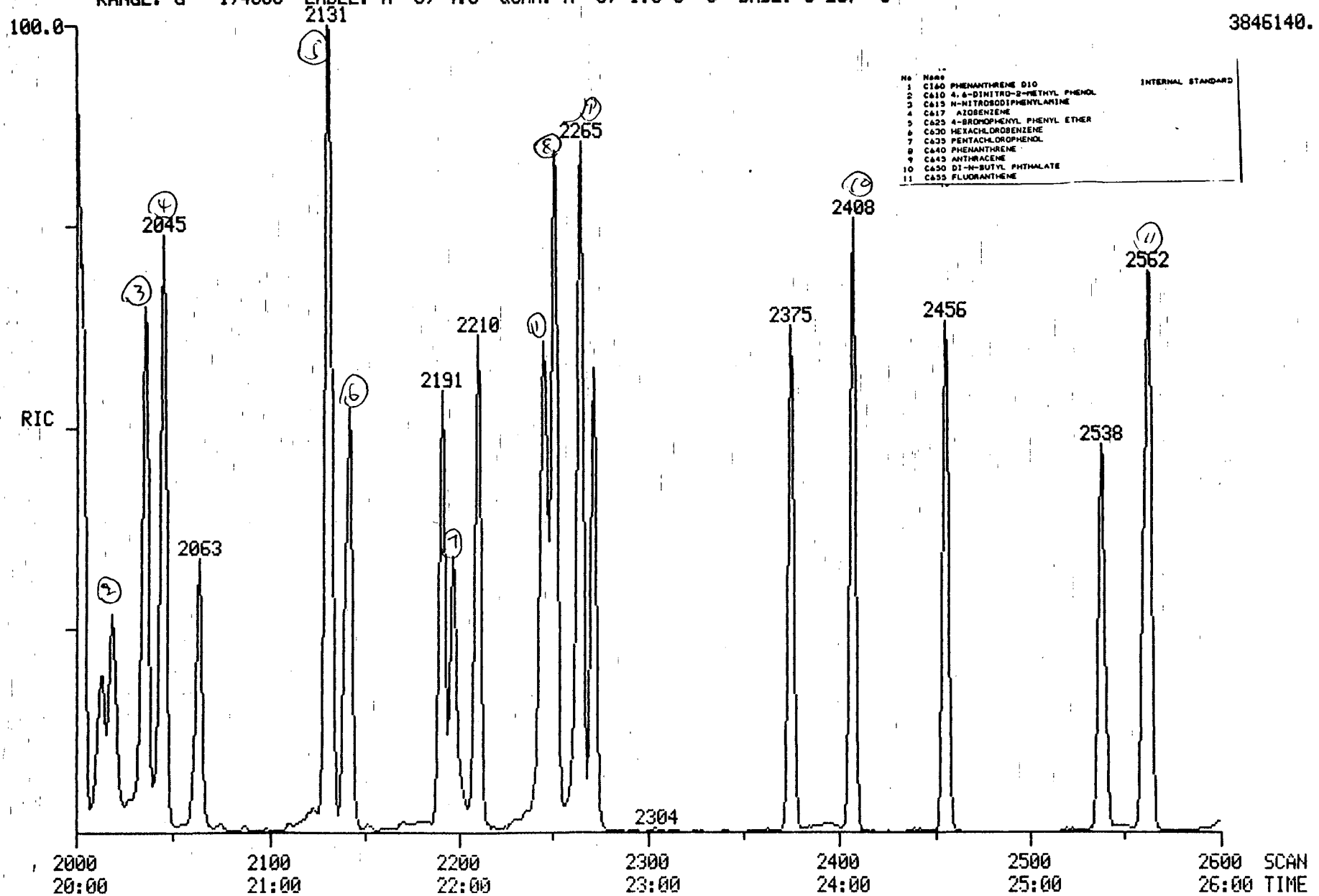
No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1855	18:33	1	1.000	A BB	2444270.	40.000 UG/ML	3.85
2	237	1624	16:14	1	0.875	A BB	841616.	50.000 UG/ML	4.81
3	196	1660	16:36	1	0.895	A BV	1224690.	50.000 UG/ML	4.81
4	196	1670	16:42	1	0.900	A VB	1451150.	50.000 UG/ML	4.81
5	162	1710	17:06	1	0.922	A BB	3764000.	50.000 UG/ML	4.81
6	65	1743	17:26	1	0.940	A BB	1284000.	50.000 UG/ML	4.81
7	163	1795	17:57	1	0.968	A BB	3823340.	50.000 UG/ML	4.81
8	152	1818	18:11	1	0.980	A BB	5045510.	50.000 UG/ML	4.81
9	138	1852	18:31	1	0.998	A BB	1000450.	50.000 UG/ML	4.81
10	154	1864	18:38	1	1.005	A BB	3147350.	50.000 UG/ML	4.81
11	184	1878	18:47	1	1.012	A BB	289785.	50.000 UG/ML	4.81
12	109	1906	19:04	1	1.027	A BB	353453.	50.000 UG/ML	4.81
13	168	1910	19:06	1	1.030	A BB	4675590.	50.000 UG/ML	4.81
14	165	1912	19:07	1	1.031	A VB	1226790.	50.000 UG/ML	4.81
15	165	1809	18:05	1	0.975	A VB	903968.	50.000 UG/ML	4.81
16	149	1981	19:49	1	1.068	A VB	3852960.	50.000 UG/ML	4.81
17	204	2003	20:02	1	1.080	A BB	1579750.	50.000 UG/ML	4.81
18	166	2000	20:00	1	1.078	A BB	3606240.	50.000 UG/ML	4.81
19	138	2013	20:08	1	1.085	A VB	633082.	50.000 UG/ML	4.81
20	172	1683	16:50	1	0.907	A BB	4224110.	50.000 UG/ML	4.81
21	330	2063	20:38	1	1.112	A BB	456440.	50.000 UG/ML	4.81

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:14	1.00	0.875	1.00	50.00	50.00	0.275	0.275	1.00
3	16:36	1.00	0.895	1.00	50.00	50.00	0.401	0.401	1.00
4	16:42	1.00	0.900	1.00	50.00	50.00	0.475	0.475	1.00
5	17:06	1.00	0.922	1.00	50.00	50.00	1.232	1.232	1.00
6	17:26	1.00	0.940	1.00	50.00	50.00	0.420	0.420	1.00
7	17:57	1.00	0.968	1.00	50.00	50.00	1.251	1.251	1.00
8	18:11	1.00	0.980	1.00	50.00	50.00	1.651	1.651	1.00
9	18:31	1.00	0.998	1.00	50.00	50.00	0.327	0.327	1.00
10	18:38	1.00	1.005	1.00	50.00	50.00	1.030	1.030	1.00
11	18:47	1.00	1.012	1.00	50.00	50.00	0.095	0.095	1.00
12	19:04	1.00	1.027	1.00	50.00	50.00	0.116	0.116	1.00
13	19:06	1.00	1.030	1.00	50.00	50.00	1.530	1.530	1.00
14	19:07	1.00	1.031	1.00	50.00	50.00	0.402	0.402	1.00
15	18:05	1.00	0.975	1.00	50.00	50.00	0.296	0.296	1.00
16	19:49	1.00	1.068	1.00	50.00	50.00	1.261	1.261	1.00
17	20:02	1.00	1.080	1.00	50.00	50.00	0.517	0.517	1.00
18	20:00	1.00	1.078	1.00	50.00	50.00	1.180	1.180	1.00
19	20:08	1.00	1.085	1.00	50.00	50.00	0.207	0.207	1.00
20	16:50	1.00	0.907	1.00	50.00	50.00	1.383	1.383	1.00
21	20:38	1.00	1.112	1.00	50.00	50.00	0.149	0.149	1.00

RIC
11/16/90 11:18:00
SAMPLE: HSL-D STANDARD 11/16/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501116A #1 SCANS 2000 TO 2600
CALI: HSD501116A #3



000428

Quantitation Report File: HSD501116A

000639

Data: HSD501116A.TI
11/16/90 11:18:00
Sample: HSL-D STANDARD 11/16/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: HSD50111

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

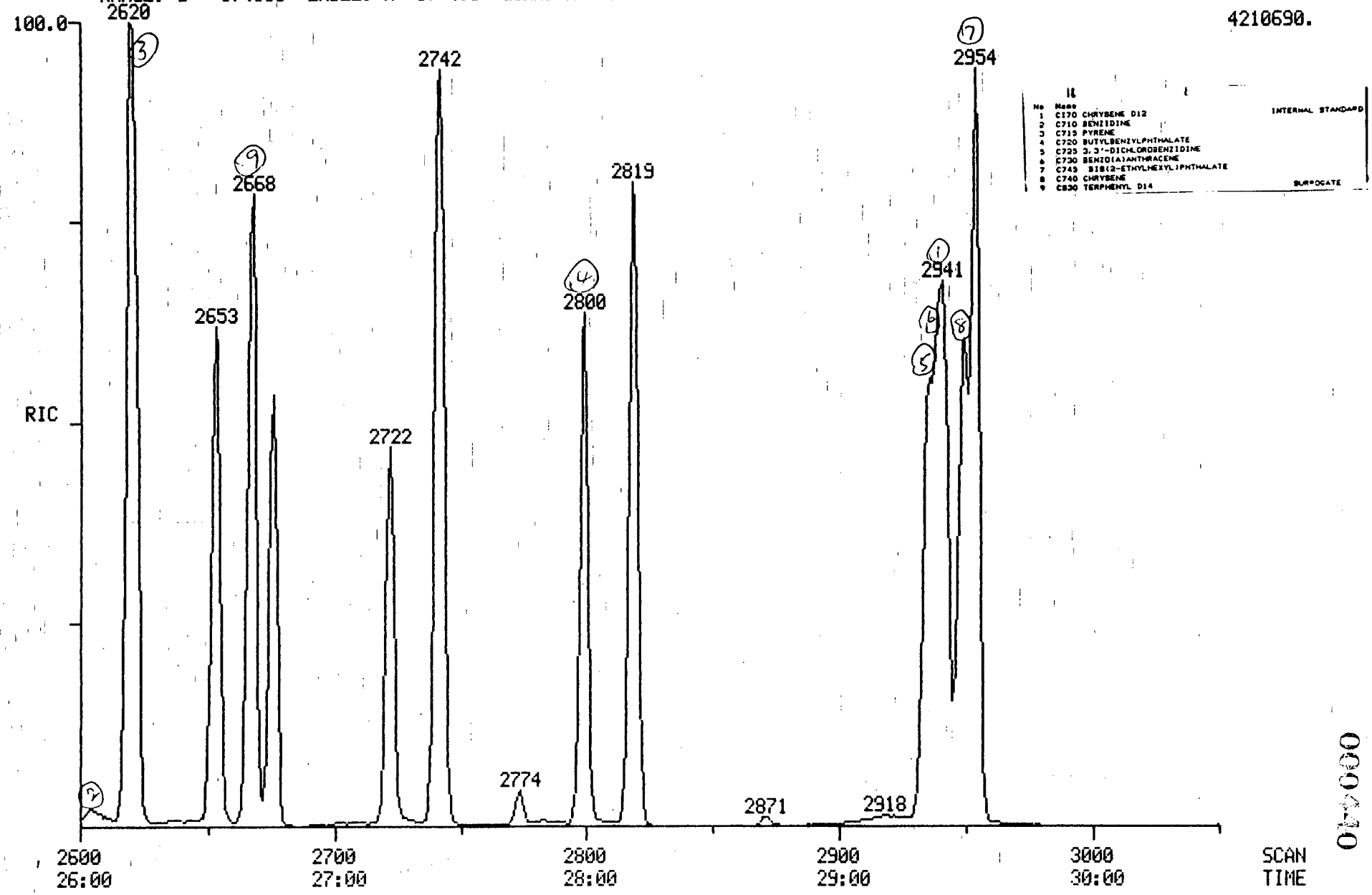
No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2245	22:27	1	1.000	A BB	1964760.	40.000 UG/ML	7.41
2	198	2019	20:11	1	0.899	A VB	464973.	50.000 UG/ML	9.26
3	169	2036	20:22	1	0.907	A BB	2480580.	50.000 UG/ML	9.26
4	77	2045	20:27	1	0.911	A VB	4422780.	50.000 NG	9.26
5	248	2131	21:19	1	0.949	A BB	1032460.	50.000 UG/ML	9.26
6	284	2142	21:25	1	0.954	A BB	1068070.	50.000 UG/ML	9.26
7	266	2197	21:58	1	0.979	A BB	524840.	50.000 UG/ML	9.26
8	178	2251	22:31	1	1.003	A BB	4618940.	50.000 UG/ML	9.26
9	178	2265	22:39	1	1.009	A VB	4841460.	50.000 UG/ML	9.26
10	149	2408	24:05	1	1.073	A VB	5616990.	50.000 UG/ML	9.26
11	202	2562	25:37	1	1.141	A VB	4250650.	50.000 UG/ML	9.26

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:11	1.00	0.899	1.00	50.00	50.00	0.189	0.189	1.00
3	20:22	1.00	0.907	1.00	50.00	50.00	1.010	1.010	1.00
4	20:27	1.00	0.911	1.00	50.00	50.00	1.801	1.801	1.00
5	21:19	1.00	0.949	1.00	50.00	50.00	0.420	0.420	1.00
6	21:25	1.00	0.954	1.00	50.00	50.00	0.435	0.435	1.00
7	21:58	1.00	0.979	1.00	50.00	50.00	0.214	0.214	1.00
8	22:31	1.00	1.003	1.00	50.00	50.00	1.881	1.881	1.00
9	22:39	1.00	1.009	1.00	50.00	50.00	1.971	1.971	1.00
10	24:05	1.00	1.073	1.00	50.00	50.00	2.287	2.287	1.00
11	25:37	1.00	1.141	1.00	50.00	50.00	1.731	1.731	1.00

RIC
11/16/90 11:18:00
SAMPLE: HSL-D STANDARD 11/16/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501116A #1 SCANS 2600 TO 3050
CALI: HSD501116A #3



000440

Quantitation Report File: 5

Data: HSD501116A.TI
11/16/90 11:18:00
Sample: HSL-D STANDARD 11/16/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

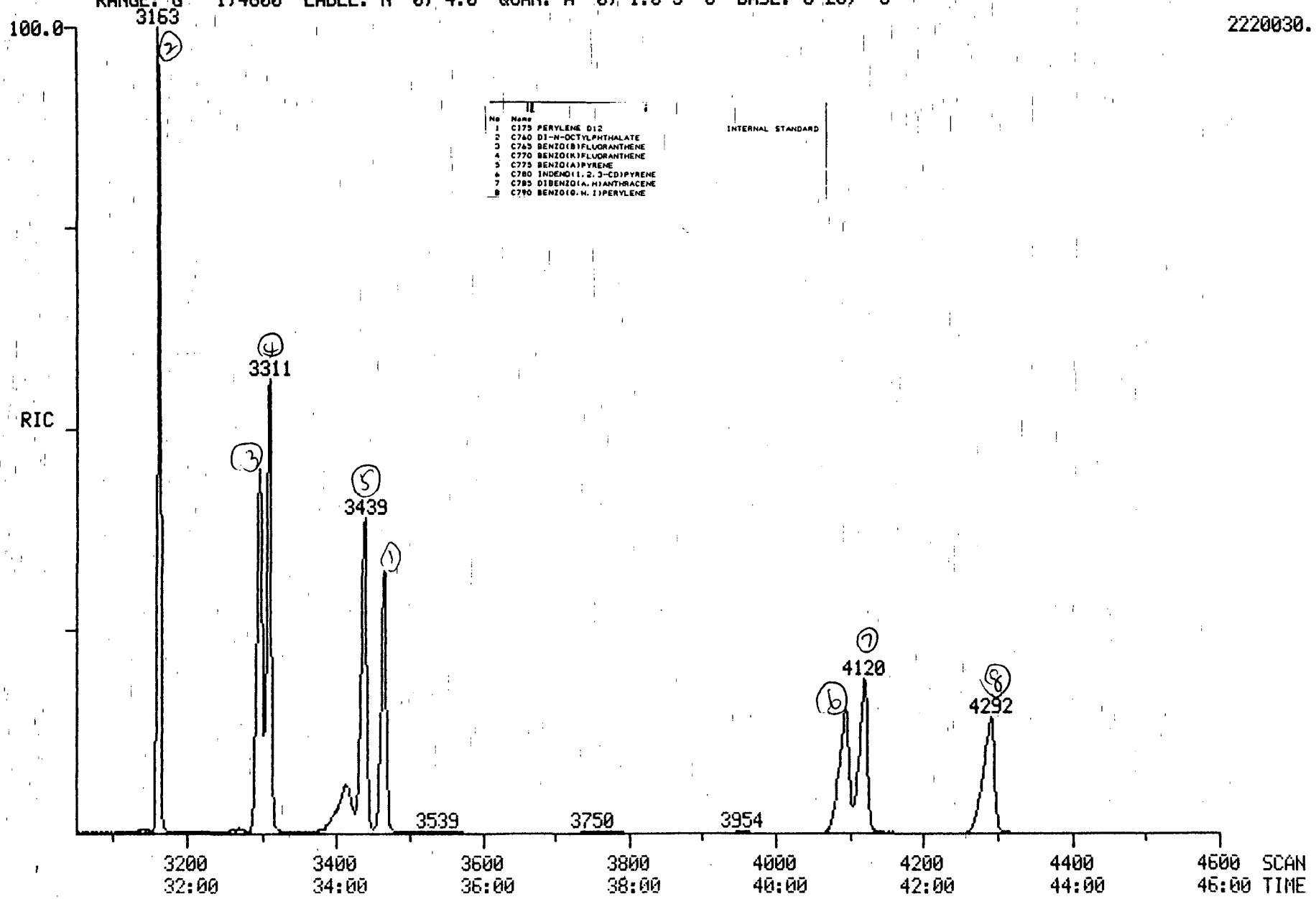
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2942	29:25	1	1.000	A BB	2703030.	40.000 UG/ML	9.09
2	184	2605	26:03	1	0.885	A*BB	151380.	50.000 UG/ML	11.36
3	202	2621	26:13	1	0.891	A BB	4755460.	50.000 UG/ML	11.36
4	149	2800	28:00	1	0.952	A BB	2277790.	50.000 UG/ML	11.36
5	252	2935	29:21	1	0.998	A BB	1028200.	50.000 UG/ML	11.36
6	228	2938	29:23	1	0.999	A BV	3904510.	50.000 UG/ML	11.36
7	149	2954	29:32	1	1.004	A VB	4061370.	50.000 UG/ML	11.36
8	228	2949	29:29	1	1.002	A BB	3060580.	50.000 UG/ML	11.36
9	244	2668	26:41	1	0.907	A BV	3957420.	50.000 UG/ML	11.36

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:03	1.00	0.885	1.00	50.00	50.00	0.045	0.045	1.00
3	26:13	1.00	0.891	1.00	50.00	50.00	1.407	1.407	1.00
4	28:00	1.00	0.952	1.00	50.00	50.00	0.674	0.674	1.00
5	29:21	1.00	0.998	1.00	50.00	50.00	0.304	0.304	1.00
6	29:23	1.00	0.999	1.00	50.00	50.00	1.156	1.156	1.00
7	29:32	1.00	1.004	1.00	50.00	50.00	1.202	1.202	1.00
8	29:29	1.00	1.002	1.00	50.00	50.00	0.906	0.906	1.00
9	26:41	1.00	0.907	1.00	50.00	50.00	1.171	1.171	1.00

RIC
11/16/90 11:18:00
SAMPLE: HSL-D STANDARD 11/16/90
CONDS.: 50NG INJECTION
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: HSD501116A #1 SCANS 3050 TO 4600
CALI: HSD501116A #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000442

Quantitation Report File: HSD501116A

Data: HSD501116A.TI
11/16/90 11:18:00
Sample: HSL-D STANDARD 11/16/90
Conds.: 50NG INJECTION
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: HSD50111

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

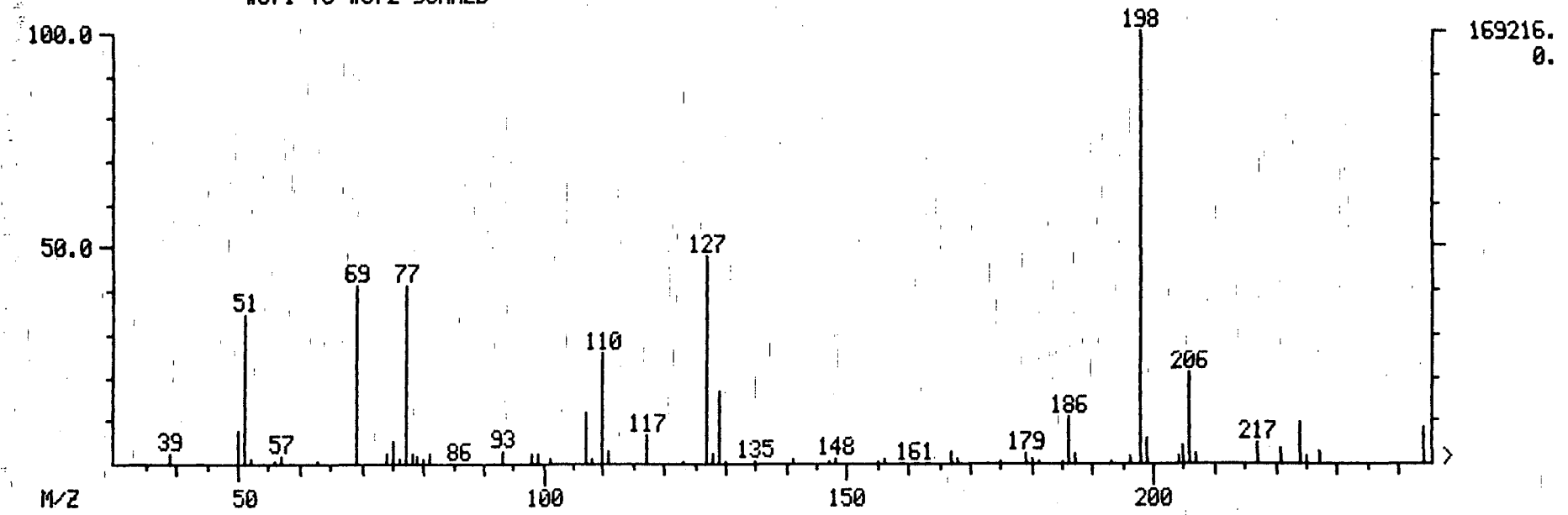
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3465	34:39	1	1.000	A BB	1721600.	40.000 UG/ML	10.26
2	149	3163	31:38	1	0.913	A BB	5053300.	50.000 UG/ML	12.82
3	252	3297	32:58	1	0.952	A BV	2453970.	50.000 UG/ML	12.82
4	252	3311	33:07	1	0.956	A VB	2328990.	50.000 UG/ML	12.82
5	252	3439	34:23	1	0.992	A BB	2189060.	50.000 UG/NL	12.82
6	276	4095	40:57	1	1.182	A BB	1260590.	50.000 UG/ML	12.82
7	278	4121	41:13	1	1.189	A BB	1463030.	50.000 UG/ML	12.82
8	276	4292	42:55	1	1.239	A BB	1135590.	50.000 UG/ML	12.82

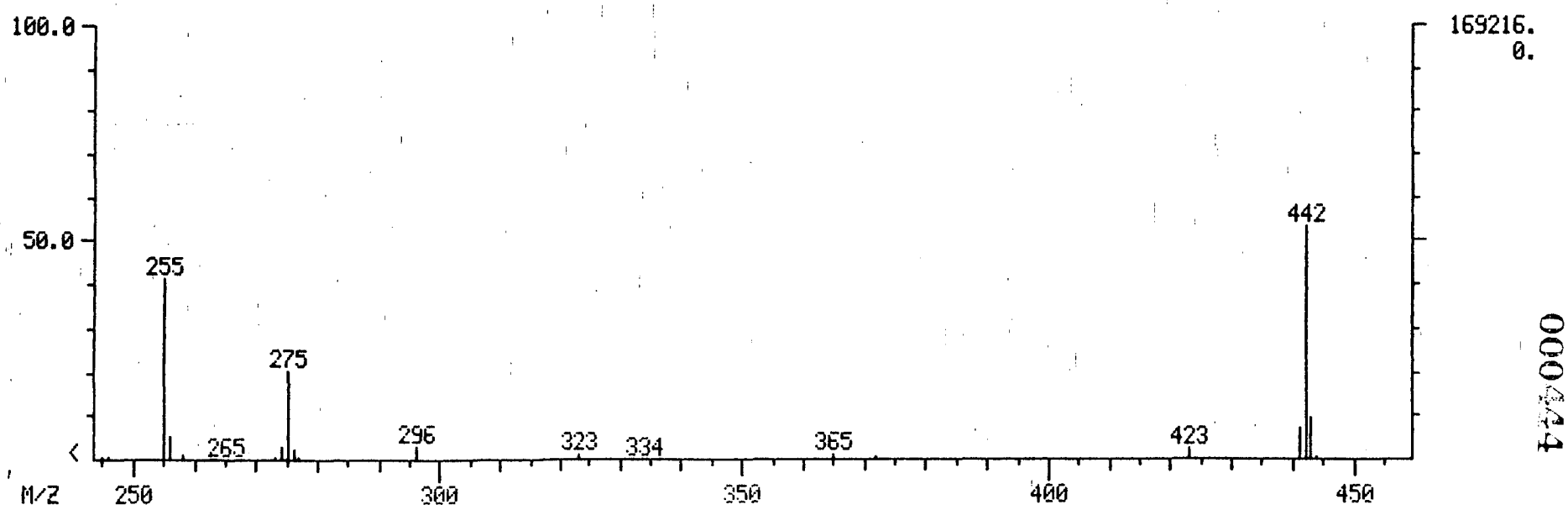
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:38	1.00	0.913	1.00	50.00	50.00	2.348	2.348	1.00
3	32:58	1.00	0.952	1.00	50.00	50.00	1.140	1.140	1.00
4	33:07	1.00	0.956	1.00	50.00	50.00	1.082	1.082	1.00
5	34:23	1.00	0.992	1.00	50.00	50.00	1.017	1.017	1.00
6	40:57	1.00	1.182	1.00	50.00	50.00	0.586	0.586	1.00
7	41:13	1.00	1.189	1.00	50.00	50.00	0.680	0.680	1.00
8	42:55	1.00	1.239	1.00	50.00	50.00	0.528	0.528	1.00

MASS SPECTRUM
11/09/90 16:02:00 + 6:43
SAMPLE: DFTPP-D TUNE 11/9/90
CONDS.: 50 NG INJECTION DFTPP, DDT, PCP, BENZIDINE
TEMP: 262 DEG. C
#671 TO #672 SUMMED

DATA: DFTPPD1109P #671
CALI: CALTAB #3

BASE M/Z: 198
RIC: 1062910.





000044

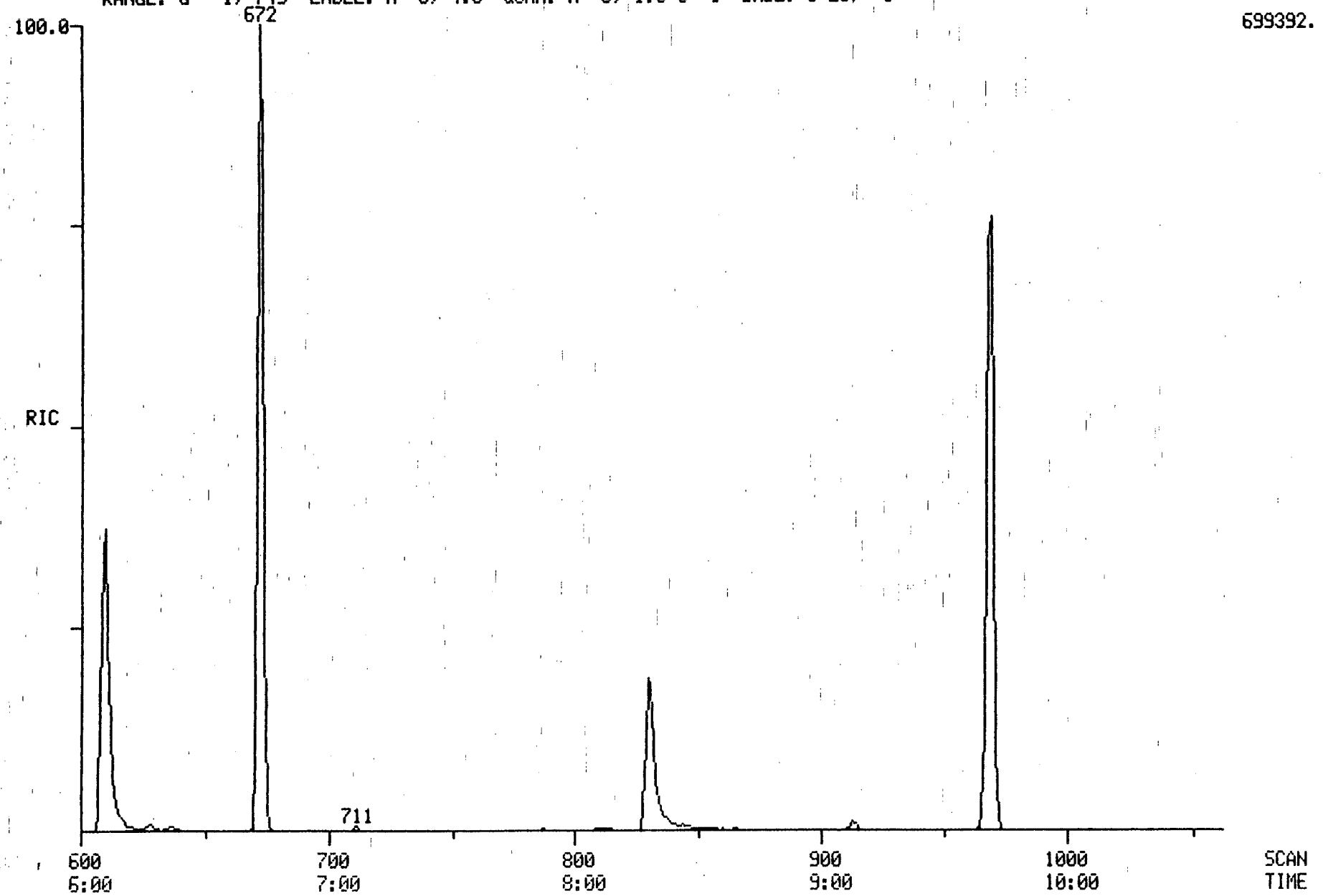
Mass List Data: DFTPPD1109P # 671 Base m/z: 198
11/09/90 16:02:00 + 6:43 Cali: CALTAB # 3 RIC: 1062910.
Sample: DFTPP-D TUNE 11/9/90
Conds.: 50 NG INJECTION DFTPP, DDT, PCP, BENZIDINE
#671 to #672 summed

36 0.00 0. Minima Min Inten: 166.
444 Maxima # 0

Mass	% RA	Inten.	Mass	% RA	Inten.
39.00	2.33	3936.	165.00	0.14	240.
50.00	7.92	13408.	167.00	2.89	4896.
51.00	35.02	59264.	168.00	1.08	1824.
52.00	1.24	2096.	174.00	0.17	288.
56.00	0.43	736.	175.00	0.73	1232.
57.00	2.00	3376.	179.00	2.20	3728.
63.00	0.79	1344.	180.00	1.35	2288.
65.00	0.19	320.	181.00	0.40	672.
68.00	0.10	176.	185.00	0.66	1120.
69.00	41.53	70272.	186.00	10.57	17888.
74.00	2.58	4368.	187.00	2.34	3968.
75.00	5.23	8848.	192.00	0.23	384.
76.00	1.30	2208.	193.00	0.41	688.
77.00	41.38	70016.	196.00	1.82	3088.
78.00	2.15	3632.	198.00	100.00	169216.
79.00	1.79	3024.	199.00	5.95	10064.
80.00	1.17	1984.	204.00	1.99	3360.
81.00	2.11	3568.	205.00	3.92	6640.
82.00	0.13	224.	206.00	20.80	35200.
83.00	0.19	320.	207.00	2.26	3824.
86.00	0.28	480.	217.00	4.51	7632.
91.00	0.14	240.	218.00	0.11	192.
92.00	0.14	240.	221.00	3.48	5888.
93.00	3.21	5440.	223.00	0.26	448.
98.00	2.28	3856.	224.00	9.62	16272.
99.00	2.10	3552.	225.00	1.81	3056.
101.00	1.06	1792.	227.00	3.05	5168.
104.00	0.25	416.	229.00	0.22	368.
105.00	0.21	352.	244.00	8.11	13728.
107.00	11.69	19776.	245.00	0.45	768.
108.00	1.23	2080.	246.00	0.56	944.
110.00	25.53	43200.	255.00	41.23	69760.
111.00	3.22	5456.	256.00	5.46	9232.
117.00	6.55	11088.	258.00	1.03	1744.
122.00	0.22	368.	265.00	0.22	368.
123.00	0.70	1184.	273.00	0.50	848.
127.00	48.18	81536.	274.00	2.75	4656.
128.00	2.68	4528.	275.00	20.46	34624.
129.00	16.89	28576.	276.00	2.19	3712.
130.00	0.75	1264.	277.00	0.78	1328.
135.00	0.88	1488.	296.00	3.23	5472.
137.00	0.15	256.	323.00	0.95	1616.
141.00	1.24	2096.	334.00	0.27	464.
142.00	0.11	192.	365.00	1.00	1696.
147.00	0.47	800.	372.00	0.30	512.
148.00	1.47	2480.	423.00	2.43	4112.
155.00	0.32	544.	441.00	7.38	12480.
156.00	1.06	1792.	442.00	53.25	90112.
160.00	0.11	192.	443.00	9.53	16128.
161.00	0.29	496.	444.00	0.35	592.

RIC
11/09/90 16:02:00
SAMPLE: DFTPP-D TUNE 11/9/90
CONDS.: 50 NG INJECTION DFTPP, DDT, PCP, BENZIDINE
RANGE: G 1, 749 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

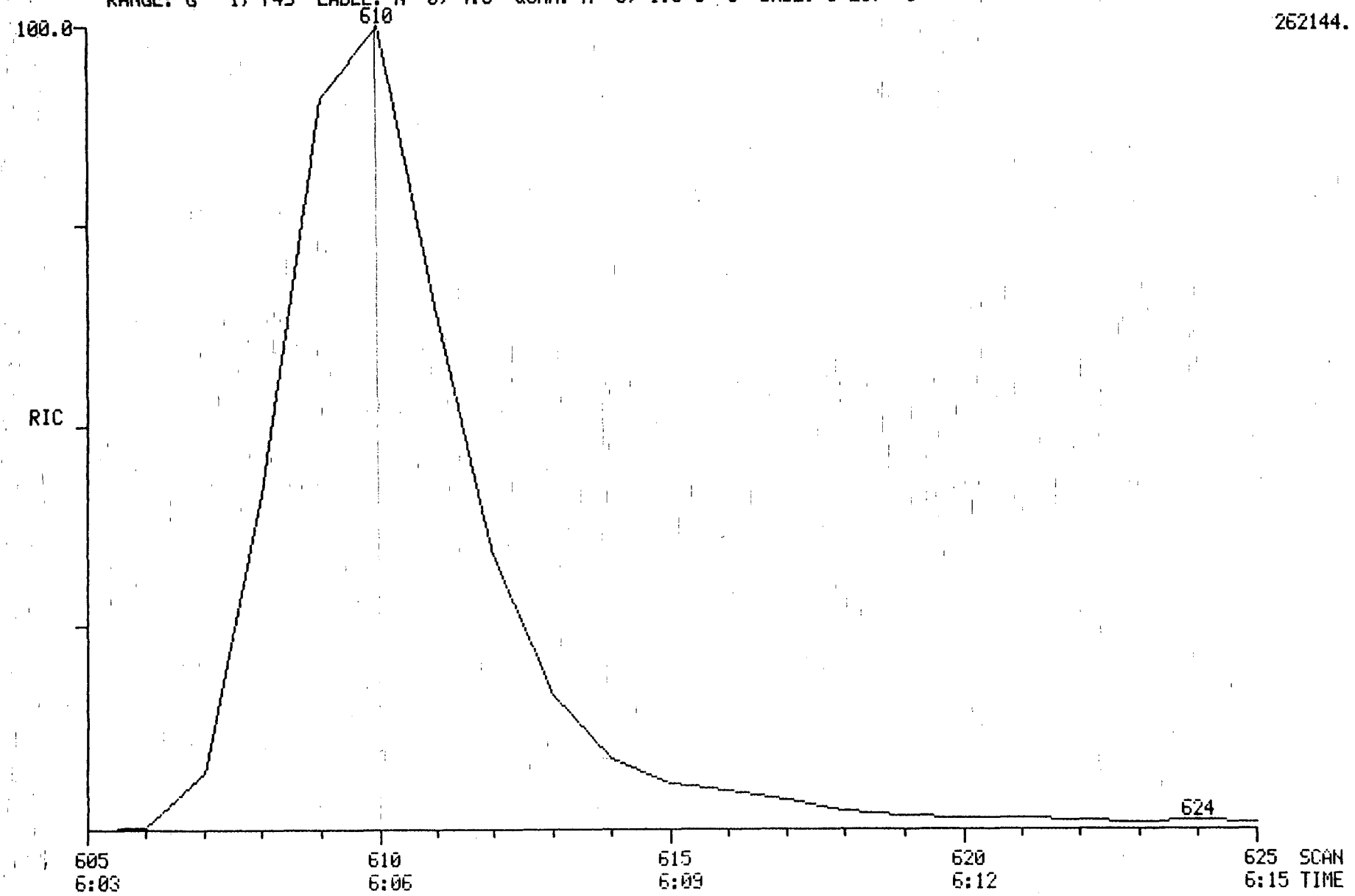
DATA: DFTPPD1109P #671 SCANS 600 TO 1062
CALI: CALTAB #3



000446

RIC
11/09/90 16:02:00
SAMPLE: DFTPP-D TUNE 11/9/90
CONDS.: 50 NG INJECTION DFTPP, DDT, PCP, BENZIDINE
C635 PENTACHLOROPHENOL
RANGE: G 1, 749 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

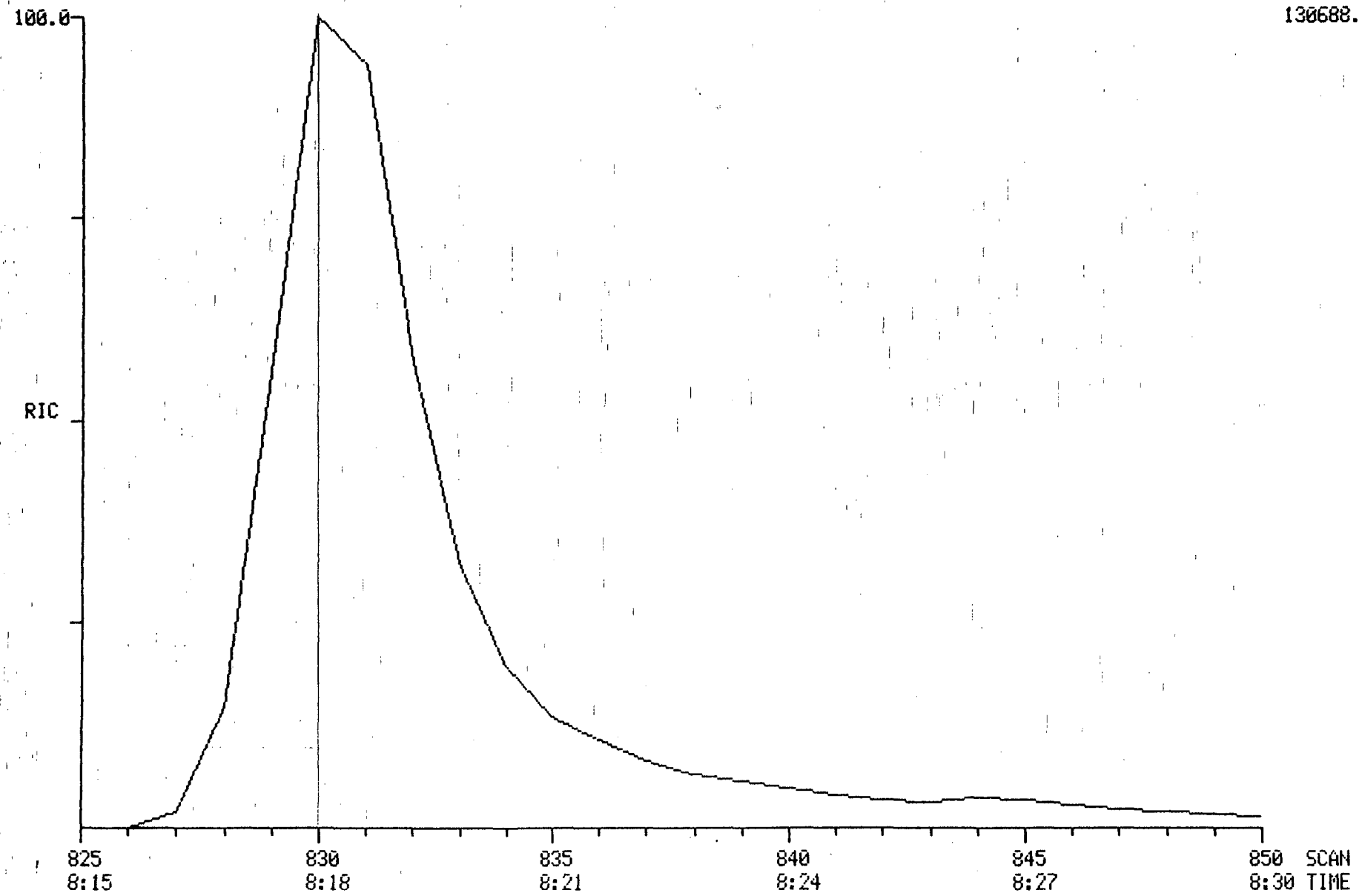
DATA: DFTPPD1109P #671 SCANS 605 TO 625
CALI: CALTAB #3



000427

RIC
11/09/90 16:02:00
SAMPLE: DFTPP-D TUNE 11/9/90
CONDS.: 50 NG INJECTION DFTPP, DDT, PCP, BENZIDINE
C710 BENZIDINE
RANGE: G 1, 749 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: DFTPPD1109P #671 SCANS 825 TO 850
CALI: CALTAB #3



000478

Quantitation Report File: DFTPPD1109P

Data: DFTPPD1109P.TI
11/09/90 16:02:00
Sample: DFTPP-D TUNE 11/9/90
Conds.: 50 NG INJECTION DFTPP, DDT, PCP, BENZIDINE
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: LA Acct. No.: DFTPPD11

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

No	Name
1	4,4'-DDT
2	4,4'-DDD
3	4,4'-DDE

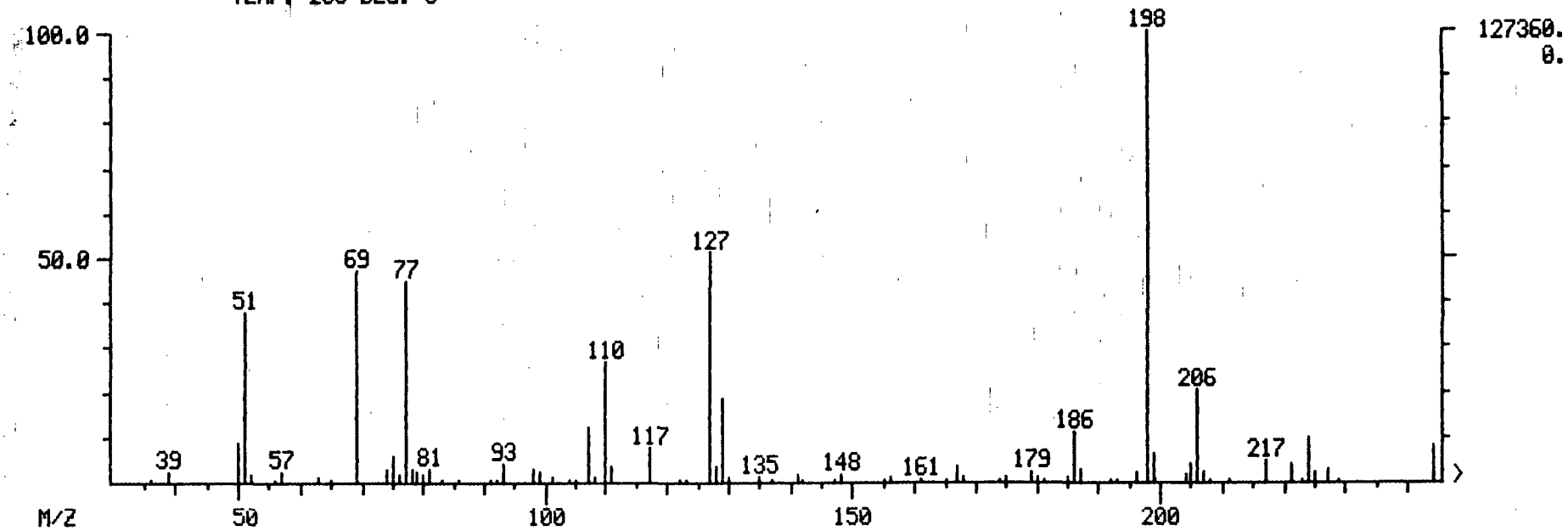
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	235	968	9:41	1	1.000	A BB	392848.	100.000 %	96.80
2	235	913	9:08	1	0.943	A BB	12992.	3.307 %	3.20
3	NOT FOUND								

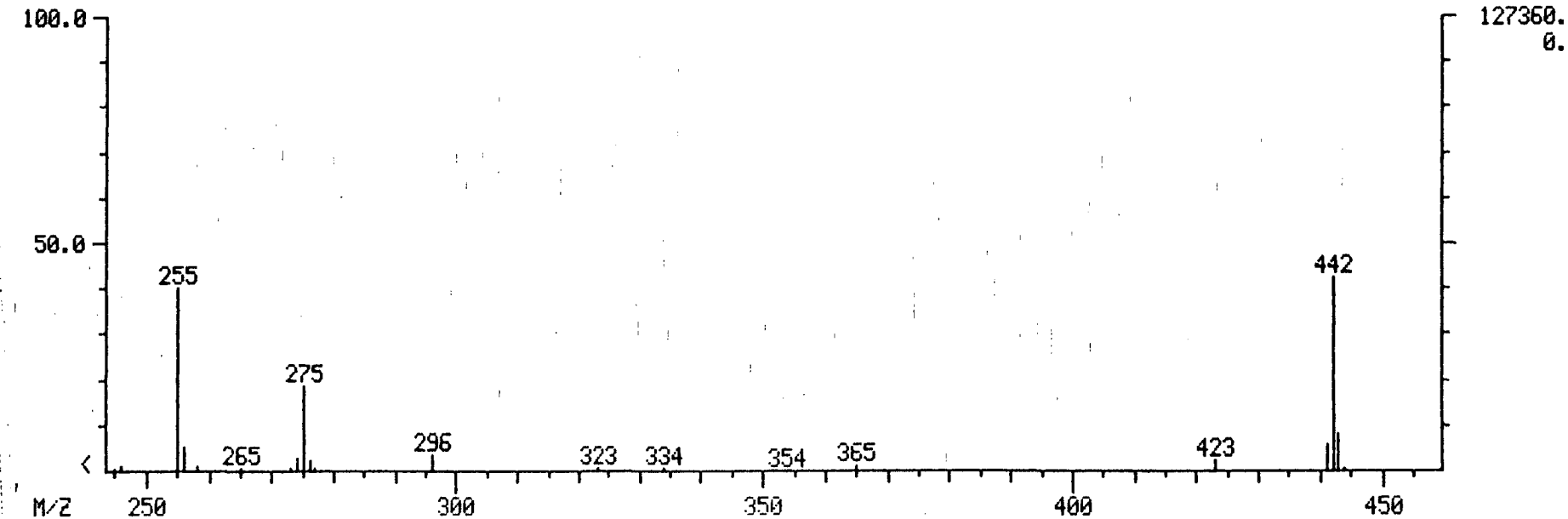
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:14	1.05	1.000	1.00	100.00	100.00	1.000	1.000	1.00
2	8:44	1.05	0.946	1.00	3.31	100.00	0.033	1.000	0.03
3	41:25		1.245						

MASS SPECTRUM
11/12/90 16:59:00 + 6:42
SAMPLE: DFTPP-D TUNE 11/12/90
CONDS.: 50 NG INJECTION DFTPP,PCP,DDT,BENZIDINE
TEMP: 263 DEG. C

DATA: DFTPPD1112P #670
CALI: CALTAB #3

BASE M/Z: 198
RIC: 829440.





000450

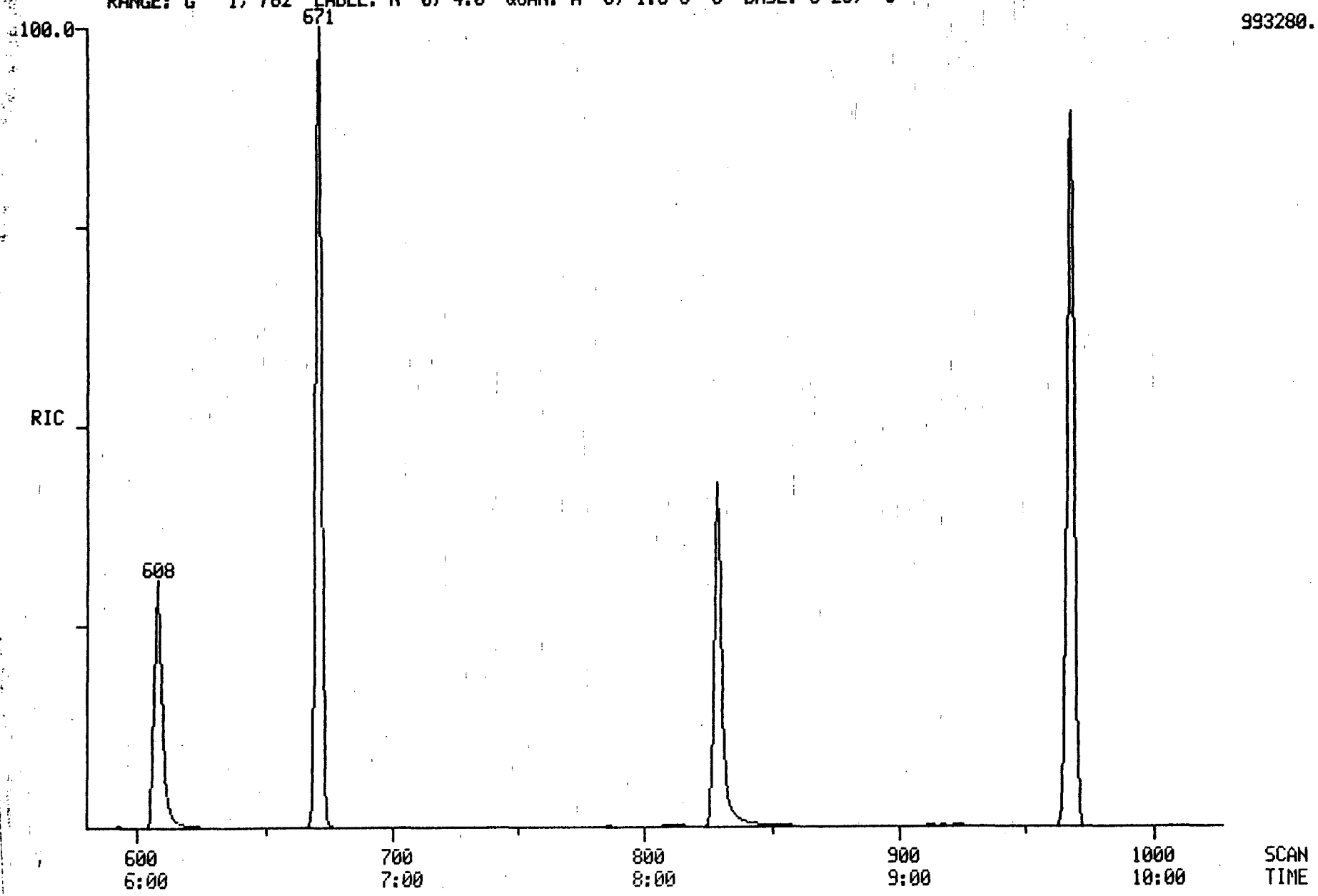
Mass List Data: DFTPPD1112P # 670 Base m/z: 198 000451
11/12/90 16:59:00 + 6:42 Cali: CALTAB # 3 RIC: 829440.
Sample: DFTPP-D TUNE 11/12/90
Conds.: 50 NG INJECTION DFTPP, PCP, DDT, BENZIDINE

36 0.00 0. Minima Min Inten: 337.
444 Maxima # 0

Mass	% RA	Inten.	Mass	% RA	Inten.
36.05	0.44	560.	167.02	3.20	4080.
39.04	2.59	3296.	168.02	1.22	1552.
50.03	8.76	11152.	174.02	0.46	592.
51.03	37.79	48128.	175.02	1.18	1504.
52.04	1.51	1920.	178.98	2.42	3088.
55.99	0.77	976.	180.03	1.44	1840.
57.00	2.46	3136.	181.00	0.52	656.
63.03	1.06	1344.	185.02	0.93	1184.
65.07	0.39	496.	186.02	11.12	14160.
68.05	0.29	368.	187.02	2.79	3552.
68.96	46.83	59648.	192.02	0.35	448.
74.03	3.08	3920.	193.02	0.50	640.
75.01	5.67	7216.	196.00	2.07	2640.
76.05	1.51	1920.	197.95	100.00	127360.
77.04	44.67	56896.	198.95	6.43	8192.
78.04	2.65	3376.	204.02	1.95	2480.
78.98	2.31	2944.	205.02	3.88	4944.
79.98	1.71	2176.	206.03	20.18	25696.
80.98	2.68	3408.	207.02	2.35	2992.
81.98	0.28	352.	207.98	0.30	384.
83.04	0.35	448.	211.00	0.36	464.
86.01	0.49	624.	216.95	4.43	5648.
91.02	0.39	496.	221.08	4.15	5280.
92.02	0.34	432.	222.97	0.65	832.
92.98	4.05	5152.	224.00	9.89	12592.
97.98	2.64	3360.	225.00	2.09	2656.
98.99	2.14	2720.	226.98	3.08	3920.
101.00	1.26	1600.	228.98	0.35	448.
103.98	0.62	784.	244.00	8.09	10304.
105.00	0.53	672.	245.02	0.69	880.
107.02	12.46	15872.	245.95	0.98	1248.
108.03	1.41	1792.	254.98	40.00	50944.
110.02	26.88	34240.	255.98	5.49	6992.
111.02	3.40	4336.	257.97	1.44	1840.
116.97	7.69	9792.	265.00	0.33	416.
122.00	0.30	384.	273.00	0.60	768.
123.00	0.80	1024.	274.00	2.71	3456.
127.00	51.06	65024.	275.00	18.64	23744.
128.00	3.20	4080.	276.00	2.05	2608.
128.98	18.54	23616.	277.00	0.80	1024.
130.00	1.16	1472.	295.97	3.29	4192.
135.02	0.93	1184.	323.03	0.87	1104.
137.05	0.31	400.	334.00	0.30	384.
140.97	1.70	2160.	364.91	1.16	1472.
141.97	0.30	384.	422.97	2.25	2864.
147.02	0.55	704.	441.00	5.73	7296.
147.98	1.71	2176.	442.00	42.46	54080.
155.03	0.62	784.	443.00	7.94	10112.
156.05	1.34	1712.	443.97	0.35	448.
161.00	0.63	800.			
164.98	0.40	512.			

RIC
11/12/90 16:59:00
SAMPLE: DFTPP-D TUNE 11/12/90
CONDS.: 50 NG INJECTION DFTPP,PCP,DDT,BENZIDINE
RANGE: G 1, 782 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: DFTPPD1112P #670 SCANS 580 TO 1027
CALI: CALTAB #3

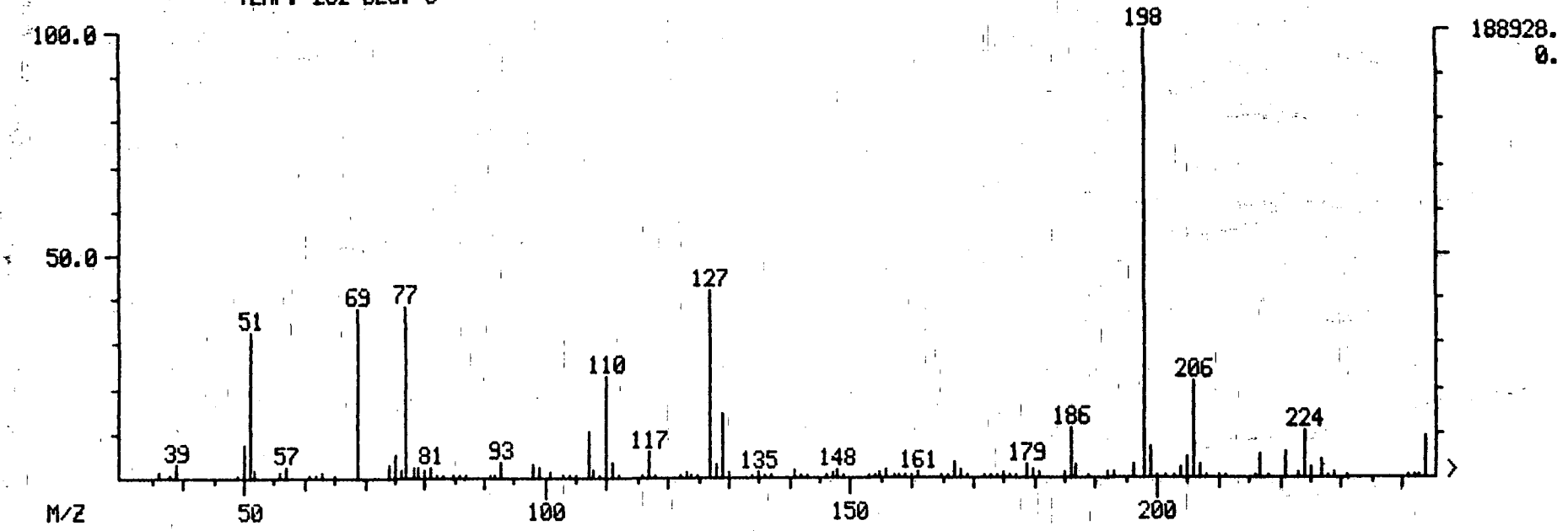


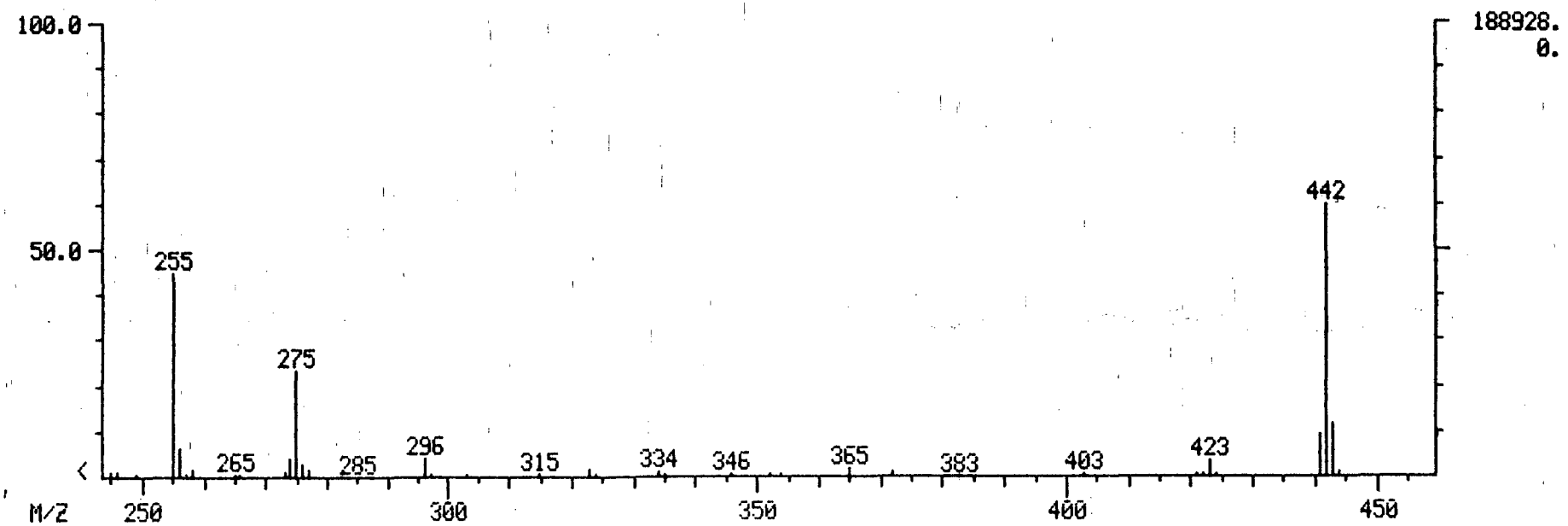
000452

MASS SPECTRUM
11/13/90 12:19:00 + 6:41
SAMPLE: DFTPP-D TUNE 11/13/90
CONDS.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
TEMP: 262 DEG. C

DATA: DFTPPD1113P #668
CALI: CALTAB #3

BASE M/Z: 198
RIC: 1329150.





000453

Mass List Data: DFTPPD1113P # 668 Base m/z: 198
11/13/90 12:19:00 + 6:41 Cali: CALTAB # 3 RIC: 1329150.

000454

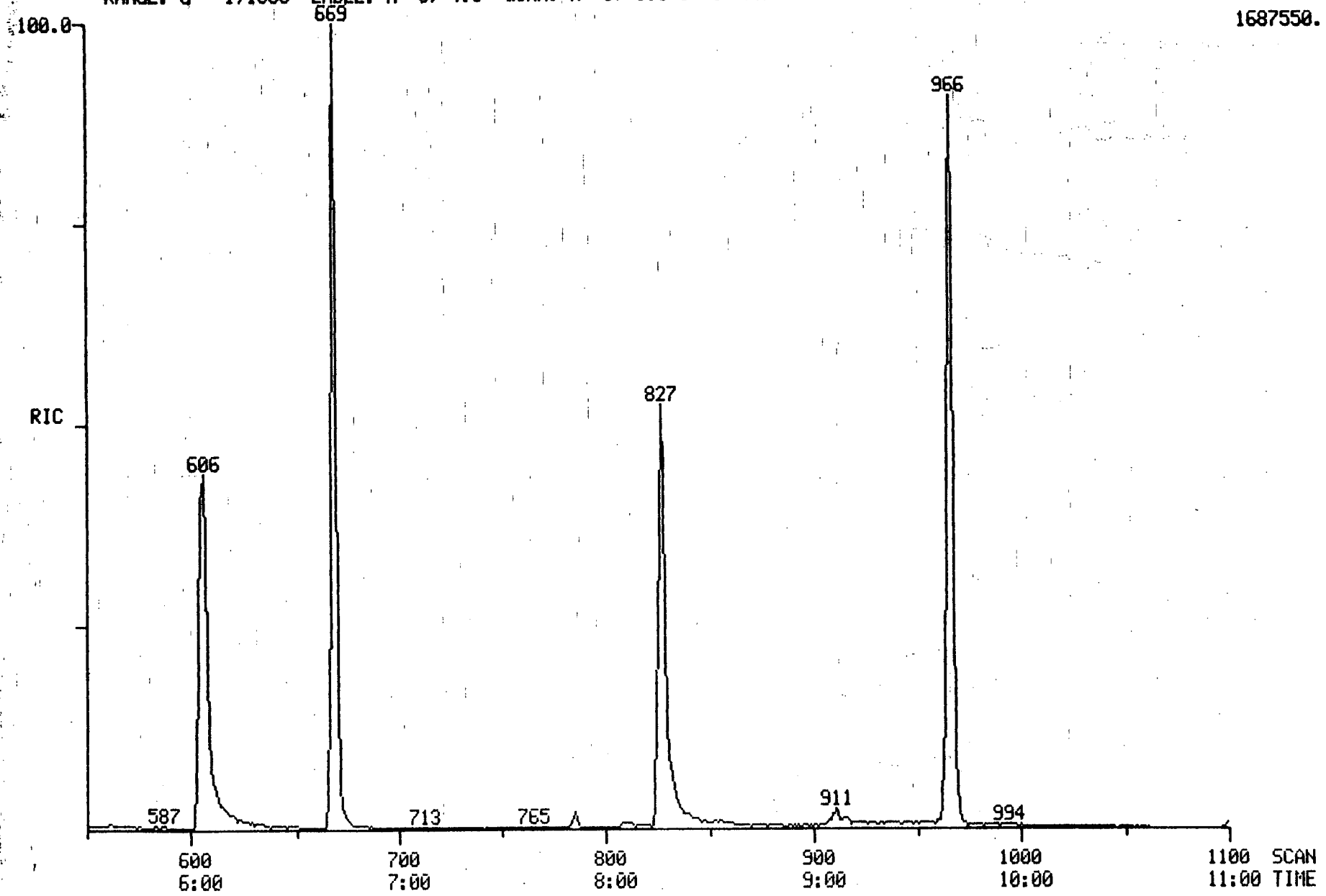
Sample: DFTPP-D TUNE 11/13/90
Conds.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT

35 0.00 0. Minima Min Inten: 1090.
444 Maxima # 0

Mass	% RA	Inten.	Mass	% RA	Inten.
35.94	0.91	1728.	173.91	0.72	1360.
37.94	0.75	1424.	174.95	1.30	2464.
38.94	2.86	5408.	176.91	0.64	1216.
49.93	7.84	14816.	178.87	2.76	5216.
50.93	32.52	61440.	179.91	1.94	3664.
51.93	1.70	3216.	180.91	1.02	1936.
55.91	0.91	1712.	184.92	1.21	2288.
56.91	2.26	4272.	185.94	10.86	20512.
62.92	1.30	2464.	186.94	2.95	5568.
64.94	0.71	1344.	191.89	0.89	1680.
68.87	37.60	71040.	192.91	1.02	1920.
73.92	2.96	5600.	195.97	2.97	5616.
74.90	5.32	10048.	197.87	100.00	188928.
75.95	1.85	3488.	198.89	6.83	12912.
76.93	38.28	72320.	203.91	2.47	4672.
77.96	2.49	4704.	204.91	4.54	8576.
78.91	2.13	4032.	205.92	21.34	40320.
79.89	1.66	3136.	206.92	2.78	5248.
80.91	2.52	4752.	210.95	0.83	1568.
81.92	0.58	1104.	216.84	5.12	9664.
82.93	0.63	1184.	217.87	0.72	1360.
85.87	0.82	1552.	221.00	5.68	10736.
92.91	3.43	6480.	222.87	1.04	1968.
97.87	2.74	5168.	223.92	10.47	19776.
98.89	2.17	4096.	224.92	2.60	4912.
100.91	1.41	2672.	226.87	3.94	7440.
103.91	0.68	1280.	227.89	0.59	1120.
104.94	0.66	1248.	228.84	0.96	1808.
106.92	10.26	19392.	243.92	9.33	17632.
107.91	1.64	3104.	244.92	1.11	2096.
109.91	22.83	43136.	245.91	1.23	2320.
110.91	3.29	6208.	254.89	44.85	84736.
116.89	6.03	11392.	255.91	6.45	12192.
121.88	0.69	1296.	257.91	1.80	3392.
122.90	1.08	2048.	264.87	0.86	1632.
126.91	41.73	78848.	272.91	1.32	2496.
127.92	3.02	5712.	273.91	3.79	7168.
128.89	14.53	27456.	274.91	23.48	44352.
129.89	1.24	2336.	275.91	3.12	5904.
134.91	1.30	2464.	276.87	1.54	2912.
136.92	0.58	1104.	295.87	4.26	8048.
140.89	1.77	3344.	322.91	1.84	3472.
141.94	0.59	1120.	333.91	1.03	1952.
146.91	0.98	1856.	364.84	1.88	3552.
147.87	1.79	3376.	371.91	0.95	1792.
154.92	0.92	1744.	422.91	3.53	6672.
155.94	1.58	2976.	423.91	0.64	1216.
160.92	0.88	1664.	440.91	9.16	17312.
164.89	0.67	1264.	441.91	60.16	113664.
166.91	3.46	6544.	442.91	11.81	22304.
167.89	1.61	3040.	443.91	1.08	2048.

RIC
11/13/90 12:19:00
SAMPLE: DFTPP-D TUNE 11/13/90
CONDS.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

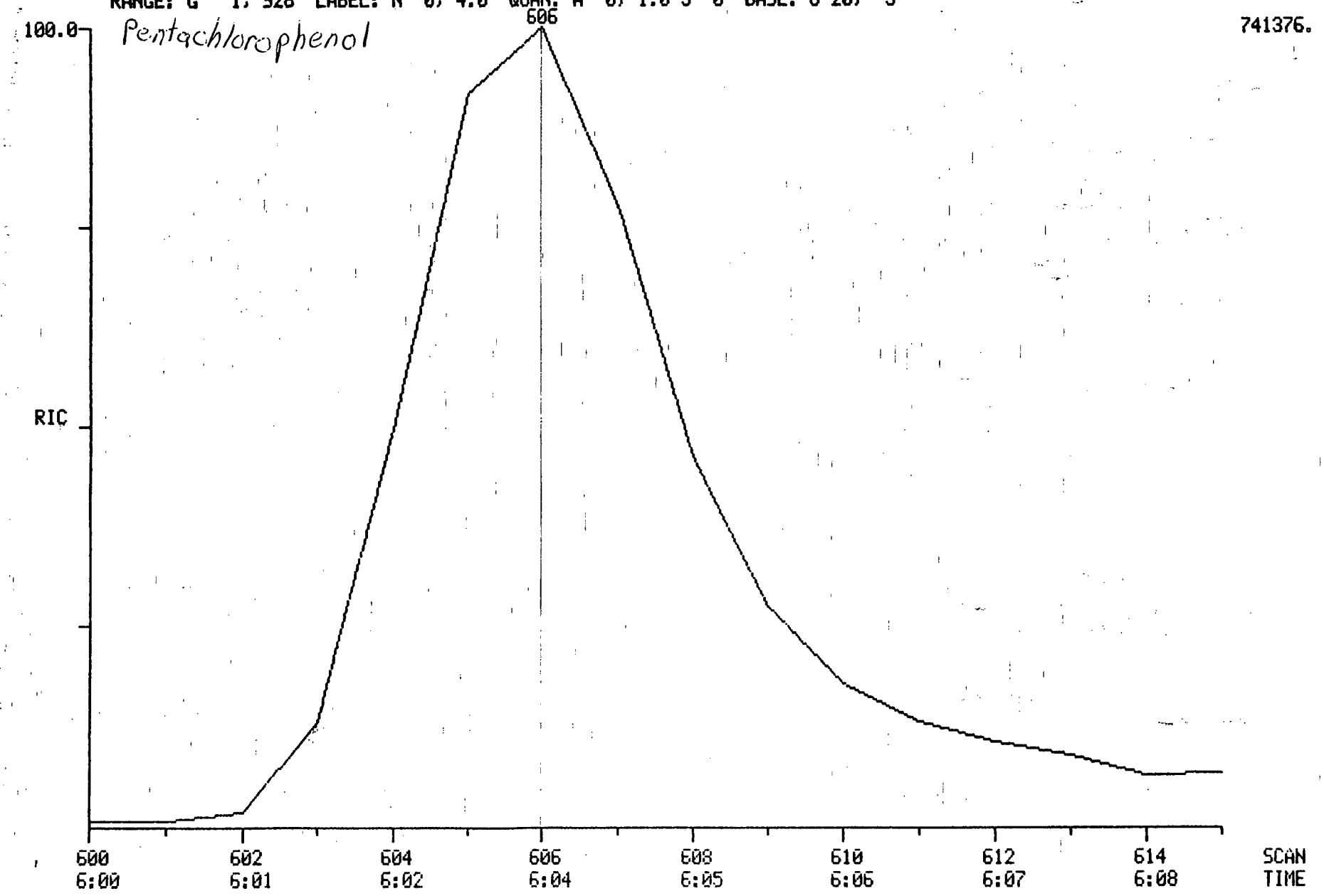
DATA: DFTPPD1113P #1 SCANS 550 TO 1100
CALI: DFTPPD1113P #3



000455

RIC
11/13/90 12:19:00
SAMPLE: DFTPP-D TUNE 11/13/90
CONDS.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
RANGE: G 1, 928 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

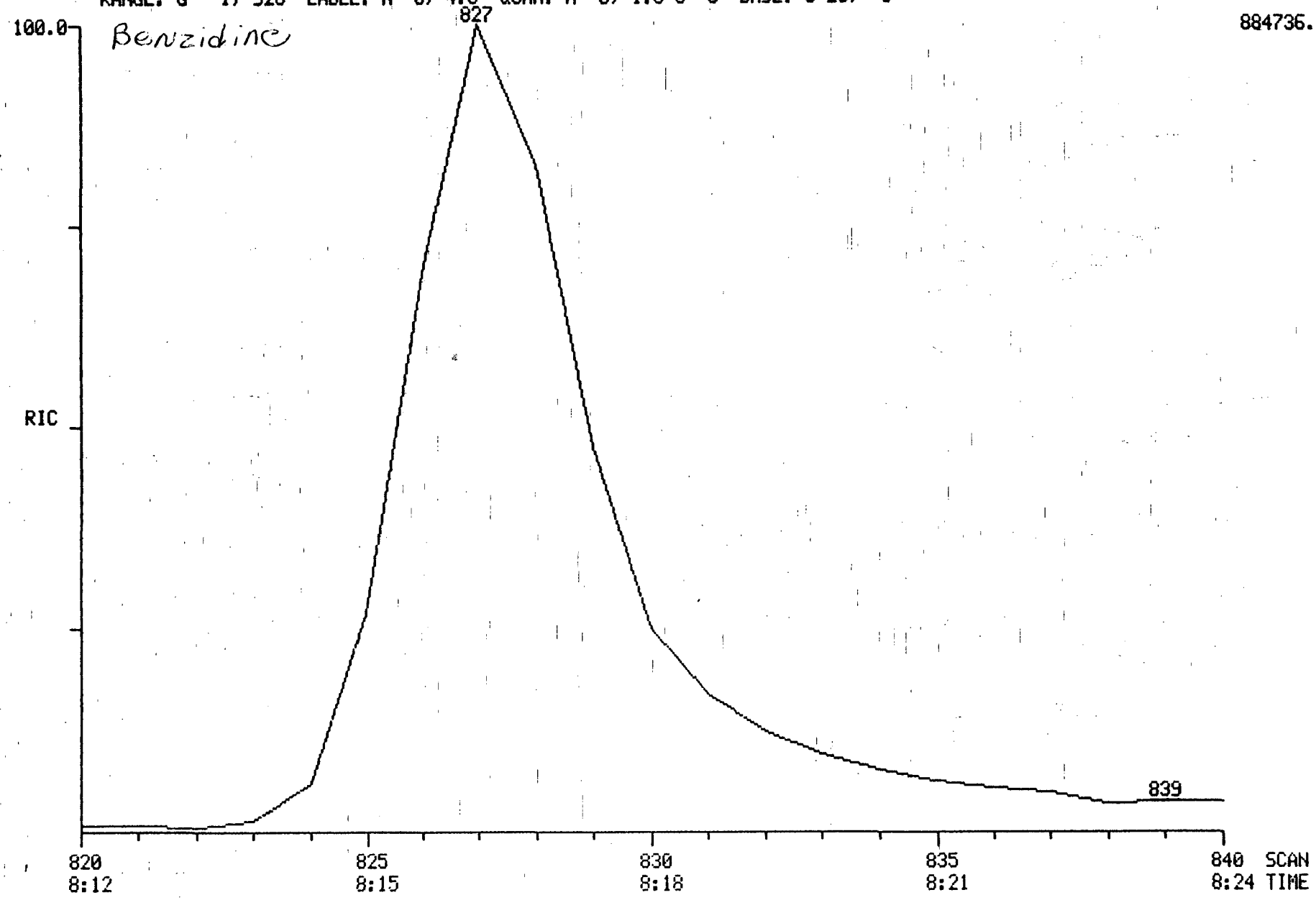
DATA: DFTPPD1113P #668 SCANS 600 TO 615
CALI: CALTAB #3



000456

RIC
11/13/90 12:19:00
SAMPLE: DFTPP-D TUNE 11/13/90
CONDS.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
RANGE: G 1, 928 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: DFTPPD1113P #668 SCANS 820 TO 840
CALI: CALTAB #3



000457

Quantitation Report File: DFTPPD1113P

Data: DFTPPD1113P.TI
11/13/90 12:19:00
Sample: DFTPP-D TUNE 11/13/90
Conds.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: DFTPPD11

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

No	Name
1	4,4'-DDT
2	4,4'-DDD
3	4,4'-DDE

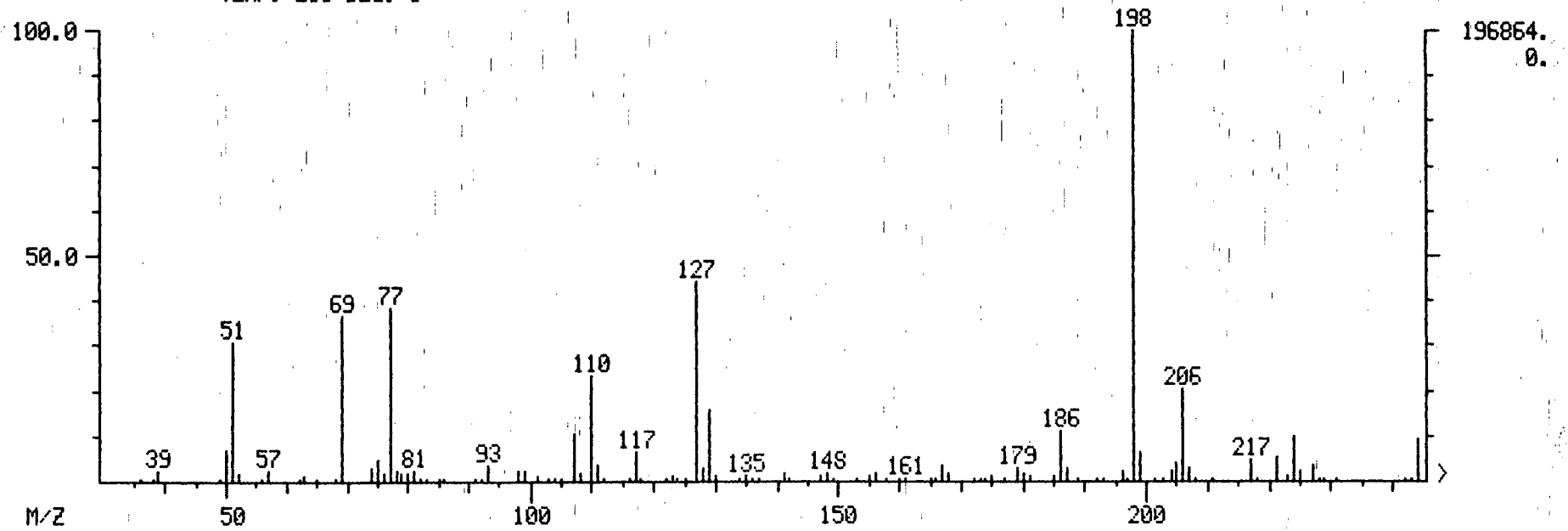
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	235	966	9:40	1	1.000	A BB	1002720.	100.000 %	97.04
2	235	910	9:06	1	0.942	A BV	26701.	2.663 %	2.58
3	246	855	8:33	1	0.885	A BB	3920.	0.391 %	0.38

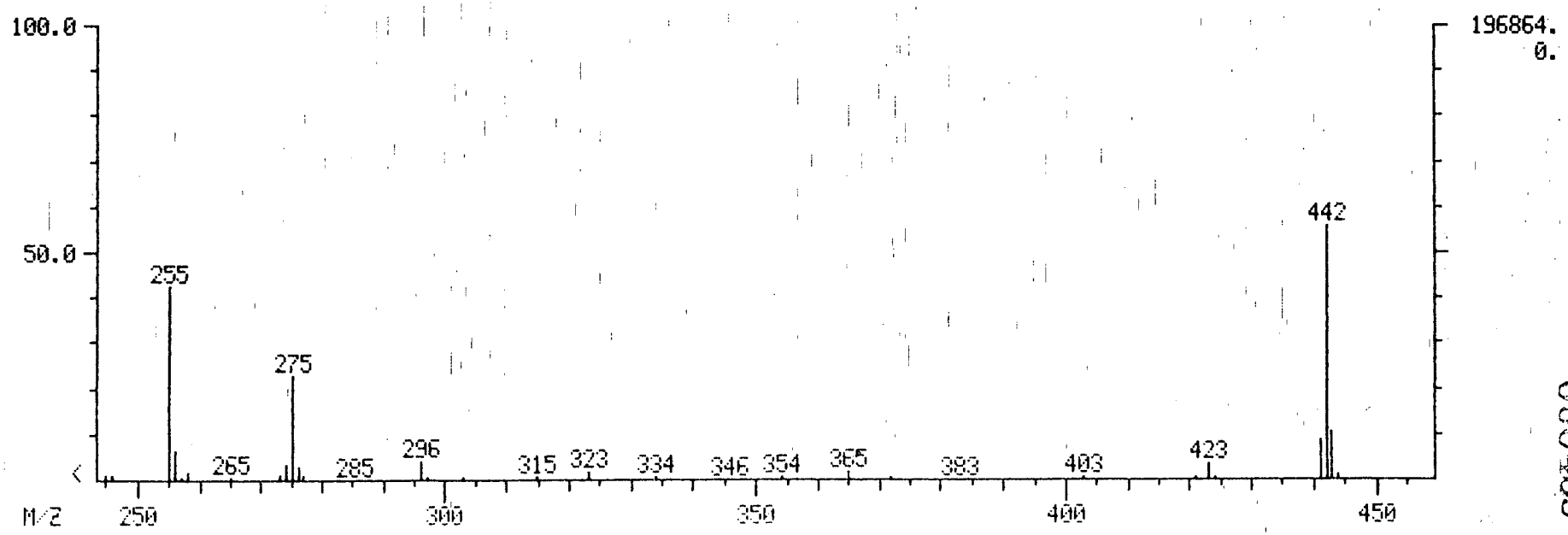
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:14	1.05	1.000	1.00	100.00	100.00	1.000	1.000	1.00
2	8:44	1.04	0.946	1.00	2.66	100.00	0.027	1.000	0.03
3	41:25	0.21	1.245	0.71	0.39	100.00	0.004	1.000	0.00

MASS SPECTRUM
11/15/90 9:05:00 + 6:38
SAMPLE: DFTPP-D TUNE 11/15/90
CONDS.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
TEMP: 260 DEG. C

DATA: DFTPPD1115A #663
CALI: CALTAB #3

BASE M/Z: 198
RIC: 1325060.





000459

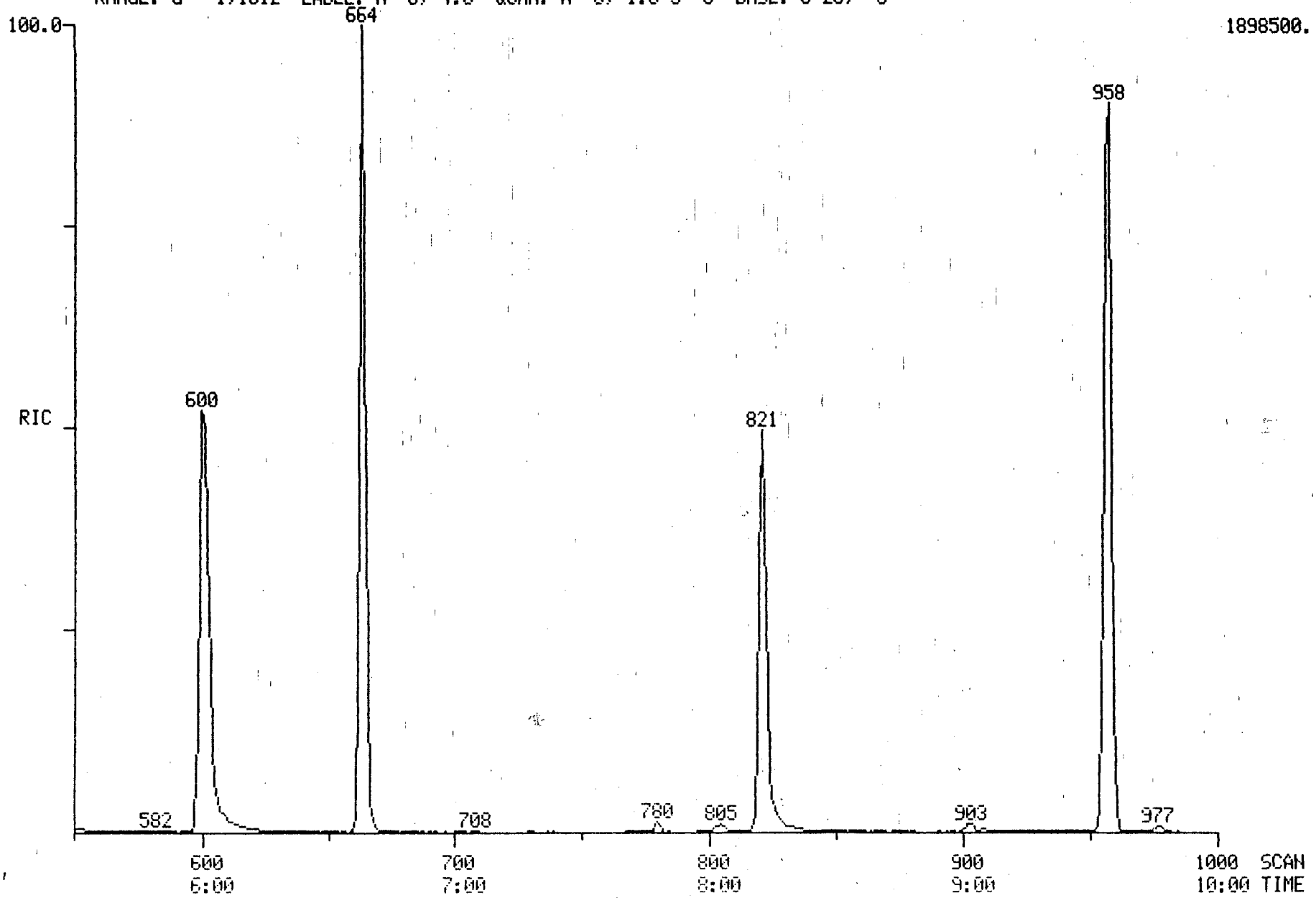
Mass List Data: DFTPPD1115A # 663 Base m/z: 198 000460
11/15/90 9:05:00 + 6:38 Cali: CALTAB # 3 RIC: 1325060.
Sample: DFTPP-D TUNE 11/15/90
Conds.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT

36 0.00 0. Minima Min Inten: 913.
444 Maxima # 0

Mass	% RA	Inten.	Mass	% RA	Inten.
36.02	0.71	1392.	175.02	1.26	2480.
38.02	0.51	1008.	176.98	0.51	1008.
39.04	2.39	4704.	178.95	2.73	5376.
50.01	7.15	14080.	180.00	1.77	3488.
51.01	30.53	60096.	180.98	0.93	1840.
52.00	1.54	3024.	184.98	1.18	2320.
55.96	0.83	1632.	186.02	10.89	21440.
57.00	2.20	4336.	187.00	2.92	5744.
63.00	1.11	2192.	191.98	0.76	1504.
65.00	0.55	1088.	193.00	0.80	1584.
68.96	36.80	72448.	196.00	2.58	5072.
74.00	2.76	5440.	197.95	100.00	196864.
74.98	4.93	9712.	198.95	6.58	12944.
76.02	1.67	3296.	203.98	2.40	4720.
77.01	38.17	75136.	205.00	4.36	8576.
78.02	2.37	4672.	206.00	20.55	40448.
78.98	1.93	3808.	207.00	2.75	5408.
79.97	1.54	3024.	207.95	0.50	992.
80.98	2.37	4672.	210.80	0.81	1600.
83.02	0.59	1168.	216.92	4.88	9600.
85.96	0.59	1168.	217.94	0.64	1264.
92.98	3.32	6528.	221.11	5.19	10208.
97.98	2.41	4736.	222.95	0.91	1792.
98.97	2.20	4336.	224.02	10.14	19968.
100.98	1.44	2832.	225.00	2.43	4784.
103.99	0.60	1184.	226.95	3.65	7184.
105.01	0.63	1232.	228.95	0.81	1600.
106.99	10.73	21120.	244.00	9.27	18240.
108.00	1.58	3120.	245.02	1.06	2080.
109.98	23.37	46016.	245.95	1.17	2304.
110.98	3.36	6624.	254.97	42.59	83840.
116.97	6.20	12208.	255.98	6.31	12416.
121.95	0.58	1136.	257.97	1.61	3168.
122.96	1.05	2064.	264.97	0.70	1376.
126.98	44.08	86784.	272.97	1.06	2096.
127.99	3.19	6272.	274.00	3.62	7120.
128.98	15.59	30688.	274.97	22.56	44416.
129.98	1.20	2368.	275.97	2.86	5632.
134.95	1.26	2480.	276.94	1.38	2720.
137.02	0.54	1072.	295.97	3.80	7472.
140.97	1.70	3344.	323.00	1.61	3168.
146.97	0.93	1840.	333.97	0.78	1536.
147.95	1.91	3760.	364.94	1.64	3232.
155.00	0.93	1824.	371.97	0.78	1536.
156.02	1.54	3024.	422.97	3.41	6704.
159.98	0.57	1120.	423.97	0.49	960.
160.98	0.87	1712.	441.00	8.60	16928.
164.98	0.60	1184.	441.97	55.66	109568.
167.00	3.51	6912.	442.97	10.63	20928.
167.98	1.61	3168.	444.00	0.91	1792.
173.98	0.67	1312.			

RIC
11/15/90 9:05:00
SAMPLE: DFTPP-D TUNE 11/15/90
CONDS.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
RANGE: G 1,1012 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: DFTPPD1115A #663 SCANS 550 TO 1000
CALI: CALTAB #3

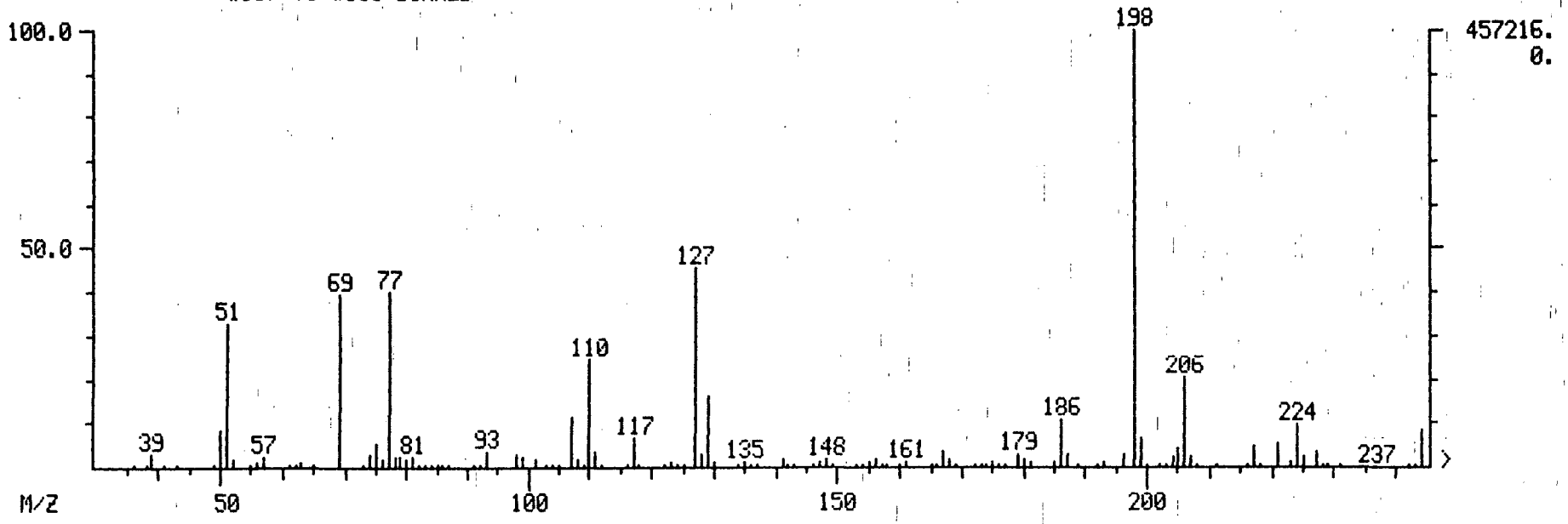


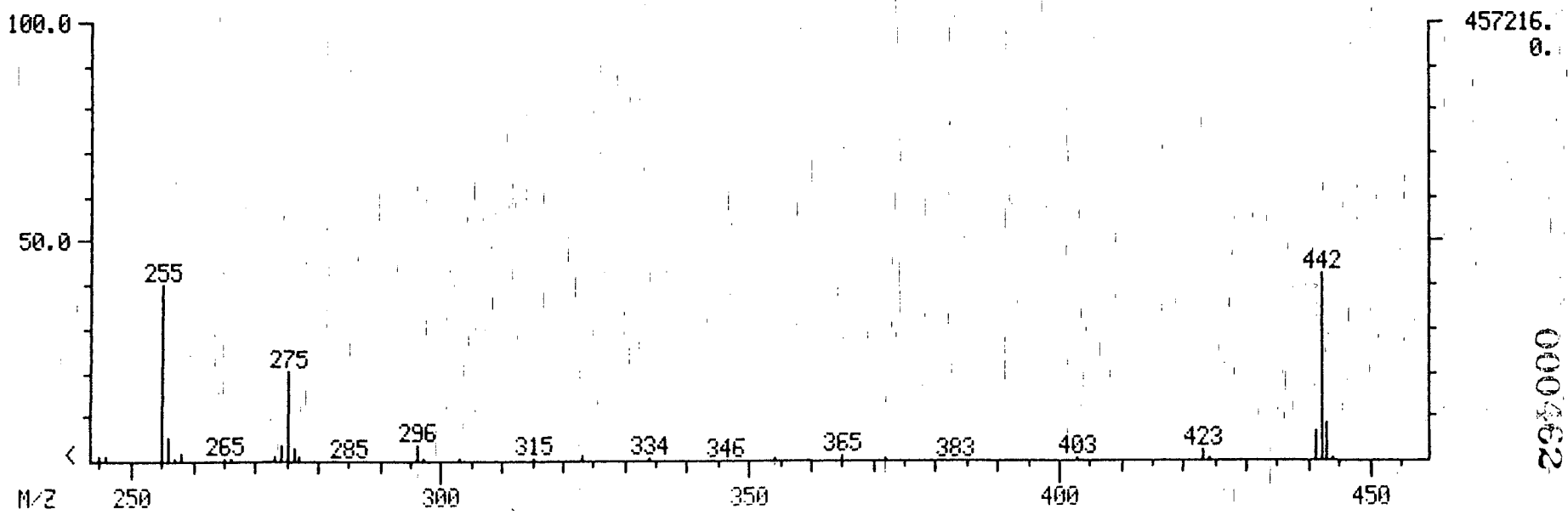
000461

MASS SPECTRUM
11/16/90 10:40:00 + 6:34
SAMPLE: DFTPP-D TUNE 11/16/90
CONDS.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
TEMP: 260 DEG. C
#657 TO #658 SUMMED

DATA: DFTPPD1116A #657
CALI: CALTAB #3

BASE M/Z: 198
RIC: 3080190.





000462

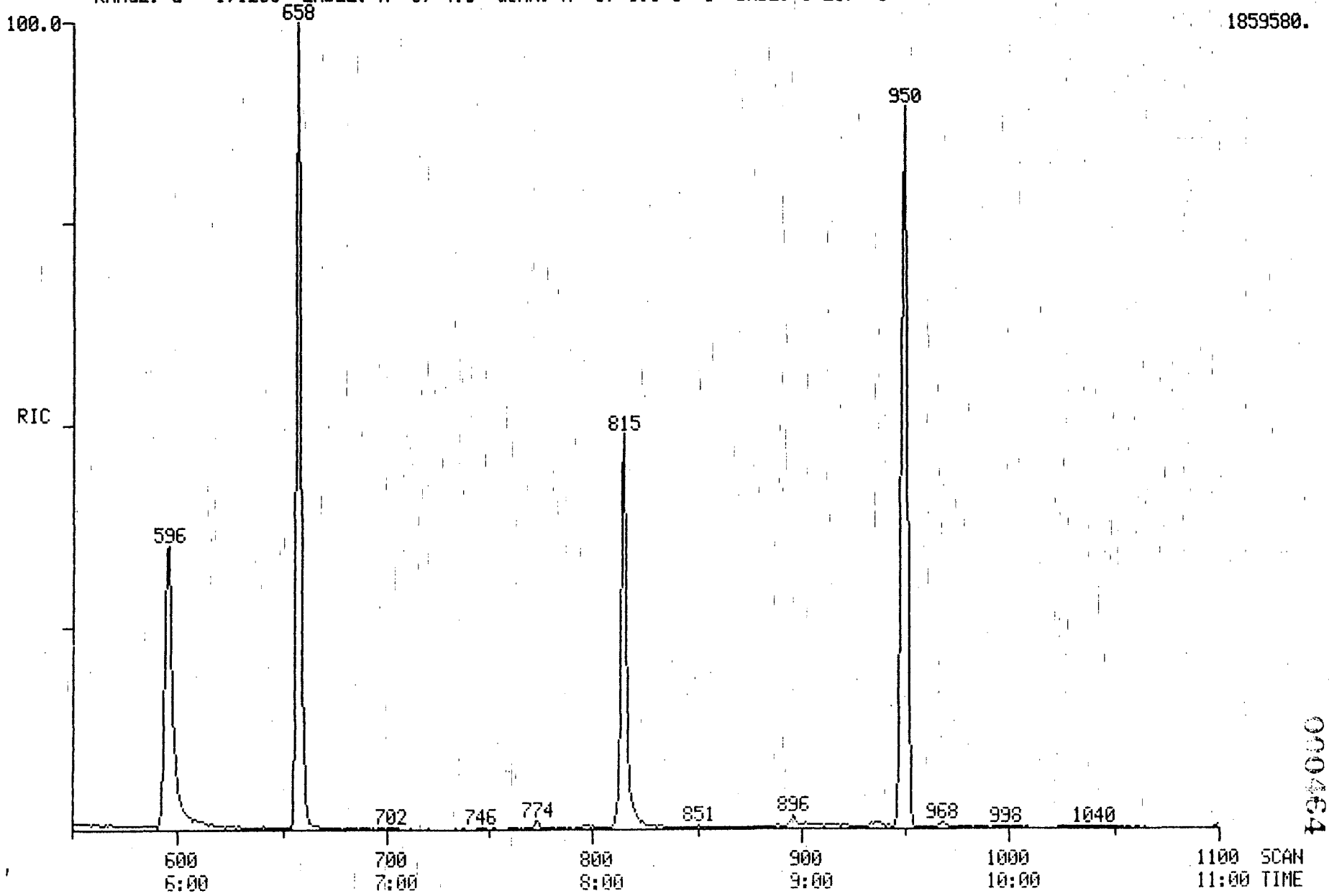
Mass List Data: DFTPPD1116A # 657 Base m/z: 198 000463
11/16/90 10:40:00 + 6:34 Cali: CALTAB # 3 RIC: 3080190.
Sample: DFTPP-D TUNE 11/16/90
Conds.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
#657 to #658 summed

35 0.00 0. Minima Min Inten: 2776.
444 Maxima # 0

Mass	% RA	Inten.	Mass	% RA	Inten.
36.00	0.64	2944.	167.00	3.70	16928.
38.00	0.65	2976.	168.00	1.74	7952.
39.00	2.77	12656.	174.00	0.65	2992.
50.00	8.12	37120.	175.00	1.29	5904.
51.00	33.09	151296.	179.00	2.85	13040.
52.00	1.68	7680.	180.00	1.97	8992.
56.00	1.02	4672.	181.00	1.02	4656.
57.00	2.51	11456.	185.00	1.16	5296.
63.00	1.35	6176.	186.00	10.81	49408.
65.00	0.71	3232.	187.00	2.93	13408.
69.00	39.42	180224.	192.00	0.86	3952.
74.00	3.15	14400.	193.00	0.96	4368.
75.00	5.61	25632.	196.00	2.87	13136.
76.00	1.88	8608.	198.00	100.00	457216.
77.00	40.37	184576.	199.00	6.47	29568.
78.00	2.65	12112.	204.00	2.43	11120.
79.00	2.24	10224.	205.00	4.27	19520.
80.00	1.68	7696.	206.00	20.30	92800.
81.00	2.69	12320.	207.00	2.67	12192.
82.00	0.66	3008.	211.00	0.74	3392.
83.00	0.82	3744.	217.00	4.80	21952.
86.00	0.86	3920.	218.00	0.62	2816.
91.00	0.69	3152.	221.00	5.21	23840.
93.00	3.51	16032.	223.00	0.95	4352.
98.00	2.81	12848.	224.00	9.66	44160.
99.00	2.49	11376.	225.00	2.41	11040.
101.00	1.56	7152.	227.00	3.63	16576.
104.00	0.80	3648.	229.00	0.85	3872.
105.00	0.85	3904.	244.00	8.66	39616.
107.00	11.42	52224.	245.00	1.00	4576.
108.00	1.79	8176.	246.00	1.12	5136.
110.00	24.58	112384.	255.00	40.03	183040.
111.00	3.66	16736.	256.00	5.60	25600.
117.00	6.52	29792.	258.00	1.55	7104.
122.00	0.75	3424.	265.00	0.73	3328.
123.00	1.29	5904.	273.00	1.05	4816.
127.00	45.63	208640.	274.00	3.41	15584.
128.00	3.21	14656.	275.00	20.07	91776.
129.00	15.99	73088.	276.00	2.71	12384.
130.00	1.33	6080.	277.00	1.27	5824.
135.00	1.40	6416.	296.00	3.56	16288.
137.00	0.66	3040.	323.00	1.48	6768.
141.00	1.78	8144.	334.00	0.81	3696.
147.00	1.15	5264.	365.00	1.39	6368.
148.00	1.95	8896.	372.00	0.68	3104.
155.00	1.01	4624.	423.00	2.53	11584.
156.00	1.66	7568.	441.00	6.42	29376.
160.00	0.61	2784.	442.00	42.67	195072.
161.00	0.91	4176.	443.00	8.41	38464.
165.00	0.72	3280.	444.00	0.74	3376.

RIC
11/16/90 10:40:00
SAMPLE: DFTPP-D TUNE 11/16/90
CONDS.: 50NG INJECTION DFTPP, PCP, BENZIDINE, DDT
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: DFTPPD1116A #657 SCANS 550 TO 1100
CALI: CALTAB #3

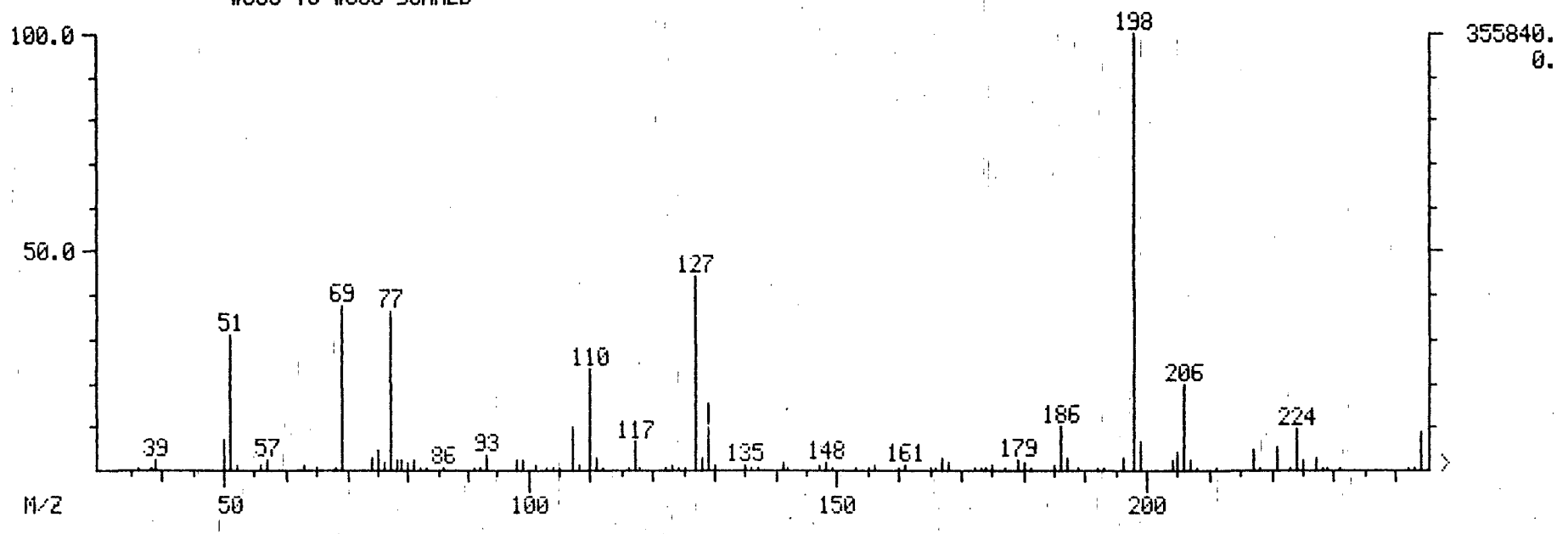


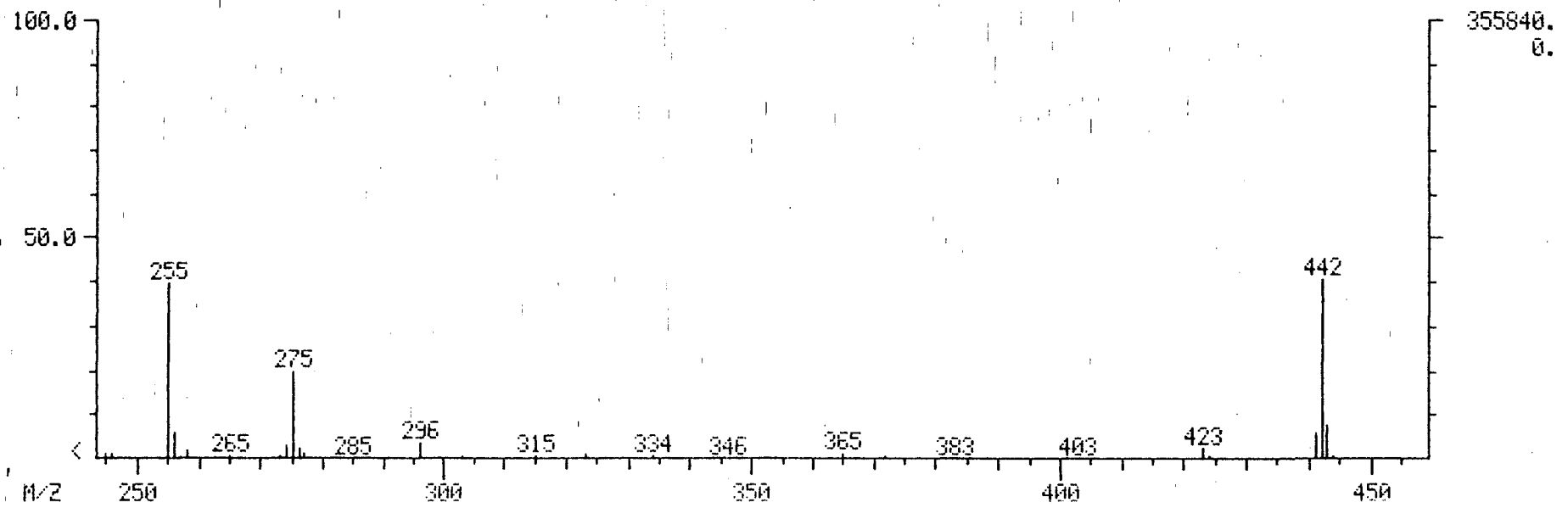
000634

MASS SPECTRUM
11/19/90 19:58:00 + 6:33
SAMPLE: DFTPP-D TUNE 11/19
CONDS.: 50 NG INJECTION DFTPP,PCP,DDT,BENZIDINE
TEMP: 260 DEG. C
#655 TO #656 SUMMED

DATA: DFTPPD1119P #655
CALI: CALTAB #3

BASE M/Z: 198
RIC: 2269180.





000465

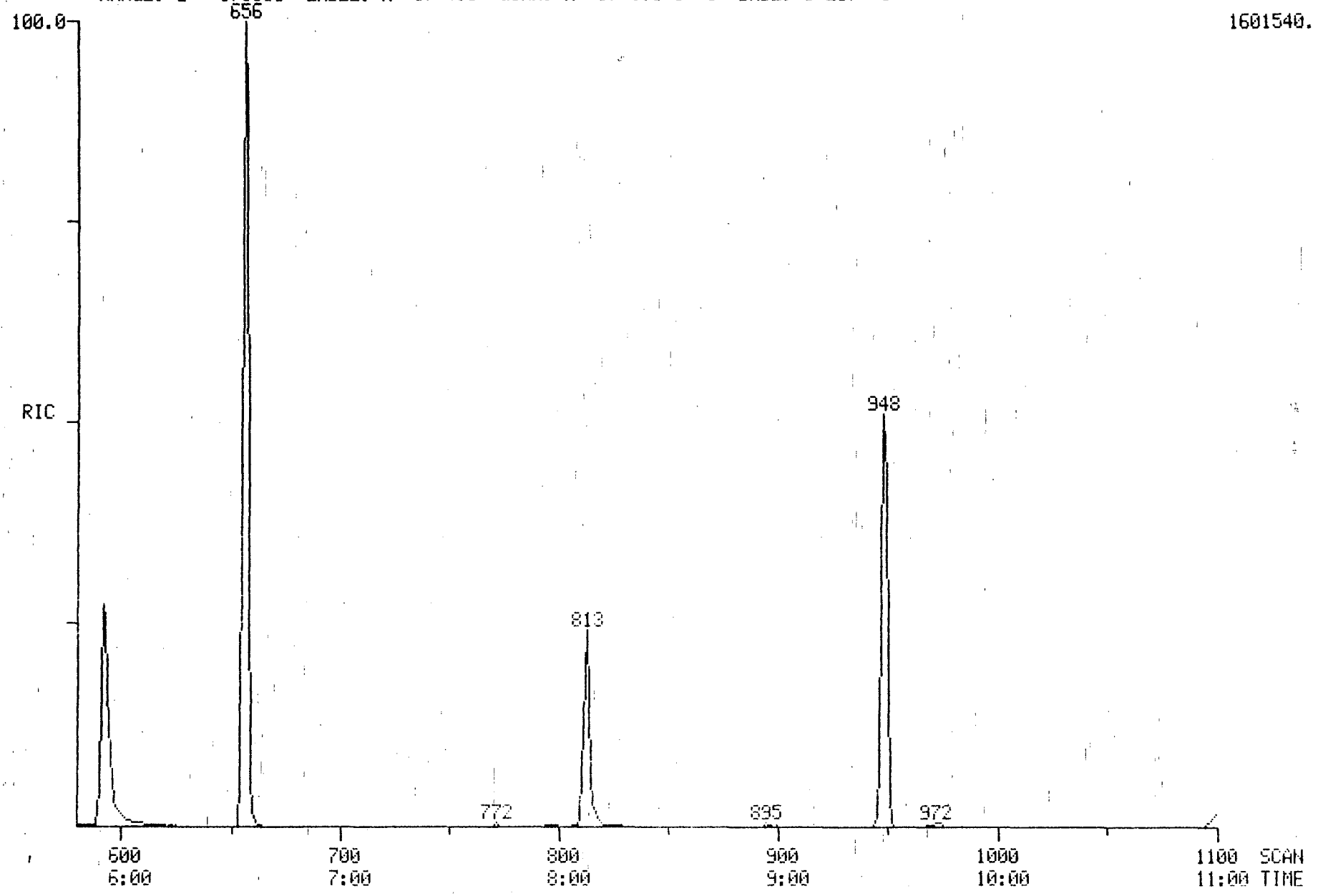
Mass List Data: DFTPPD1119P # 655 Base m/z: 198
11/19/90 19:58:00 + 6:33 Cali: CALTAB # 3 RIC: 2269180.
Sample: DFTPP-D TUNE 11/19
Conds.: 50 NG INJECTION DFTPP,PCP,DDT,BENZIDINE
#655 to #656 summed

36 0.00 0. Minima Min Inten: 1810.
444 Maxima # 0

Mass	% RA	Inten.	Mass	% RA	Inten.
36.00	0.56	1984.	174.00	0.68	2416.
39.00	2.39	8496.	175.00	1.33	4720.
50.00	7.45	26496.	179.00	2.37	8432.
51.00	30.86	109824.	180.00	1.71	6096.
52.00	1.50	5328.	181.00	0.76	2688.
56.00	0.95	3392.	185.00	1.25	4448.
57.00	2.22	7904.	186.00	10.41	37056.
63.00	1.06	3776.	187.00	2.91	10368.
65.00	0.63	2240.	192.00	0.61	2160.
68.00	0.54	1936.	193.00	0.73	2608.
69.00	37.84	134656.	196.00	2.90	10336.
74.00	2.80	9968.	198.00	100.00	355840.
75.00	4.99	17760.	199.00	6.65	23648.
76.00	1.70	6048.	204.00	2.15	7648.
77.00	36.73	130688.	205.00	3.93	14000.
78.00	2.54	9040.	206.00	19.53	69504.
79.00	2.29	8144.	207.00	2.57	9136.
80.00	1.73	6160.	208.00	0.58	2048.
81.00	2.47	8800.	211.00	0.73	2608.
86.00	0.62	2208.	217.00	4.50	16000.
91.00	0.56	1984.	218.00	0.51	1824.
92.00	0.51	1824.	221.00	5.14	18304.
93.00	3.57	12720.	223.00	0.86	3056.
98.00	2.51	8928.	224.00	9.46	33664.
99.00	2.20	7824.	225.00	2.20	7824.
101.00	1.48	5264.	227.00	3.21	11424.
104.00	0.79	2816.	229.00	0.64	2272.
105.00	0.64	2288.	244.00	8.93	31776.
107.00	10.34	36800.	245.00	1.08	3856.
108.00	1.43	5088.	246.00	1.13	4032.
110.00	23.42	83328.	255.00	39.28	139776.
111.00	3.21	11440.	256.00	5.88	20928.
117.00	6.70	23840.	258.00	1.55	5520.
123.00	1.03	3648.	265.00	0.58	2064.
127.00	44.53	158464.	273.00	0.82	2928.
128.00	3.14	11168.	274.00	2.96	10544.
129.00	15.61	55552.	275.00	19.64	69888.
130.00	1.12	3984.	276.00	2.47	8800.
135.00	1.19	4224.	277.00	1.14	4048.
137.00	0.70	2480.	296.00	3.37	12000.
141.00	1.68	5984.	323.00	1.19	4224.
147.00	0.98	3504.	334.00	0.58	2048.
148.00	1.93	6864.	365.00	1.37	4880.
155.00	0.76	2704.	372.00	0.62	2192.
156.00	1.34	4784.	423.00	2.54	9024.
160.00	0.58	2048.	441.00	5.82	20704.
161.00	0.91	3232.	442.00	40.65	144640.
165.00	0.56	2000.	443.00	7.98	28384.
167.00	3.29	11712.	444.00	0.72	2560.
168.00	1.55	5504.			

RIC
11/19/90 19:58:00
SAMPLE: DFTPP-D TUNE 11/19
CONDS.: 50 NG INJECTION DFTPP,PCP,DDT,BENZIDINE
RANGE: G 1,1100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

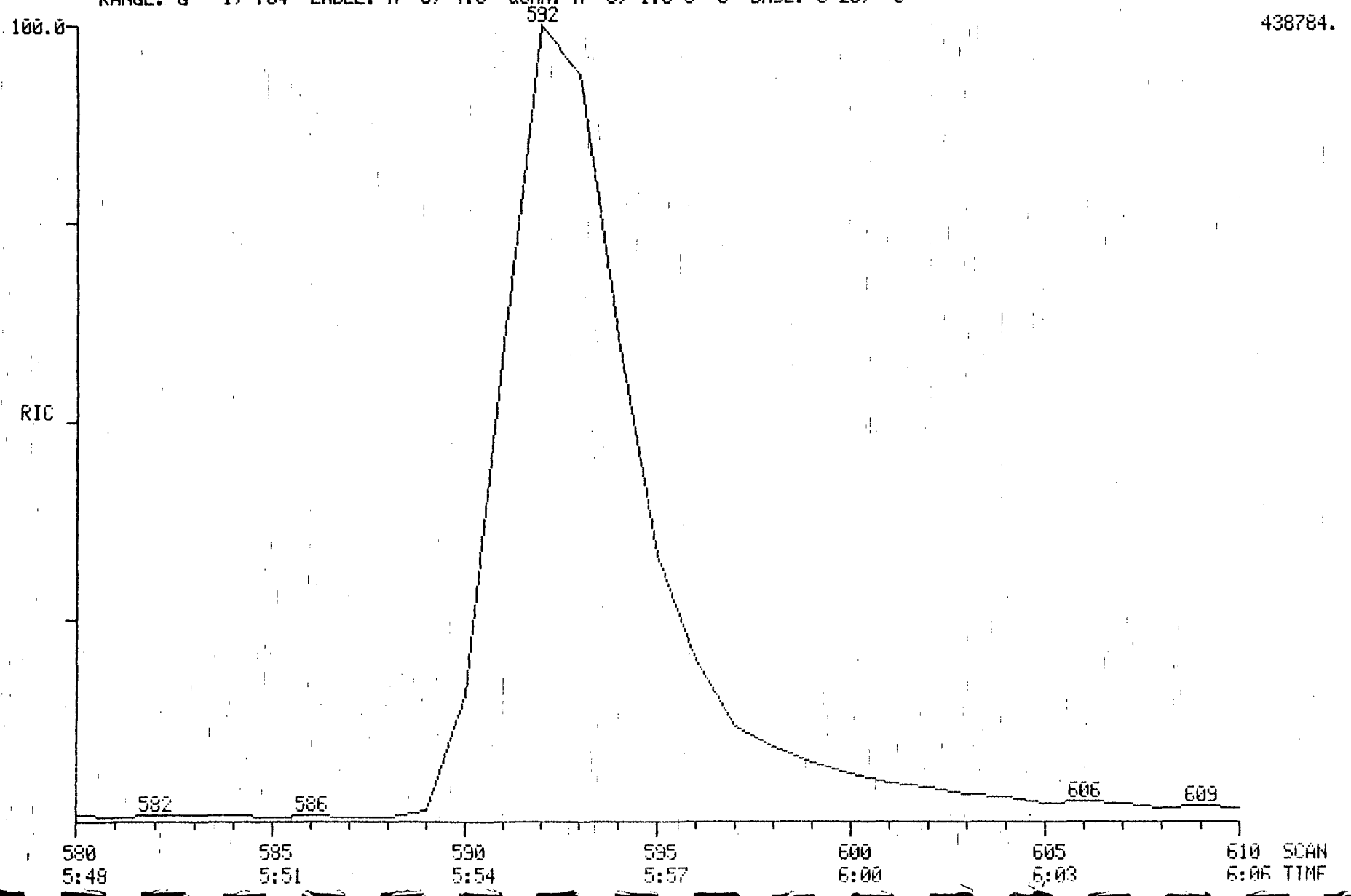
DATA: DFTPPD1119P #1 SCANS 580 TO 1100
CALI: CALTAB #3



000467

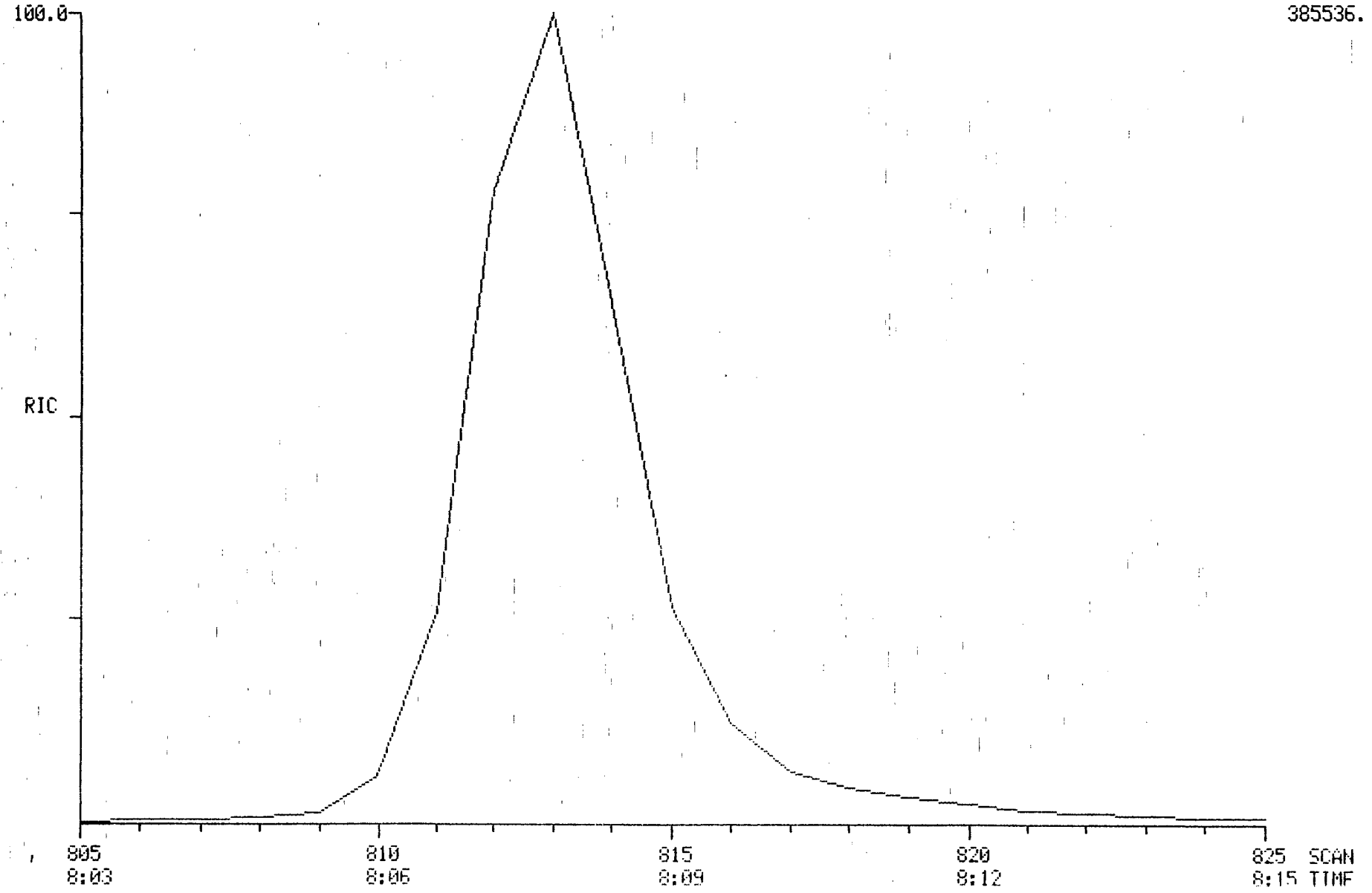
RIC
11/19/90 19:58:00
SAMPLE: DFTPP-D TUNE 11/19
CONDS.: 50 NG INJECTION DFTPP,PCP,DDT,BENZIDINE
C635 PENTACHLOROPHENOL
RANGE: G 1, 784 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: DFTPPD1119P #655 SCANS 580 TO 610
CALI: CALTAB #3



RIC
11/19/90 19:58:00
SAMPLE: DFTPP-D TUNE 11/19
CONDS.: 50 NG INJECTION DFTPP,PCP,DDT,BENZIDINE
C710 BENZIDINE
RANGE: G 1, 784 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: DFTPPD1119P #655 SCANS 805 TO 825
CALI: CALTAB #3



Quantitation Report File: DFTPPD1119P

Data: DFTPPD1119P.TI
11/19/90 19:58:00
Sample: DFTPP-D TUNE 11/19
Conds.: 50 NG INJECTION DFTPP,PCP,DDT,BENZIDINE
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: DFTPPD11

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

No	Name
1	4,4'-DDT
2	4,4'-DDD
3	4,4'-DDE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	235	948	9:29	1	1.000	A BB	456992.	100.000 %	99.94
2	235	907	9:04	1	0.957	A BB	256.	0.056 %	0.06
3	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:14	1.03	1.000	1.00	100.00	100.00	1.000	1.000	1.00
2	8:44	1.04	0.946	1.01	0.06	100.00	0.001	1.000	0.00
3	41:25		1.245						

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

AQ_BLK_11-5

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: BWD1105

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BWD1105R

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
103-33-3	Azobenzene (2)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

AQ_BLK_11-5

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: BWD1105

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BWD1105R

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/05/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/16/90

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

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

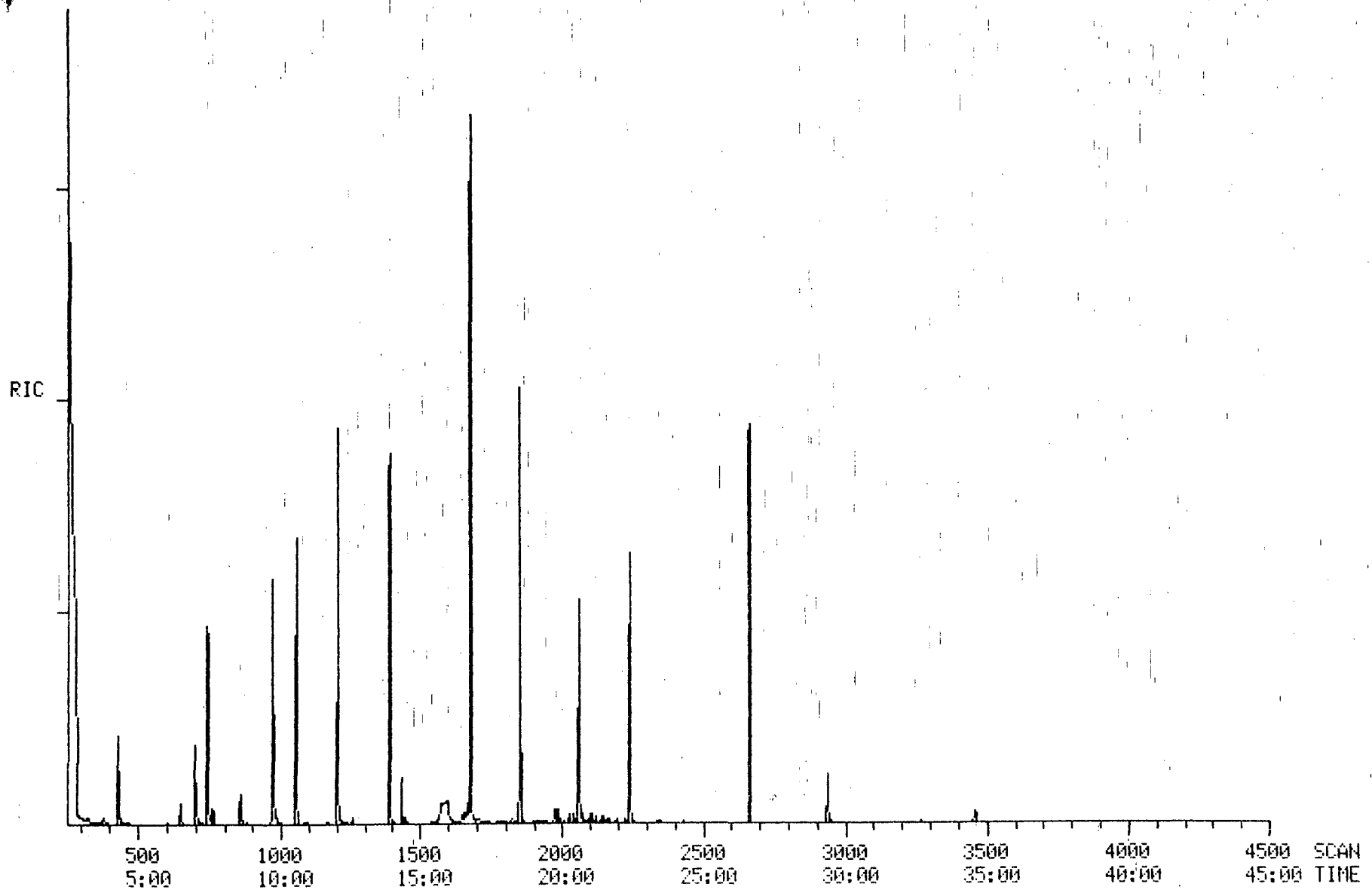
CAS NO.	COMPOUND		Q
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

RIC
11/16/90 17:43:00
SAMPLE: AQ BLK 11/05
CONDS.: 1000MLS/1.0ML
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1105R #1
CALI: CALTAB #3

SCANS 250 TO 4500

3170300.

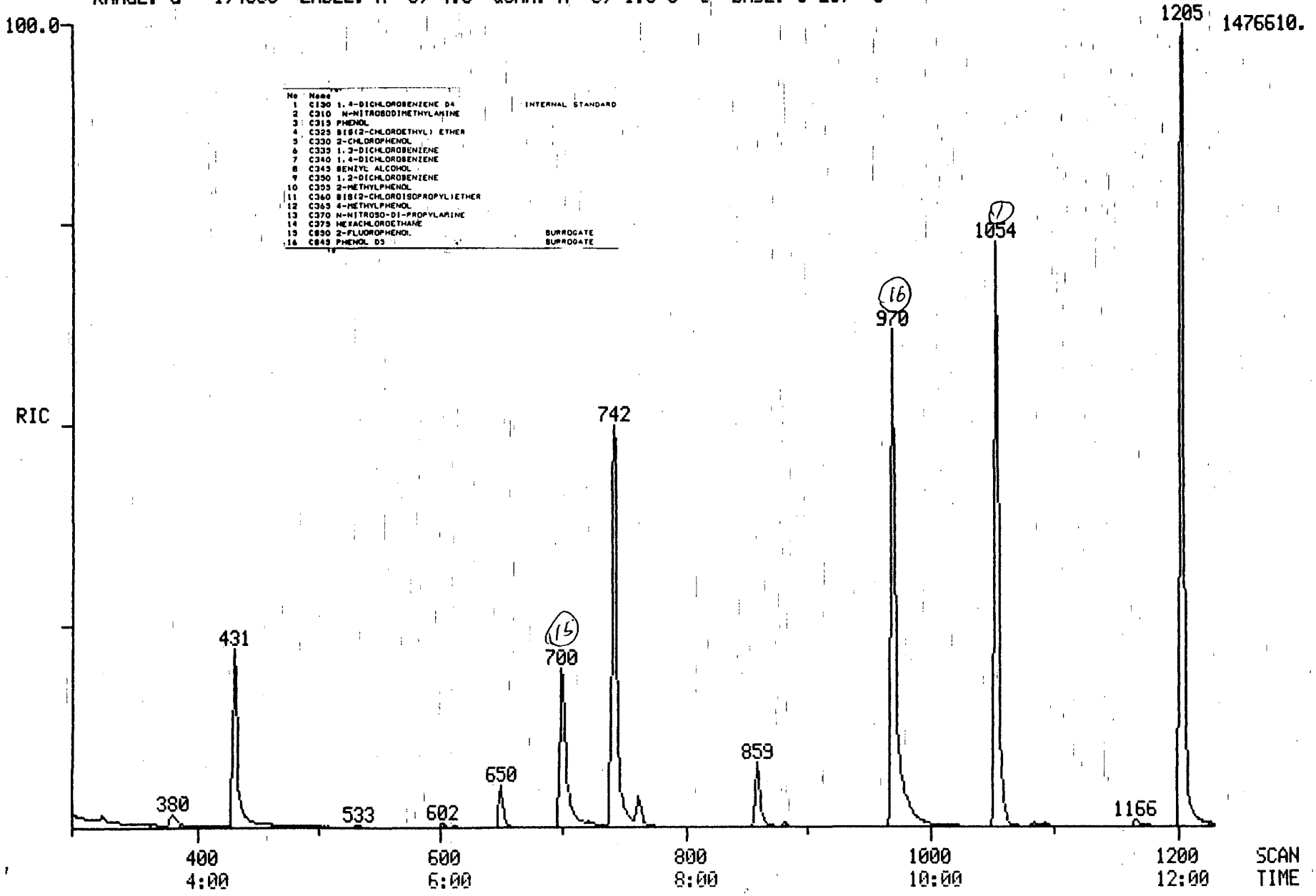


000473

RIC
11/16/90 17:43:00
SAMPLE: AQ BLK 11/05
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1105R #1
CALI: BWD1105R #3

SCANS 300 TO 1230



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C313 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C850 2-FLUOROPHENOL	SURROGATE
16	C849 PHENOL D5	SURROGATE

000474

Quantitation Report File: BWD1105R

000475

Data: BWD1105R.TI
11/16/90 17:43:00
Sample: AQ BLK 11/05
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1105

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

No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	152	1054	10:32	1	1.000	A BB	752896.	40.000	UG/ML	32.83	
2	NOT FOUND										
3	NOT FOUND										
4	NOT FOUND										
5	NOT FOUND										
6	NOT FOUND										
7	NOT FOUND										
8	NOT FOUND										
9	NOT FOUND										
10	NOT FOUND										
11	NOT FOUND										
12	NOT FOUND										
13	NOT FOUND										
14	NOT FOUND										
15	112	700	7:00	1	0.664	A BB	468682.	22.397	UG/L	18.38	Yes WSS
16	99	969	9:41	1	0.919	A BB	1522460.	59.449	UG/ML	48.79	Yes WSS

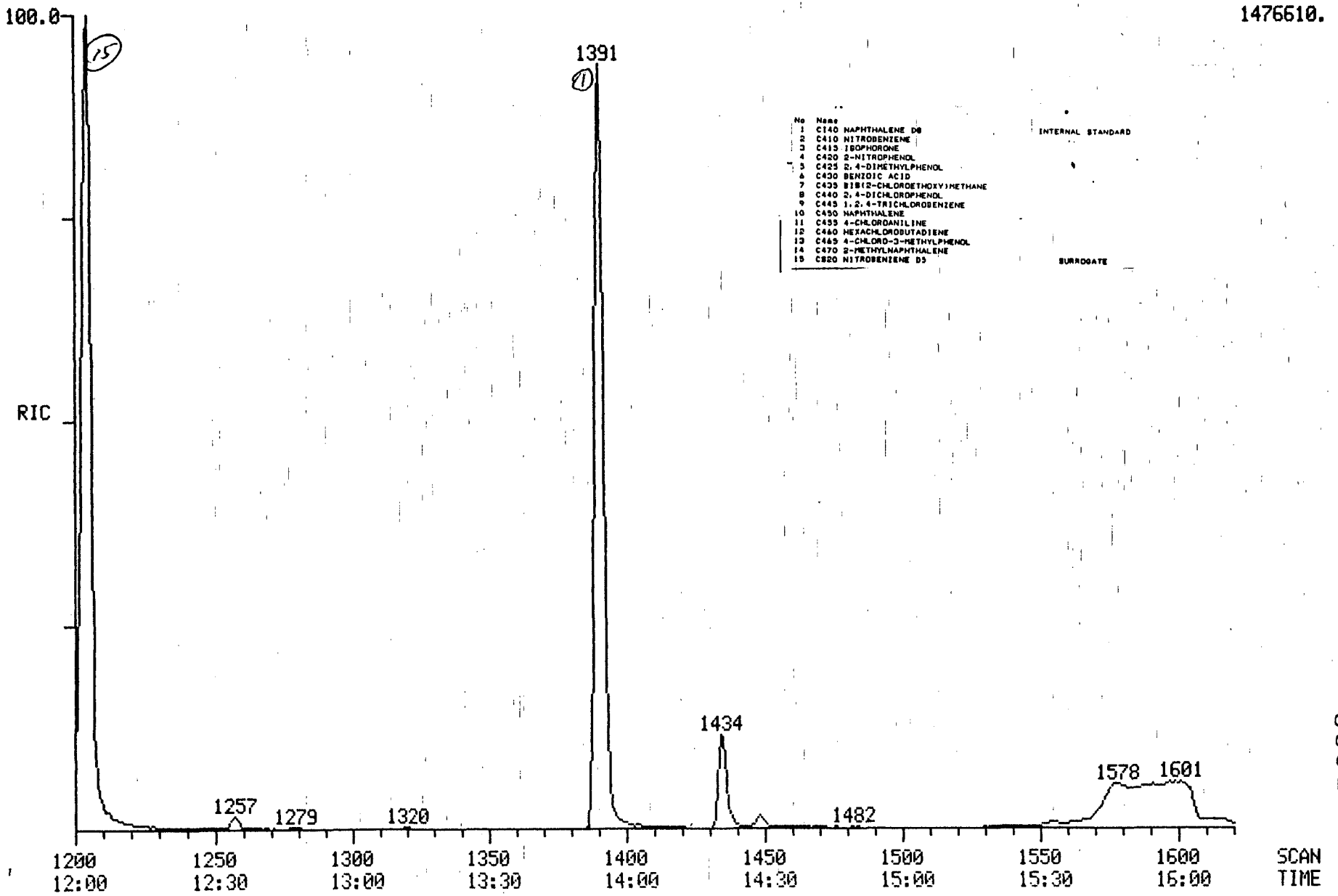
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:27		0.327						
3	9:47		0.926						
4	9:58		0.943						
5	10:01		0.948						
6	10:24		0.985						
7	10:37		1.005						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:02		1.045						
9	10:59		1.041						
10	11:22		1.076						
11	11:23		1.079						
12	11:48		1.117						
13	11:46		1.114						
14	11:53		1.125						
15	7:01	1.00	0.665	1.00	22.40	50.00	0.498	1.112	0.45
16	9:44	0.99	0.922	1.00	59.45	50.00	1.618	1.361	1.19

RIC
11/16/90 17:43:00
SAMPLE: AQ BLK 11/05
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1105R #1
CALI: BWD1105R #3

SCANS 1200 TO 1620



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C820 NITROBENZENE D5	SURROGATE

000277

Quantitation Report File: BWD1105R

000478

Data: BWD1105R.TI
11/16/90 17:43:00
Sample: AQ BLK 11/05
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: BWD1105

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1390	13:54	1	1.000	A BB	2510750.	40.000 UG/ML	34.82
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	128	1396	13:58	1	1.004	A BB	~~1776.~~	~~0.032 UG/ML~~	~~0.03~~ NO WSS
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	82	1205	12:03	1	0.867	A BB	2131520.	74.854 UG/ML	65.16 YES WSS

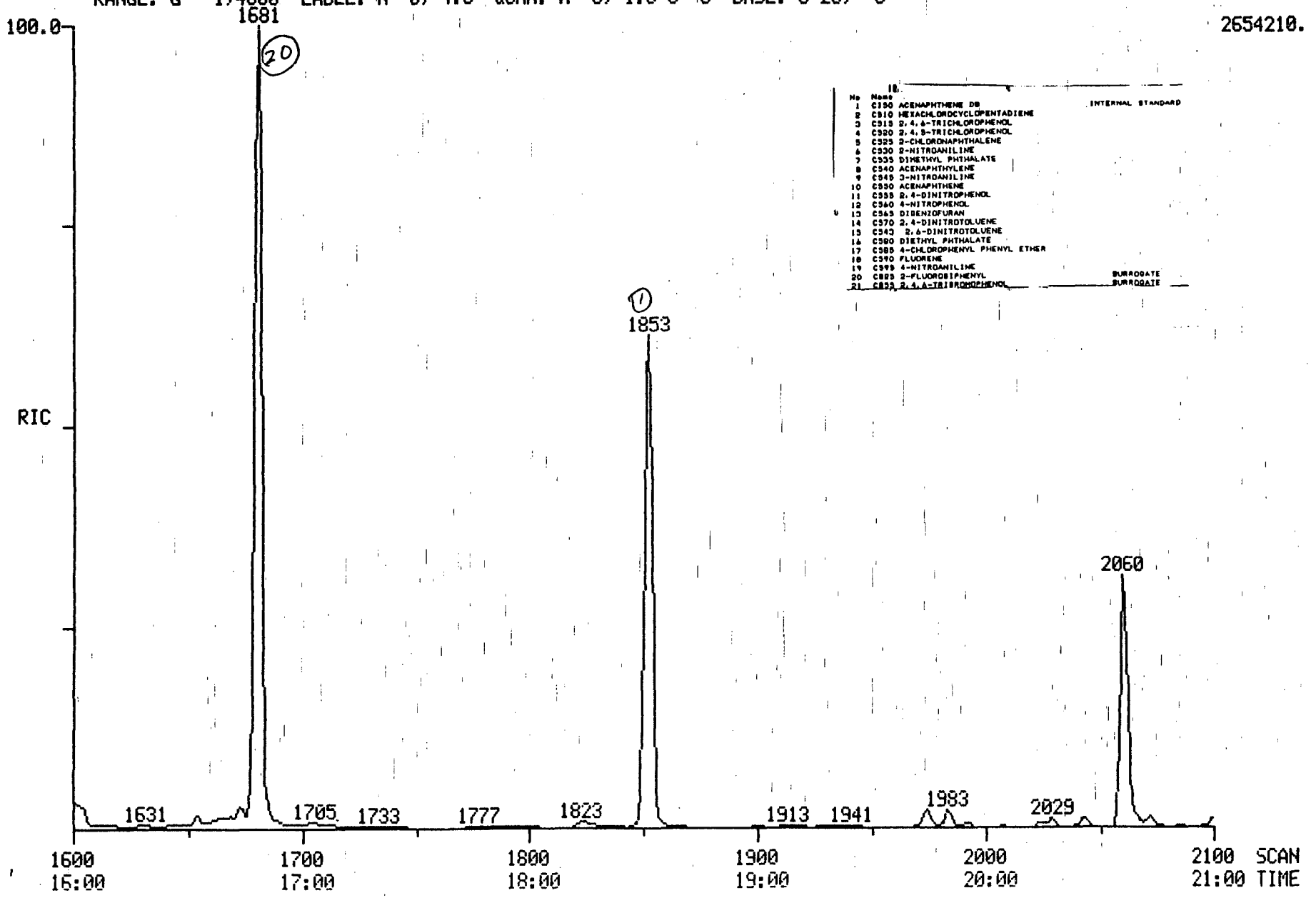
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:08		0.870						
3	12:47		0.918						
4	12:57		0.929						
5	13:11		0.945						
6	13:43		0.984						
7	13:25		0.963						
8	13:38		0.978						
9	13:48		0.990						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	13:59	1.00	1.004	1.00	0.03	50.00	0.001	0.879	0.00
11	14:11		1.018						
12	14:21		1.029						
13	15:32		1.115						
14	15:50		1.136						
15	12:04	1.00	0.866	1.00	74.85	50.00	0.679	0.454	1.50

RIC
11/16/90 17:43:00
SAMPLE: AQ BLK 11/05
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1105R #1
CALI: BWD1105R #3

SCANS 1600 TO 2100



No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C575 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C625 2-FLUOROBIPHENYL	SURROGATE
21	C635 2,4,6-TRIBROMOPHENOL	SURROGATE

000430

Quantitation Report File: BWD1105R

000481

Data: BWD1105R.TI
11/16/90 17:43:00
Sample: AQ BLK 11/05
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1105

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

No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

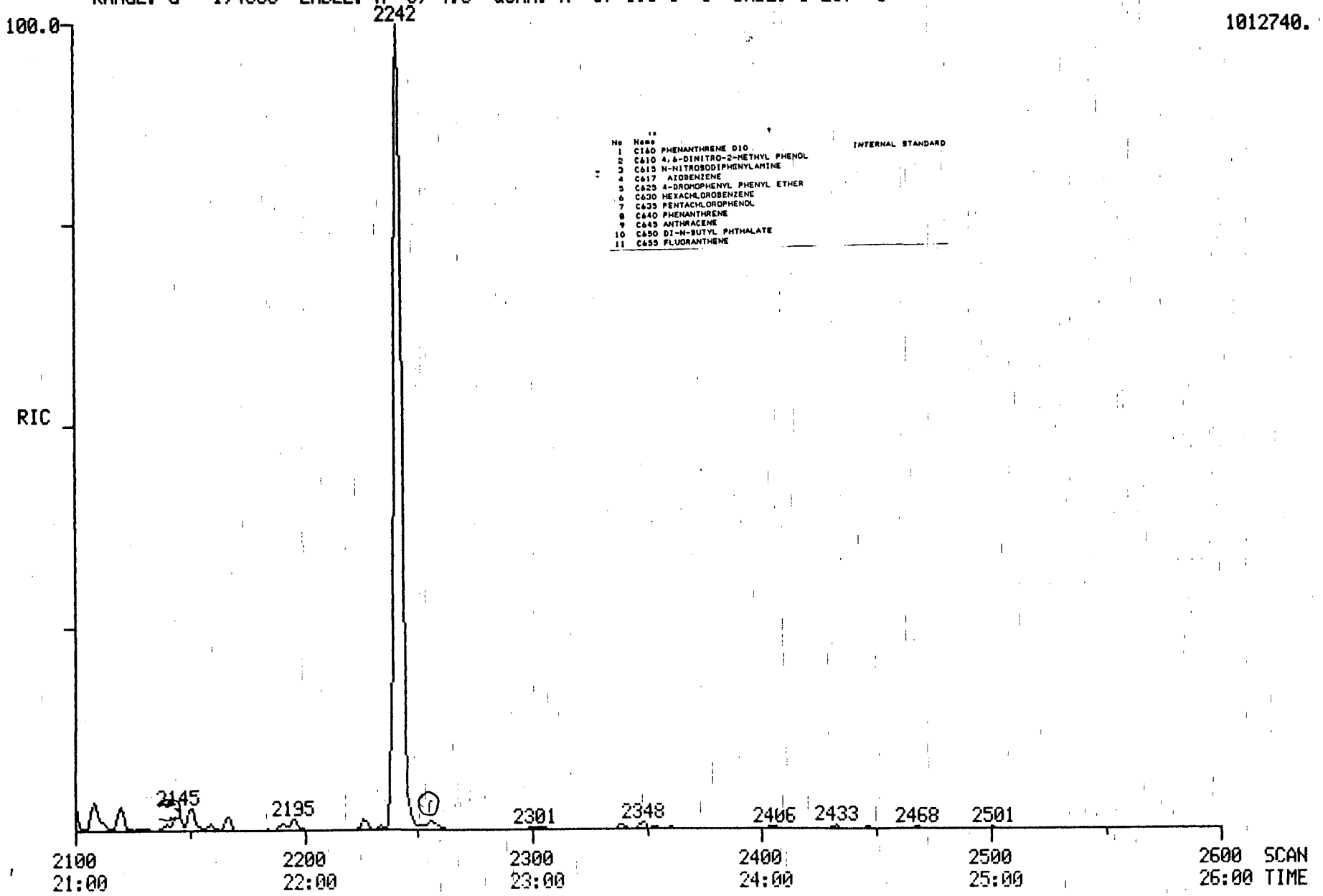
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	164	1853	18:32	1	1.000	A BB	1295540.	40.000 UG/ML	37.06	
2	NOT FOUND									
3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	149	1975	19:45	1	1.066	A BB	~~75440.~~	~~1.847 UG/ML~~	~~1.71~~	NO WSS
17	NOT FOUND									
18	166	1996	19:58	1	1.077	A BB	~~592.~~	~~0.015 UG/ML~~	~~0.01~~	NO WSS
19	NOT FOUND									
20	172	1681	16:49	1	0.907	A BB	2959110.	66.084 UG/ML	61.22	YES WSS
21	NOT FOUND									

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:14		0.875						
3	16:36		0.895						
4	16:42		0.900						
5	17:06		0.922						
6	17:26		0.940						
7	17:57		0.968						
8	18:11		0.980						
9	18:31		0.998						
10	18:38		1.005						
11	18:47		1.012						
12	19:04		1.027						
13	19:06		1.030						
14	19:07		1.031						
15	18:05		0.975						
16	19:49	1.00	1.068	1.00	1.85	50.00	0.047	1.261	0.04
17	20:02		1.080						
18	20:00	1.00	1.078	1.00	0.02	50.00	0.000	1.180	0.00
19	20:08		1.085						
20	16:50	1.00	0.907	1.00	66.08	50.00	1.827	1.383	1.32
21	20:38		1.112						

RIC
11/16/90 17:43:00
SAMPLE: AQ BLK 11/05
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1105R #1
CALI: BWD1105R #3

SCANS 2100 TO 2600



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000483

Quantitation Report File: BWD1105R

000484

Data: BWD1105R.TI
11/16/90 17:43:00
Sample: AQ BLK 11/05
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1105

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

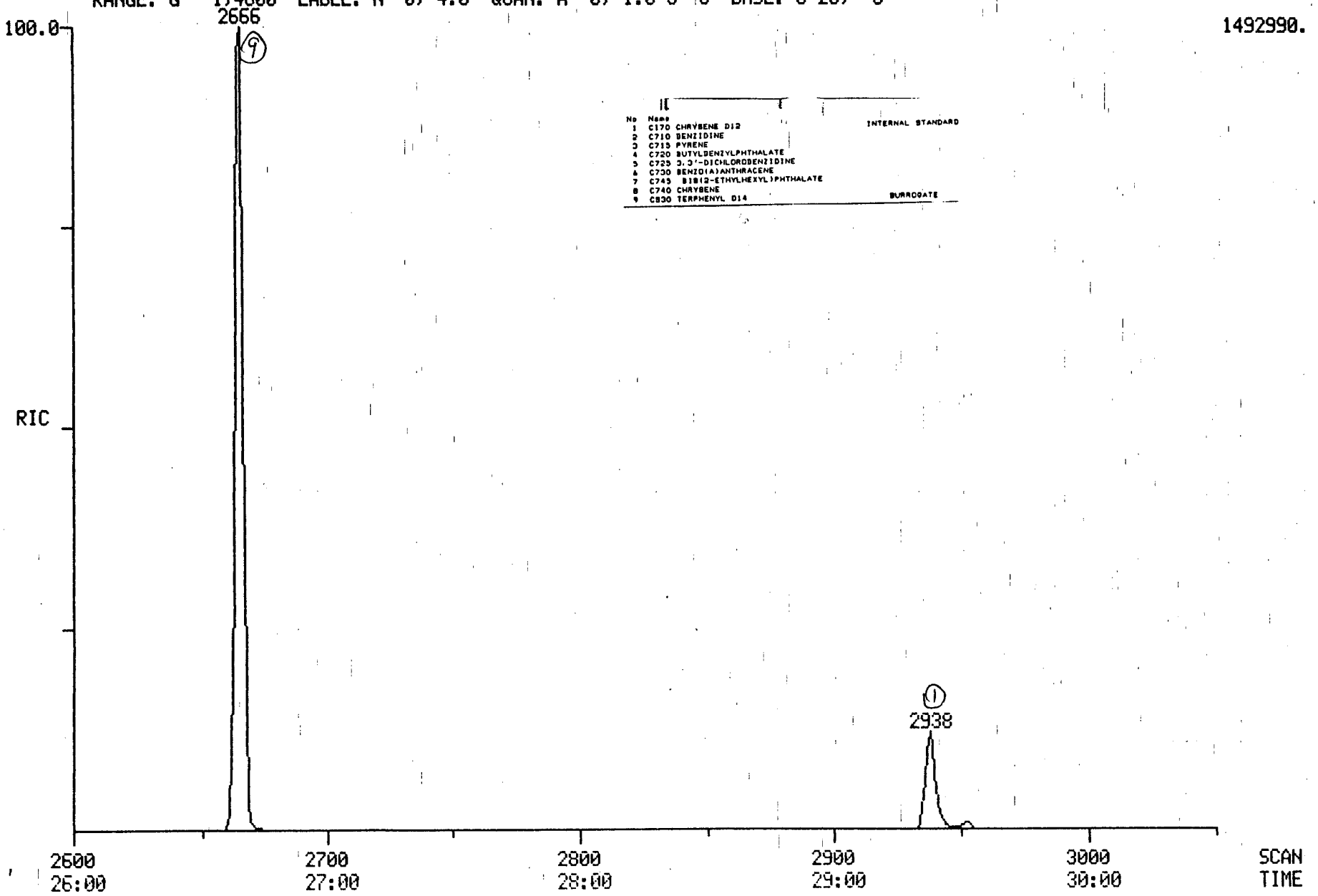
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2241	22:25	1	1.000	A BB	792753.	40.000 UG/ML	99.07
2	NOT FOUND								
3	NOT FOUND								
4	77	2043	20:26	1	0.912	A BB	~~4128.~~	~~0.116 NG~~	~~0.29~~ NO WSS
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	178	2261	22:37	1	1.009	A BB	~~768.~~	~~0.020 UG/ML~~	~~0.05~~ NO WSS
10	149	2406	24:04	1	1.074	A BB	~~10992.~~	~~0.243 UG/ML~~	~~0.60~~ NO WSS
11	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:11		0.899						
3	20:22		0.907						
4	20:27	1.00	0.911	1.00	0.12	50.00	0.004	1.801	0.00
5	21:19		0.949						
6	21:25		0.954						
7	21:58		0.979						
8	22:31		1.003						
9	22:39	1.00	1.009	1.00	0.02	50.00	0.001	1.971	0.00
10	24:05	1.00	1.073	1.00	0.24	50.00	0.011	2.287	0.00
11	25:37		1.141						

RIC
11/16/90 17:43:00
SAMPLE: AQ BLK 11/05
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1105R #1
CALI: BWD1105R #3

SCANS 2600 TO 3050



000485

Quantitation Report File: BWD1105R

000486

Data: BWD1105R.TI
11/16/90 17:43:00
Sample: AQ BLK 11/05
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1105

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

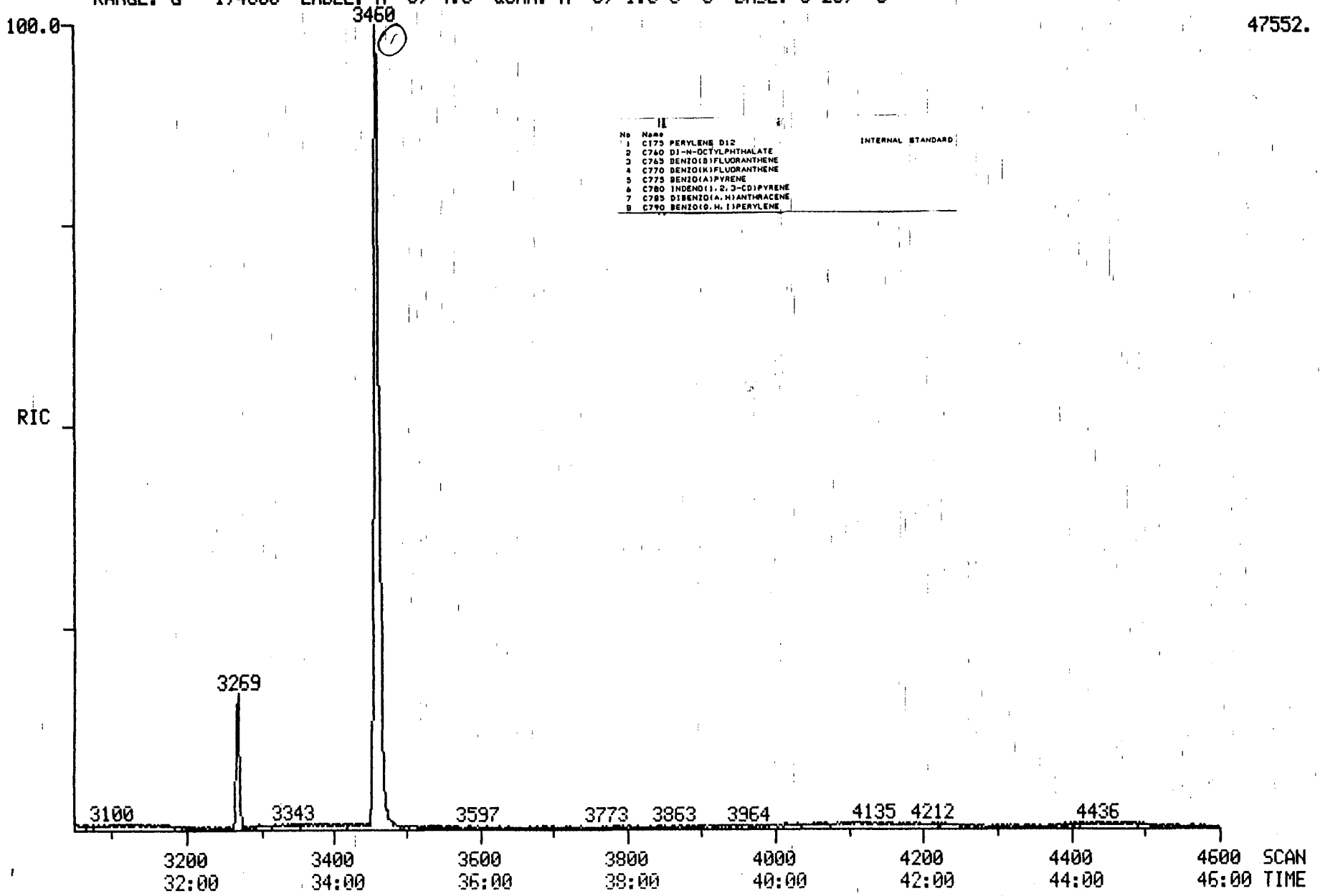
No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	240	2938	29:23	1	1.000	A BB	315719.	40.000 UG/ML	17.91
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	244	2665	26:39	1	0.907	A BB	1695050.	183.354 UG/ML	82.09 %S WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:03		0.885						
3	26:13		0.891						
4	28:00		0.952						
5	29:21		0.998						
6	29:23		0.999						
7	29:32		1.004						
8	29:23		0.999						
9	26:41	1.00	0.907	1.00	183.35	50.00	4.295	1.171	3.67

RIC
11/16/90 17:43:00
SAMPLE: AQ BLK 11/05
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1105R #1 SCANS 3050 TO 4600
CALI: BWD1105R #3



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000487

Quantitation Report File: BWD1105R

000488

Data: BWD1105R.TI
11/16/90 17:43:00
Sample: AQ BLK 11/05
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1105

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3460	34:36	1	1.000	A BB	160026.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:38		0.913						
3	32:58		0.952						
4	33:07		0.956						
5	34:23		0.992						
6	40:57		1.182						
7	41:13		1.189						
8	42:55		1.239						

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

AQ_BLANK_11-7

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: AQ BLANK 11-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BWD1107

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/07/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

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

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

CAS NO.	COMPOUND		Q
62-75-9	N-Nitrosodimethylamine	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
103-33-3	Azobenzene (2)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

AQ_BLANK_11-7

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: AQ BLANK 11-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BWD1107

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/07/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/13/90

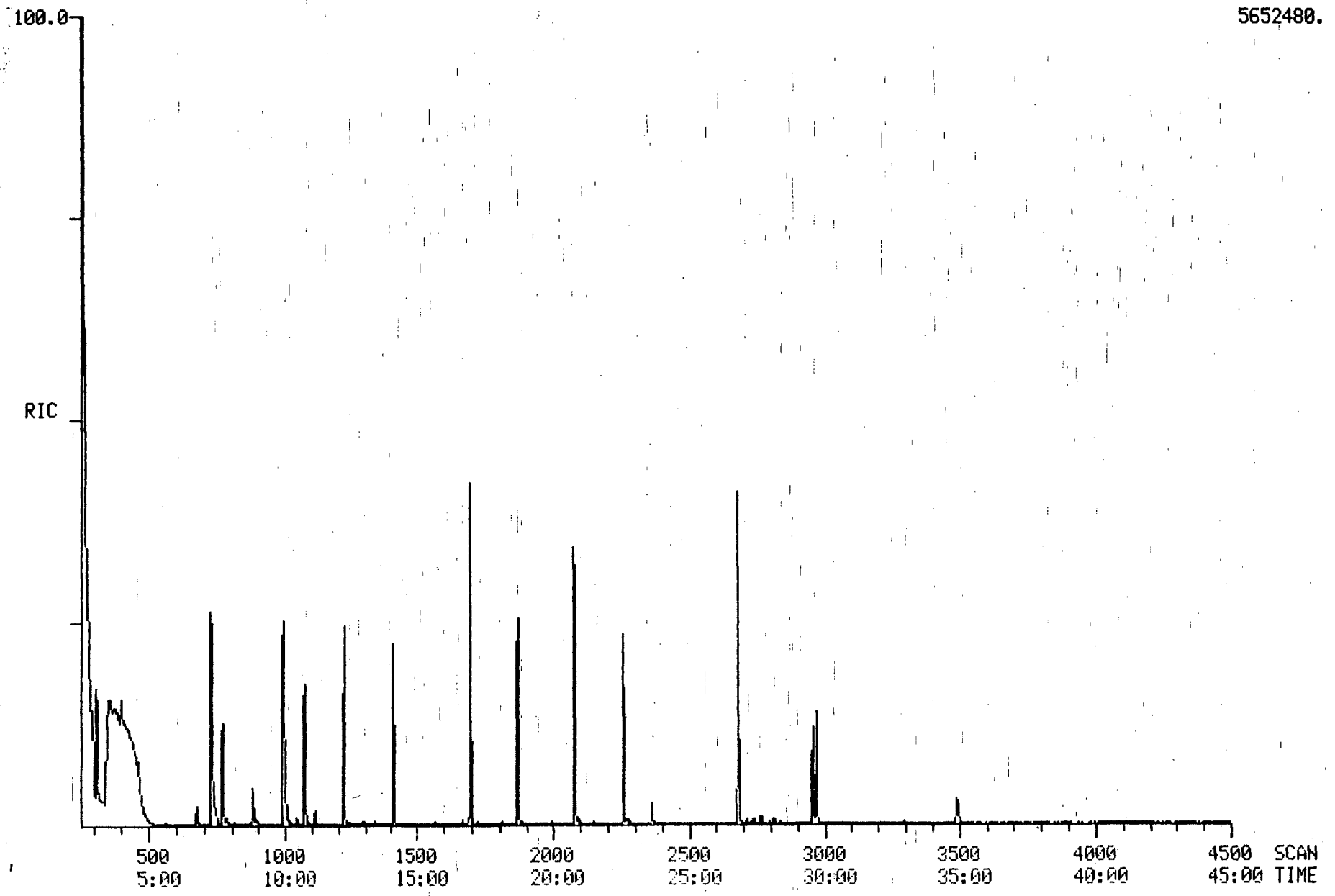
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	35	
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

RIC
11/13/90 20:41:00
SAMPLE: AQ BLK 11/07
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1107 #1
CALI: CALTAB #3

SCANS 250 TO 4500

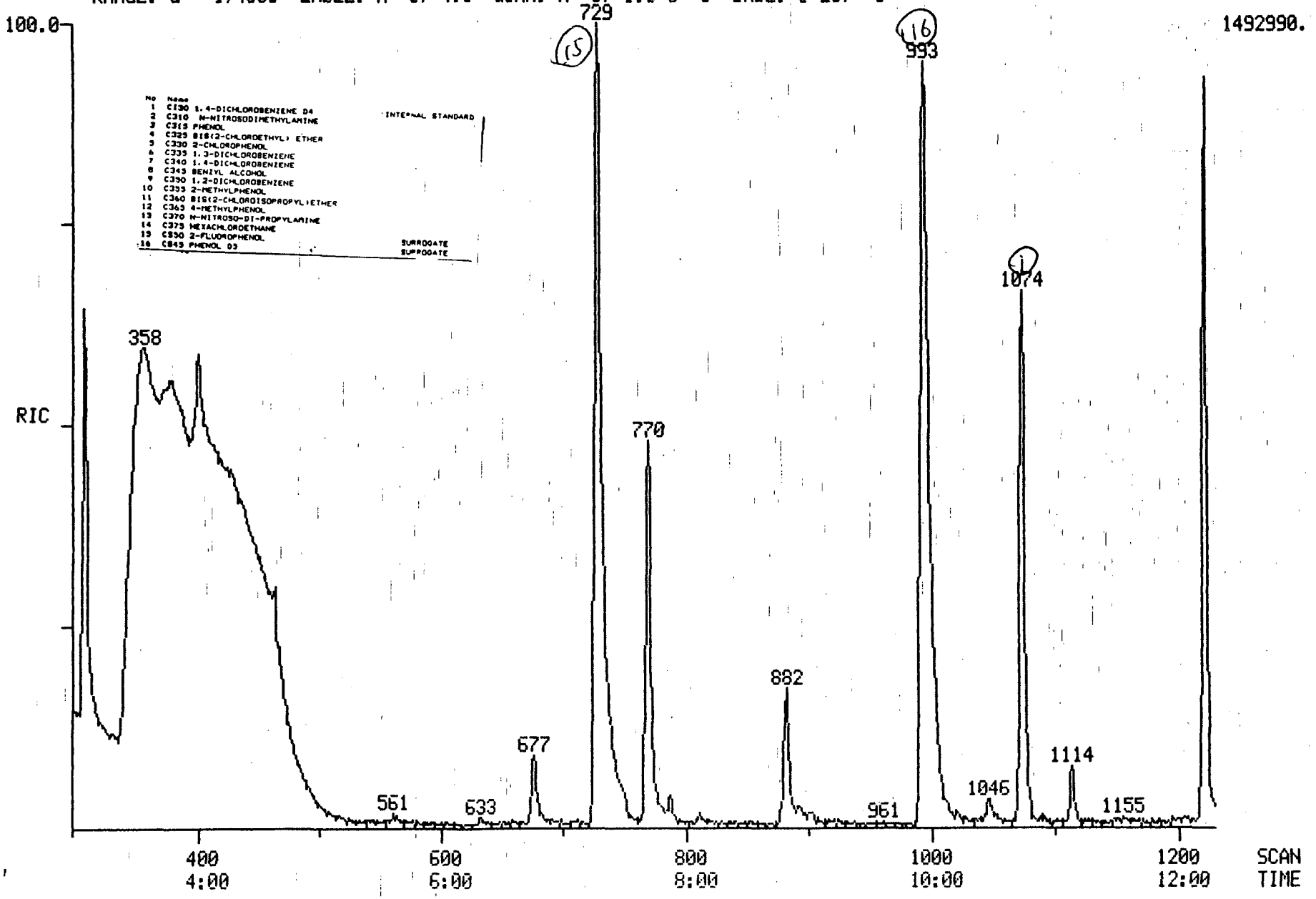


000491

RIC
11/13/90 20:41:00
SAMPLE: AQ BLK 11/07
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1107 #1
CALI: BWD1107 #3

SCANS 300 TO 1230



000492

Quantitation Report File: BWD1107

000493

Data: BWD1107.TI
11/13/90 20:41:00
Sample: AQ BLK 11/07
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1107

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

No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	152	1074	10:44	1	1.000	A BB	686864.	40.000 UG/ML	11.63	
2	74	343	3:26	1	0.319	A BV	~~533.~~	~~0.031 UG~~	~~0.01~~	NO WSS
3	NOT FOUND									
4	93	1012	10:07	1	0.942	A VB	~~2416.~~	~~0.103 UG/ML~~	~~0.03~~	NO WSS
5	128	1020	10:12	1	0.950	A BB	~~9008.~~	~~0.367 UG/ML~~	~~0.11~~	NO WSS
6	146	1059	10:35	1	0.986	A VB	~~4923.~~	~~0.183 UG/ML~~	~~0.05~~	NO WSS
7	146	1078	10:47	1	1.004	A BB	~~3000.~~	~~0.111 UG/ML~~	~~0.03~~	NO WSS
8	NOT FOUND									
9	146	1117	11:10	1	1.040	A BB	~~2288.~~	~~0.096 UG/ML~~	~~0.03~~	NO WSS
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	117	1206	12:04	1	1.123	A BB	~~2176.~~	~~0.188 UG/ML~~	~~0.05~~	NO WSS
15	112	729	7:17	1	0.679	A BB	2584490.	140.691 UG/L	40.90	YES WSS
16	99	993	9:56	1	0.925	A BB	3769610.	162.253 UG/ML	47.16	YES WSS

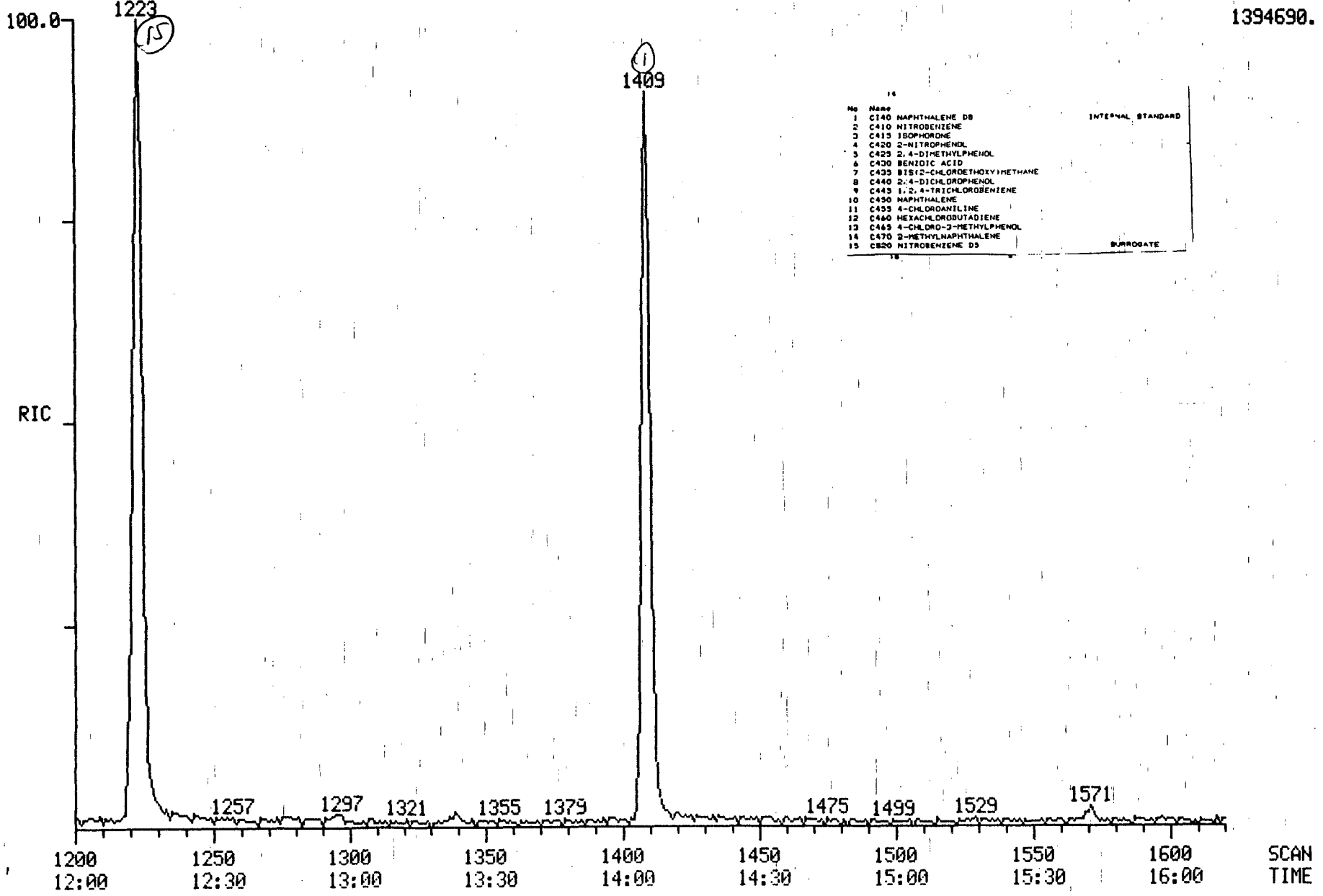
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:33	0.97	0.331	0.97	0.03	50.00	0.001	0.992	0.00
3	9:55		0.925						
4	10:07	1.00	0.943	1.00	0.10	50.00	0.003	1.367	0.00
5	10:11	1.00	0.949	1.00	0.37	50.00	0.010	1.428	0.01
6	10:34	1.00	0.985	1.00	0.18	50.00	0.006	1.563	0.00
7	10:47	1.00	1.005	1.00	0.11	50.00	0.003	1.573	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:11		1.042						
9	11:10	1.00	1.040	1.00	0.10	50.00	0.003	1.389	0.00
10	11:30		1.072						
11	11:33		1.076						
12	11:56		1.112						
13	11:55		1.110						
14	12:03	1.00	1.123	1.00	0.19	50.00	0.003	0.675	0.00
15	7:13	1.01	0.672	1.01	140.69	50.00	3.010	1.070	2.81
16	9:53	1.01	0.921	1.00	162.25	50.00	4.391	1.353	3.25

RIC
11/13/90 20:41:00
SAMPLE: AQ BLK 11/07
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1107 #1
CALI: BWD1107 #3

SCANS 1200 TO 1620



1394690.

No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C820 NITROBENZENE D5	SURROGATE

000495

Quantitation Report File: BWD1107

000496

Data: BWD1107.TI
11/13/90 20:41:00
Sample: AQ BLK 11/07
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1107

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1409	14:05	1	1.000	A BB	2260400.	40.000 UG/ML	35.98
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	162	1383	13:50	1	0.982	A BB	~~288.~~	~~0.017 UG/ML~~	~~0.02~~ NO WSS
9	180	1396	13:58	1	0.991	A BB	~~1584.~~	~~0.081 UG/ML~~	~~0.07~~ NO WSS
10	128	1414	14:08	1	1.004	A BB	~~16481.~~	~~0.315 UG/ML~~	~~0.28~~ NO WSS
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	142	1600	16:00	1	1.136	A BB	~~10776.~~	~~0.335 UG/ML~~	~~0.30~~ NO WSS
15	82	1223	12:14	1	0.868	A BB	1884540.	70.437 UG/ML	63.35 YES WSS

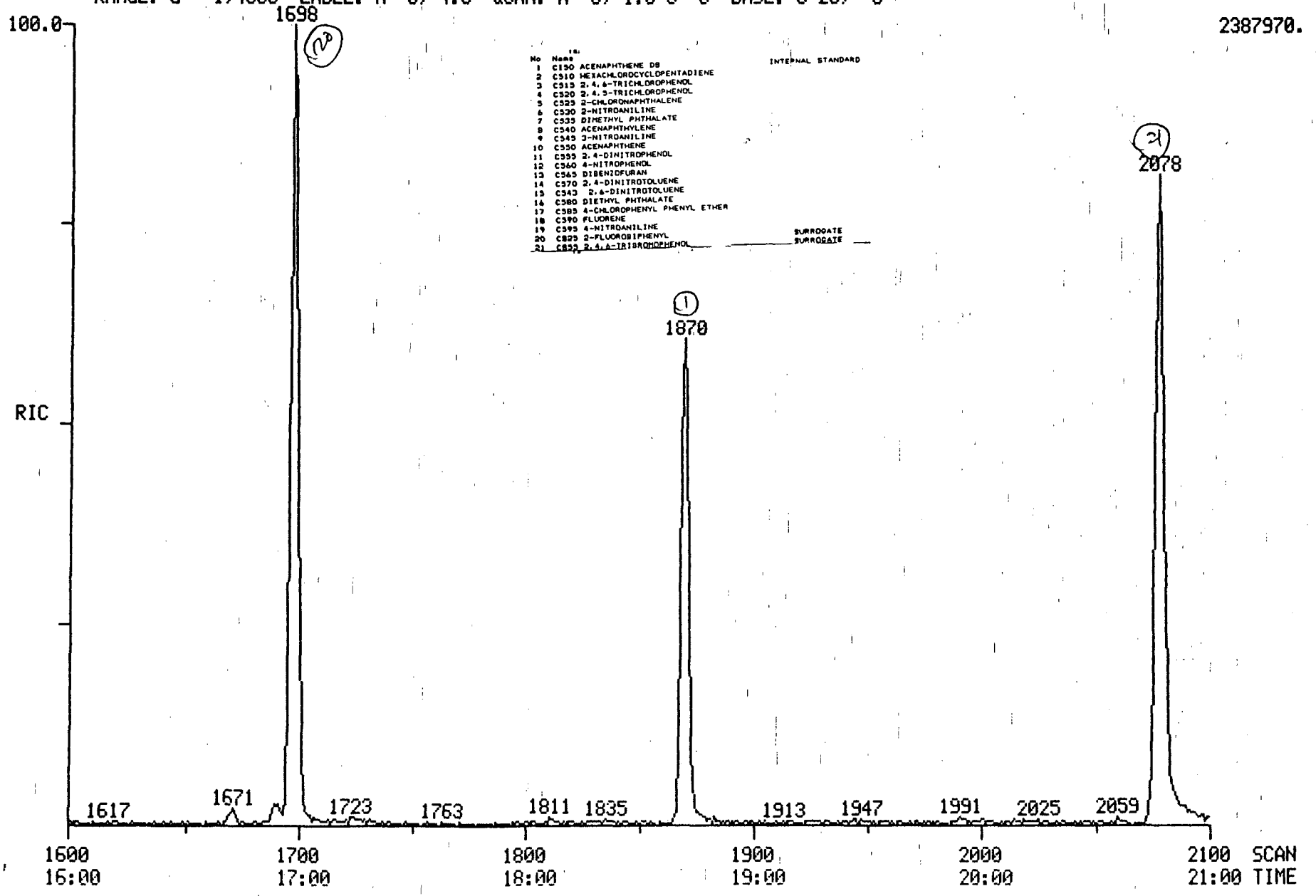
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	14:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:17		0.872						
3	12:56		0.918						
4	13:07		0.930						
5	13:19		0.945						
6	13:48		0.979						
7	13:34		0.962						
8	13:46	1.00	0.977	1.00	0.02	50.00	0.000	0.292	0.00
9	13:58	1.00	0.991	1.00	0.08	50.00	0.001	0.345	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:09	1.00	1.004	1.00	0.31	50.00	0.006	0.926	0.01
11	14:20		1.017						
12	14:30		1.029						
13	15:40		1.111						
14	15:59	1.00	1.134	1.00	0.34	50.00	0.004	0.580	0.01
15	12:14	1.00	0.868	1.00	70.44	50.00	0.667	0.473	1.41

RIC
11/13/90 20:41:00
SAMPLE: AQ BLK 11/07
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1107 #1
CALI: BWD1107 #3

SCANS 1600 TO 2100



No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLORDCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C825 2-FLUOROBIPHENYL	SURROGATE
21	C833 2,4,6-TRIBROMOPHENOL	SURROGATE

000498

Quantitation Report File: BWD1107 000499

Data: BWD1107.TI
11/13/90 20:41:00
Sample: AQ BLK 11/07
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: GC INC Analyst: WSS Acct. No.: BWD1107

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

No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

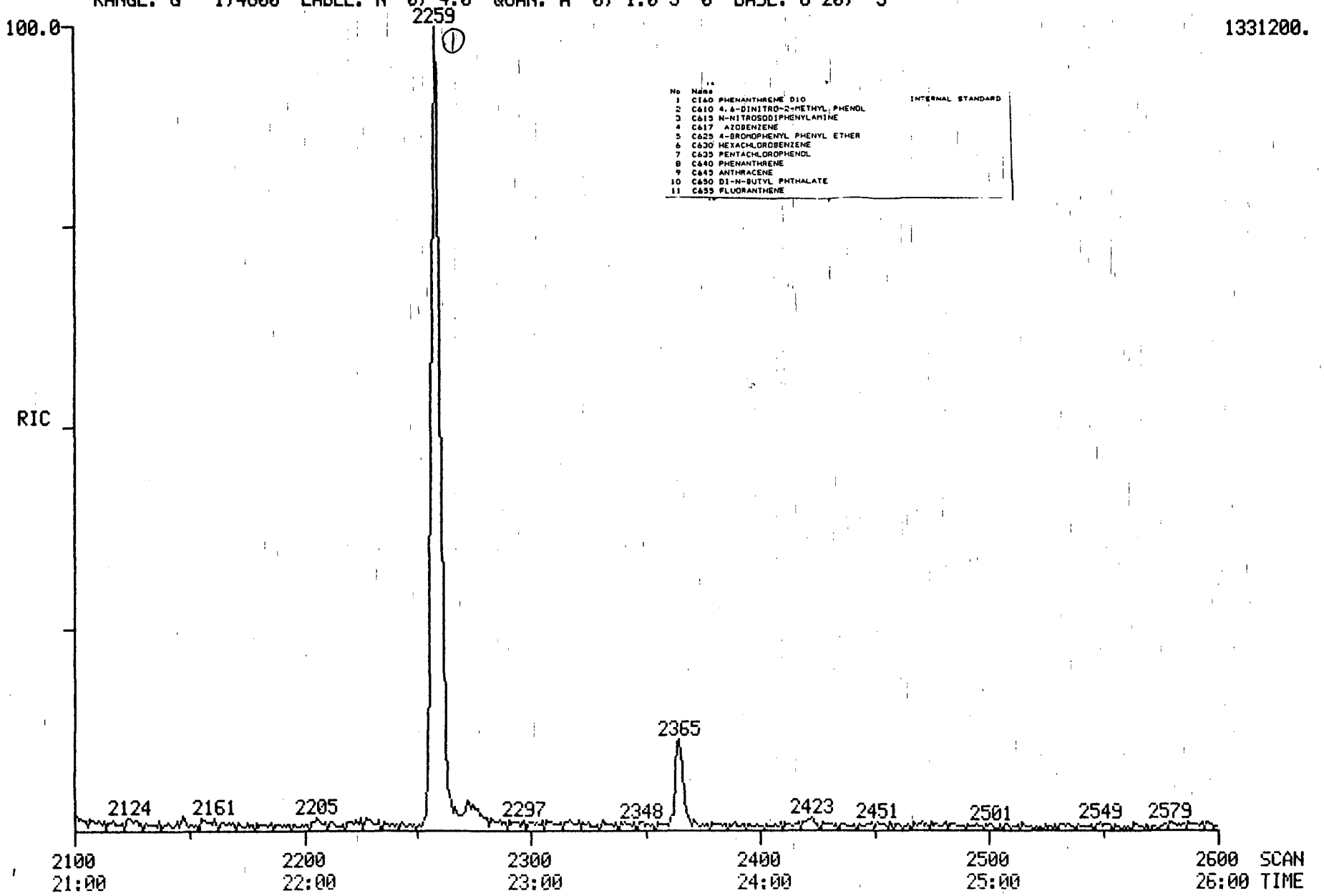
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot		
1	164	1870	18:42	1	1.000	A BB	1263450.	40.000 UG/ML	14.83		
2	NOT FOUND										
3	NOT FOUND										
4	NOT FOUND										
5	162	1725	17:15	1	0.922	A VV	~~12128.~~	~~0.351 UG/ML~~	~~0.13~~	NO	WSS
6	NOT FOUND										
7	163	1809	18:05	1	0.967	A BB	~~8240.~~	~~0.203 UG/ML~~	~~0.08~~	NO	WSS
8	152	1833	18:20	1	0.980	A BB	~~12352.~~	~~0.244 UG/ML~~	~~0.09~~	NO	WSS
9	NOT FOUND										
10	154	1877	18:46	1	1.004	A VB	~~8208.~~	~~0.255 UG/ML~~	~~0.09~~	NO	WSS
11	NOT FOUND										
12	109	1957	19:34	1	1.047	A BB	~~1088.~~	~~0.254 UG/ML~~	~~0.09~~	NO	WSS
13	NOT FOUND										
14	NOT FOUND										
15	NOT FOUND										
16	NOT FOUND										
17	204	2019	20:11	1	1.080	A BB	~~5792.~~	~~0.349 UG/ML~~	~~0.13~~	NO	WSS
18	166	2016	20:10	1	1.078	A BV	~~11258.~~	~~0.297 UG/ML~~	~~0.11~~	NO	WSS
19	NOT FOUND										
20	172	1698	16:59	1	0.908	A BB	2841960.	69.991 UG/ML	25.95	Yes	WSS
21	330	2078	20:47	1	1.111	A BB	919759.	157.811 UG/ML	58.50	Yes	WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:23		0.876						
3	16:44		0.895						
4	16:50		0.901						
5	17:15	1.00	0.922	1.00	0.35	50.00	0.008	1.092	0.01
6	17:34		0.939						
7	18:05	1.00	0.967	1.00	0.20	50.00	0.005	1.284	0.00
8	18:19	1.00	0.980	1.00	0.24	50.00	0.008	1.602	0.00
9	18:39		0.997						
10	18:47	1.00	1.005	1.00	0.25	50.00	0.005	1.021	0.01
11	18:55		1.012						
12	19:10	1.02	1.025	1.02	0.25	50.00	0.001	0.136	0.01
13	19:14		1.029						
14	19:16		1.030						
15	18:13		0.974						
16	19:57		1.067						
17	20:10	1.00	1.079	1.00	0.35	50.00	0.004	0.526	0.01
18	20:08	1.00	1.077	1.00	0.30	50.00	0.007	1.201	0.01
19	20:16		1.083						
20	16:59	1.00	0.908	1.00	69.99	50.00	1.799	1.286	1.40
21	20:46	1.00	1.111	1.00	157.81	50.00	0.582	0.185	3.16

RIC
11/13/90 20:41:00
SAMPLE: AQ BLK 11/07
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1107 #1
CALI: BWD1107 #3

SCANS 2100 TO 2600



No	Name	
1	C140 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL, PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

0000501

Quantitation Report File: BWD1107

000502

Data: BWD1107.TI
11/13/90 20:41:00
Sample: AQ BLK 11/07
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1107

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

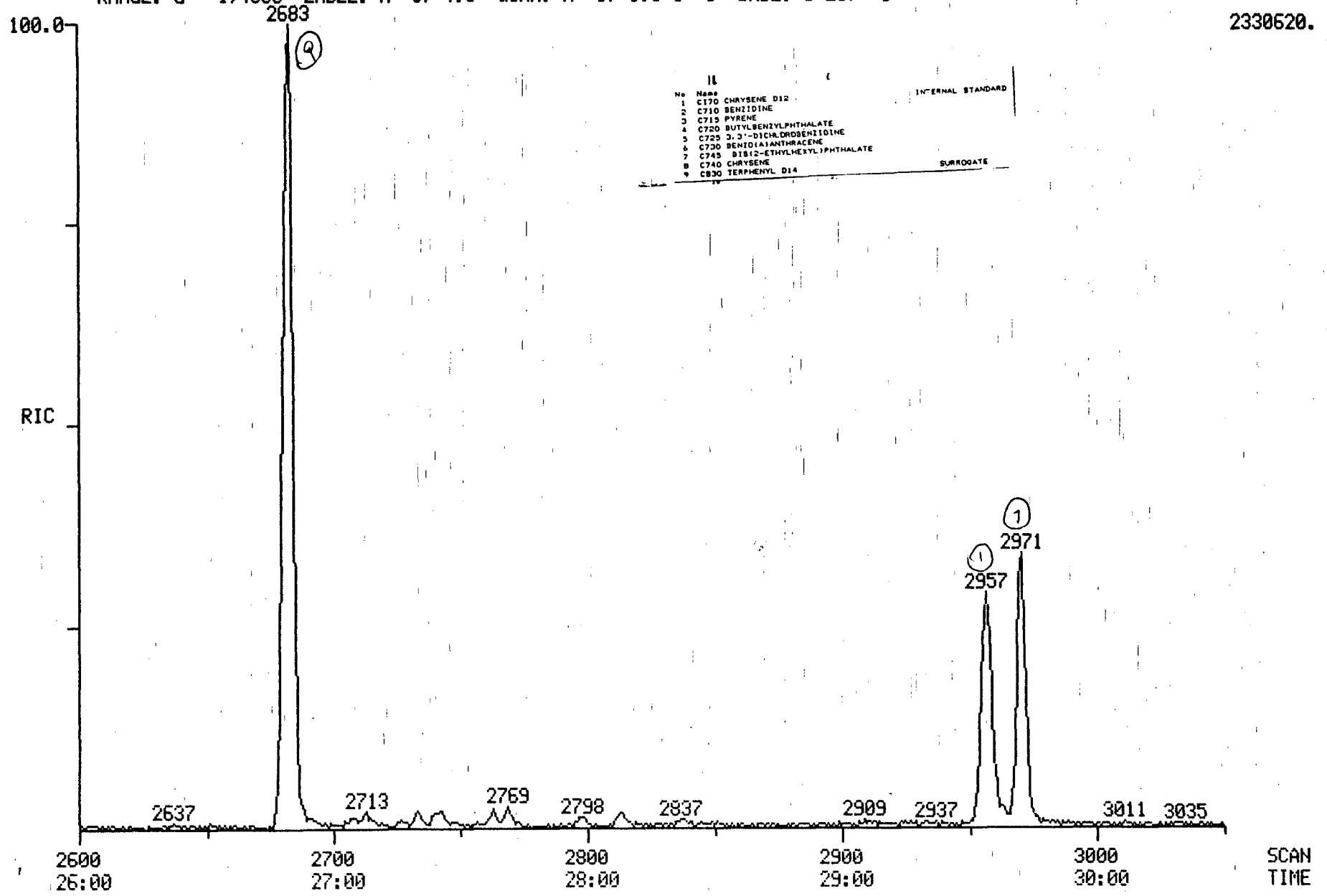
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	188	2259	22:35	1	1.000	A BV	1215950.	40.000 UG/ML	95.31	
2	NOT FOUND									
3	169	2051	20:31	1	0.908	A BB	~~7504.~~	~~0.290 UG/ML~~	~~0.69~~	NO WSS
4	77	2060	20:36	1	0.912	A BB	~~7472.~~	~~0.165 NG~~	~~0.39~~	NO WSS
5	248	2147	21:28	1	0.950	A BB	~~2096.~~	~~0.206 UG/ML~~	~~0.49~~	NO WSS
6	284	2155	21:33	1	0.954	A BB	~~2848.~~	~~0.236 UG/ML~~	~~0.56~~	NO WSS
7	NOT FOUND									
8	178	2264	22:38	1	1.002	A BB	~~16864.~~	~~0.314 UG/ML~~	~~0.75~~	NO WSS
9	178	2279	22:47	1	1.009	A BB	~~13120.~~	~~0.230 UG/ML~~	~~0.55~~	NO WSS
10	149	2422	24:13	1	1.072	A BB	~~23408.~~	~~0.363 UG/ML~~	~~0.86~~	NO WSS
11	202	2579	25:47	1	1.142	A BB	~~8336.~~	~~0.166 UG/ML~~	~~0.40~~	NO WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:20		0.900						
3	20:30	1.00	0.907	1.00	0.29	50.00	0.005	0.852	0.01
4	20:36	1.00	0.912	1.00	0.16	50.00	0.005	1.491	0.00
5	21:27	1.00	0.949	1.00	0.21	50.00	0.001	0.334	0.00
6	21:34	1.00	0.954	1.00	0.24	50.00	0.002	0.396	0.00
7	22:07		0.978						
8	22:40	1.00	1.003	1.00	0.31	50.00	0.011	1.766	0.01
9	22:48	1.00	1.009	1.00	0.23	50.00	0.009	1.877	0.00
10	24:13	1.00	1.072	1.00	0.36	50.00	0.015	2.122	0.01
11	25:47	1.00	1.141	1.00	0.17	50.00	0.005	1.647	0.00

RIC
11/13/90 20:41:00
SAMPLE: AQ BLK 11/07
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1107 #1
CALI: BWD1107 #3

SCANS 2600 TO 3050



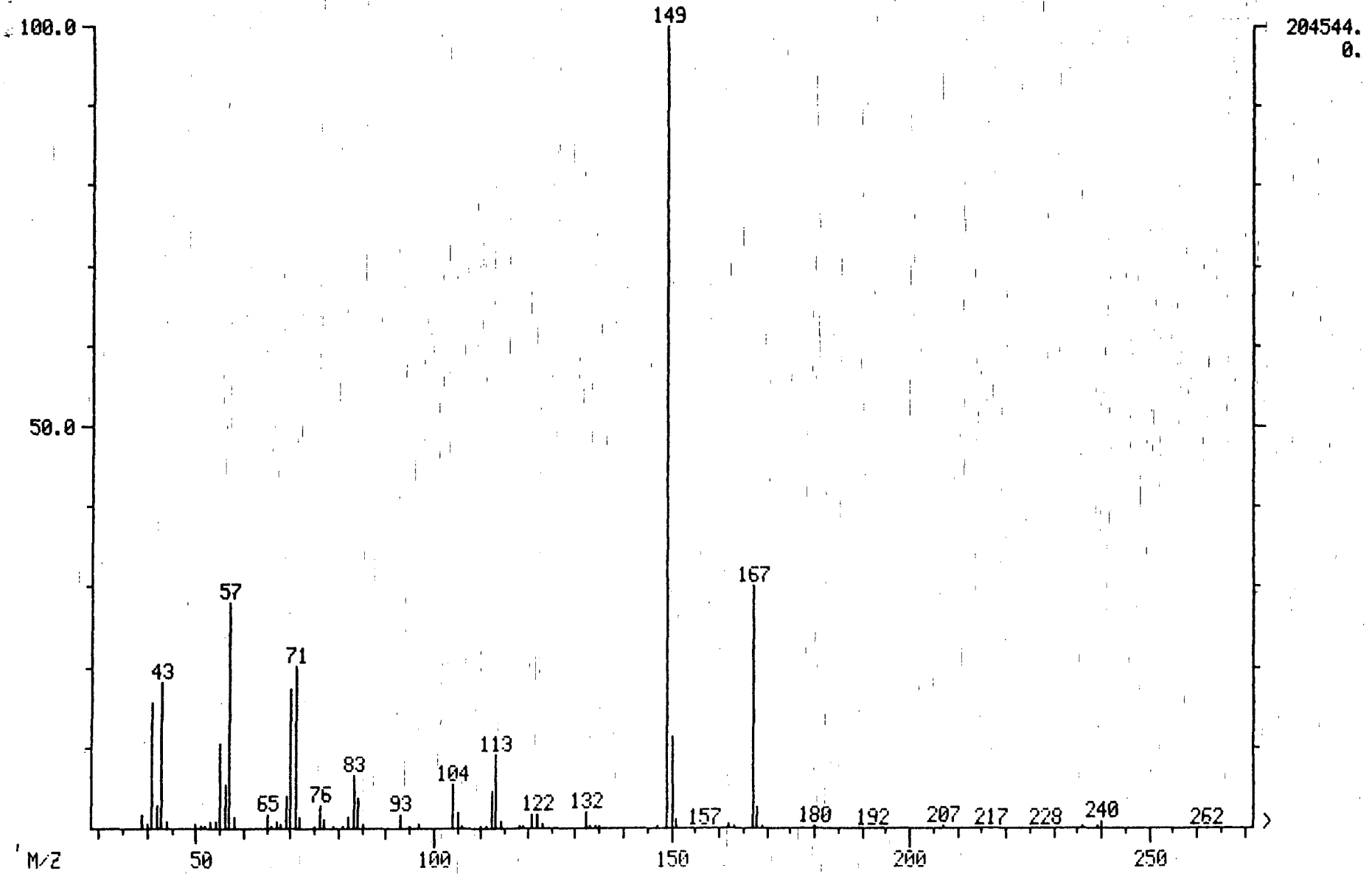
No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000503

MASS SPECTRUM
11/13/90 20:41:00 + 29:42
SAMPLE: AQ BLK 11/07
CONDS.: 1000MLS/1.0ML
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: BWD1107 #2970
CALI: BWD1107 #3

BASE M/Z: 149
RIC: 688128.



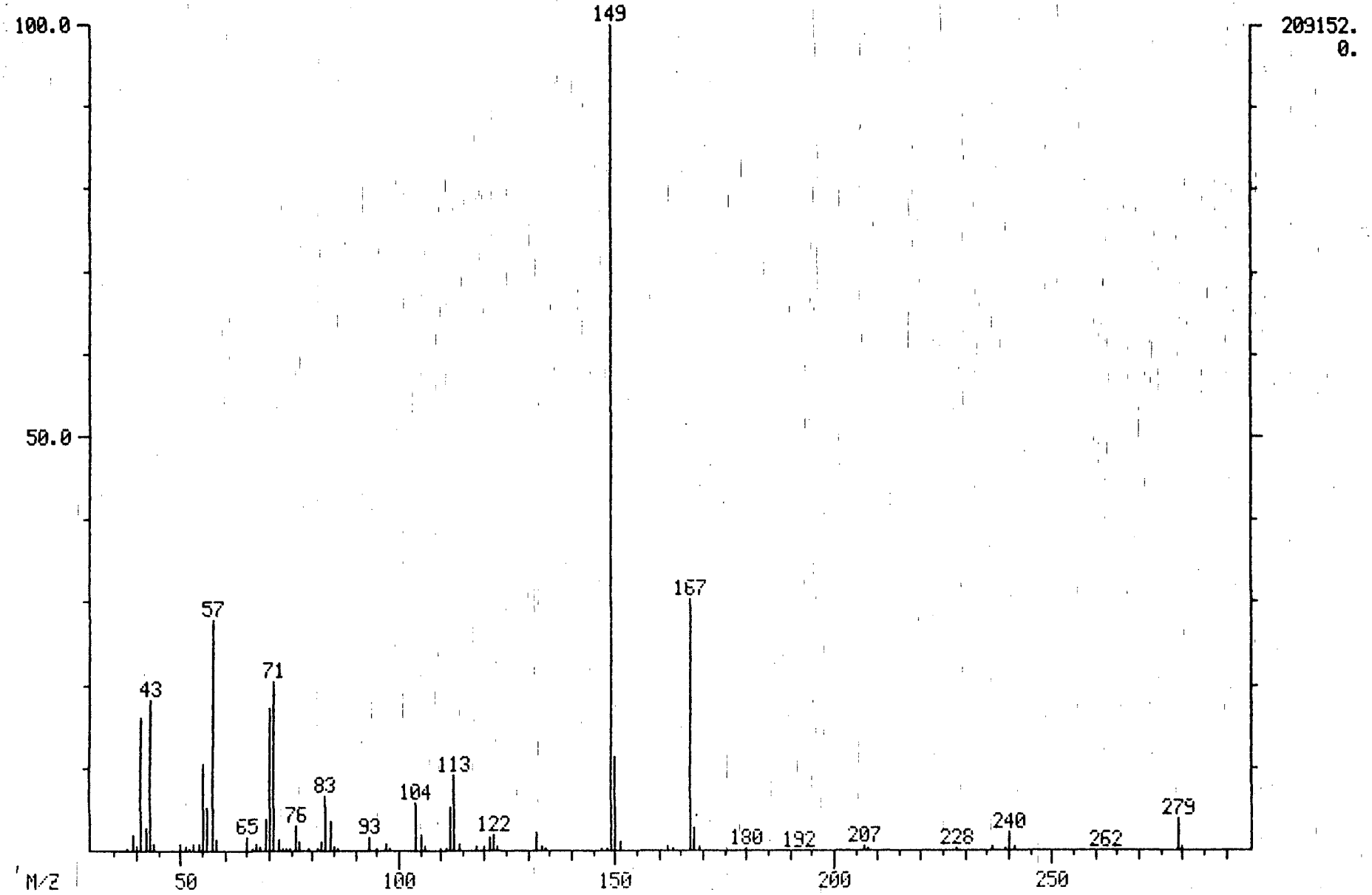
0005504

MASS SPECTRUM
11/13/90 20:41:00 + 29:42
SAMPLE: AQ BLK 11/07
CONDS.: 1000ML5/1.0ML
TEMP: 290 DEG. C

DATA: BWD1107 #2970
CALI: BWD1107 #3

BASE M/Z: 149
RIC: 719872.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

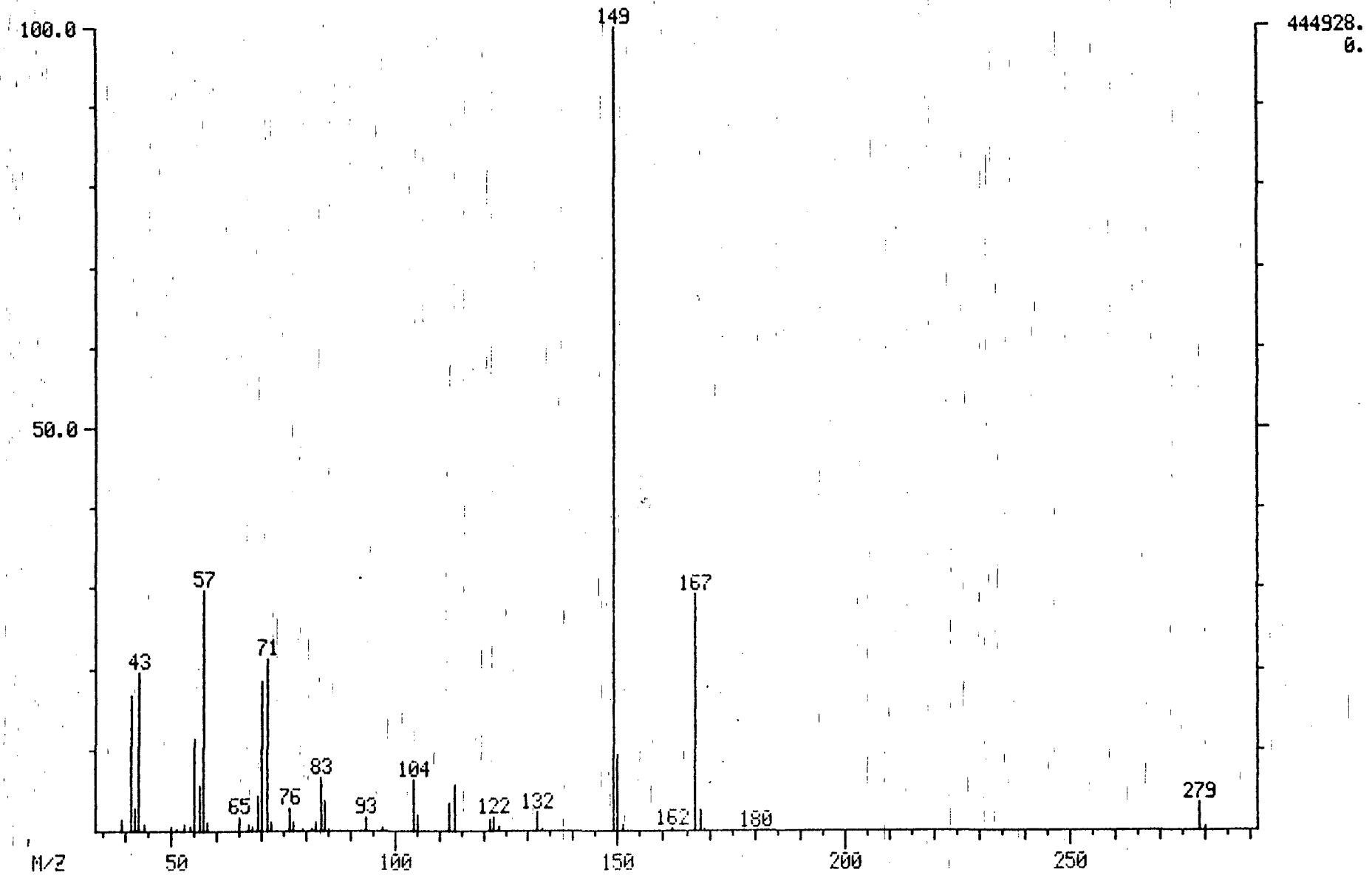


000505

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1454080.



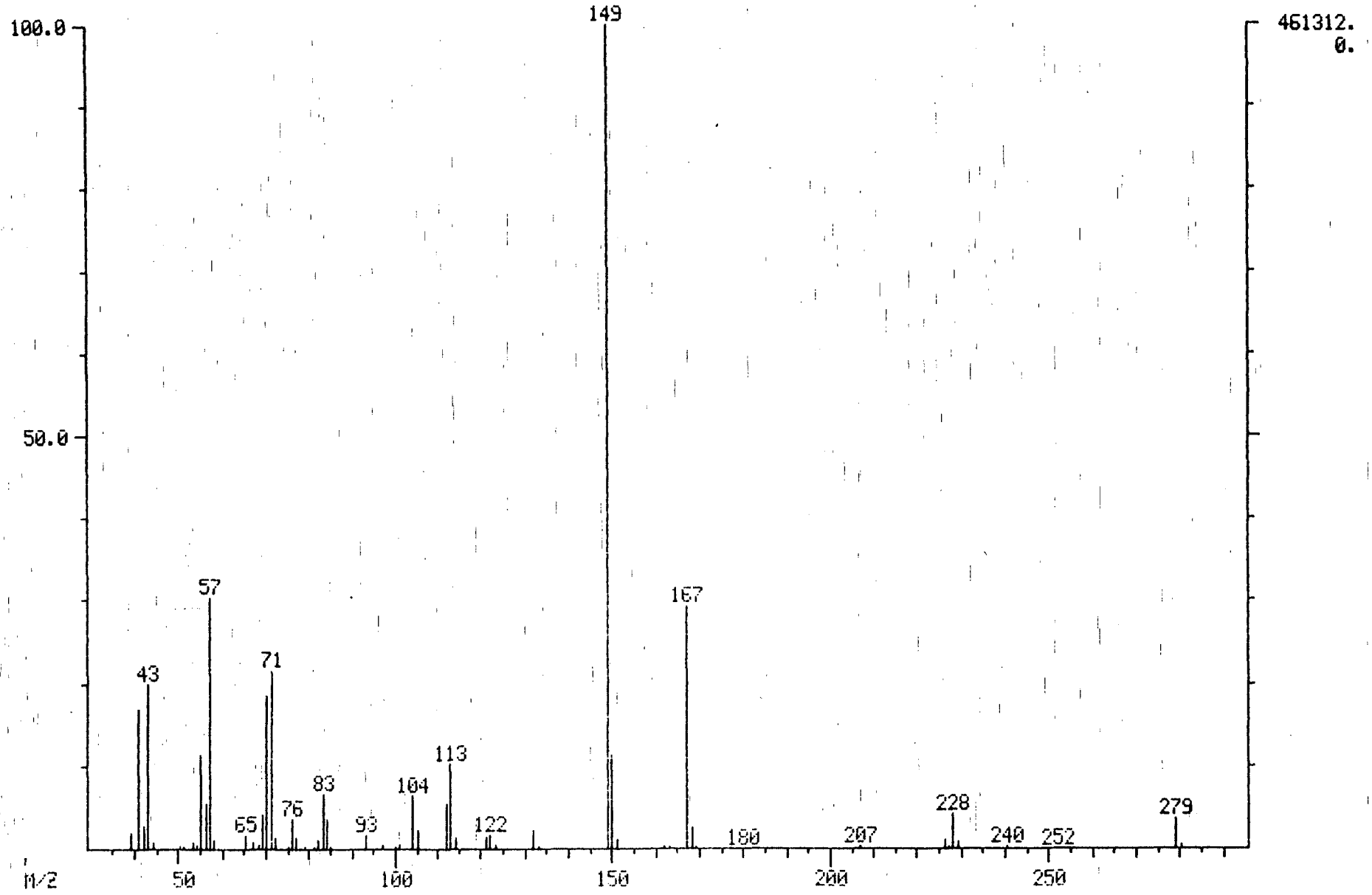
0005506

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1609730.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE



0005507

Quantitation Report File: BWD1107

000508

Data: BWD1107.TI
11/13/90 20:41:00
Sample: AQ BLK 11/07
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1107

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

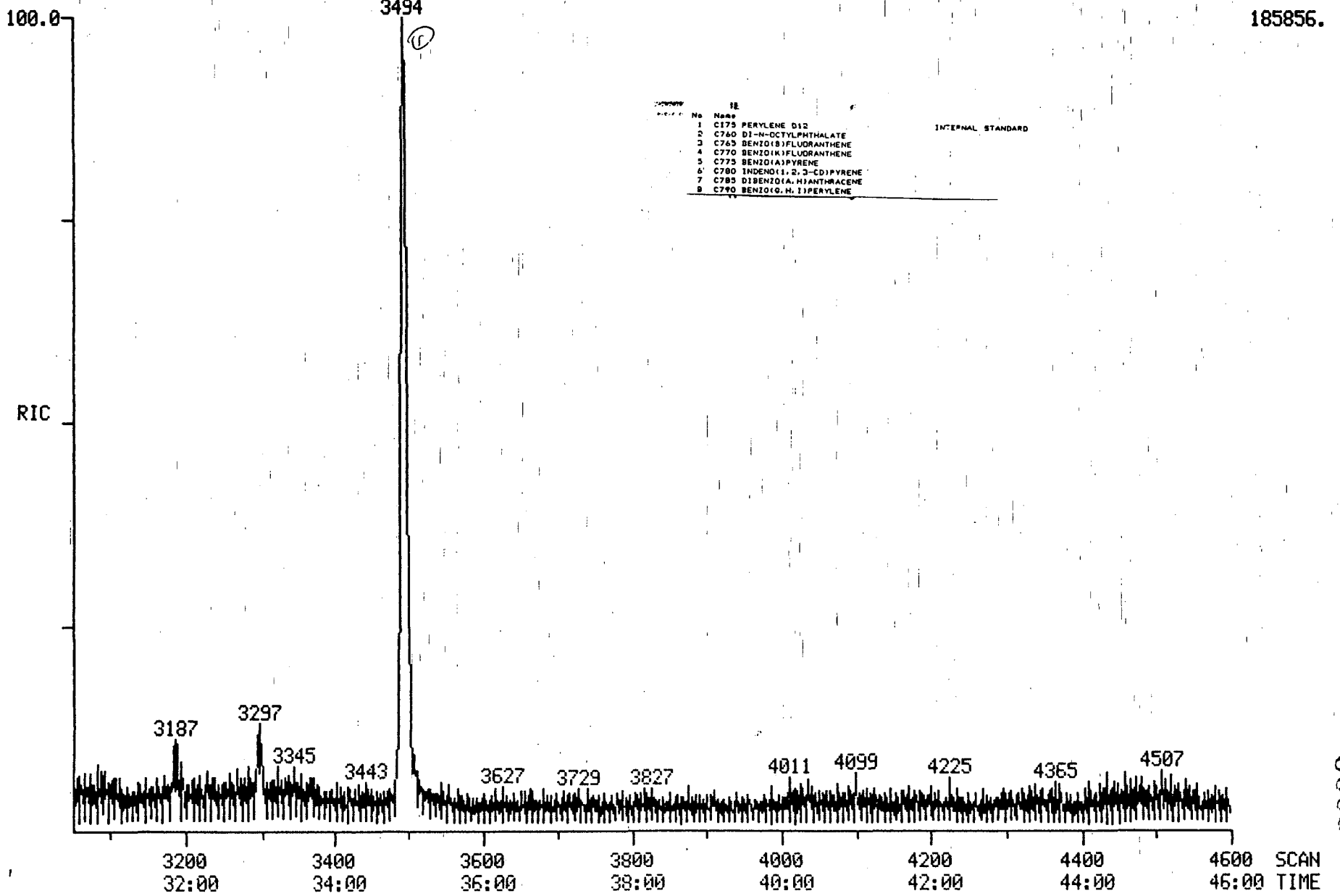
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	240	2957	29:34	1	1.000	A BB	1065560.	40.000 UG/ML	20.33	
2	NOT FOUND									
3	202	2638	26:23	1	0.892	A BB	~~8512.~~	~~0.256 UG/ML~~	~~0.13~~	NO WSS
4	149	2814	28:08	1	0.952	A BV	~~22521.~~	~~1.429 UG/ML~~	~~0.73~~	NO WSS
5	NOT FOUND									
6	228	2955	29:33	1	0.999	A BV	~~8851.~~	~~0.301 UG/ML~~	~~0.15~~	NO WSS
7	149	2971	29:43	1	1.005	A BB	892224.	34.735 UG/ML	17.66	yes WSS
8	228	2955	29:33	1	0.999	A BV	~~8851.~~	~~0.301 UG/ML~~	~~0.15~~	NO WSS
9	244	2683	26:50	1	0.907	A BB	3301970.	119.719 UG/ML	60.85	yes WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:11		0.885						
3	26:22	1.00	0.891	1.00	0.26	50.00	0.006	1.246	0.01
4	28:08	1.00	0.951	1.00	1.43	50.00	0.017	0.592	0.03
5	29:31		0.997						
6	29:34	1.00	0.999	1.00	0.30	50.00	0.007	1.102	0.01
7	29:43	1.00	1.004	1.00	34.73	50.00	0.670	0.964	0.69
8	29:34	1.00	0.999	1.00	0.30	50.00	0.007	1.102	0.01
9	26:49	1.00	0.906	1.00	119.72	50.00	2.479	1.035	2.39

RIC
11/13/90 20:41:00
SAMPLE: AQ BLK 11/07
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1107 #1
CALI: BWD1107 #3

SCANS 3050 TO 4600



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000509

Quantitation Report File: BWD1107

000510

Data: BWD1107.TI
11/13/90 20:41:00
Sample: AQ BLK 11/07
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC INC Analyst: WSS Acct. No.: BWD1107

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3494	34:56	1	1.000	A BB	510256.	40.000 UG/ML	99.62
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	252	3469	34:41	1	0.993	A BB	~~1952.~~	~~0.154 UG/ML~~	~~0.38~~ No WSS
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:52		0.911						
3	33:15		0.951						
4	33:23		0.954						
5	34:42	1.00	0.992	1.00	0.15	50.00	0.003	0.995	0.00
6	41:29		1.186						
7	41:46		1.194						
8	43:31		1.244						

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

AQ_BLK_11-13

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: BWD1113

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BWD1113

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/13/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
103-33-3	Azobenzene (2)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U

000512

SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET

AQ_BLK_11-13

Lab Name: QC INC. Contract: GANNETT

Lab Code: _____ Case No.: GANNET SAS No.: _____ SDG No.: 296400

Matrix: (soil/water) WATER Lab Sample ID: BWD1113

Sample wt/vol: 1000 (g/mL) ML Lab File ID: BWD1113

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/13/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/90

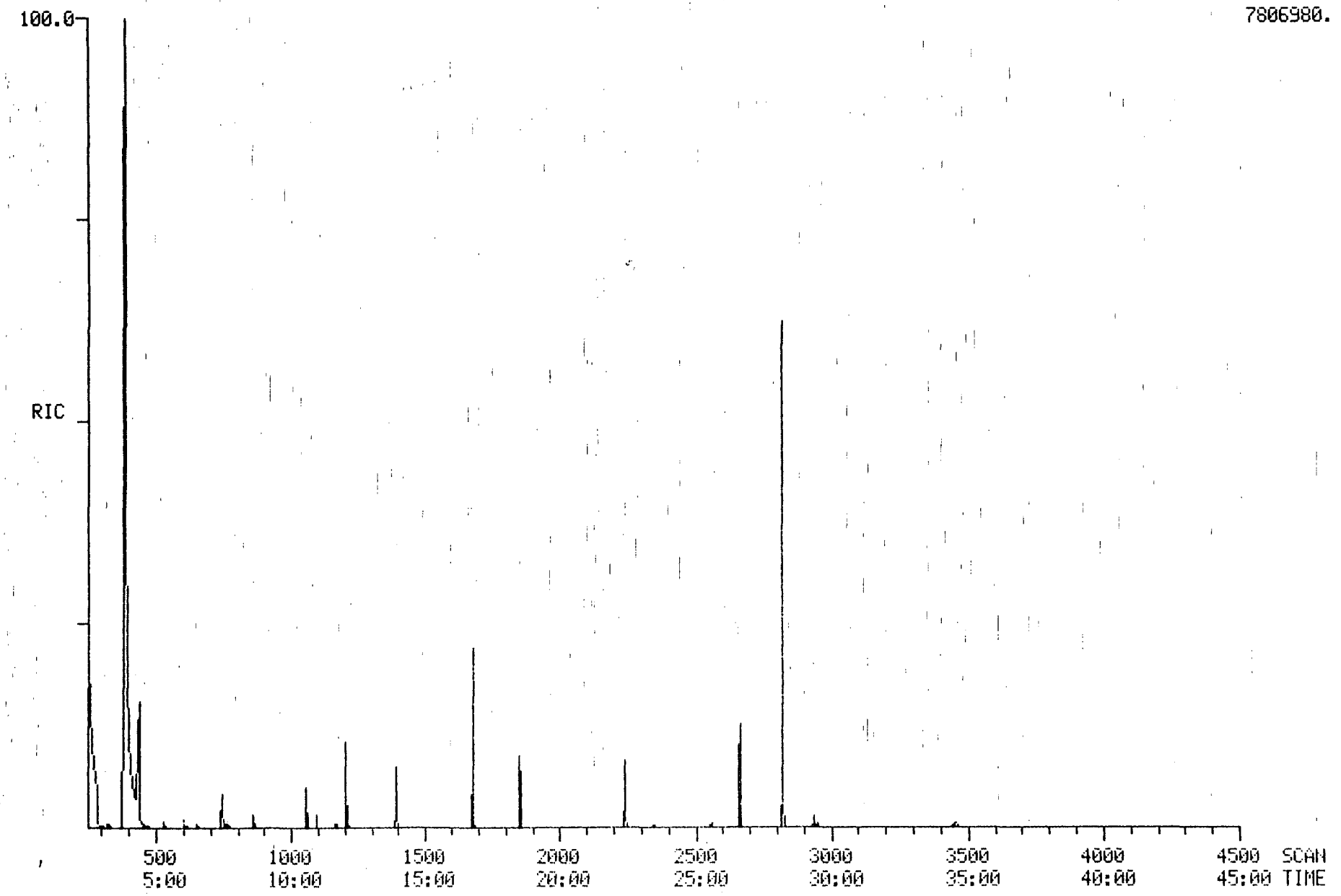
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12	
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

RIC
11/20/30 6:39:00
SAMPLE: AQ BLK 11/13
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1113 #1
CALI: CALTAB #3

SCANS 250 TO 4500

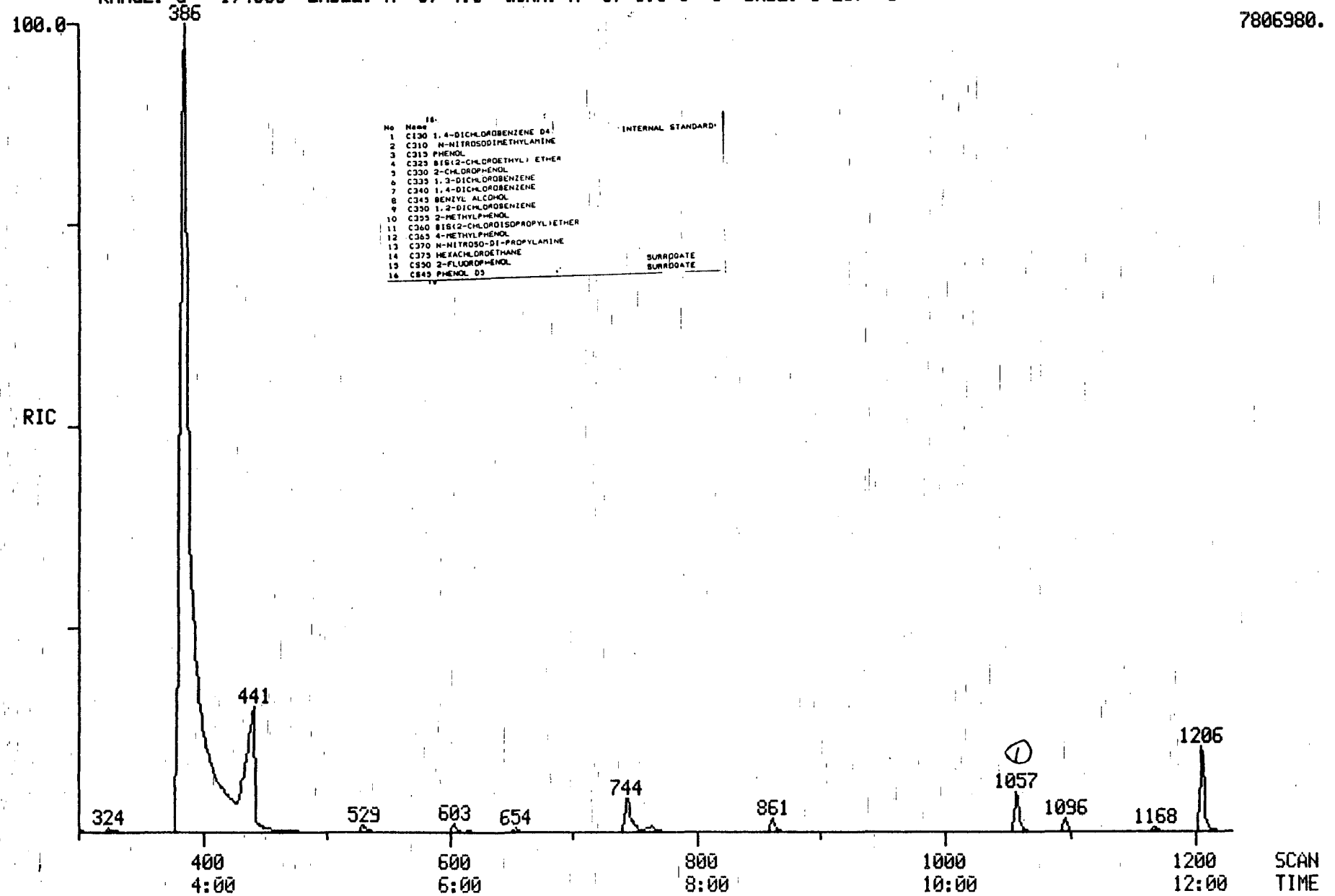


000513

RIC
11/20/90 6:39:00
SAMPLE: AQ BLK 11/13
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1113 #1
CALI: BWD1113 #3

SCANS 300 TO 1230



No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C850 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

000514

Quantitation Report File: BWD1113

Data: BWD1113.TI
11/20/90 6:39:00
Sample: AQ BLK 11/13
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC Analyst: LA Acct. No.: BWD1113

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

No	Name	
1	CI30 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	CS50 2-FLUOROPHENOL	SURROGATE
16	CS45 PHENOL D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	1057	10:34	1	1.000	A BB	290944.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	10:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	3:31		0.332						
3	9:49		0.927						
4	9:59		0.944						
5	10:02		0.949						
6	10:25		0.785						
7	10:38		1.005						

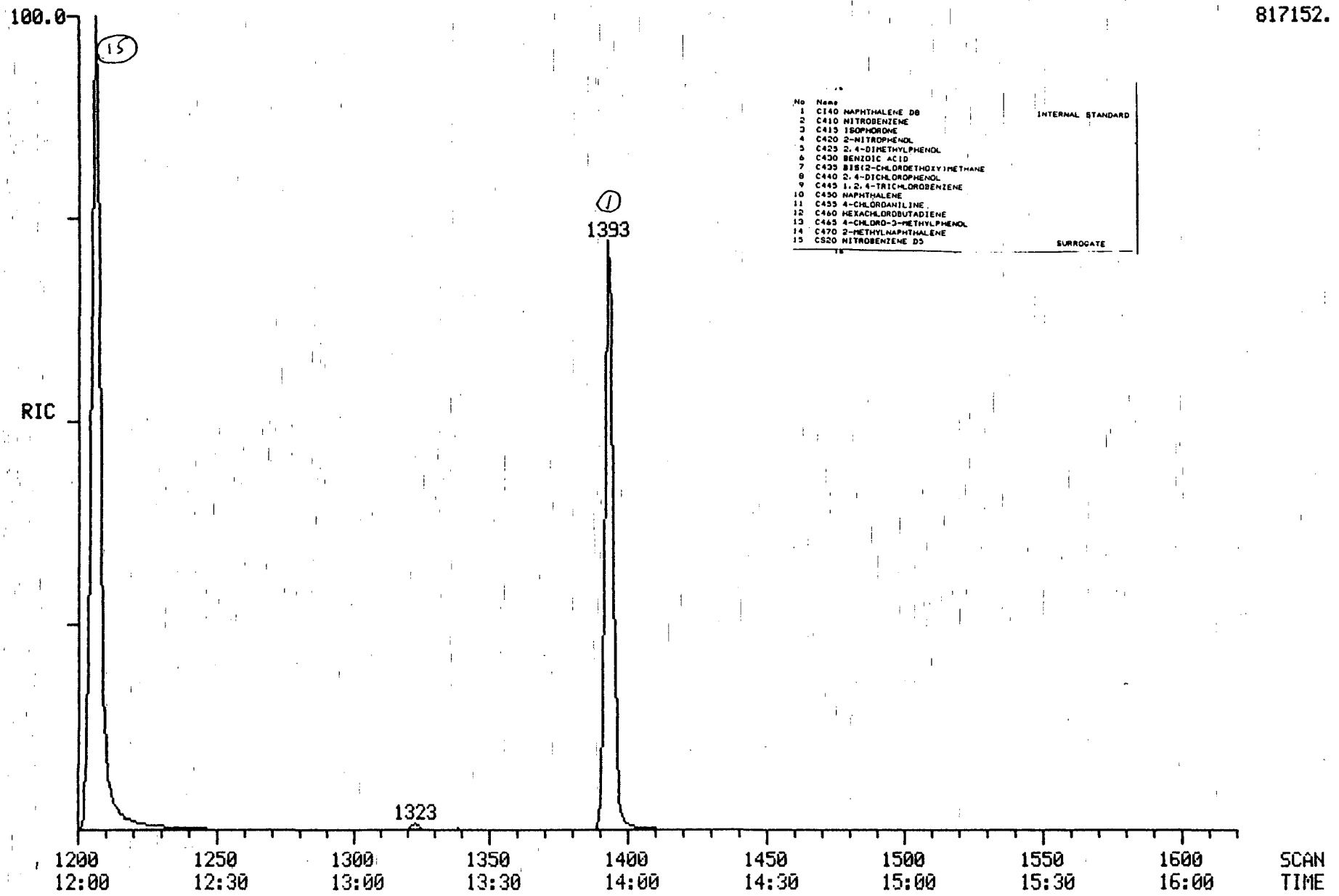
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
8	11:03		1.044						
9	11:01		1.041						
10	11:23		1.076						
11	11:25		1.078						
12	11:49		1.117						
13	11:47		1.114						
14	11:54		1.125						
15	7:03		0.666						
16	9:46		0.922						

RIC
11/20/90 6:39:00
SAMPLE: AQ BLK 11/13
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1113 #1
CALI: BWD1113 #3

SCANS 1200 TO 1620

817152.



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLORDETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLORDANILINE	
12	C460 HEXACHLORDBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

000517

Quantitation Report File: BWD1113

Data: BWD1113.TI
11/20/90 6:39:00
Sample: AQ BLK 11/13
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC Analyst: LA Acct. No.: BWD1113

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

No	Name	
1	CI40 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	CS20 NITROBENZENE D5	SURROGATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	1393	13:56	1	1.000	A BB	1000370.	40.000 UG/ML	28.82
2	NOT FOUND								
3	82	1280	12:48	1	0.919	A BB	~~976.~~	~~0.056 UG/ML~~	~~0.04~~ NO WCS
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	82	1206	12:04	1	0.866	A BB	1183570.	98.733 UG/ML	71.14 Yes WSS

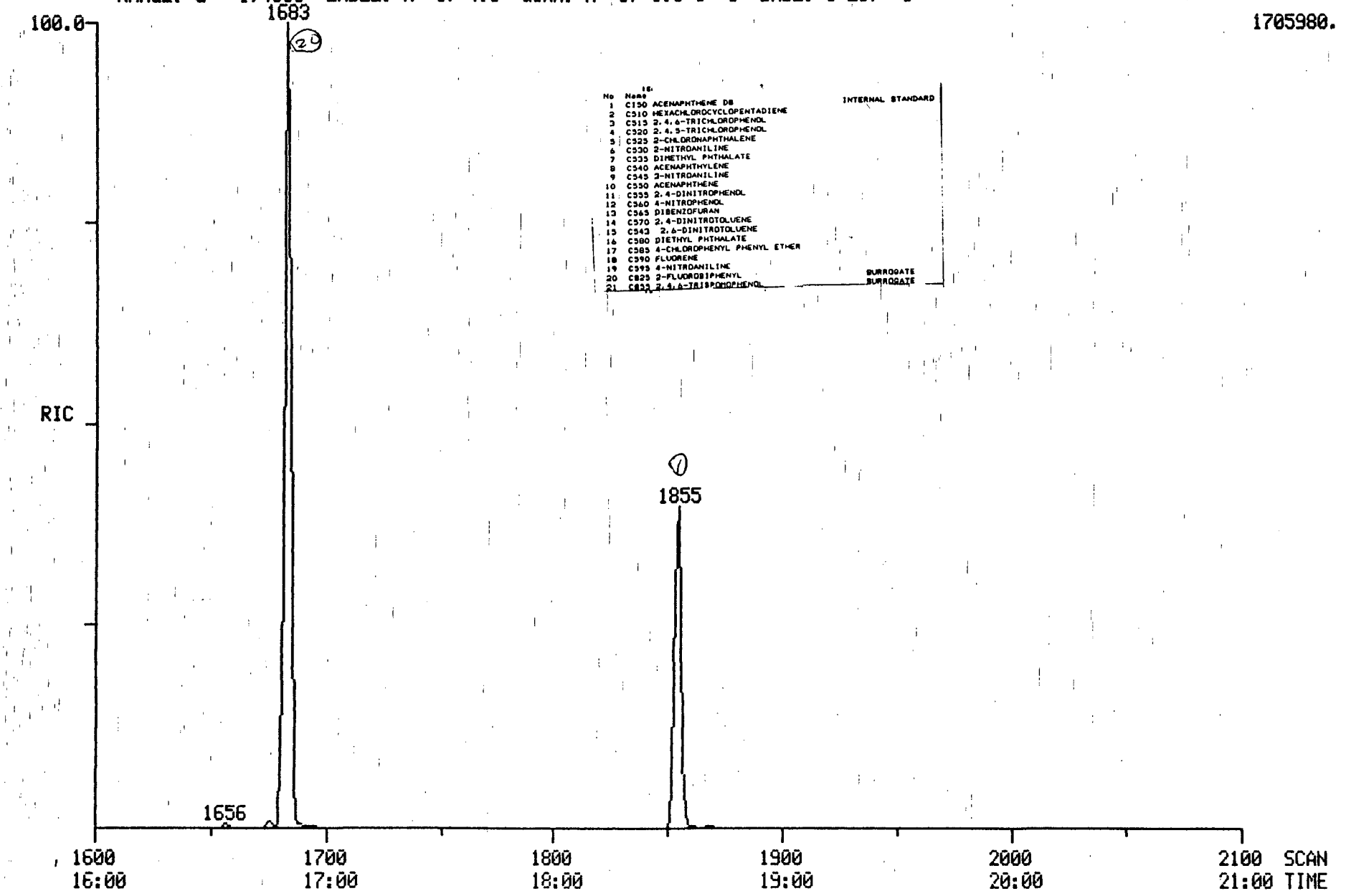
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:09		0.870						
3	12:49	1.00	0.918	1.00	0.06	50.00	0.001	0.703	0.00
4	12:59		0.930						
5	13:12		0.946						
6	13:46		0.986						
7	13:26		0.963						
8	13:39		0.978						
9	13:49		0.990						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	14:01		1.004						
11	14:13		1.018						
12	14:22		1.029						
13	15:33		1.114						
14	15:51		1.135						
15	12:06	1.00	0.867	1.00	98.73	50.00	0.947	0.479	1.97

RIC
11/20/90 6:39:00
SAMPLE: AQ BLK 11/13
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1113 #1
CALI: BWD1113 #3

SCANS 1600 TO 2100



No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C573 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C825 2-FLUOROBIPHENYL	SURROGATE
21	C835 2,4,6-TRIBROMOPHENOL	SURROGATE

000520

Quantitation Report File: BWD1113

Data: BWD1113.TI
11/20/90 6:39:00
Sample: AQ BLK 11/13
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC Analyst: LA Acct. No.: BWD1113

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

No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	CS25 2-FLUOROBIPHENYL	SURROGATE
21	CS55 2,4,6-TRIBROMOPHENOL	SURROGATE

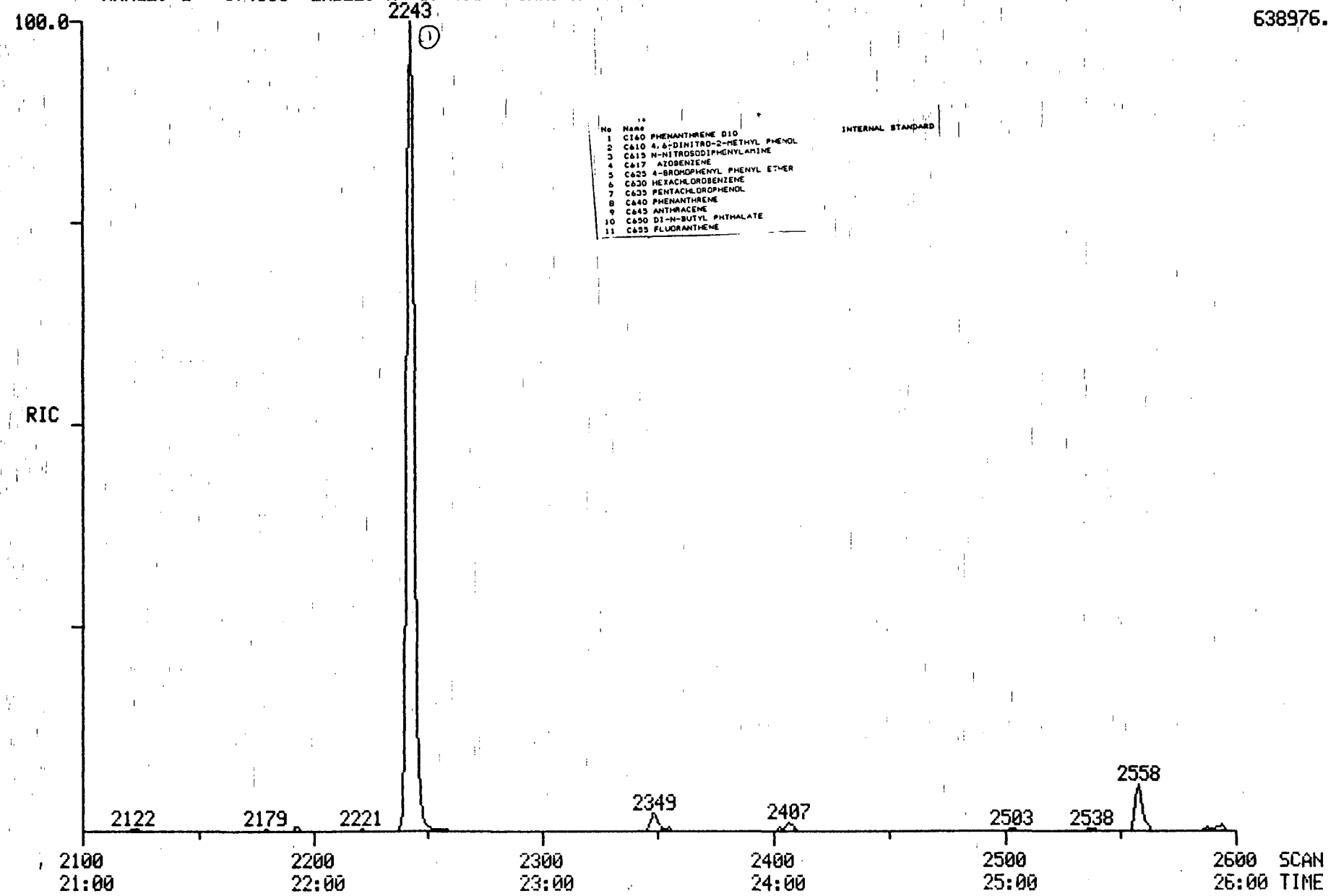
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	164	1855	18:33	1	1.000	A BB	548048.	40.000 UG/ML	30.47
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	149	1978	19:47	1	1.066	A BB	~~976.~~	~~0.074 UG/ML~~	~~0.06~~ NO WSS
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	172	1683	16:50	1	0.907	A BB	1840940.	91.191 UG/ML	69.47 YES WSS
21	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:16		0.876						
3	16:37		0.895						
4	16:43		0.900						
5	17:07		0.922						
6	17:26		0.939						
7	17:58		0.967						
8	18:12		0.980						
9	18:32		0.998						
10	18:40		1.005						
11	18:48		1.012						
12	19:04		1.027						
13	19:07		1.030						
14	19:08		1.031						
15	18:07		0.975						
16	19:49	1.00	1.067	1.00	0.07	50.00	0.001	0.962	0.00
17	20:03		1.080						
18	20:01		1.078						
19	20:08		1.084						
20	16:51	1.00	0.907	1.00	91.19	50.00	2.687	1.473	1.82
21	20:38		1.111						

RIC
11/20/90 6:39:00
SAMPLE: AQ BLK 11/13
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1113 #1
CALI: BWD1113 #3

SCANS 2100 TO 2600



No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000523

Quantitation Report File: BWD1113

Data: BWD1113.TI
11/20/90 6:39:00
Sample: AQ BLK 11/13
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC Analyst: LA Acct. No.: BWD1113

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

No	Name	
1	CI60 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

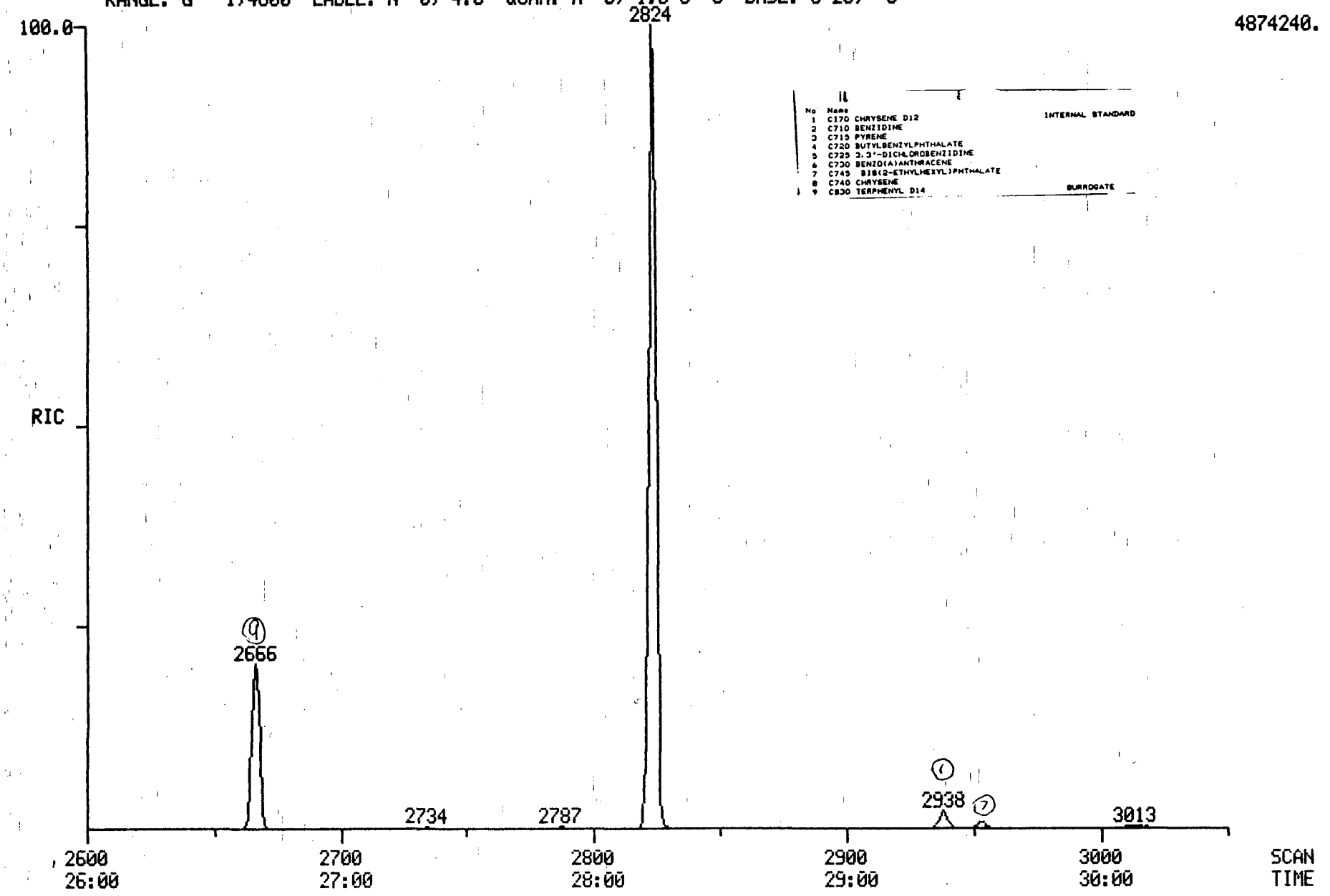
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	2243	22:26	1	1.000	A BB	905879.	40.000 UG/ML	99.26
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	178	2264	22:38	1	1.009	A BB	~~528.~~	~~0.012 UG/ML~~	~~0.03~~ NO WSS
9	178	2264	22:38	1	1.009	A BB	~~528.~~	~~0.012 UG/ML~~	~~0.03~~ NO WSS
10	149	2407	24:04	1	1.073	A BB	~~13520.~~	~~0.277 UG/ML~~	~~0.69~~ NO WSS
11	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	22:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:12		0.899						
3	20:23		0.907						
4	20:28		0.911						
5	21:19		0.949						
6	21:26		0.955						
7	21:59		0.979						
8	22:39	1.00	1.008	1.00	0.01	50.00	0.000	2.003	0.00
9	22:39	1.00	1.008	1.00	0.01	50.00	0.000	2.003	0.00
10	24:05	1.00	1.073	1.00	0.28	50.00	0.012	2.155	0.01
11	25:38		1.141						

RIC
11/20/90 6:39:00
SAMPLE: AQ BLK 11/13
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1113 #1
CALI: BWD1113 #3

SCANS 2600 TO 3050



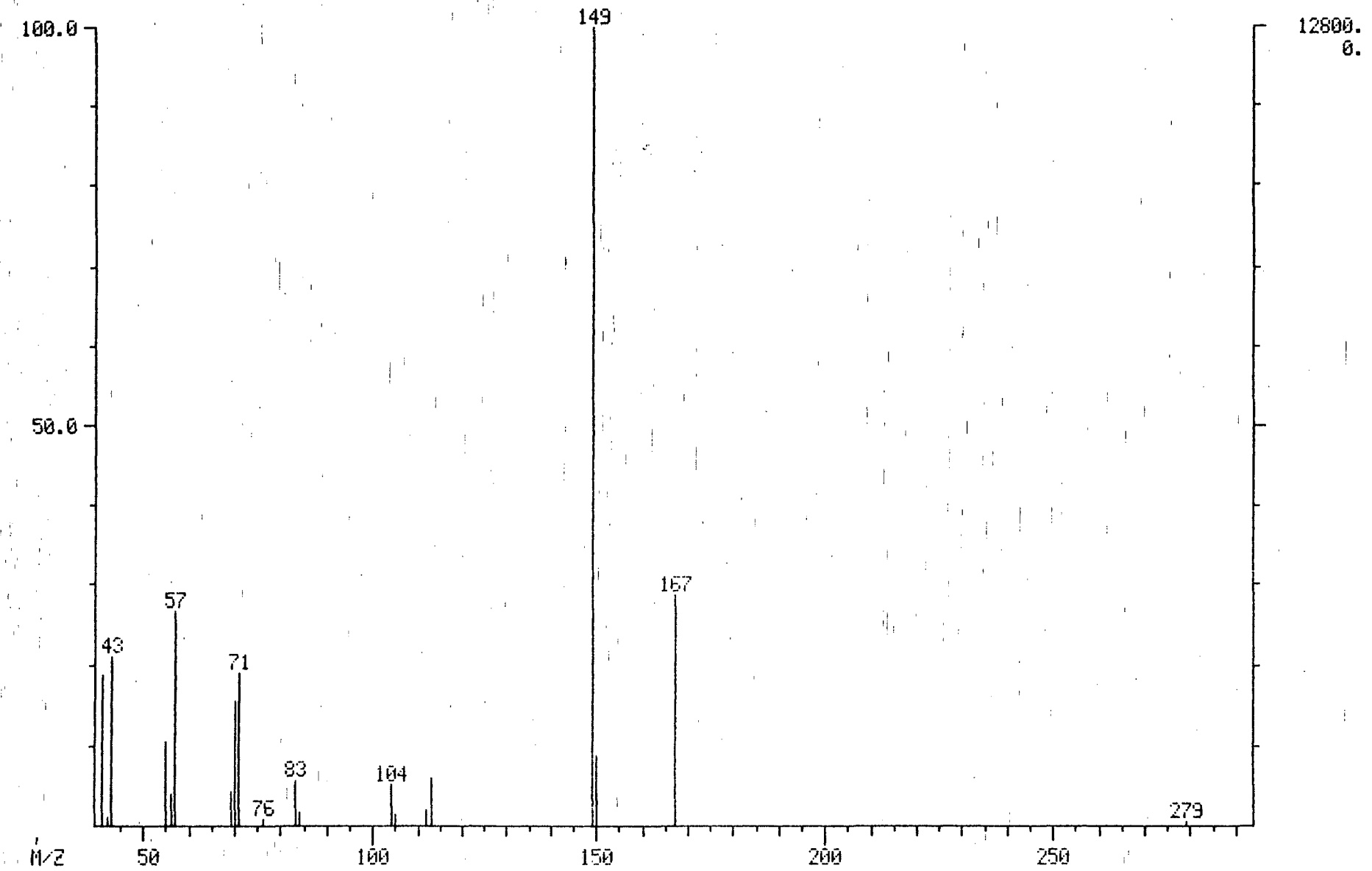
No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000525

MASS SPECTRUM
11/20/90 6:39:00 + 29:32
SAMPLE: AQ BLK 11/13
CONDS.: 1000MLS/1.0ML
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: BWD1113 #2953
CALI: BWD1113 #3

BASE M/Z: 149
RIC: 36032.

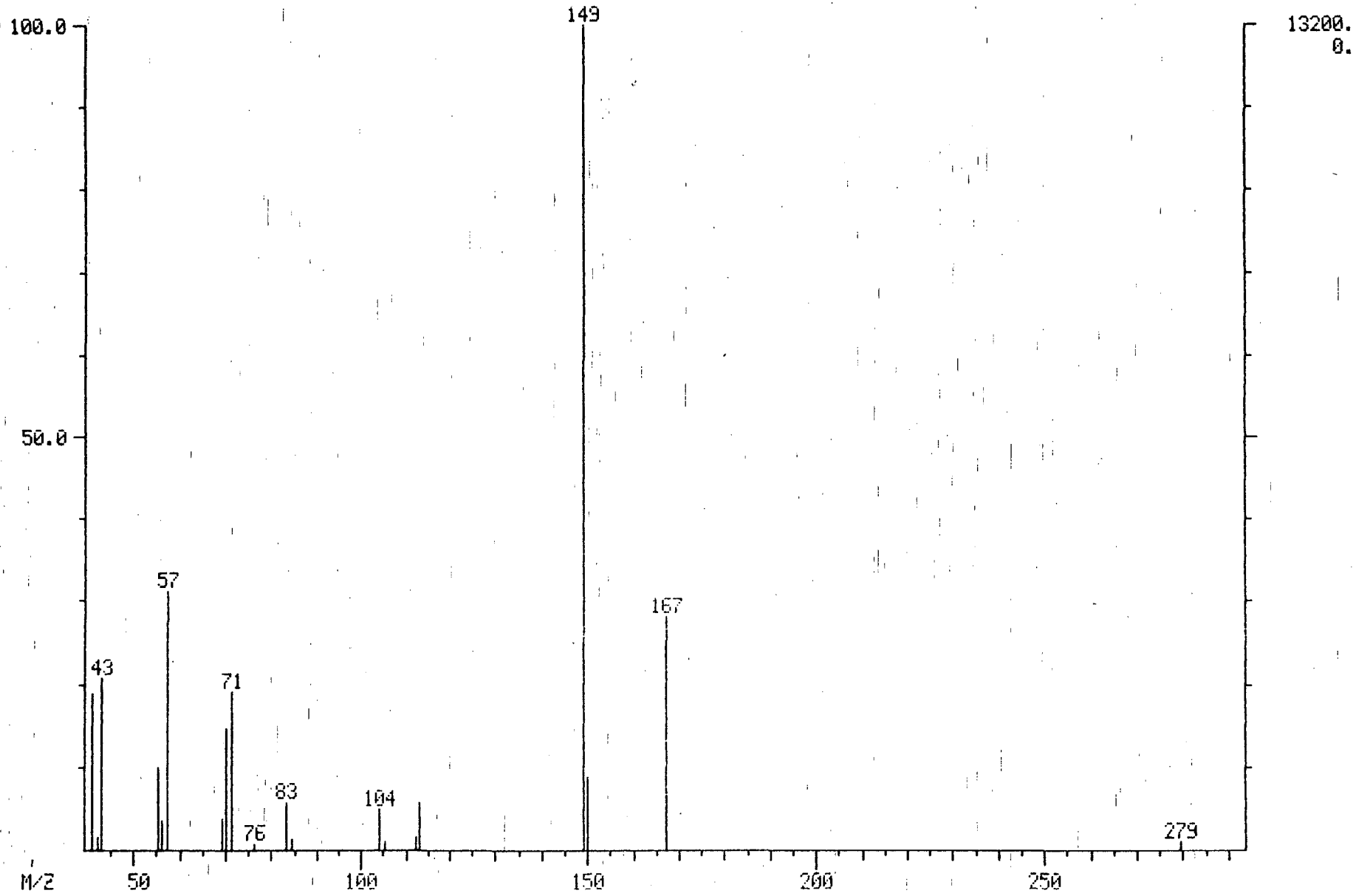


000526

MASS SPECTRUM
11/20/90 6:39:00 + 29:32
SAMPLE: AQ BLK 11/13
CONDS.: 1000ML5/1.0ML
TEMP: 290 DEG. C
NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: BWD1113 #2953
CALI: BWD1113 #3

BASE M/Z: 149
RIC: 37568.

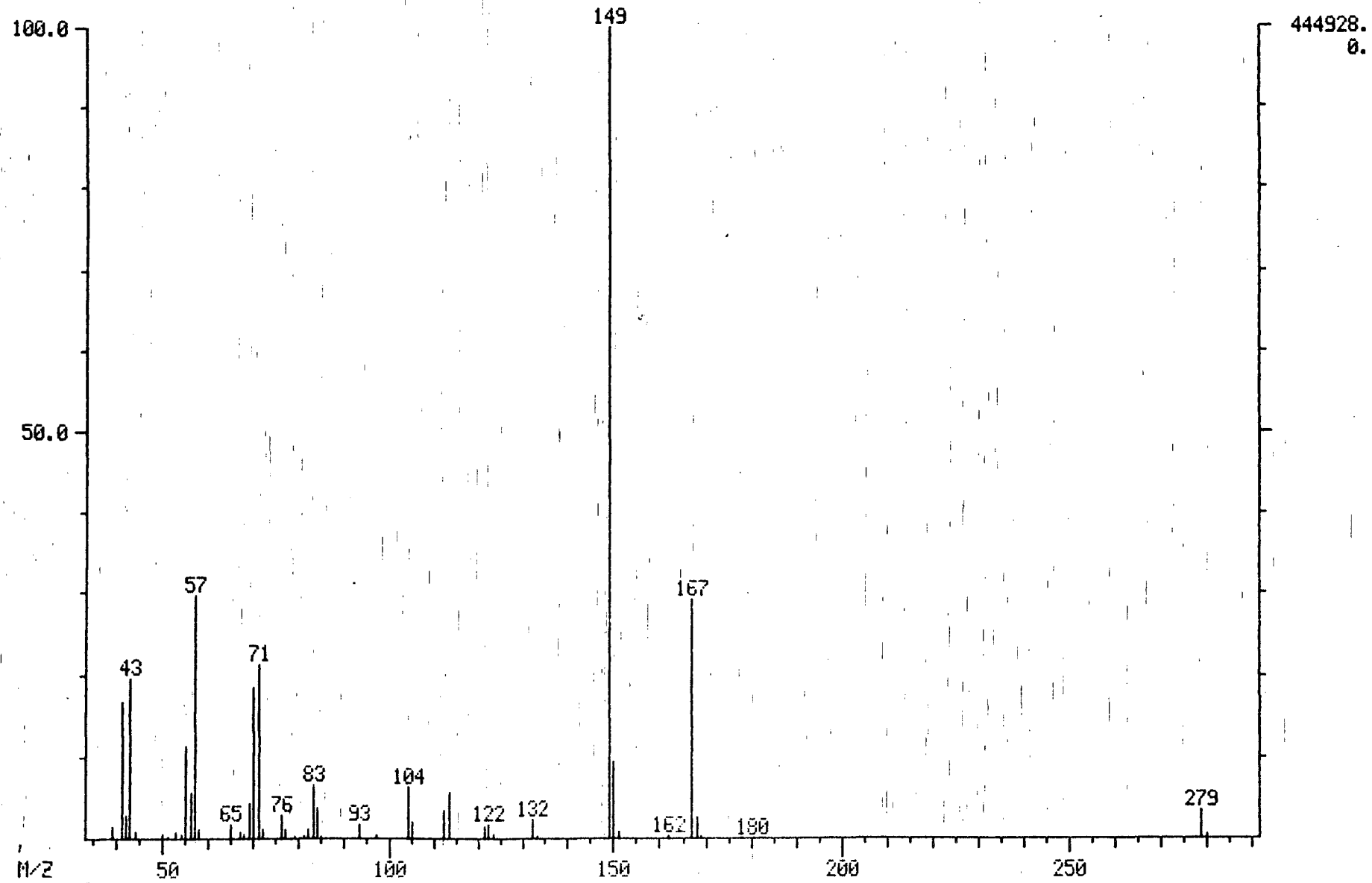


000527

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1454080.



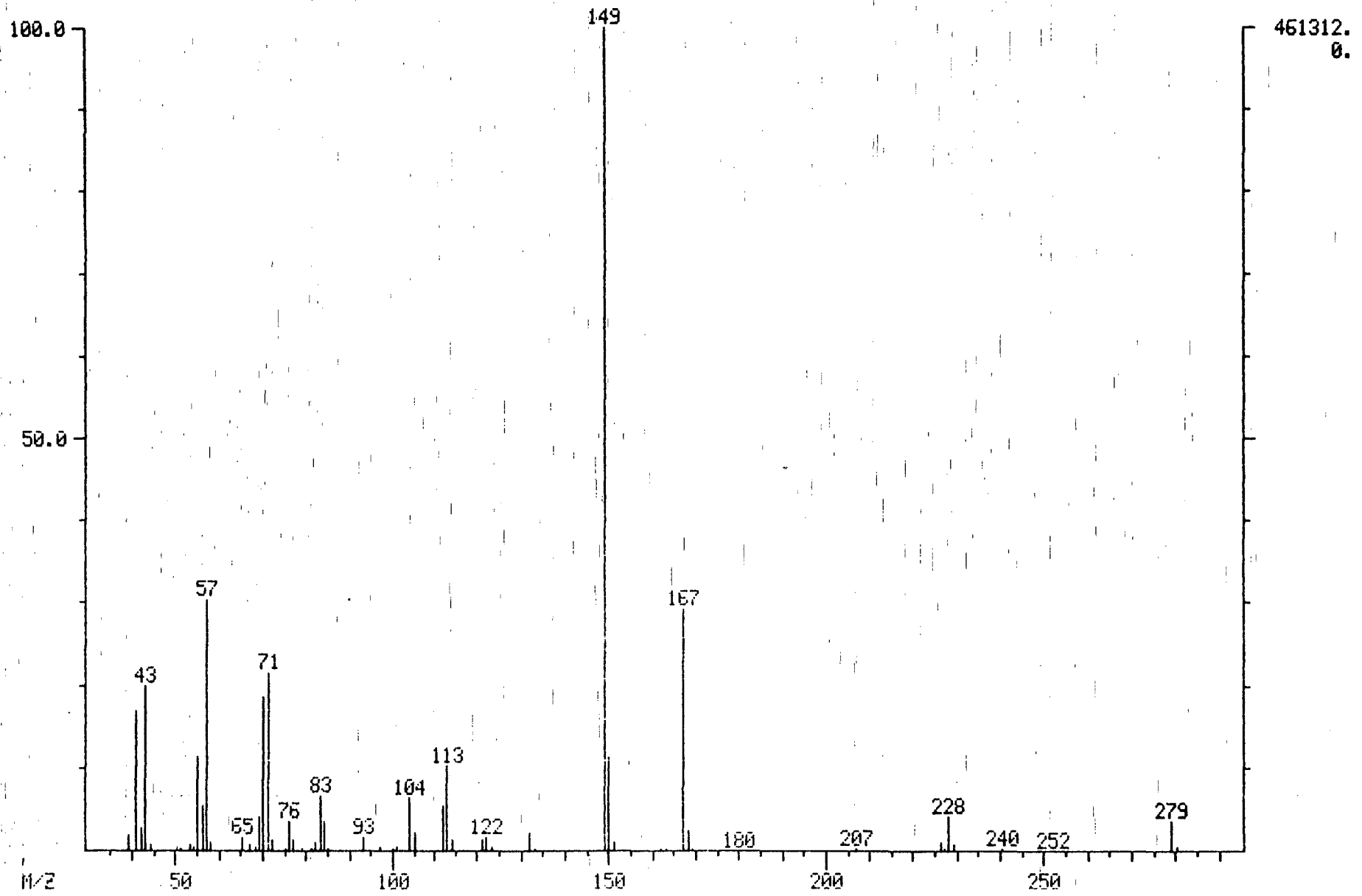
000528

MASS SPECTRUM
11/12/90 17:18:00 + 29:44
SAMPLE: HSL-D STAND 11/12/90
CONDS.: 50 NG INJECTION
TEMP: 290 DEG. C

DATA: HSD501112 #2974
CALI: HSD501112 #3

BASE M/Z: 149
RIC: 1609730.

NAME: C745 BIS(2-ETHYLHEXYL)PHTHALATE



000529

Quantitation Report File: BWD1113

Data: BWD1113.TI
11/20/90 6:39:00
Sample: AQ BLK 11/13
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC Analyst: LA Acct. No.: BWD1113

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

No	Name	
1	CI70 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	CS30 TERPHENYL D14	SURROGATE

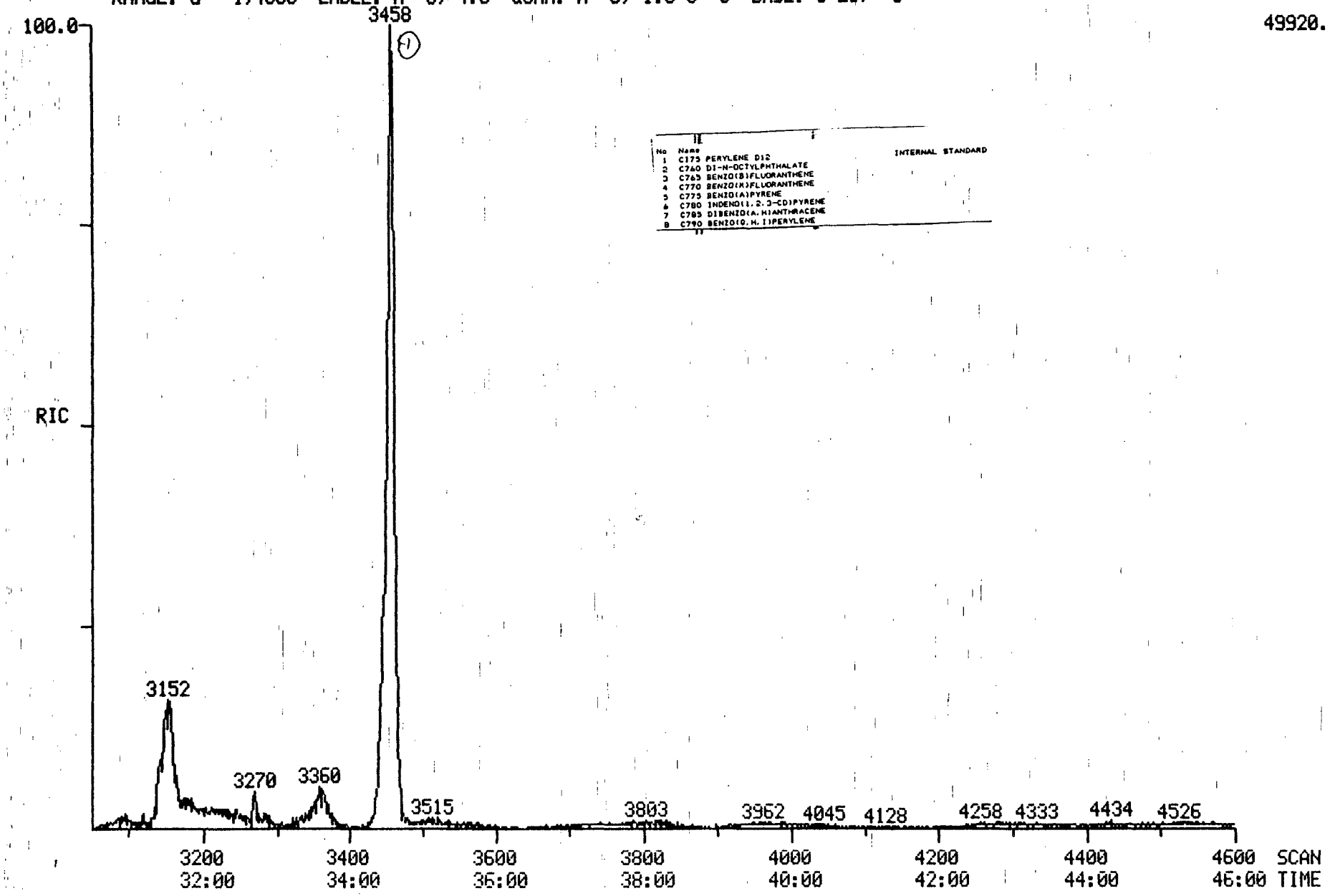
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	240	2938	29:23	1	1.000	A BB	155120.	40.000 UG/ML	17.18	
2	NOT FOUND									
3	202	2620	26:12	1	0.892	A BB	~~656.~~	~~0.077 UG/ML~~	~~0.03~~	NO WSS
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	149	2953	29:32	1	1.005	A BB	48000.	12.156 UG/ML	5.22	Yes WSS
8	NOT FOUND									
9	244	2666	26:40	1	0.907	A BB	1081200.	180.656 UG/ML	77.58	Yes WSS

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	29:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	26:01		0.885						
3	26:13	1.00	0.891	1.00	0.08	50.00	0.003	2.205	0.00
4	28:00		0.952						
5	29:21		0.998						
6	29:23		0.999						
7	29:33	1.00	1.005	1.00	12.16	50.00	0.248	1.018	0.24
8	29:23		0.999						
9	26:41	1.00	0.907	1.00	180.66	50.00	5.576	1.543	3.61

RIC
11/20/90 6:39:00
SAMPLE: AQ BLK 11/13
CONDS.: 1000MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BWD1113 #1
CALI: BWD1113 #3

SCANS 3050 TO 4600



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

0005231

Quantitation Report File: BWD1113

000532

Data: BWD1113.TI
11/20/90 6:39:00
Sample: AQ BLK 11/13
Conds.: 1000MLS/1.0ML
Formula: Instrument: FINN Weight: 0.000
Submitted by: QC Analyst: LA Acct. No.: BWD1113

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

No	Name	
1	CI75 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

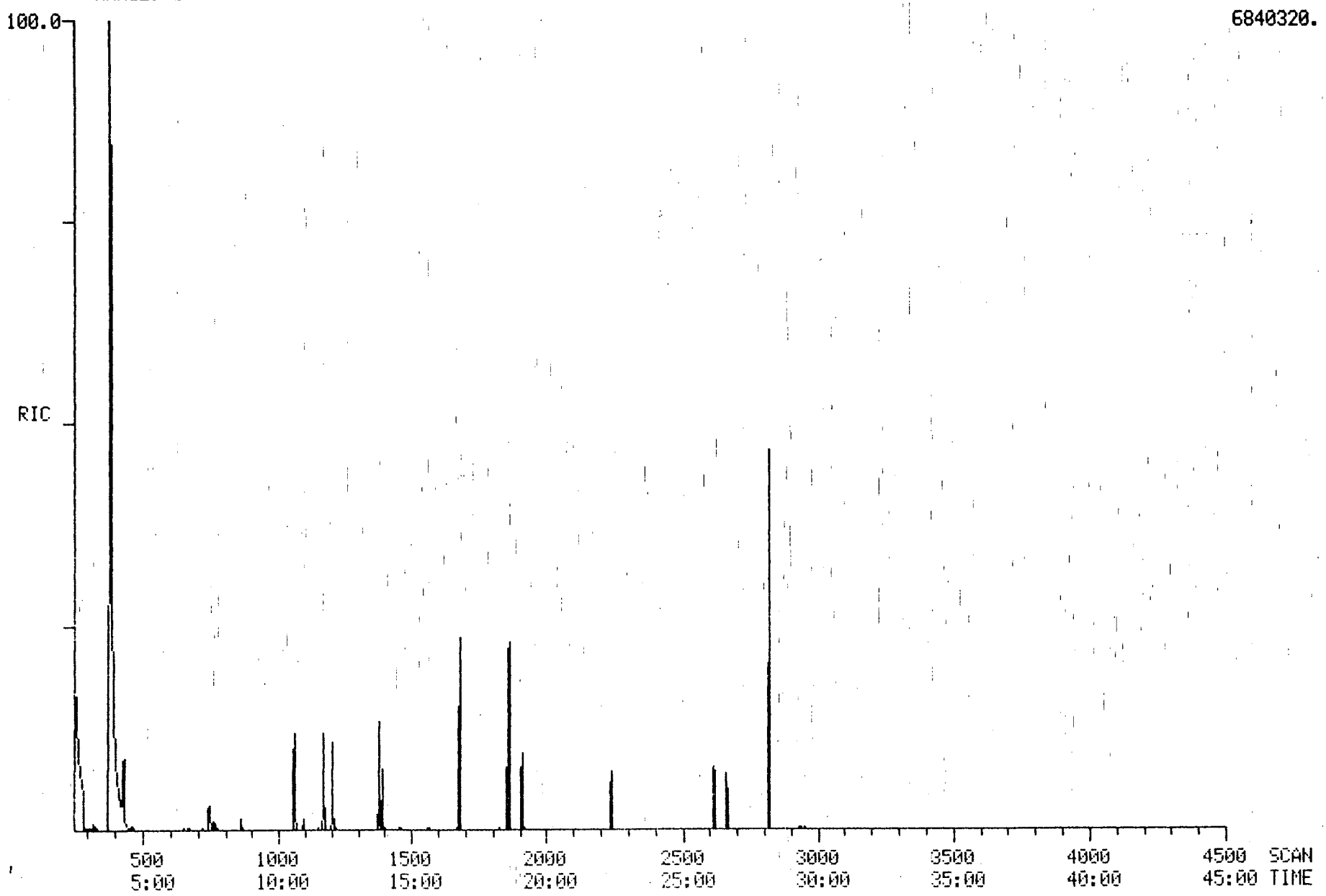
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	3458	34:35	1	1.000	A BB	124810.	40.000 UG/ML	*100.
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	34:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	31:38		0.914						
3	32:58		0.952						
4	33:04		0.955						
5	34:22		0.992						
6	40:52		1.181						
7	41:08		1.188						
8	42:48		1.236						

RIC
11/20/90 2:57:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 2964025 #1
CALI: CALTAB #3

SCANS 250 TO 4500

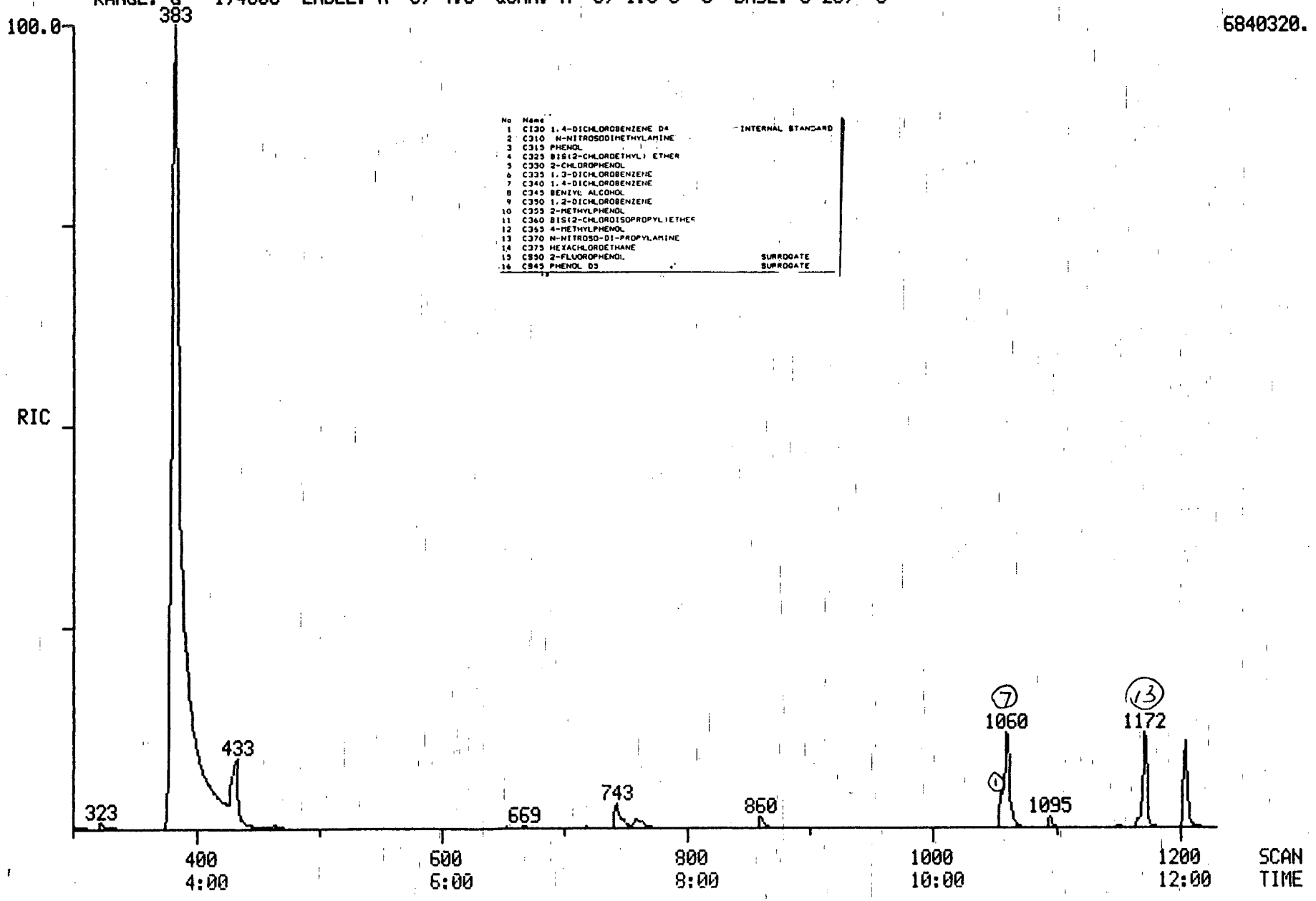


000533

RIC
11/20/90 2:57:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402S #1
CALI: 296402S #3

SCANS 300 TO 1230



6840320.

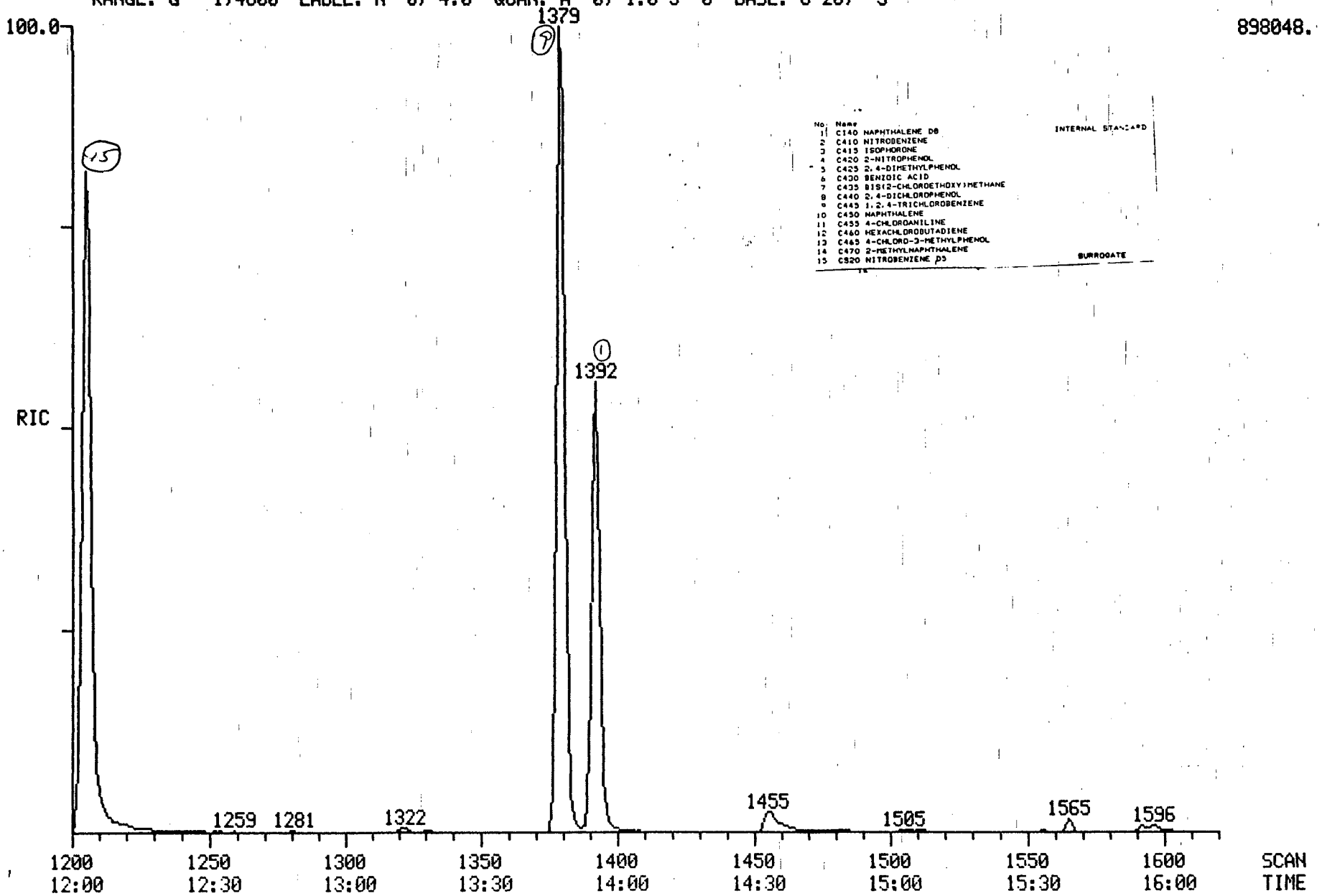
No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C950 2-FLUOROPHENOL	SURROGATE
16	C945 PHENOL D5	SURROGATE

0005534

RIC
11/20/90 2:57:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402S #1
CALI: 296402S #3

SCANS 1200 TO 1620



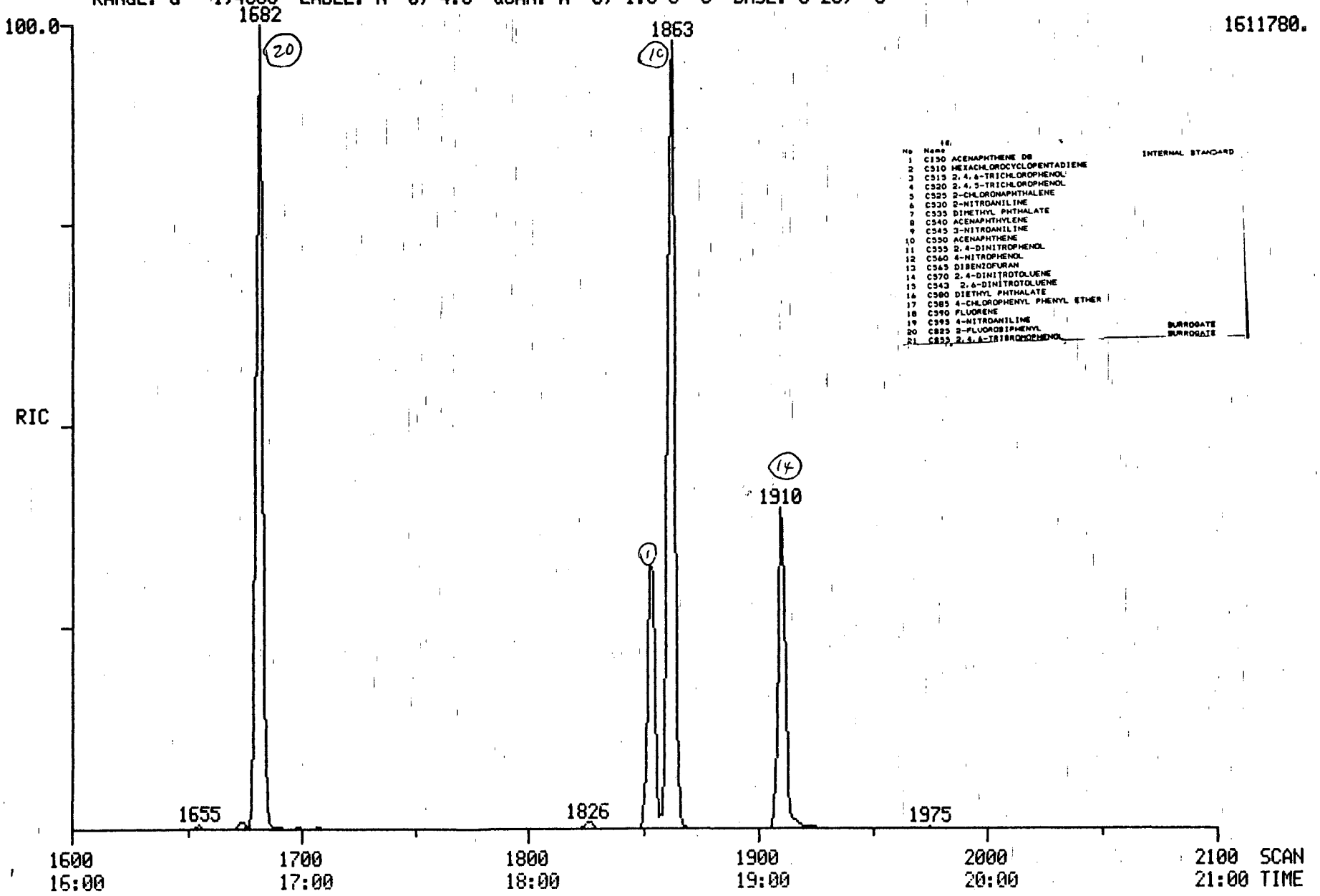
No.	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C520 NITROBENZENE D5	SURROGATE

000525

RIC
11/20/90 2:57:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402S #1
CALI: 296402S #3

SCANS 1600 TO 2100



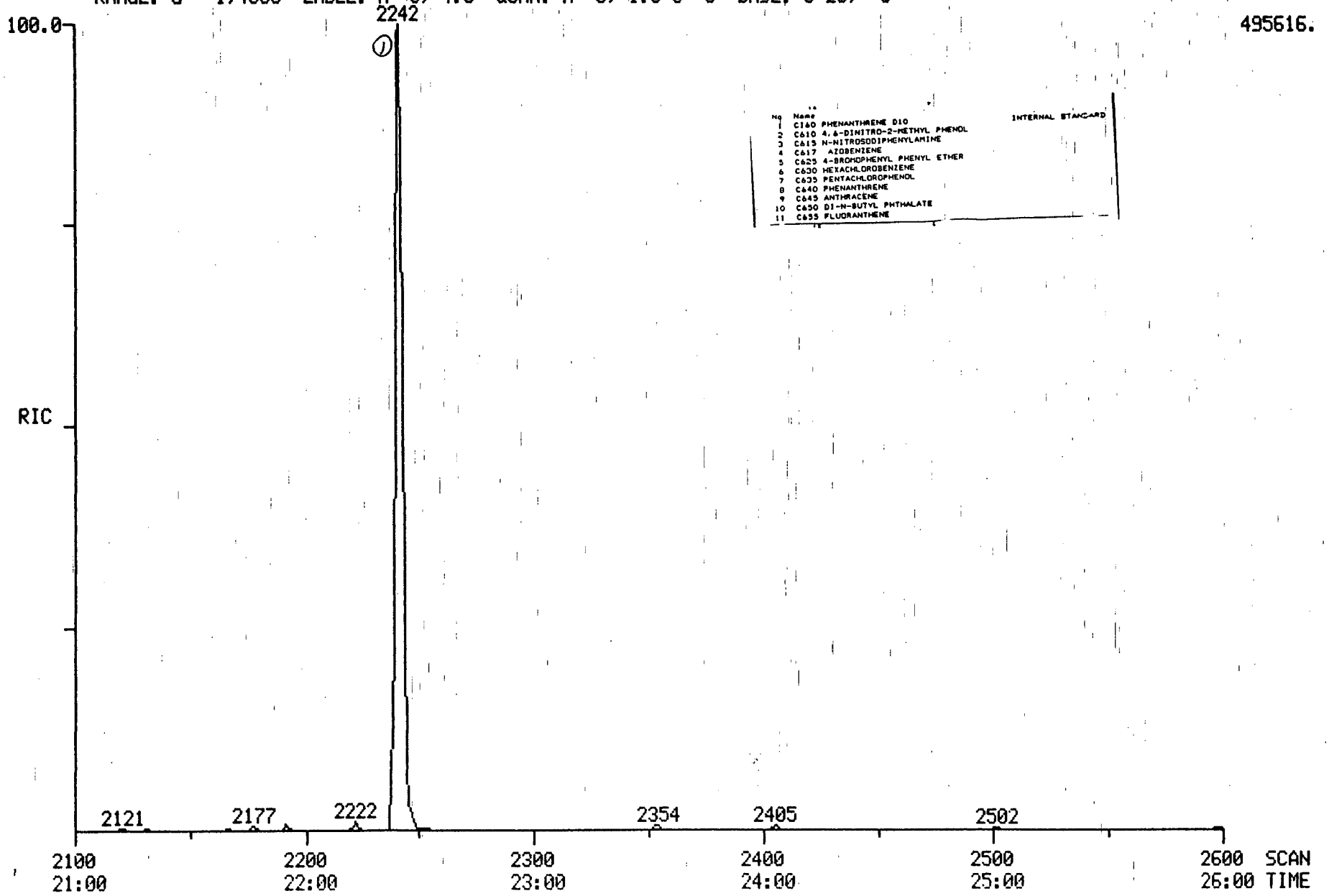
No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	SURROGATE
20	C825 2-FLUOROBIPHENYL	SURROGATE
21	C852 2,4,6-TRIBROMOPHENOL	

000526

RIC
11/20/90 2:57:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 2964025 #1
CALI: 2964025 #3

SCANS 2100 TO 2600



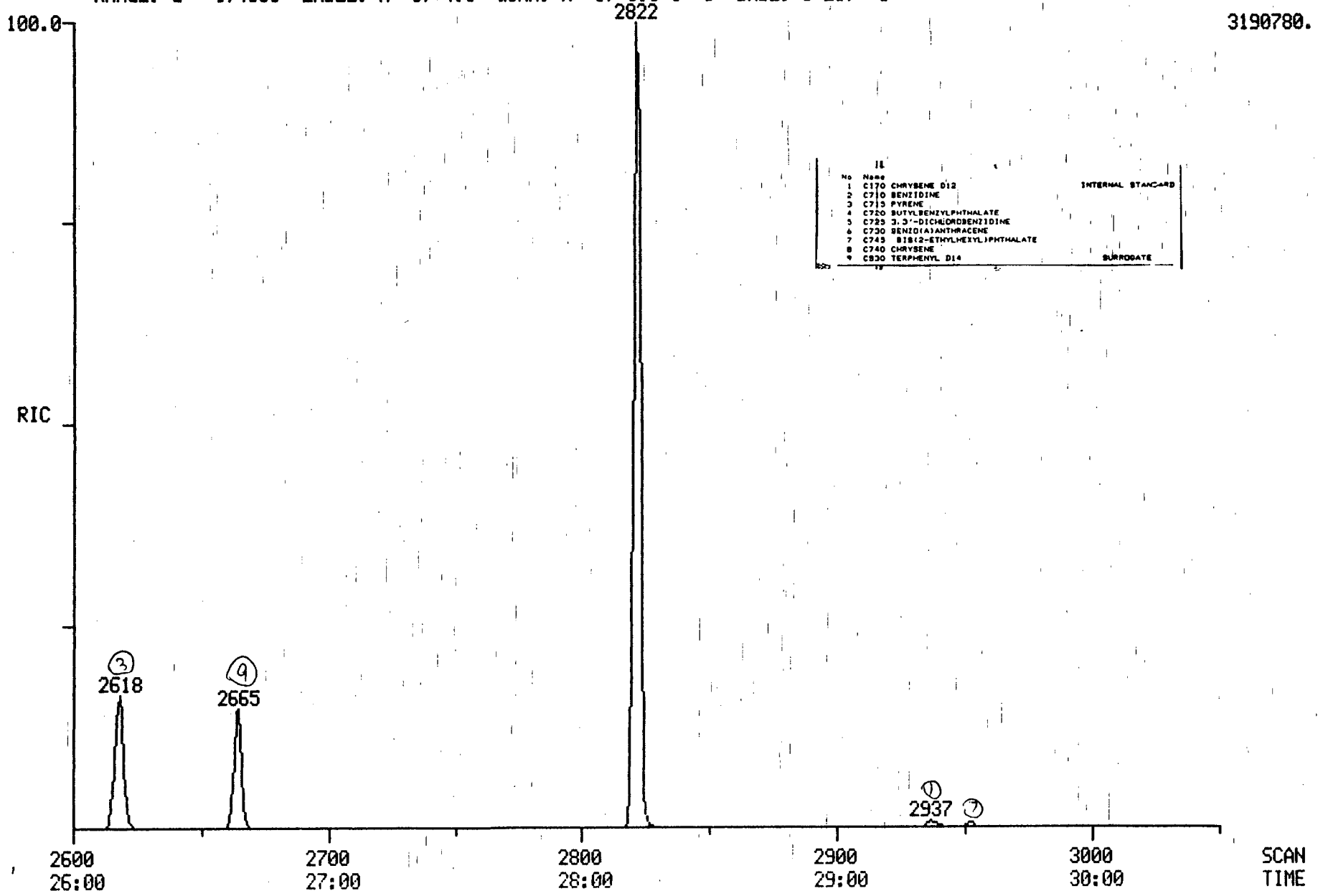
No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

0005327

RIC
11/20/90 2:57:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 2964025 #1
CALI: 2964025 #3

SCANS 2600 TO 3050



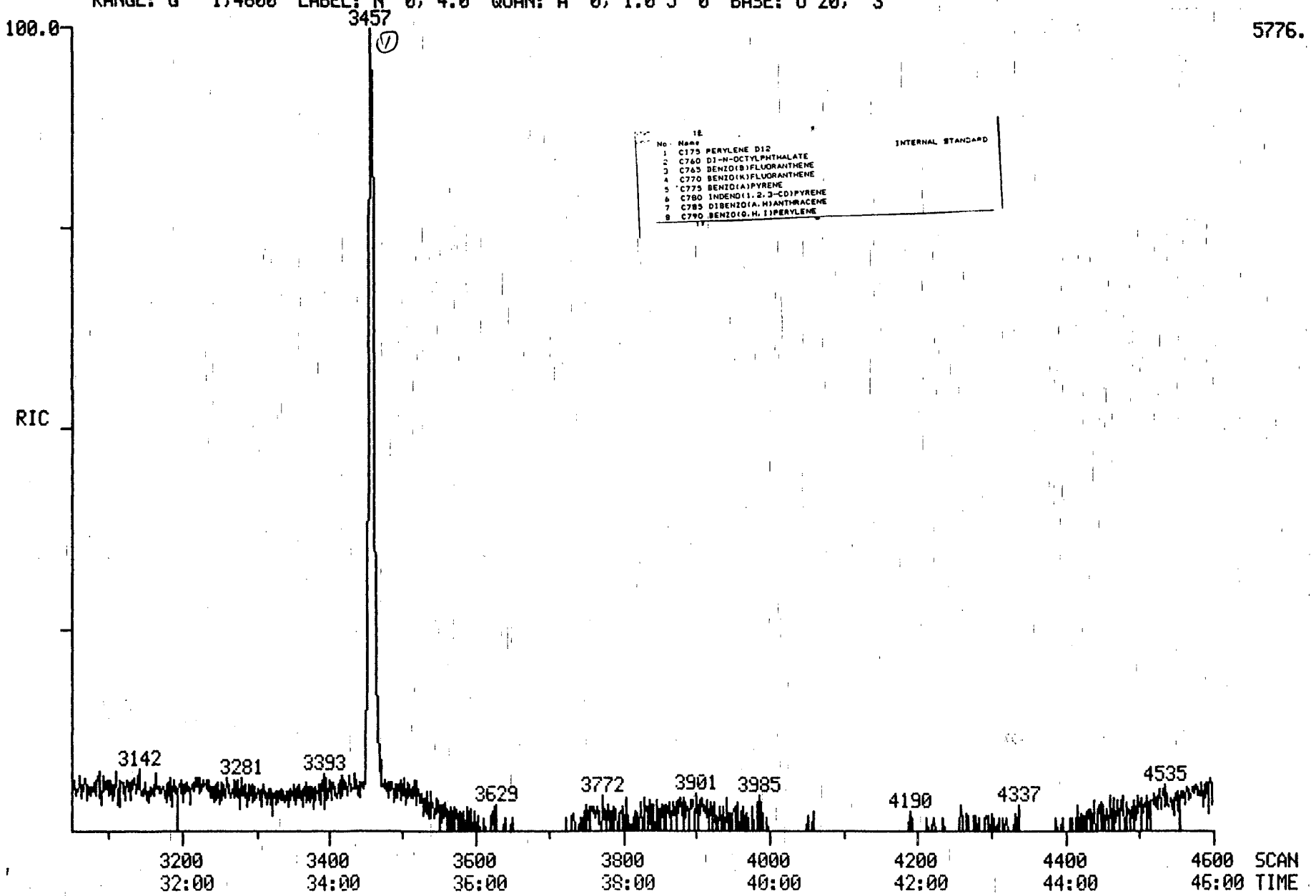
No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLORBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

0000538

RIC
11/20/90 2:57:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 2964025 #1
CALI: 2964025 #3

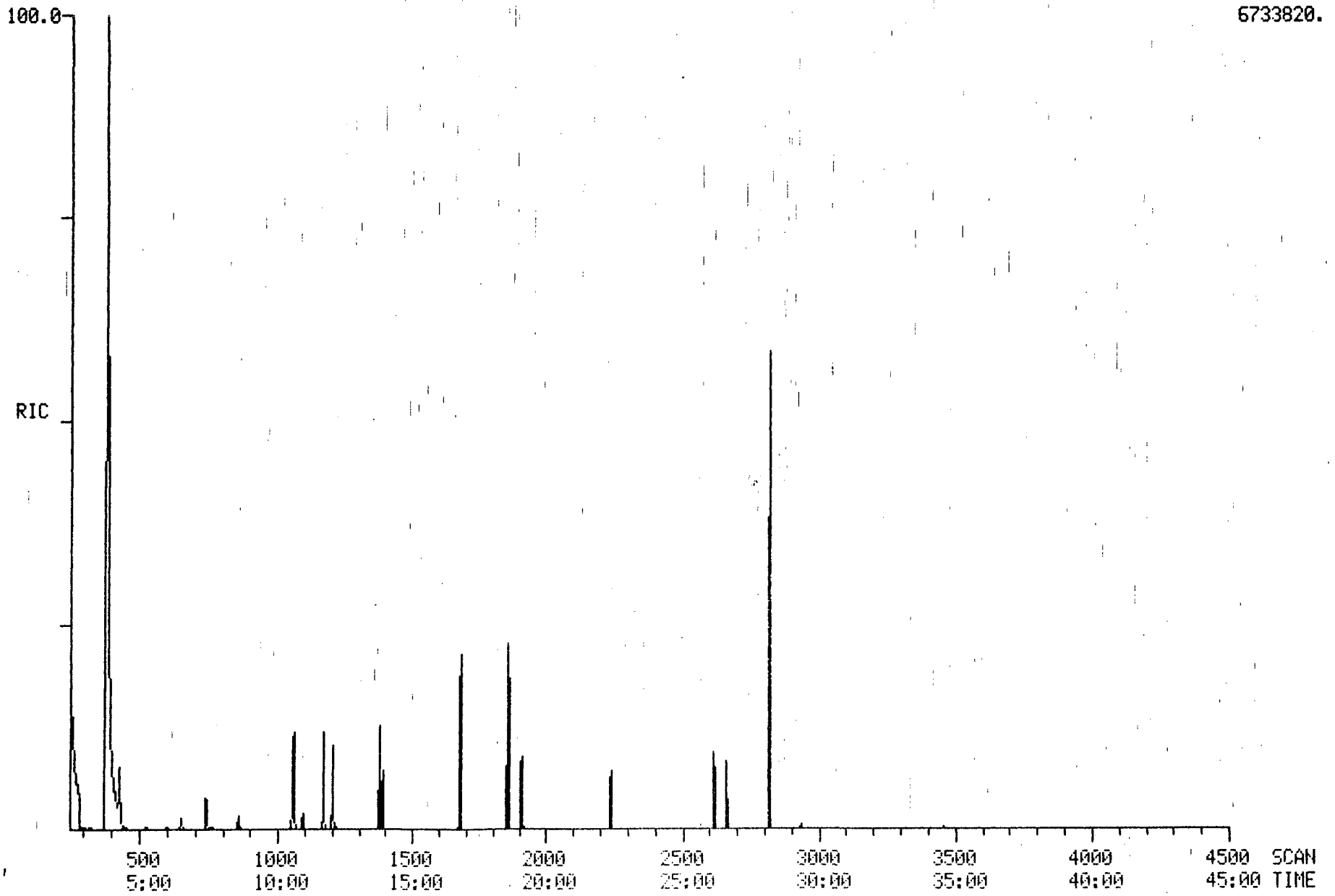
SCANS 3050 TO 4600



No.	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

RIC
11/20/90 3:53:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 2964025D #1 SCANS 250 TO 4500
CALI: CALTAB #3

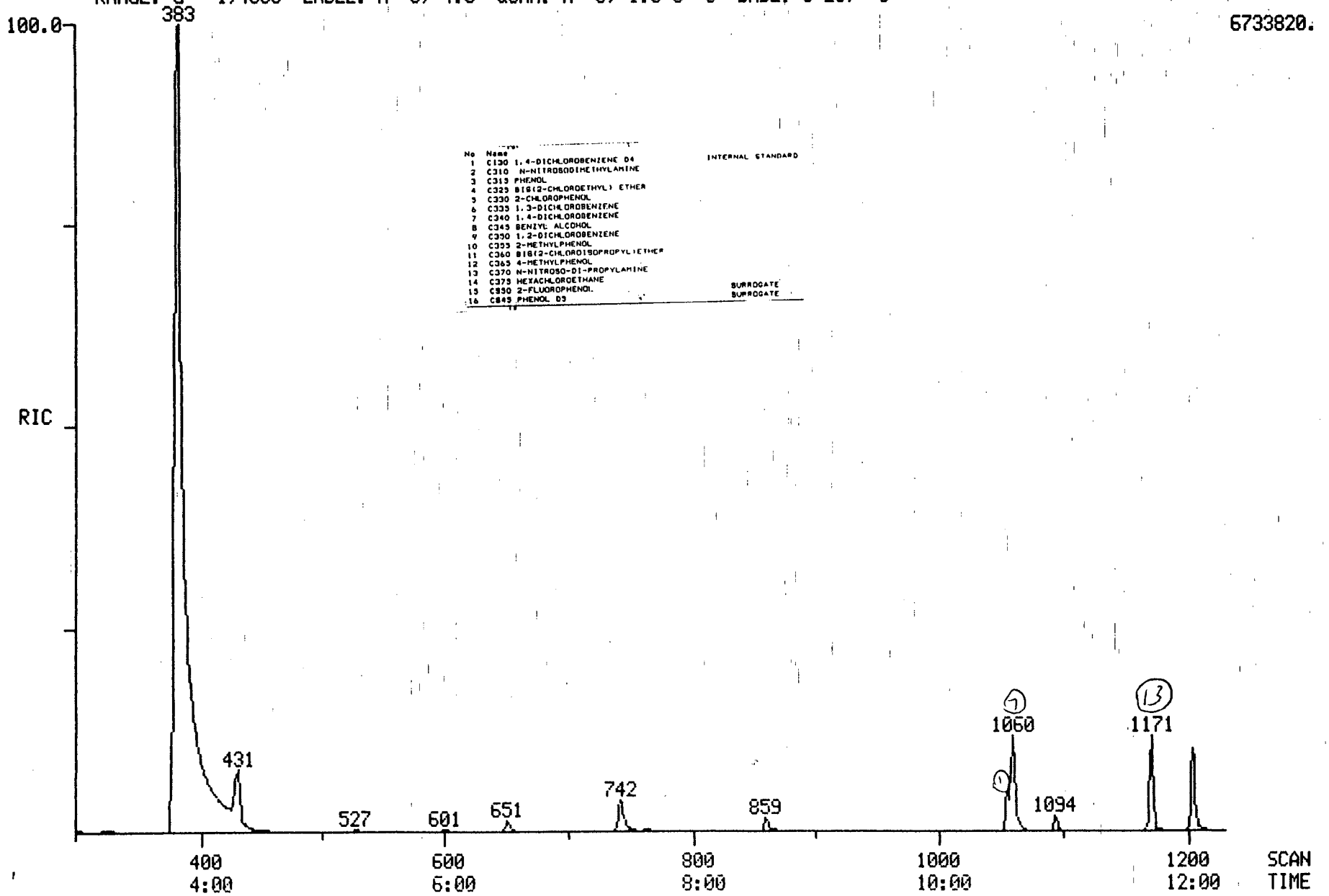


000540

RIC
11/20/90 3:53:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 2964025D #1
CALI: 2964025D #3

SCANS 300 TO 1230



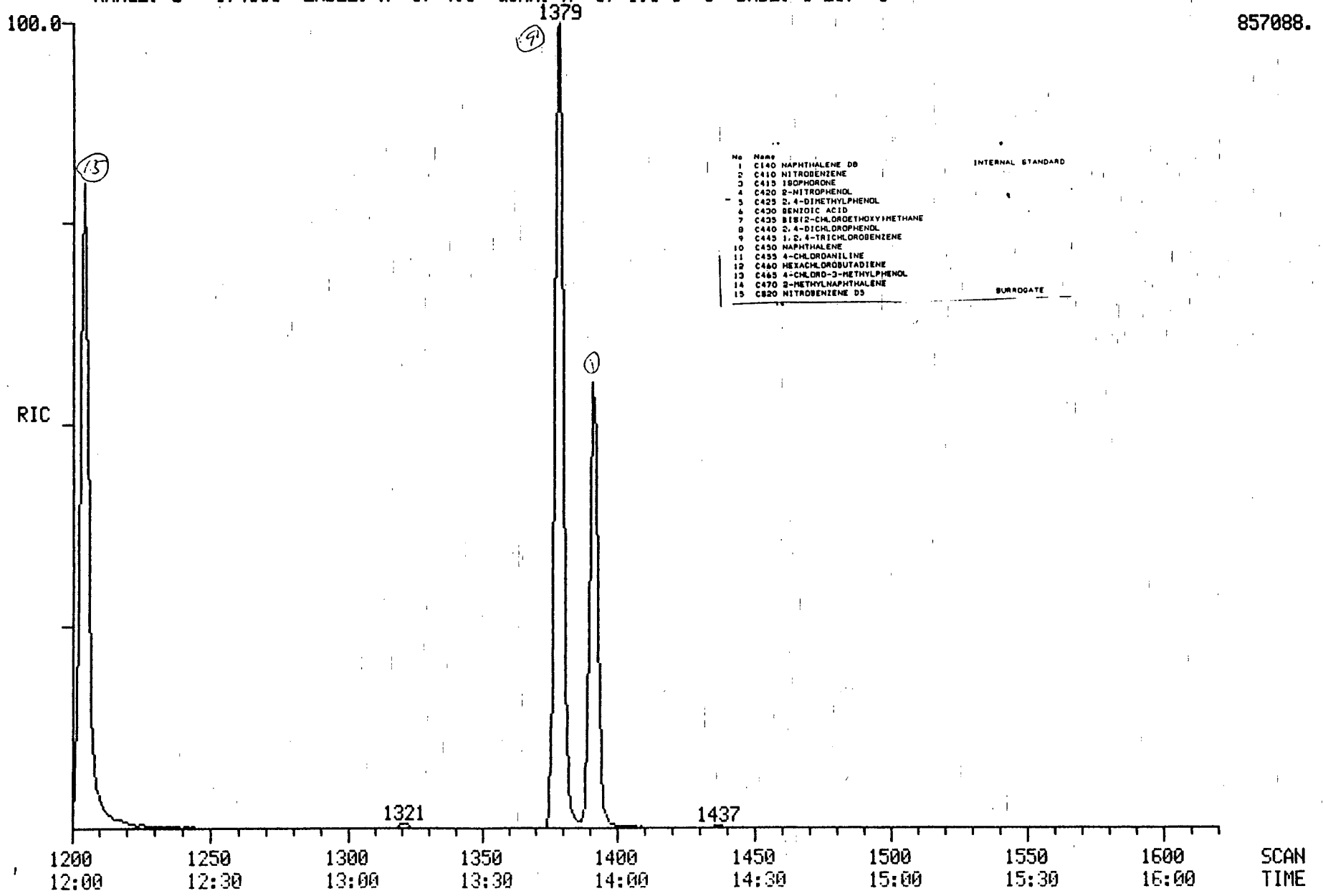
No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C380 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

0005541

RIC
11/20/90 3:53:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402SD #1
CALI: 296402SD #3

SCANS 1200 TO 1620



No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C820 NITROBENZENE D5	SURROGATE

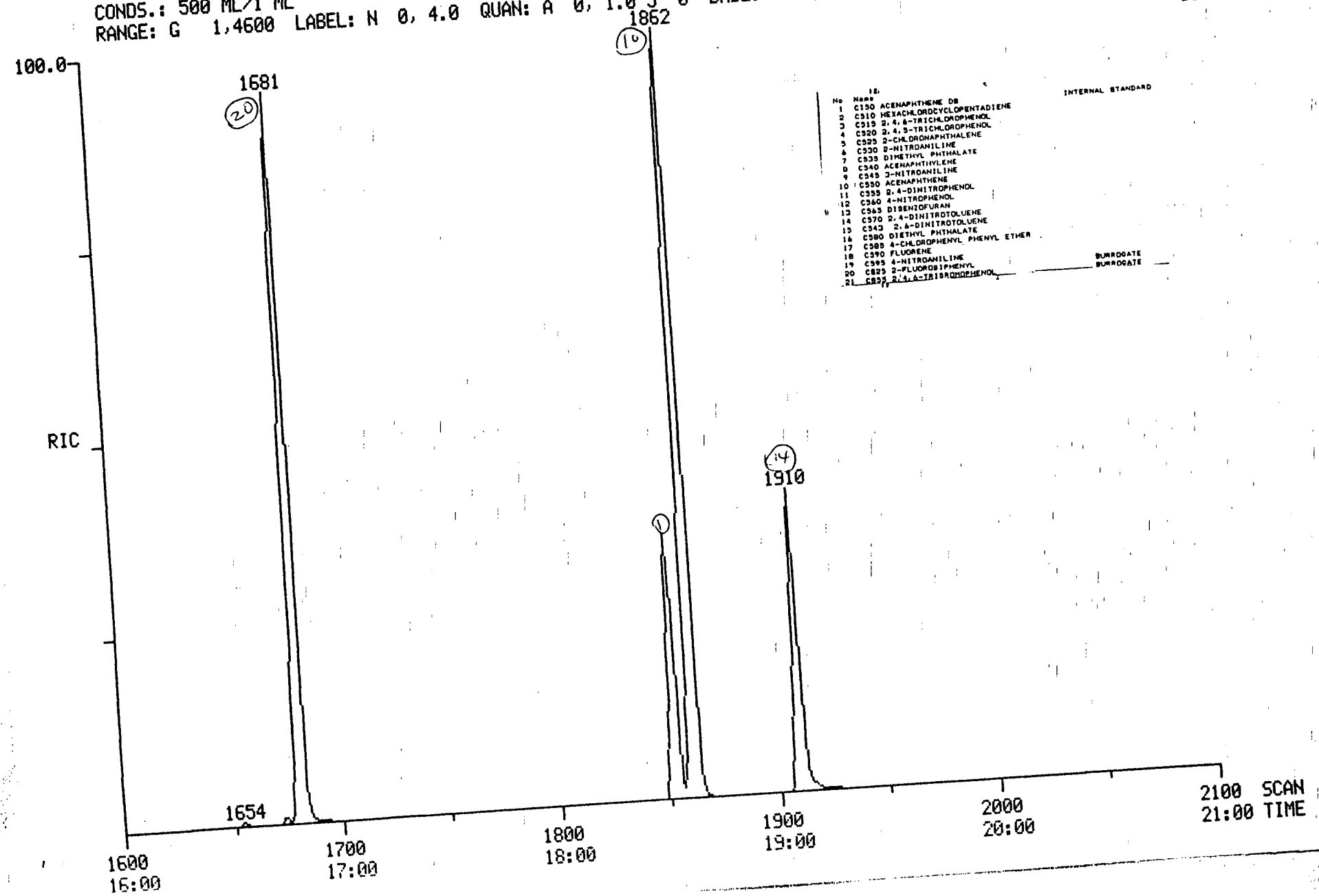
000342

DATA: 296402SD #1
CALI: 296402SD #3

SCANS 1600 TO 2100

RIC
11/20/90 3:53:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

1531900.



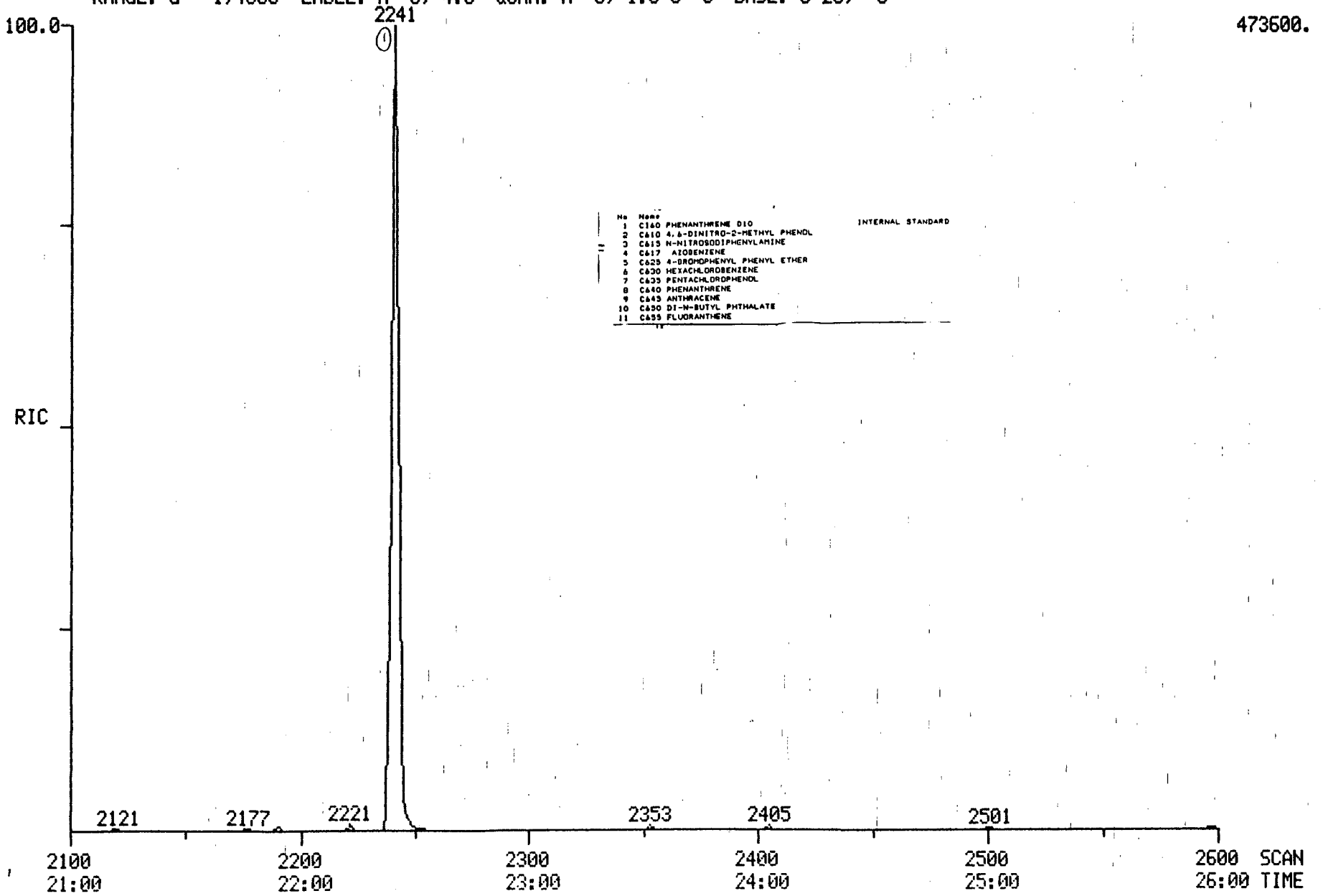
No	Name		
1	C150	ACENAPHTHENE D8	INTERNAL STANDARD
2	C310	HEXACHLOROCYCLOPENTADIENE	
3	C315	2,4,6-TRICHLOROPHENOL	
4	C320	2,4,5-TRICHLOROPHENOL	
5	C325	2-CHLORONAPHTHALENE	
6	C330	2-NITROANILINE	
7	C335	DIMETHYL PHTHALATE	
8	C340	ACENAPHTHYLENE	
9	C345	3-NITROANILINE	
10	C350	ACENAPHTHENE	
11	C355	2,4-DINITROPHENOL	
12	C360	4-NITROPHENOL	
13	C365	DIBENZOFURAN	
14	C370	2,4-DINITROTOLUENE	
15	C343	2,6-DINITROTOLUENE	
16	C380	DIETHYL PHTHALATE	
17	C385	4-CHLOROPHENYL PHENYL ETHER	
18	C390	FLUORENE	
19	C395	4-NITROANILINE	SURROGATE
20	C825	2-FLUOROBIPHENYL	SURROGATE
21	C855	2,4,6-TRIBROMOPHENOL	

000543

RIC
11/20/90 3:53:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402SD #1
CALI: 296402SD #3

SCANS 2100 TO 2600



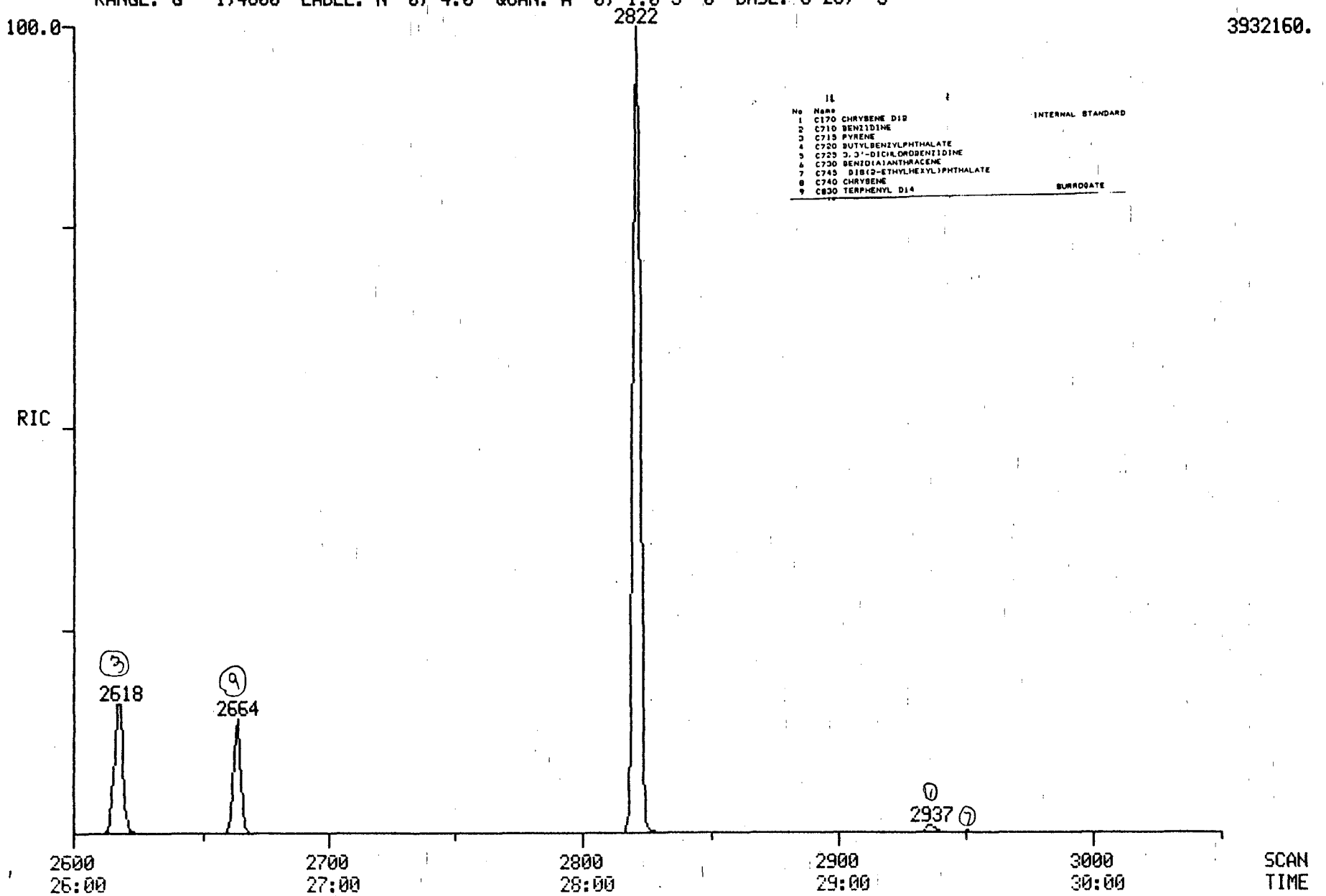
No	Name	
1	C140 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000544

RIC
11/20/90 3:53:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 2964025D #1
CALI: 2964025D #3

SCANS 2600 TO 3050



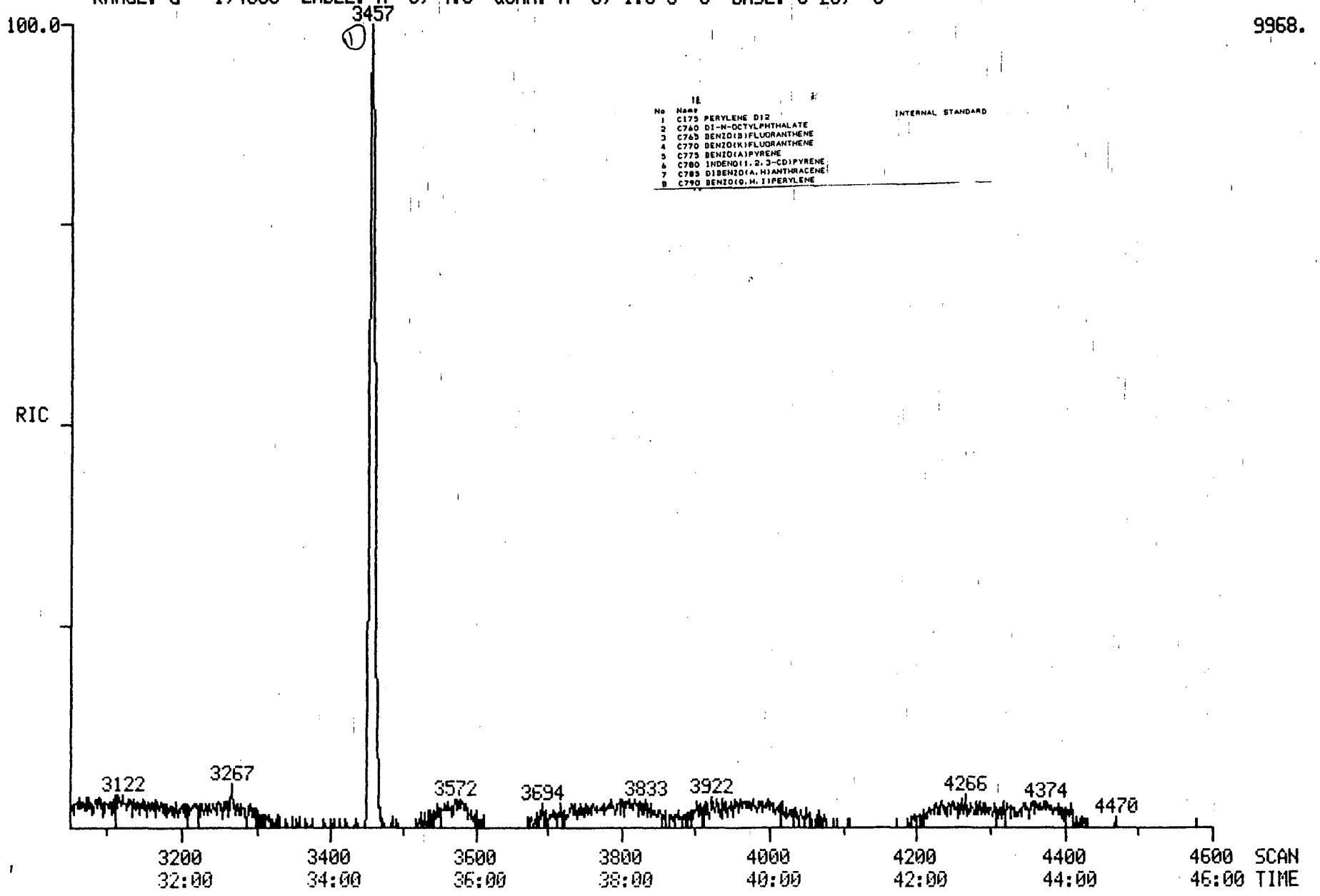
No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000545

RIC
11/20/90 3:53:00
SAMPLE: 14C
CONDS.: 500 ML/1 ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 296402SD #1
CALI: 296402SD #3

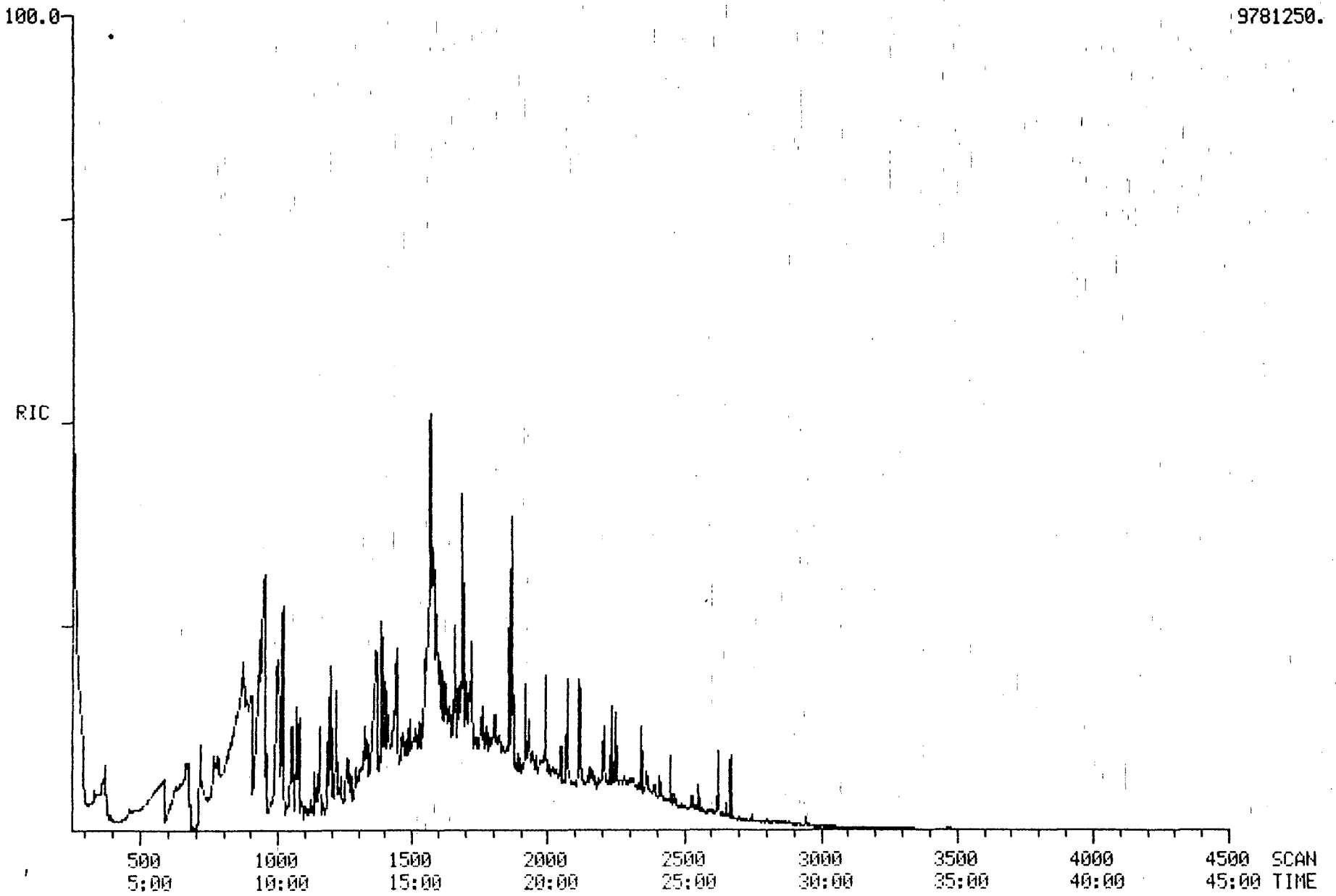
SCANS 3050 TO 4600



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000546

RIC DATA: 297726S #1 SCANS 250 TO 4500
11/15/90 17:18:00 CALI: CALTAB #3
SAMPLE: WATER MONTHLY NOVEMBER SPIKE
CONDS.: 950ML5/1.0ML
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

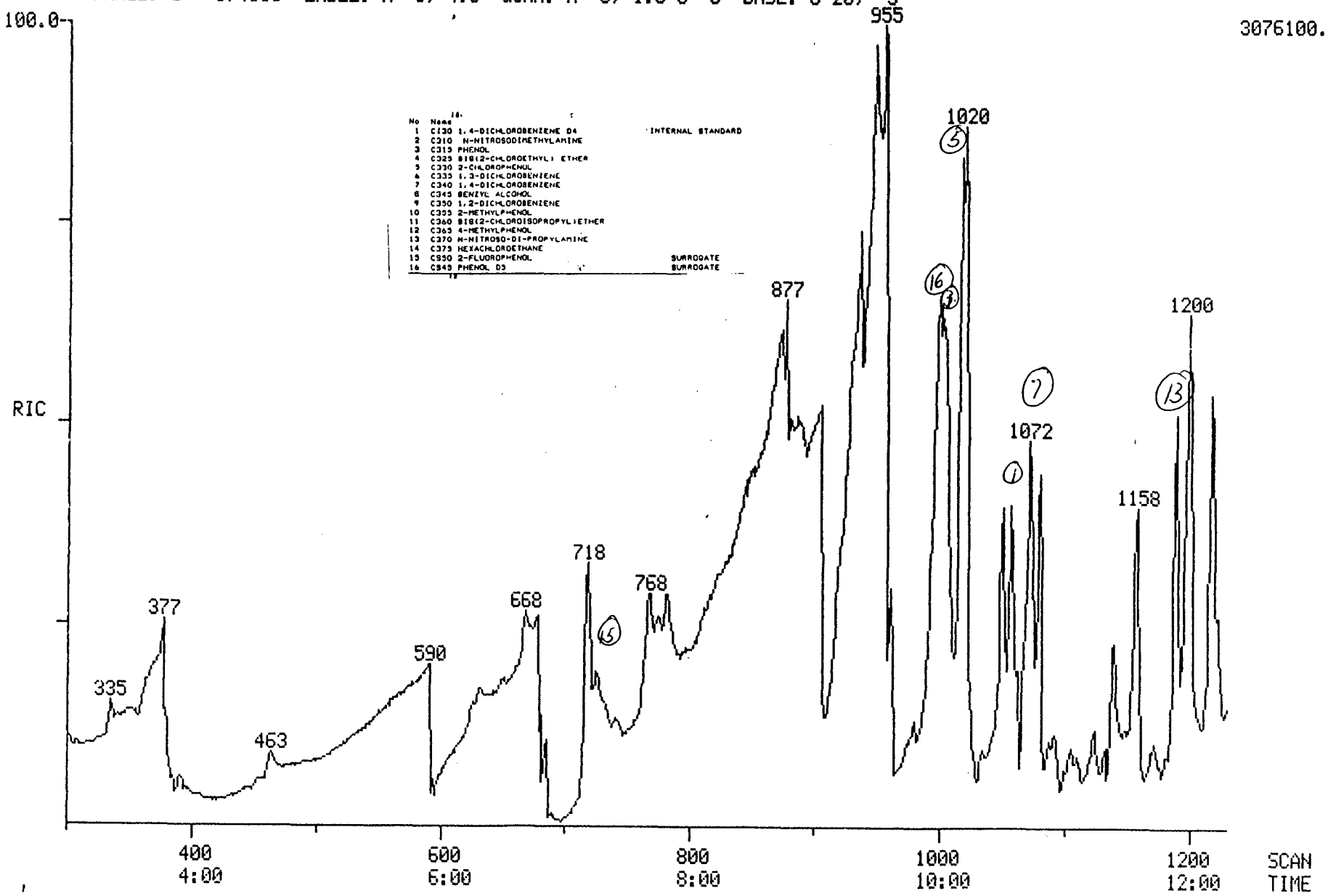


000547

RIC
11/15/90 17:18:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE
CONDS.: 950MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726S #1
CALI: 297726S #3

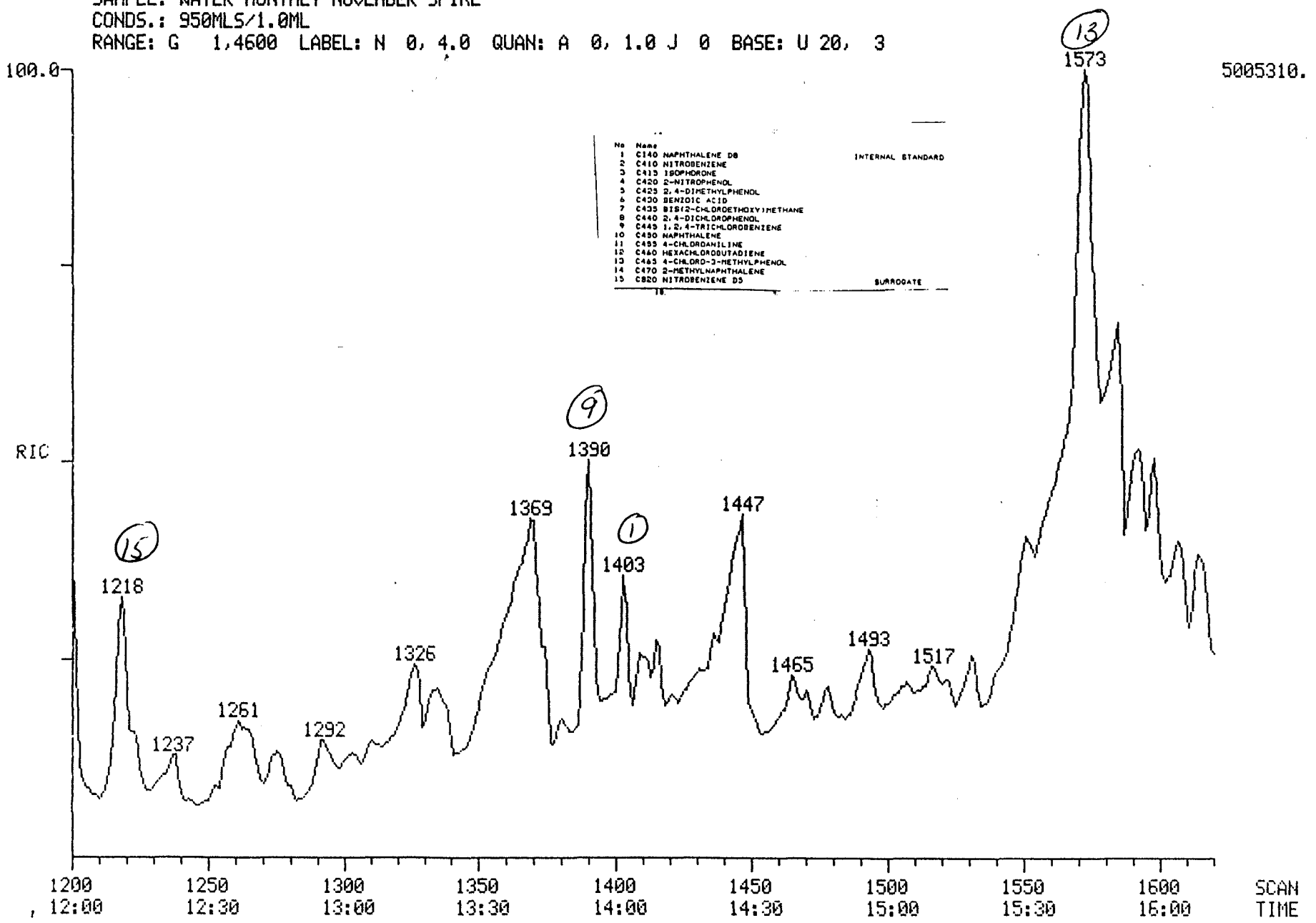
SCANS 300 TO 1230



No	Name	
1	C330 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C310 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL) ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C950 2-FLUOROPHENOL	SURROGATE
16	C945 PHENOL D5	SURROGATE

000548

RIC DATA: 2977265 #1 SCANS 1200 TO 1620
11/15/90 17:18:00 CALI: 2977265 #3
SAMPLE: WATER MONTHLY NOVEMBER SPIKE
CONDS.: 950MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

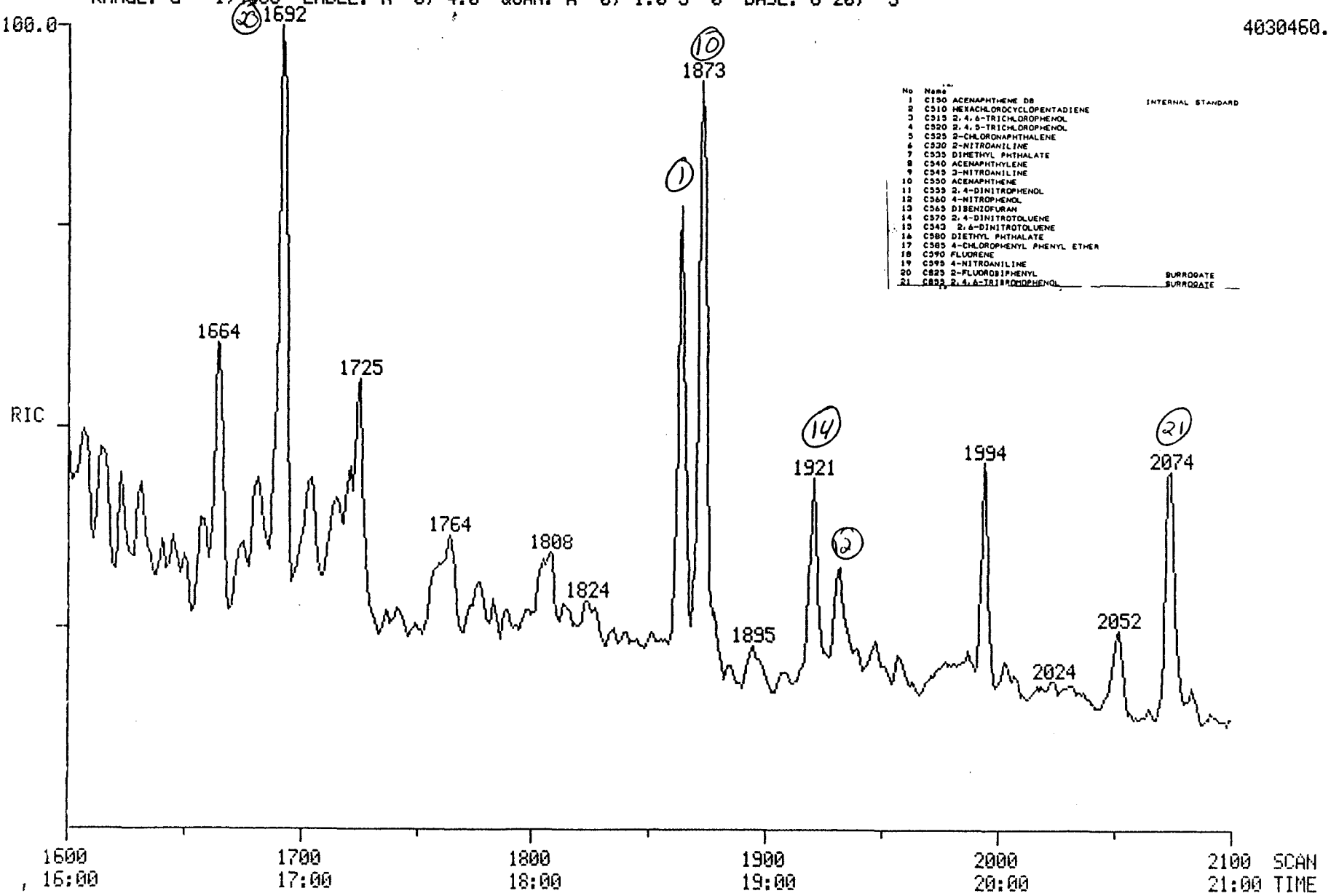


000079

RIC
11/15/90 17:18:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE
CONDS.: 950MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726S #1
CALI: 297726S #3

SCANS 1600 TO 2100



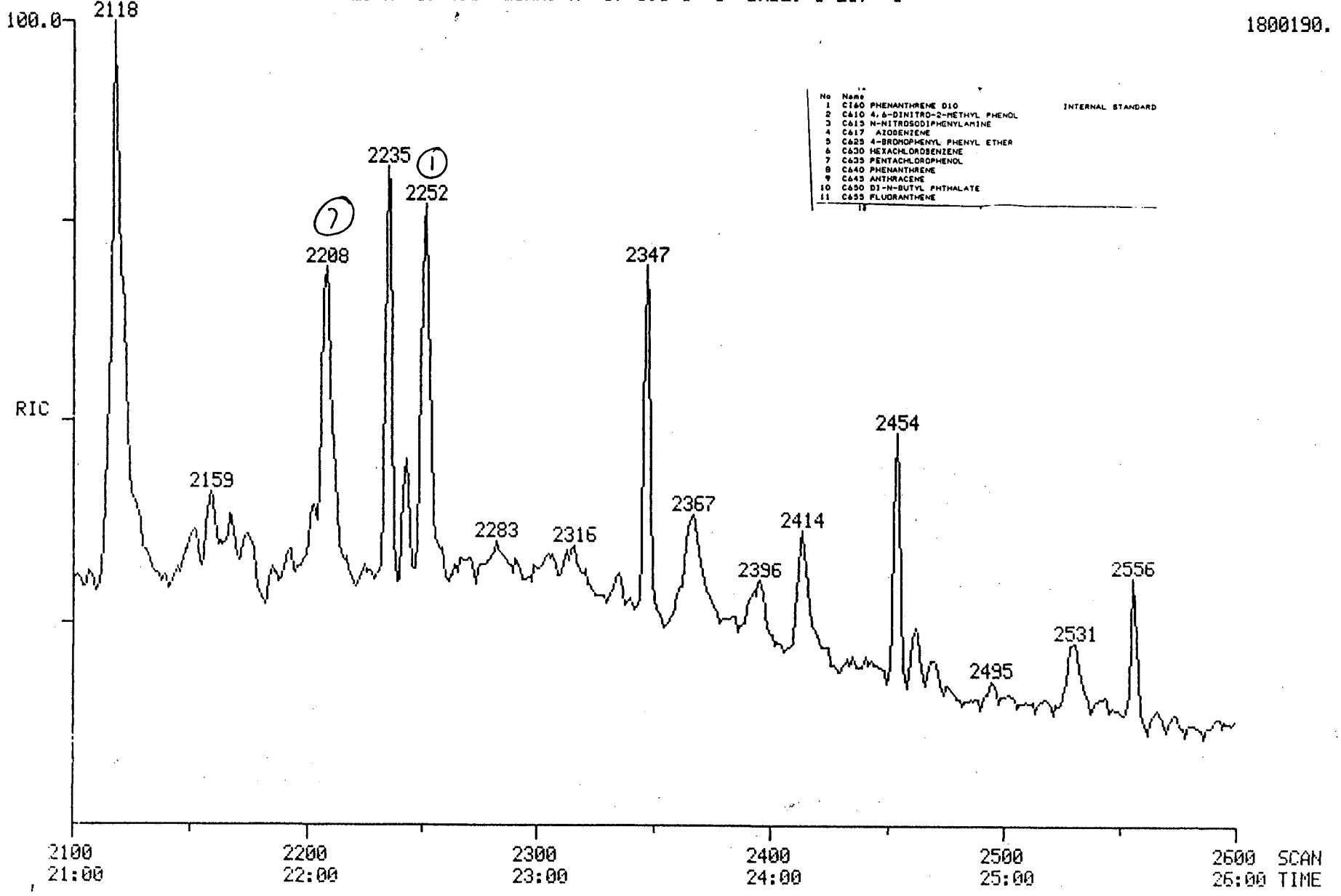
No	Name	
1	C150 ACENAPHTHENE D8	INTERNAL STANDARD
2	C510 HEXACHLOROCYCLOPENTADIENE	
3	C515 2,4,6-TRICHLOROPHENOL	
4	C520 2,4,5-TRICHLOROPHENOL	
5	C525 2-CHLORONAPHTHALENE	
6	C530 2-NITROANILINE	
7	C535 DIMETHYL PHTHALATE	
8	C540 ACENAPHTHYLENE	
9	C545 3-NITROANILINE	
10	C550 ACENAPHTHENE	
11	C555 2,4-DINITROPHENOL	
12	C560 4-NITROPHENOL	
13	C565 DIBENZOFURAN	
14	C570 2,4-DINITROTOLUENE	
15	C543 2,6-DINITROTOLUENE	
16	C580 DIETHYL PHTHALATE	
17	C585 4-CHLOROPHENYL PHENYL ETHER	
18	C590 FLUORENE	
19	C595 4-NITROANILINE	
20	C825 2-FLUOROBIPHENYL	SURROGATE
21	C833 2,4,6-TRIBROMOPHENOL	SURROGATE

000550

RIC
11/15/90 17:18:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE
CONDS.: 950MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726S #1
CALI: 297726S #3

SCANS 2100 TO 2600



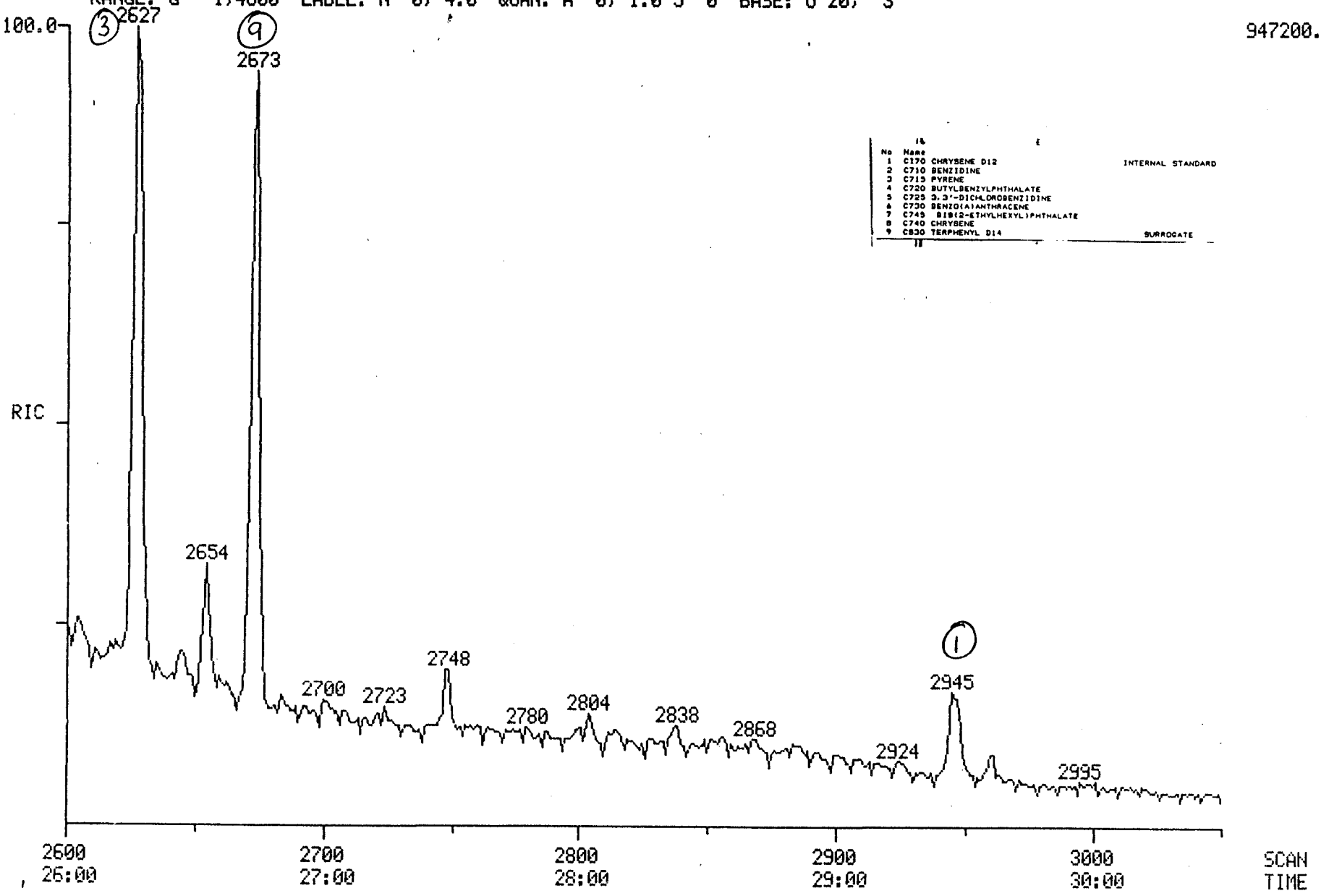
No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000551

RIC
11/15/90 17:18:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE
CONDS.: 950MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726S #1
CALI: 297726S #3

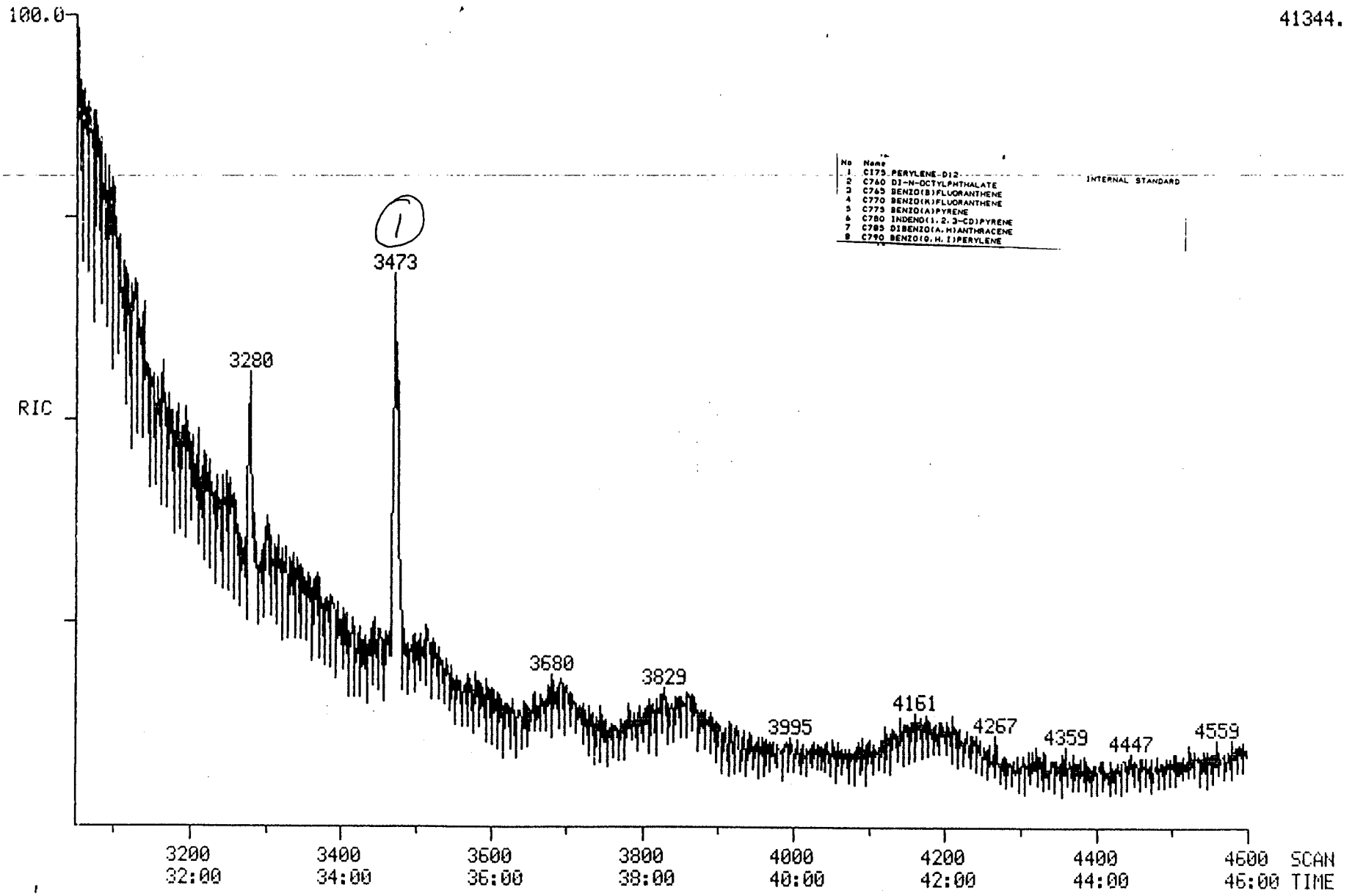
SCANS 2600 TO 3050



No	Name		
1	C170 CHRYSENE D12		INTERNAL STANDARD
2	C710 BENZIDINE		
3	C715 PYRENE		
4	C720 BUTYLBENZYLPHTHALATE		
5	C725 3,3'-DICHLOROBENZIDINE		
6	C730 BENZO(A)ANTHRACENE		
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE		
8	C740 CHRYSENE		
9	C830 TERPHENYL D14		SURROGATE

000532

RIC DATA: 297726S #1 SCANS 3050 TO 4600
11/15/90 17:18:00 CALI: 297726S #3
SAMPLE: WATER MONTHLY NOVEMBER SPIKE
CONDS.: 950MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

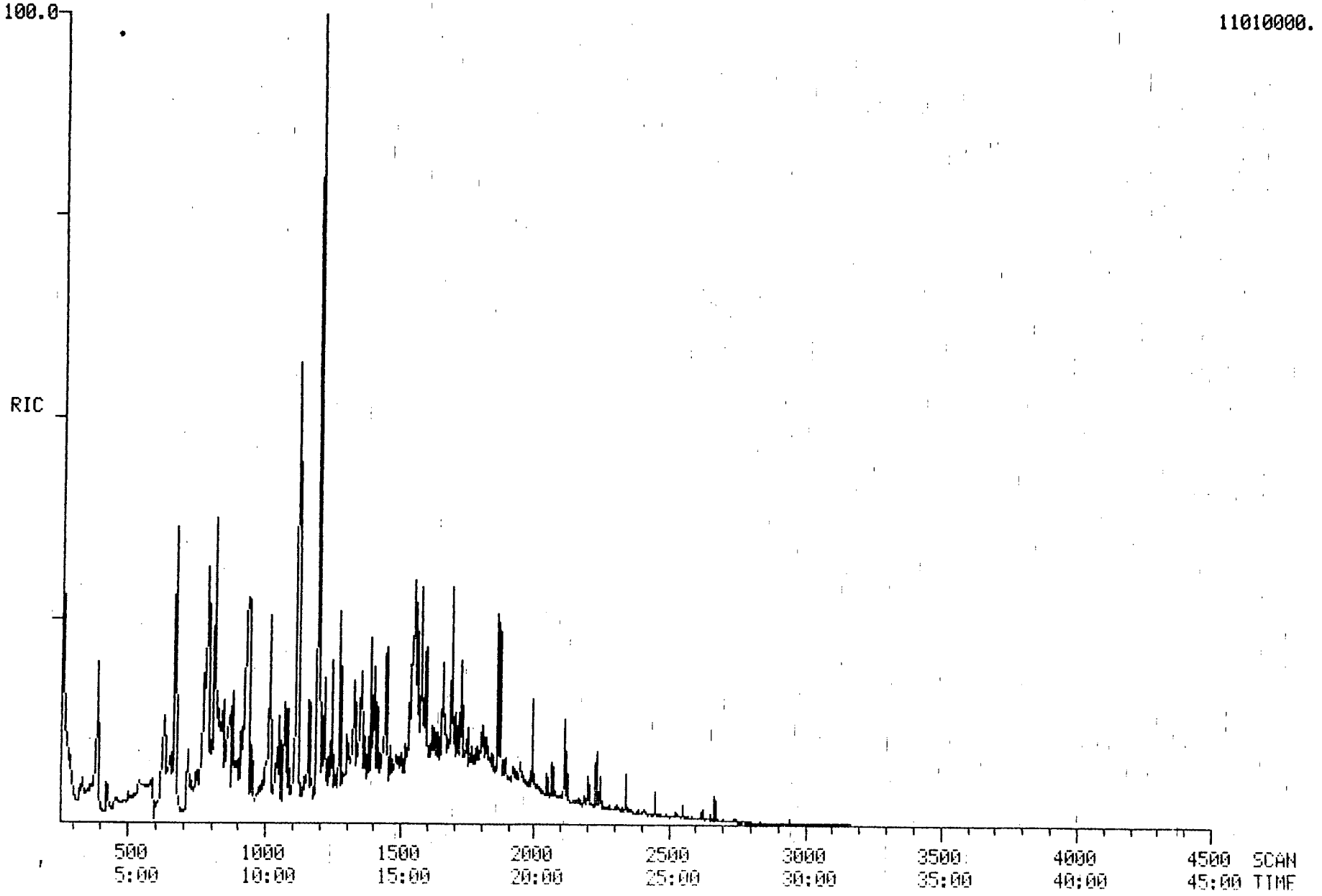


000523

RIC
11/15/90 18:09:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE DUP
CONDS.: 970ML5/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726SD #1
CALI: CALTAB #3

SCANS 250 TO 4500

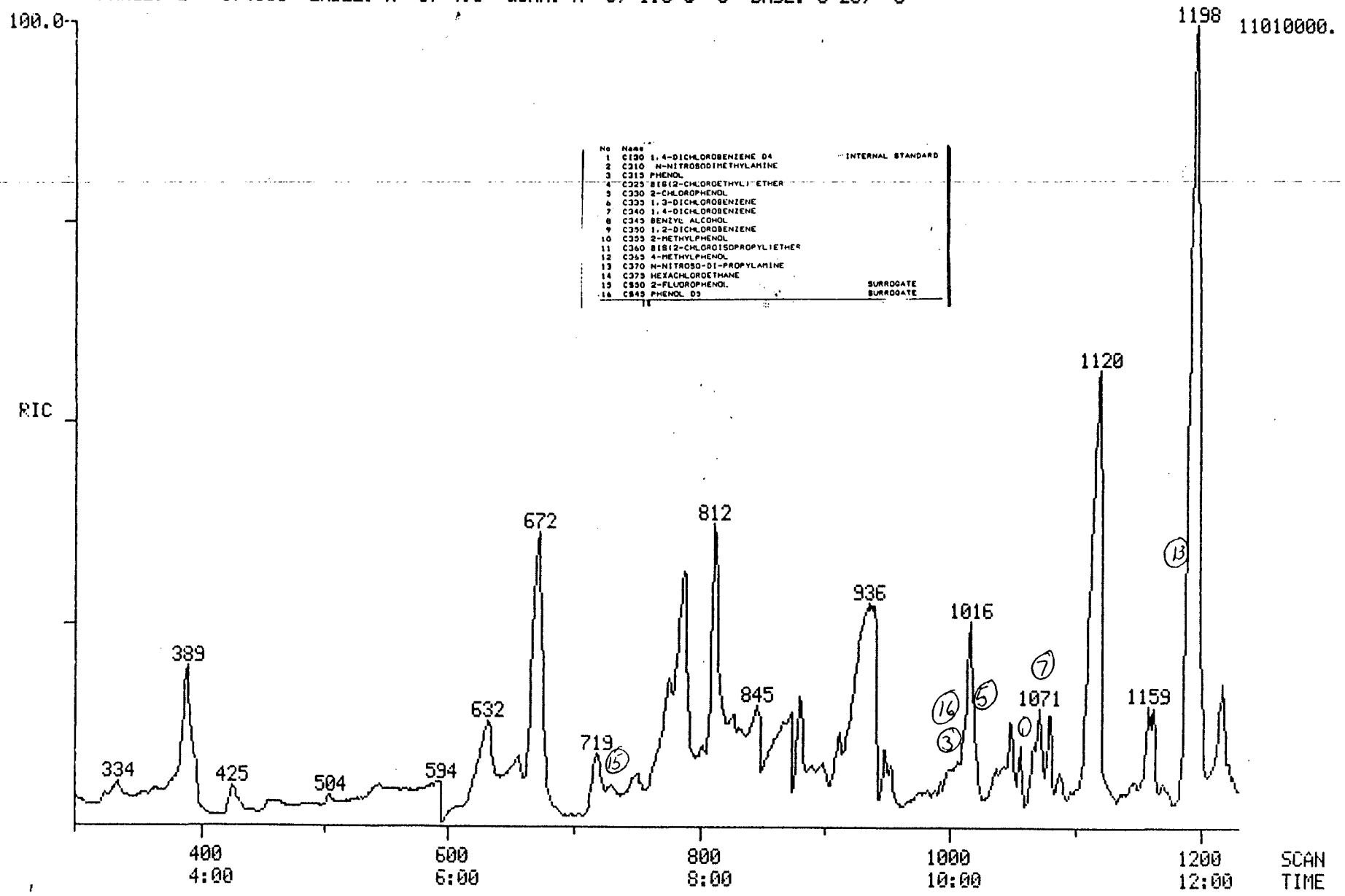


000554

RIC
11/15/90 18:09:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE DUP
CONDS.: 970MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726SD #1
CALI: 297726SD #3

SCANS 300 TO 1230



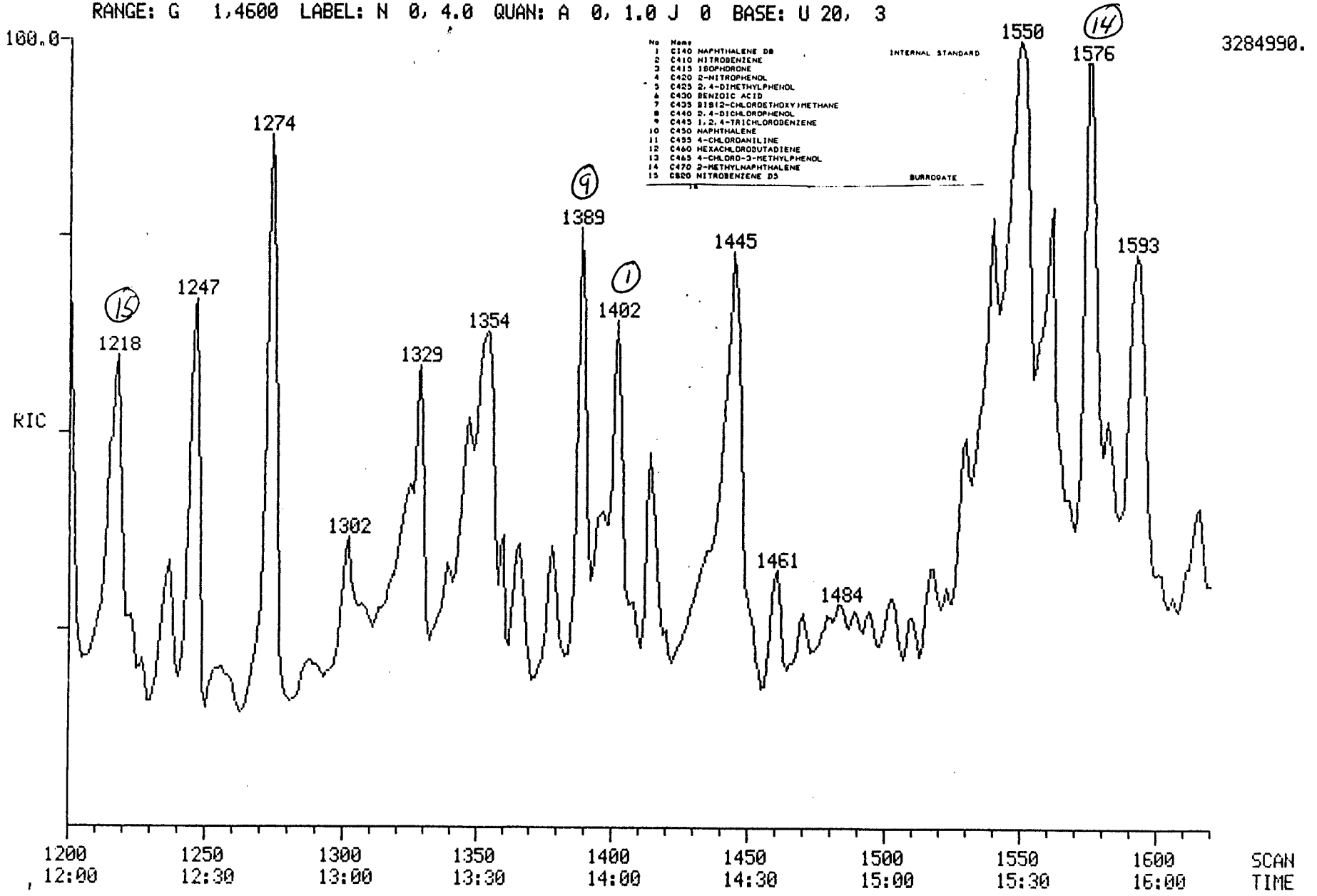
No	Name	
1	C130 1,4-DICHLOROBENZENE D4	INTERNAL STANDARD
2	C210 N-NITROSODIMETHYLAMINE	
3	C315 PHENOL	
4	C325 BIS(2-CHLOROETHYL)-ETHER	
5	C330 2-CHLOROPHENOL	
6	C335 1,3-DICHLOROBENZENE	
7	C340 1,4-DICHLOROBENZENE	
8	C345 BENZYL ALCOHOL	
9	C350 1,2-DICHLOROBENZENE	
10	C355 2-METHYLPHENOL	
11	C360 BIS(2-CHLOROISOPROPYL)ETHER	
12	C365 4-METHYLPHENOL	
13	C370 N-NITROSO-DI-PROPYLAMINE	
14	C375 HEXACHLOROETHANE	
15	C830 2-FLUOROPHENOL	SURROGATE
16	C845 PHENOL D5	SURROGATE

00055

RIC
11/15/90 18:09:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE DUP
CONDS.: 970MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726SD #1
CALI: 297726SD #3

SCANS 1200 TO 1620



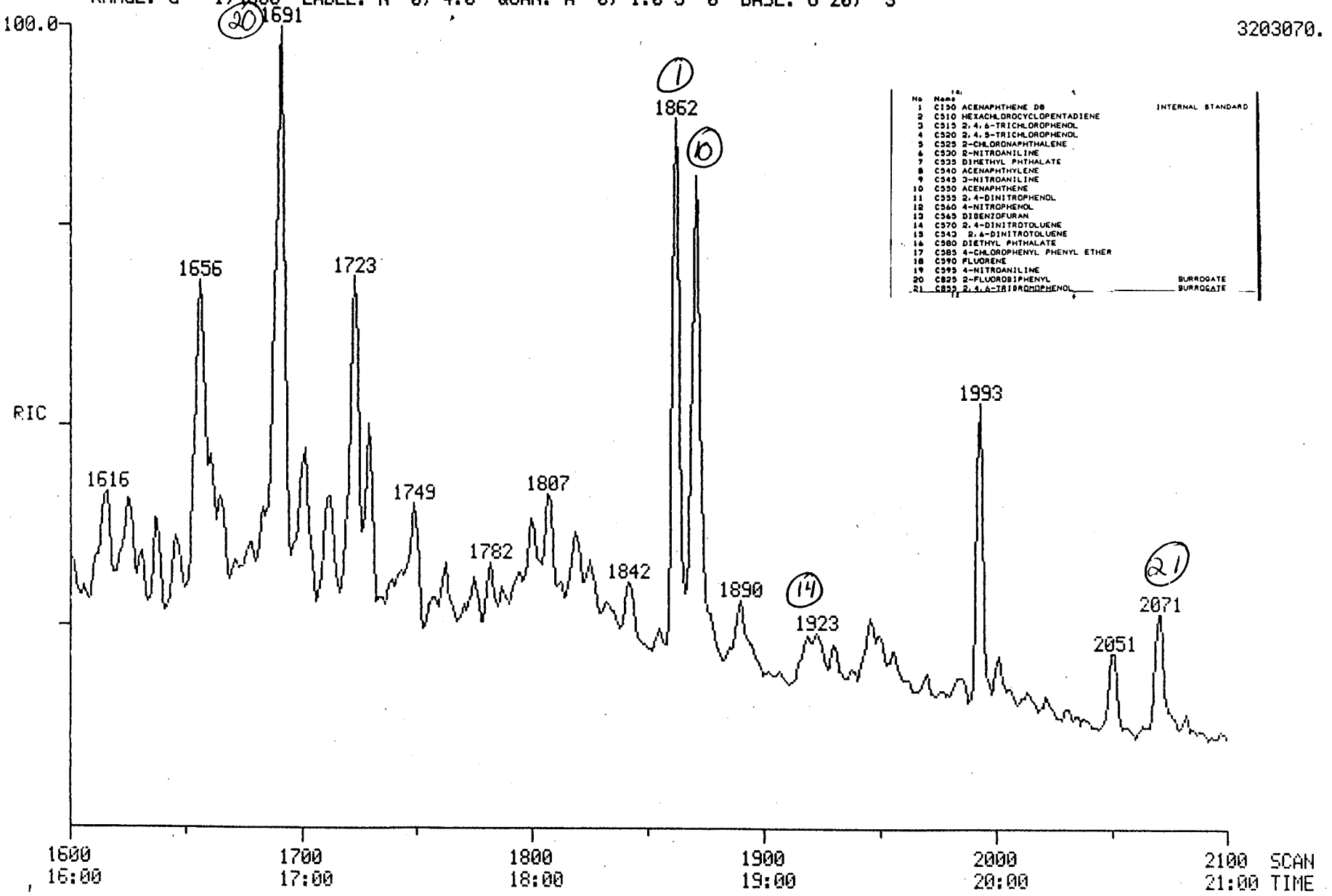
No	Name	
1	C140 NAPHTHALENE D8	INTERNAL STANDARD
2	C410 NITROBENZENE	
3	C415 ISOPHORONE	
4	C420 2-NITROPHENOL	
5	C425 2,4-DIMETHYLPHENOL	
6	C430 BENZOIC ACID	
7	C435 BIS(2-CHLOROETHOXY)METHANE	
8	C440 2,4-DICHLOROPHENOL	
9	C445 1,2,4-TRICHLOROBENZENE	
10	C450 NAPHTHALENE	
11	C455 4-CHLOROANILINE	
12	C460 HEXACHLOROBUTADIENE	
13	C465 4-CHLORO-3-METHYLPHENOL	
14	C470 2-METHYLNAPHTHALENE	
15	C820 NITROBENZENE D5	SURROGATE

000056

RIC
11/15/90 18:09:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE DUP
CONDS.: 970MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726SD #1
CALI: 297726SD #3

SCANS 1600 TO 2100



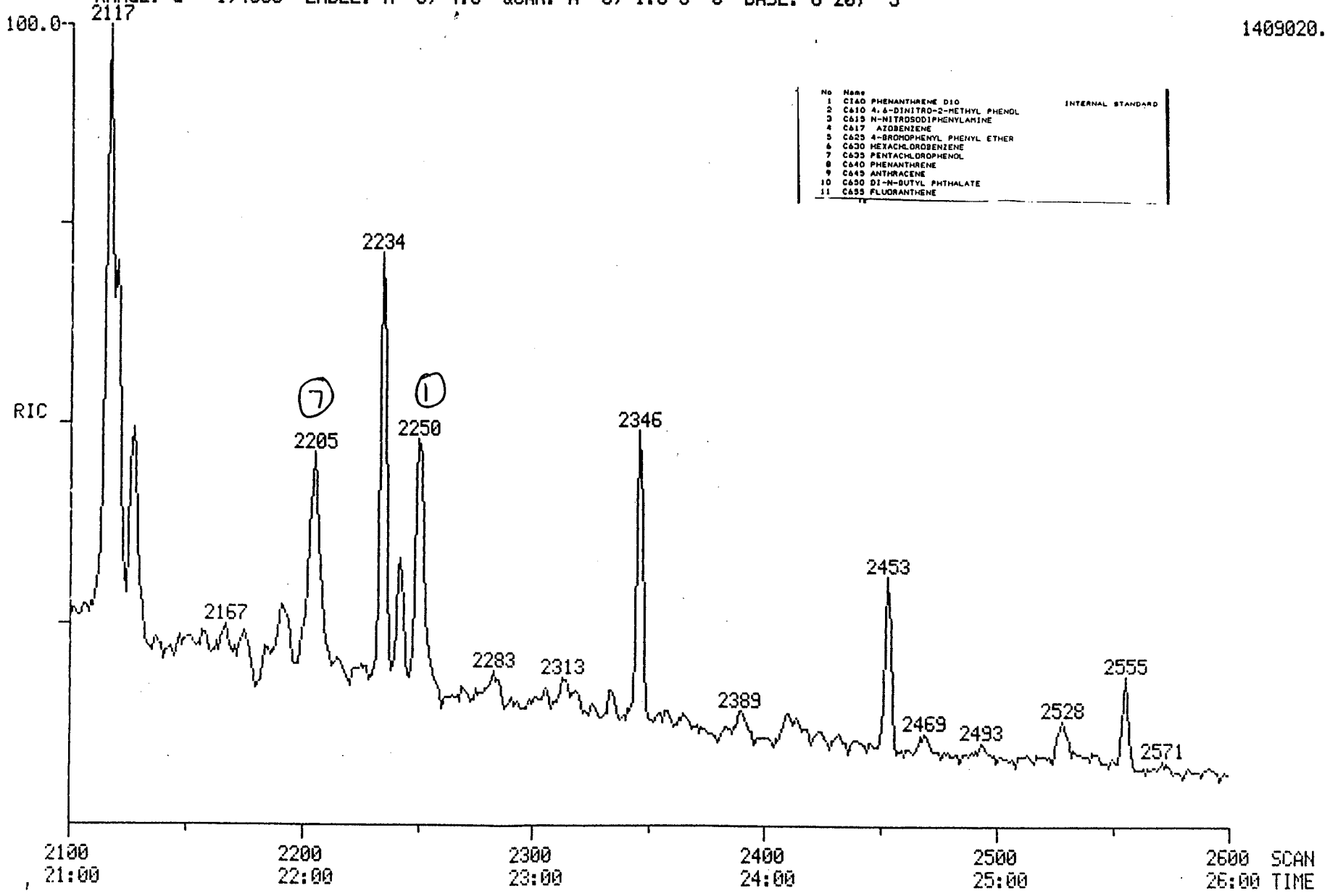
No	Name		
1	C130	ACENAPHTHENE D8	INTERNAL STANDARD
2	C510	HEXACHLOROCYCLOPENTADIENE	
3	C515	2,4,6-TRICHLOROPHENOL	
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	
11	C555	2,4-DINITROPHENOL	
12	C560	4-NITROPHENOL	
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C575	2,6-DINITROTOLUENE	
16	C580	DIETHYL PHTHALATE	
17	C585	4-CHLOROPHENYL PHENYL ETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	C825	2-FLUOROBIPHENYL	SURROGATE
21	C830	2,4,6-TRIBROMOPHENOL	SURROGATE

000557

RIC
11/15/90 18:09:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE DUP
CONDS.: 970MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726SD #1
CALI: 297726SD #3

SCANS 2100 TO 2600



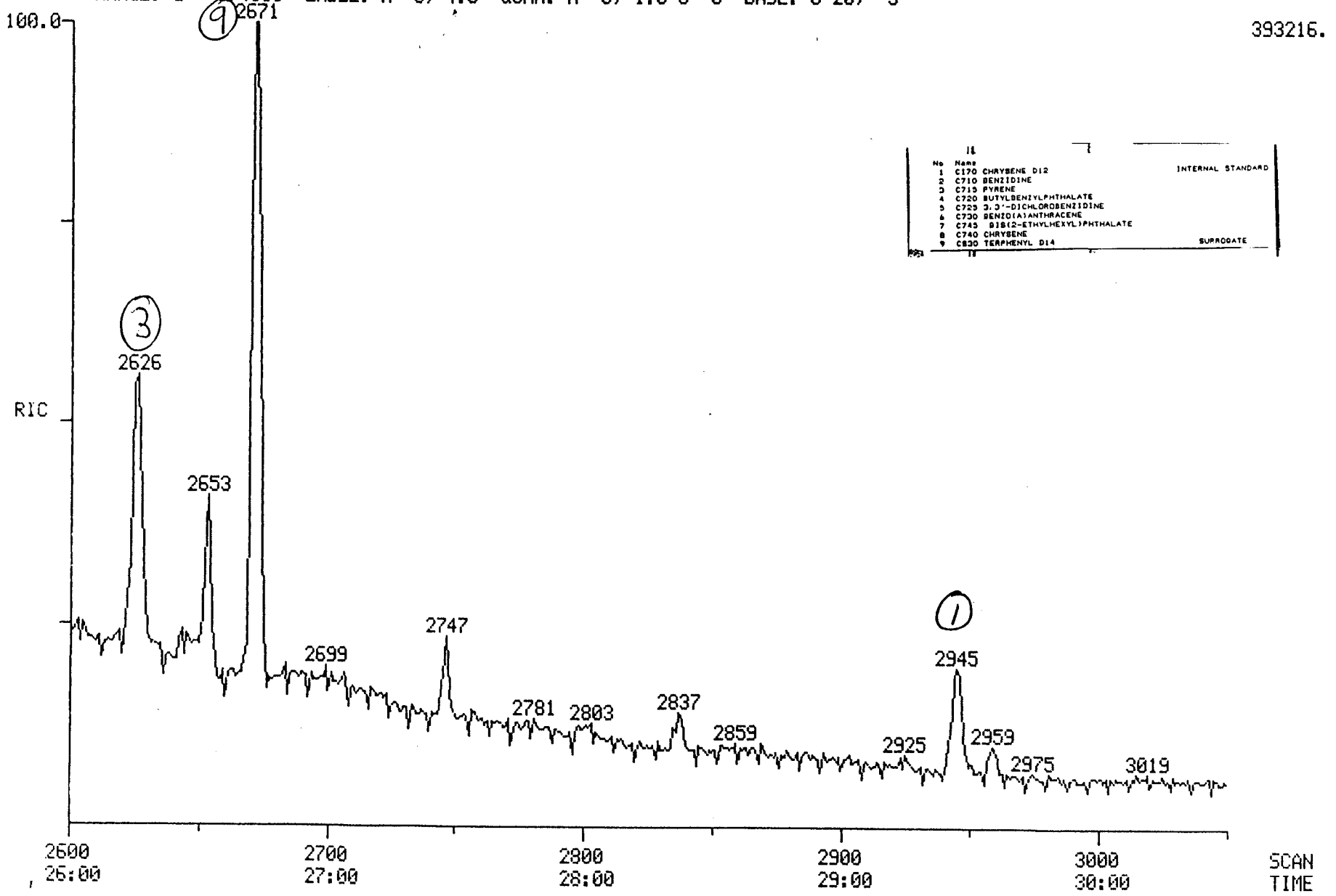
No	Name	
1	C160 PHENANTHRENE D10	INTERNAL STANDARD
2	C610 4,6-DINITRO-2-METHYL PHENOL	
3	C615 N-NITROSODIPHENYLAMINE	
4	C617 AZOBENZENE	
5	C625 4-BROMOPHENYL PHENYL ETHER	
6	C630 HEXACHLOROBENZENE	
7	C635 PENTACHLOROPHENOL	
8	C640 PHENANTHRENE	
9	C645 ANTHRACENE	
10	C650 DI-N-BUTYL PHTHALATE	
11	C655 FLUORANTHENE	

000758

RIC
11/15/90 18:09:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE DUP
CONDS.: 970MLS/1.0ML
RANGE: G 1.4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726SD #1
CALI: 297726SD #3

SCANS 2600 TO 3050



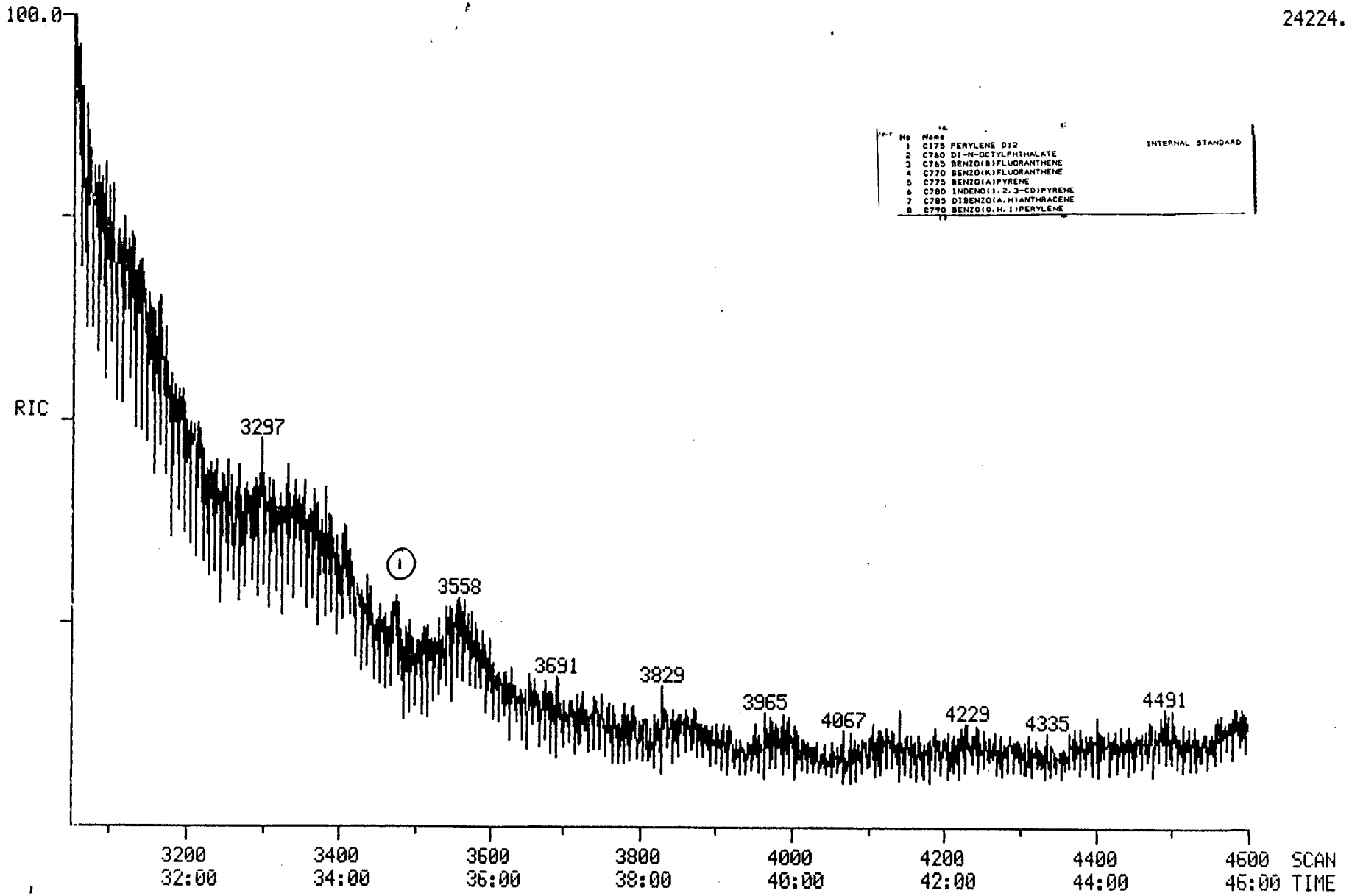
No	Name	
1	C170 CHRYSENE D12	INTERNAL STANDARD
2	C710 BENZIDINE	
3	C715 PYRENE	
4	C720 BUTYLBENZYLPHTHALATE	
5	C725 3,3'-DICHLOROBENZIDINE	
6	C730 BENZO(A)ANTHRACENE	
7	C745 BIS(2-ETHYLHEXYL)PHTHALATE	
8	C740 CHRYSENE	
9	C830 TERPHENYL D14	SURROGATE

000159

RIC
11/15/90 18:09:00
SAMPLE: WATER MONTHLY NOVEMBER SPIKE DUP
CONDS.: 970MLS/1.0ML
RANGE: G 1,4600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 297726SD #1
CALI: 297726SD #3

SCANS 3050 TO 4600



No	Name	
1	C175 PERYLENE D12	INTERNAL STANDARD
2	C760 DI-N-OCTYLPHTHALATE	
3	C765 BENZO(B)FLUORANTHENE	
4	C770 BENZO(K)FLUORANTHENE	
5	C775 BENZO(A)PYRENE	
6	C780 INDENO(1,2,3-CD)PYRENE	
7	C785 DIBENZO(A,H)ANTHRACENE	
8	C790 BENZO(G,H,I)PERYLENE	

000750

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

GENERAL ANALYSIS DATA REPORT

SAMPLE ID. #

14A

Lab Name: QC Inc.

Lab Code: 77166 Contract/P.O. No.: Gannett Fleming

Matrix (Soil/Water): Water

Lab Sample ID: 296400

Date Received: 11/2/90

RESULTS

Parameter	Date Analyzed	Sample Concentration Units	Method Blank Units
Petroleum Hydrocarbons	11/19/90	<0.5 mg/l	<0.5 mg/l
Total Organic Carbon	11/16/90	5.8 mg/l	<1 mg/l
Total Dissolved Solids	11/13/90	120 mg/l	<2 mg/l
pH	11/5/90	4.71	N/A

Form QC GEN-1

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

GENERAL ANALYSIS DATA REPORT

SAMPLE ID. #

14B

Lab Name: QC Inc.

Lab Code: 77166 Contract/P.O. No.: Gannett Fleming

Matrix (Soil/Water): Water

Lab Sample ID: 296401

Date Received: 11/2/90

RESULTS

Parameter	Date Analyzed	Sample Concentration Units	Method Blank Units
Petroleum Hydrocarbons	11/19/90	<0.5 mg/l	<0.5 mg/l
Total Organic Carbon	11/16/90	1.6 mg/l	<1 mg/l
Total Dissolved Solids	11/13/90	82 mg/l	<2 mg/l
pH	11/5/90	5.16	N/A

Form QC GEN-1

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

GENERAL ANALYSIS DATA REPORT

SAMPLE ID. #

14C

Lab Name: QC Inc.

Lab Code: 77166 Contract/P.O. No.: Gannett Fleming

Matrix (Soil/Water): Water

Lab Sample ID: 296402

Date Received: 11/2/90

RESULTS

Parameter	Date Analyzed	Sample Concentration Units	Method Blank Units
Petroleum Hydrocarbons	11/19/90	<0.5 mg/l	<0.5 mg/l
Total Organic Carbon	11/16/90	6.6 mg/l	<1 mg/l
Total Dissolved Solids	11/13/90	94 mg/l	<2 mg/l
pH	11/5/90	4.27	N/A

Form QC GEN-1

QC Inc

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GENERAL ANALYSIS DATA REPORT

SAMPLE ID. #

29C

Lab Name: QC Inc.

Lab Code: 77166 Contract/P.O. No.: Gannett Fleming

Matrix (Soil/Water): Water

Lab Sample ID: 296403

Date Received: 11/2/90

RESULTS

Parameter	Date Analyzed	Sample Concentration Units	Method Blank Units
Petroleum Hydrocarbons	11/19/90	<0.5 mg/l	<0.5 mg/l
Total Organic Carbon	11/16/90	3.2 mg/l	<1 mg/l
Total Dissolved Solids	11/13/90	130 mg/l	<2 mg/l
pH	11/5/90	4.54	N/A

Form QC GEN-1

Revised

000565

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

GENERAL ANALYSIS DATA REPORT

SAMPLE ID. #

Trip Blank

Lab Name: QC Inc.

Lab Code: 77166 Contract/P.O. No.: Gannett Fleming

Matrix (Soil/Water): Water

Lab Sample ID: 296404

Date Received: 11/2/90

RESULTS

Parameter	Date Analyzed	Sample Concentration Units	Method Blank Units
Petroleum Hydrocarbons	11/19/90	<0.5 mg/l	<0.5 mg/l
Total Organic Carbon	11/16/90	<1 mg/l	<1 mg/l
Total Dissolved Solids	12/10/90	<2 mg/l	<2 mg/l
pH	11/5/90	5.43	N/A

Form QC GEN-1

QC Inc

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GENERAL ANALYSIS DATA REPORT

SAMPLE ID. #

Field Blank

Lab Name: QC Inc.

Lab Code: 77166 Contract/P.O. No.: Gannett Fleming

Matrix (Soil/Water): Water

Lab Sample ID: 296405

Date Received: 11/2/90

RESULTS

Parameter	Date Analyzed	Sample Concentration Units	Method Blank Units
Petroleum Hydrocarbons	11/19/90	<0.5 mg/l	<0.5 mg/l
Total Organic Carbon	11/16/90	<1 mg/l	<1 mg/l
Total Dissolved Solids	11/13/90	130 mg/l *	<2 mg/l
pH	11/5/90	5.50	N/A

* Positive Interference: Conductivity = 1.25 uS/cm

Form QC GEN-1

QC Inc

1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 • SOUTHAMPTON, PA 18966-0514 • (215) 355-3900

GENERAL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QC Inc.

Lab Code: 77166 Contract/P.O. No.: Gannett Fleming

Matrix Spike Sample #: see below

Lab Sample ID #: 296400 thru 296405

COMPOUND	AMT ADDED mg/l	SAMPLE RESULT mg/l	CONC. MS mg/l	MS % REC #	QC LIMITS % REC	CONC. MSD mg/l	MS/MSD RPD %
TOC: 296400	10	5.8	14.8	90	80-120	14.8	0 %
PHC: 296405	4.3	<0.5	4.5	104	80-120	3.3	30 *
TDS: 296400	368	116	500	104	80-120	Dup.122	Dup.5 %
pH: 296404	R1 = 5.43	R2 = 5.43	NA	NA	NA	NA	Dup. 0%

COLUMN TO BE USED TO FLAG RECOVERY AND RPD VALUES

* VALUES OUTSIDE OF QC LIMITS

RPD: __1__ out of __4__ outside limits

Spike Recovery: __0__ out of __4__ outside limits

COMMENTS: _____

_____

_____

Form QC GEN-2

Tier I

GENERAL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Date of Analysis: 11-19-90

Name of Analyst: Douglas Lee / Gannett Fleming /

Matrix Spike Sample #: (the # of the sample that you spiked)

296405

Lab Sample ID #: (the set of samples numbers that were run with the spiked sample)

296400 — 296405

COMPOUND	AMT ADDED mg/l	SAMPLE RESULT mg/l	CONC. MS mg/l	MS % REC #	QC LIMITS % REC	CONC. MSD mg/l	MS/MSD RPD %
296405 - PHC (liquid)	4.34	<0.5	4.51	103.9%	80-120%	3.32	30.4

Form QC GEN-2

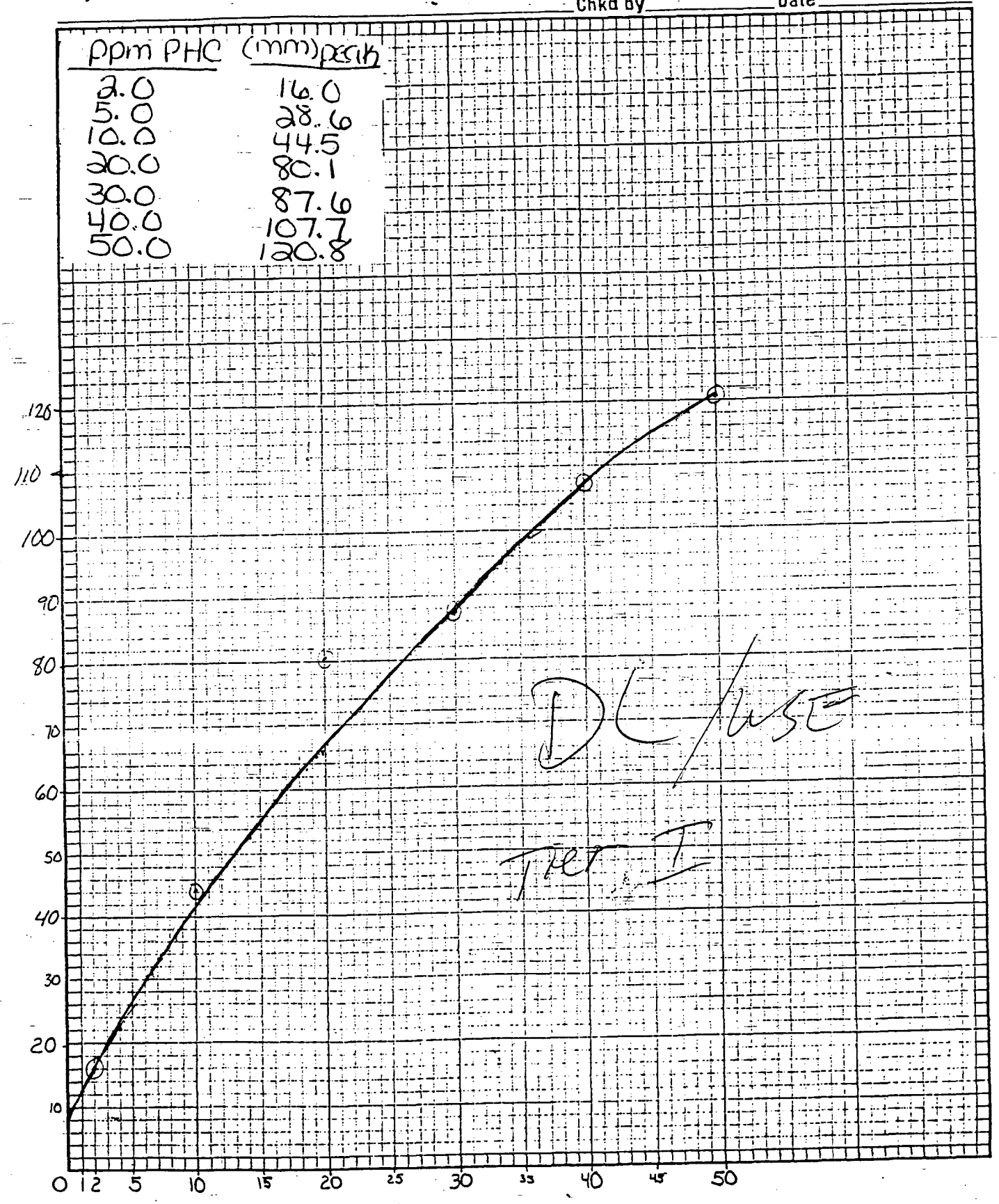
Environmental Resources Management, Inc. West Chester, PA 19380 • (215) 696-9110

Project PHC CURVE W.O. No. _____ Sheet 000569 of _____

Subject _____ By Wendy/Doug Date 10-23-90

Chkd by _____ Date _____

ppm PHC	(mm) peak
2.0	16.0
5.0	28.6
10.0	44.5
20.0	80.1
30.0	87.6
40.0	107.7
50.0	120.8



296405

ppm PHC

Gannett Fleming

Total Petroleum Hydrocarbons

EPA Method: 418.1

MDL = 0.5 mg/l

Date Set-up	Accession #	Client Name	Odor #	Spl. ml.	Final Vol.	Extra Dil. ml:ml	D.F.	Peak Ht. mm	TPH mg/l	TPH X D.F. mg/l	Init./ Date
11-13	295174	Tastykake	0+	250	100	—	0.4	80.4	15.0	6.0	DL 11/13
11-13	295175	Tastykake	0+	250	100	—	0.4	37.0	1.1	<0.5	DL 11/13
11-13	295176	Tastykake	0+	250	100	—	0.4	60.0	8.1	3.2	DL 11/13
11-13	295199	Tastykake	0+	250	100	—	0.4	93.0	21	8.4	DL 11/13
11-19	Blank	—	—	—	—	—	—	10.7	—	—	DL
11-19	~~296400~~	~~Gannett Fleming~~	~~0+~~	~~250~~	~~100~~	~~—~~	~~0.4~~	~~22.2~~	~~0.7~~	~~<0.5~~	~~DL~~ NOT USED 11-28-90 MS
11-19	296401	Gannett Fleming	0+	250	100	—	0.4	19.3	<0.5	<0.5	DL
11-19	296402	Gannett Fleming	0+	250	100	—	0.4	12.9	<0.5	<0.5	DL
11-19	296403	Gannett Fleming	0+	250	100	—	0.4	20.2	<0.5	<0.5	DL
11-19	~~296404~~	~~Gannett Fleming~~	~~0+~~	~~250~~	~~100~~	~~—~~	~~0.4~~	~~23.8 30.2~~	~~1.0 2.0~~	~~<0.5~~	~~DL~~ NOT USED 11-28-90 MS
11-19	296405	Dup. Gannett Fleming	0+	250	100	—	0.4	17.8	<0.5	<0.5	DL
11-19	296405	Spike Gannett Fleming	0+	250	100	—	0.4	47.5	8.3	3.32	DL
11-19	296405	Spike Gannett Fleming	0+	230	100	—	0.43	54.3	10.5	4.51	DL

RPD = 0%

Spike concentration = $\frac{2\,mL \times 500\,ppm}{250\,mL}$ = 4.0 ppm

Spike conc. $\frac{2\,mL \times 500\,ppm}{230\,mL}$ = 4.34 ppm MSDup

Odor: 0 = no odor, 1 = slight, 2 = moderate, 3 = stong, 4 = very strong
+ = half grade higher.

Run regular QA AND Tier II QA at all times.

% Recovery MSDup

$\frac{4.51 - <0.5}{4.34} \times 100$ = 103.9% Recovery (MSDup)

% Recovery MS

$\frac{3.32}{4.0} \times 100$ = 83.0% Recovery (MS)

$RPD = \frac{MS}{MSD} = \frac{1.19}{3.91} = 30.4\%$

Total Petroleum Hydrocarbons

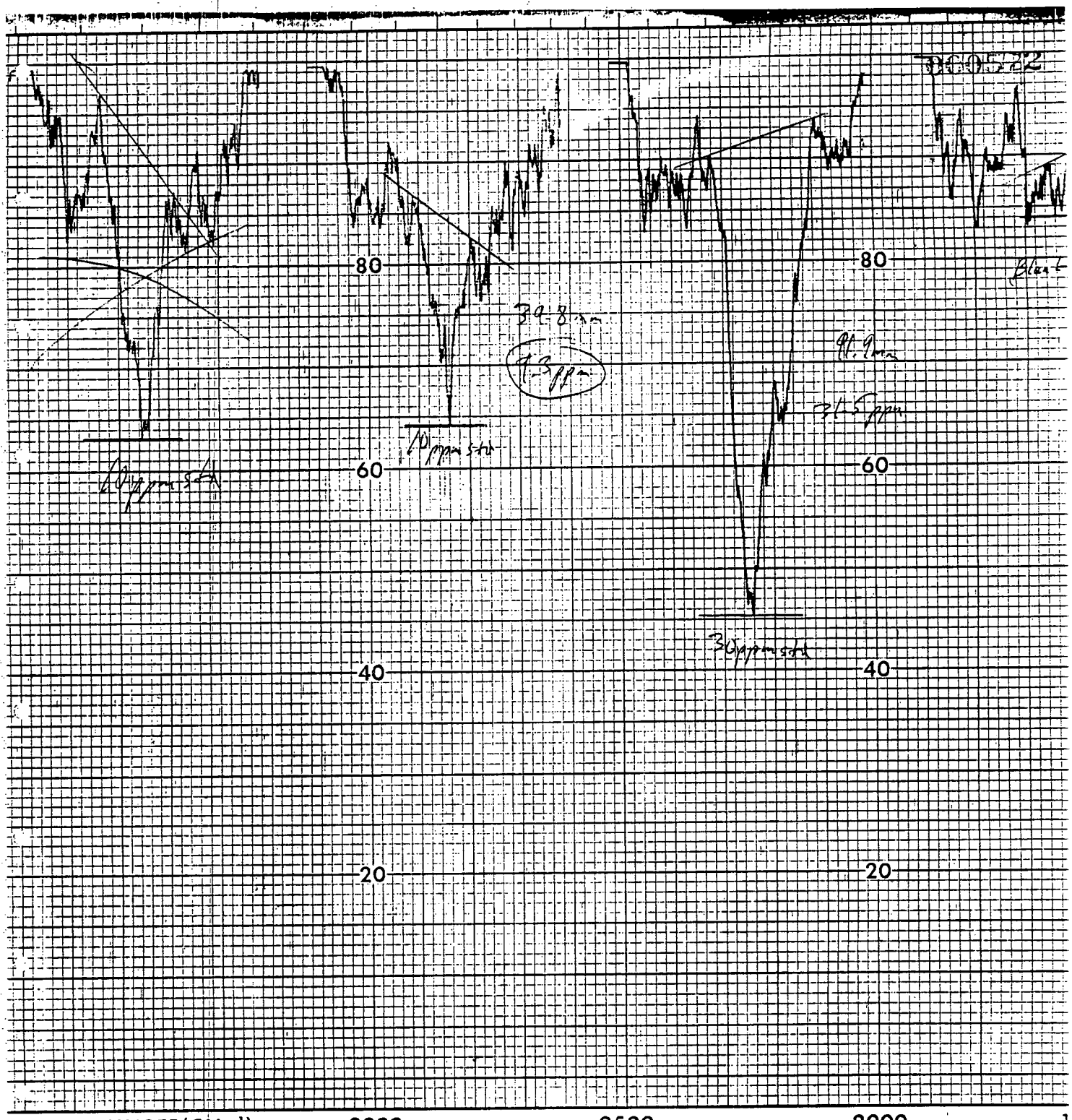
EPA Method: 418.1

MDL = 0.5 mg/l

ate Set-up	Accession #	Client Name	Odor #	Spl. ml.	Final Vol.	Extra Dil. ml:ml	D.F.	Peak Ht. mm	TPH mg/l	TPH X D.F. mg/l	Init./ Date
/19	296404	Gannett Fleming	0+	250	100	—	0.4	18.1	<0.5	<0.5	DL 11-19
11-19	297726	Remtech	0+	250	100	—	0.4	21.3	0.5	<0.5	DL 11-19
11-19	296428	Walsh Farms	0	1000	50	—	0.05	20.7	0.3	0.01	DL 11-19
1-19	300811	Himes Partnership	0+	250	100	—	0.4	15.2	<0.5	<0.5	DL 11-19
	Dup.										
	Spike										
	Spike										

or: 0 = no odor, 1 = slight, 2 = moderate, 3 = stong, 4 = very strong
+ = half grade higher.

n regular QA AND Tier II QA at all times.



WAVENUMBER(CM^{-1}) 3000 2500 2000 1

REMARKS

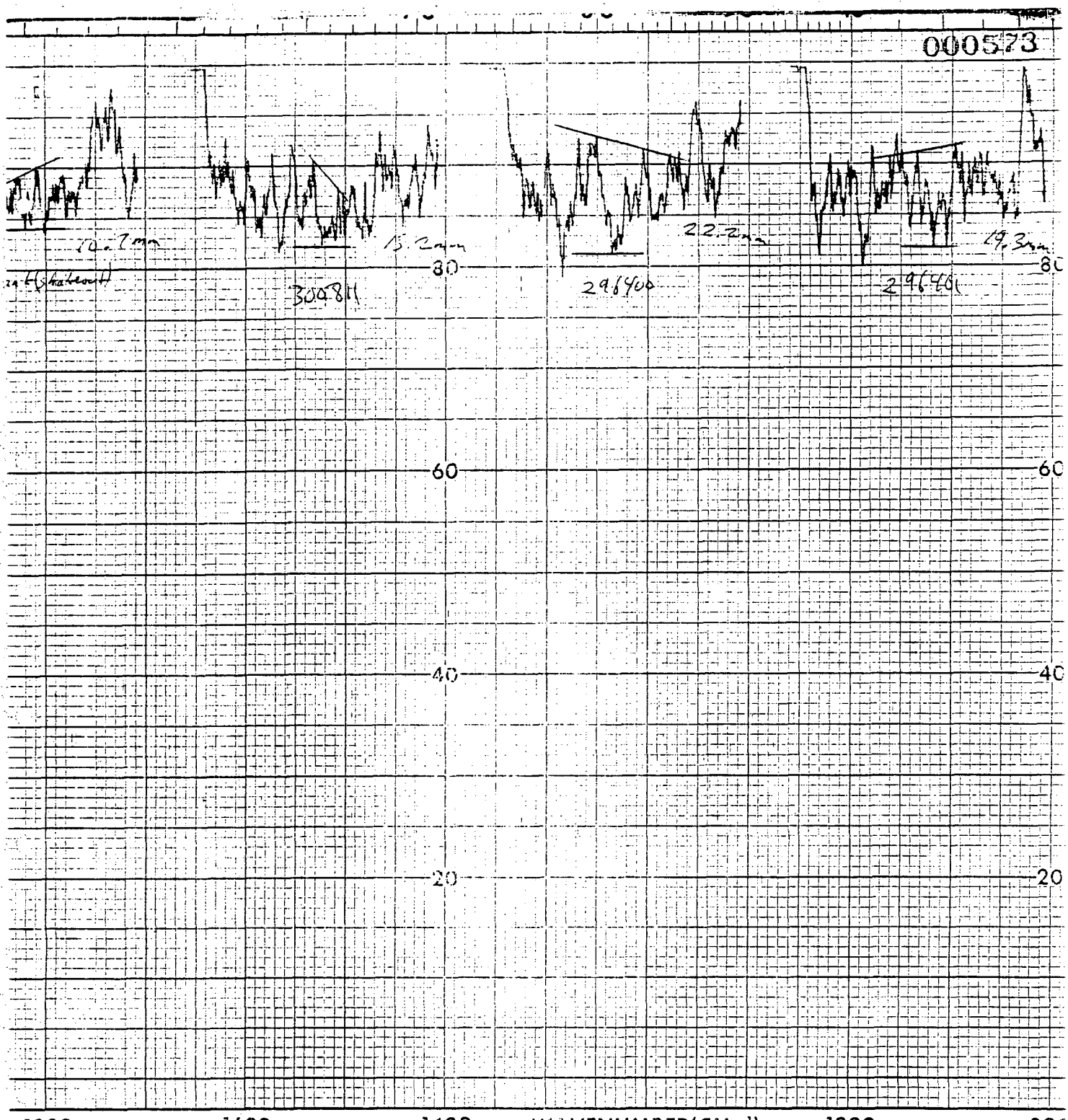
11-19-90

SOLVENT

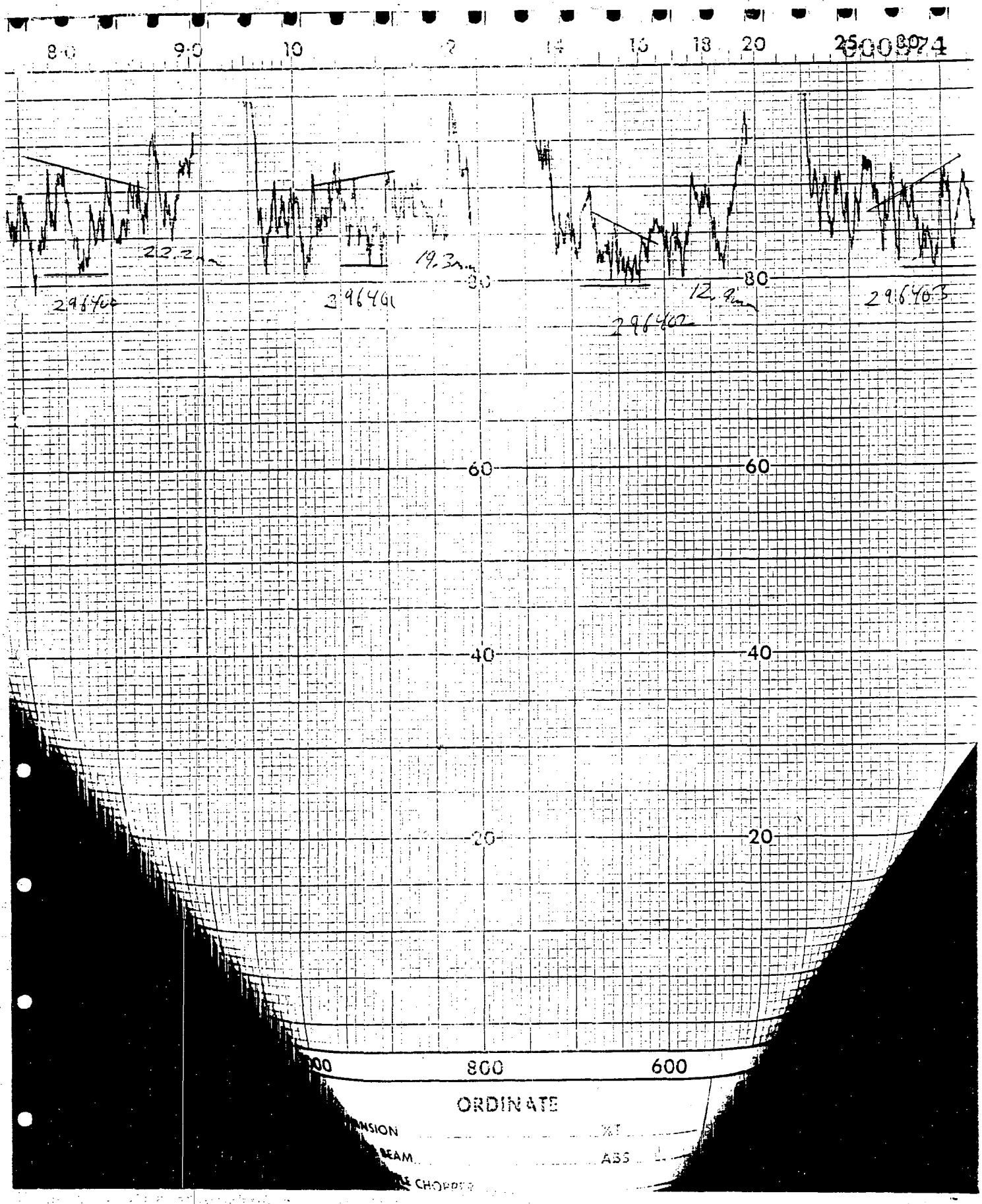
CONCENTRATION

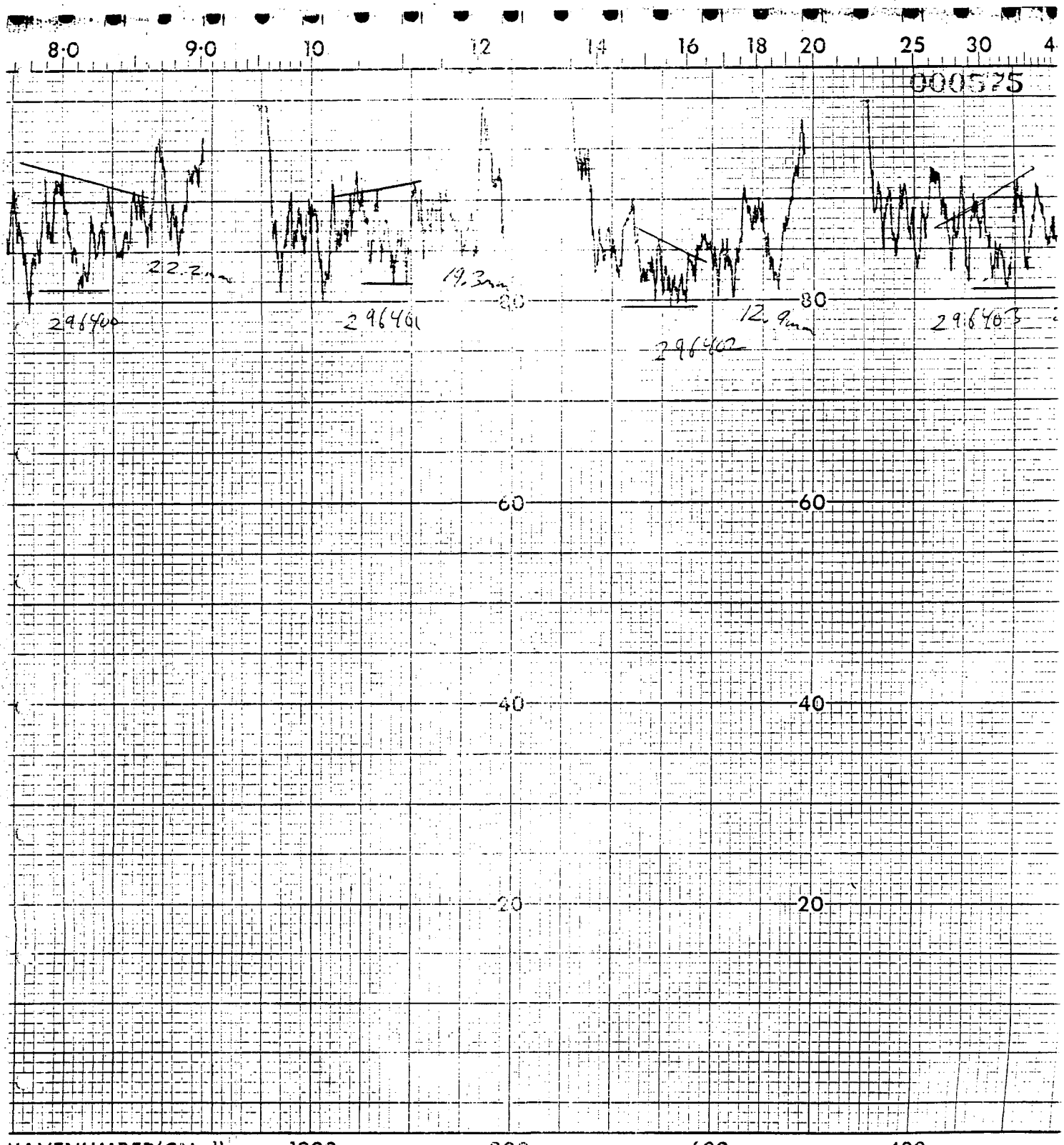
CELL PATH

REFERENCE



ABSCISSA			ORD
REP. SCAN	EXPANSION	SCAN TIME	EXPANSION
HIGH LIMIT	SUPPRESSION	RESPONSE	SINGLE BEAM
LOW LIMIT	TIME DRIVE	SLIT PROGRAM	PRE SAMPLE CHOPPER


8.0
9.0
10
14
16
18
20
25
80
60
40
20
800
600
ORDINATE
22.2
19.3
12.9
296400
296401
296402
296403
ABS



ORDINATE

SCAN TIME

RESPONSE

SLIT PROGRAM

EXPANSION %T

SINGLE BEAM ABS

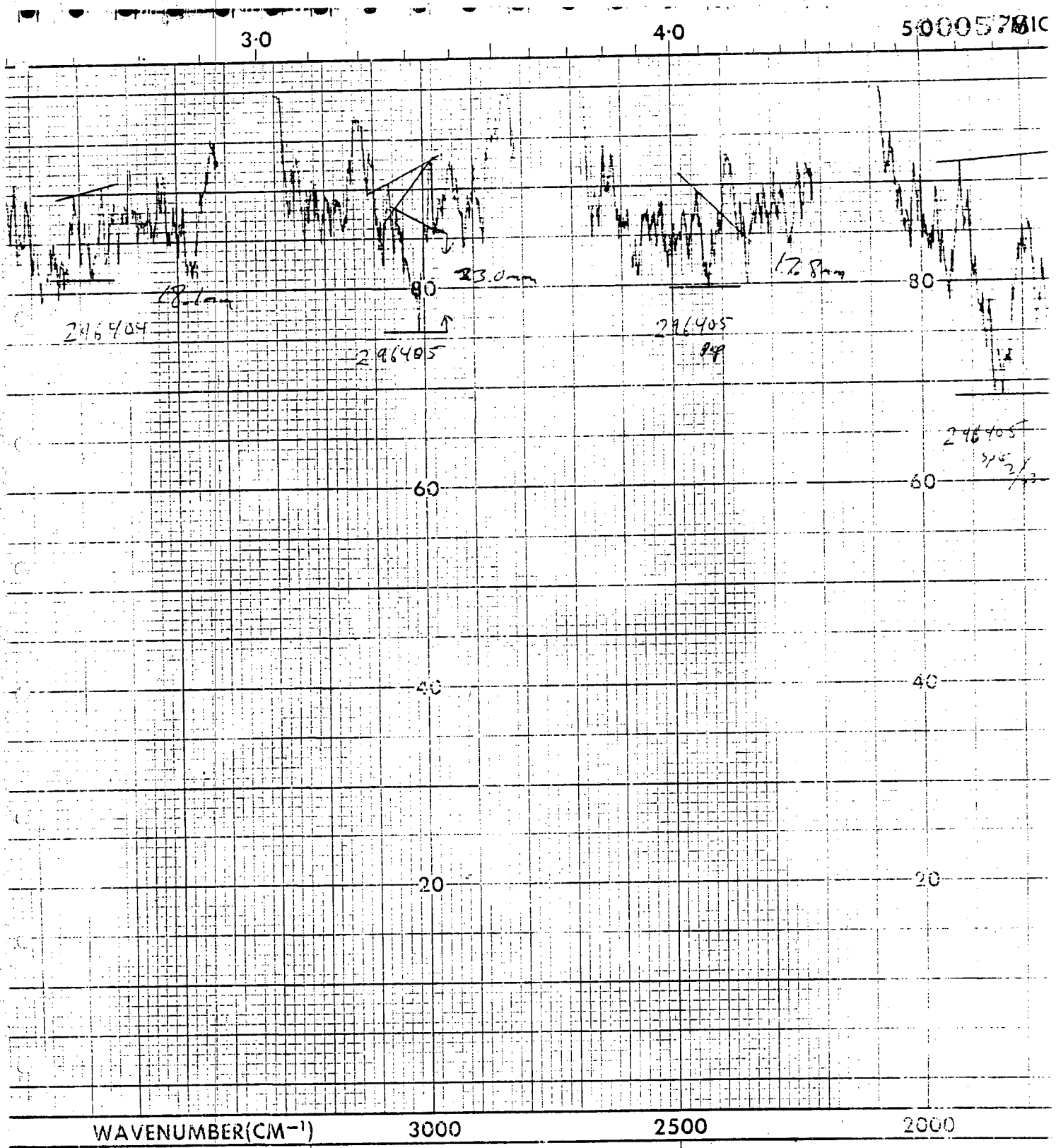
PRE SAMPLE CHOPPER

WILMAD GLASS CO., INC.
BUENA, N.J. 08310 U.S.A.

CHART NO. WGPE-283-125

OPERATOR R DATE

REF No.



LE

N

REMARKS

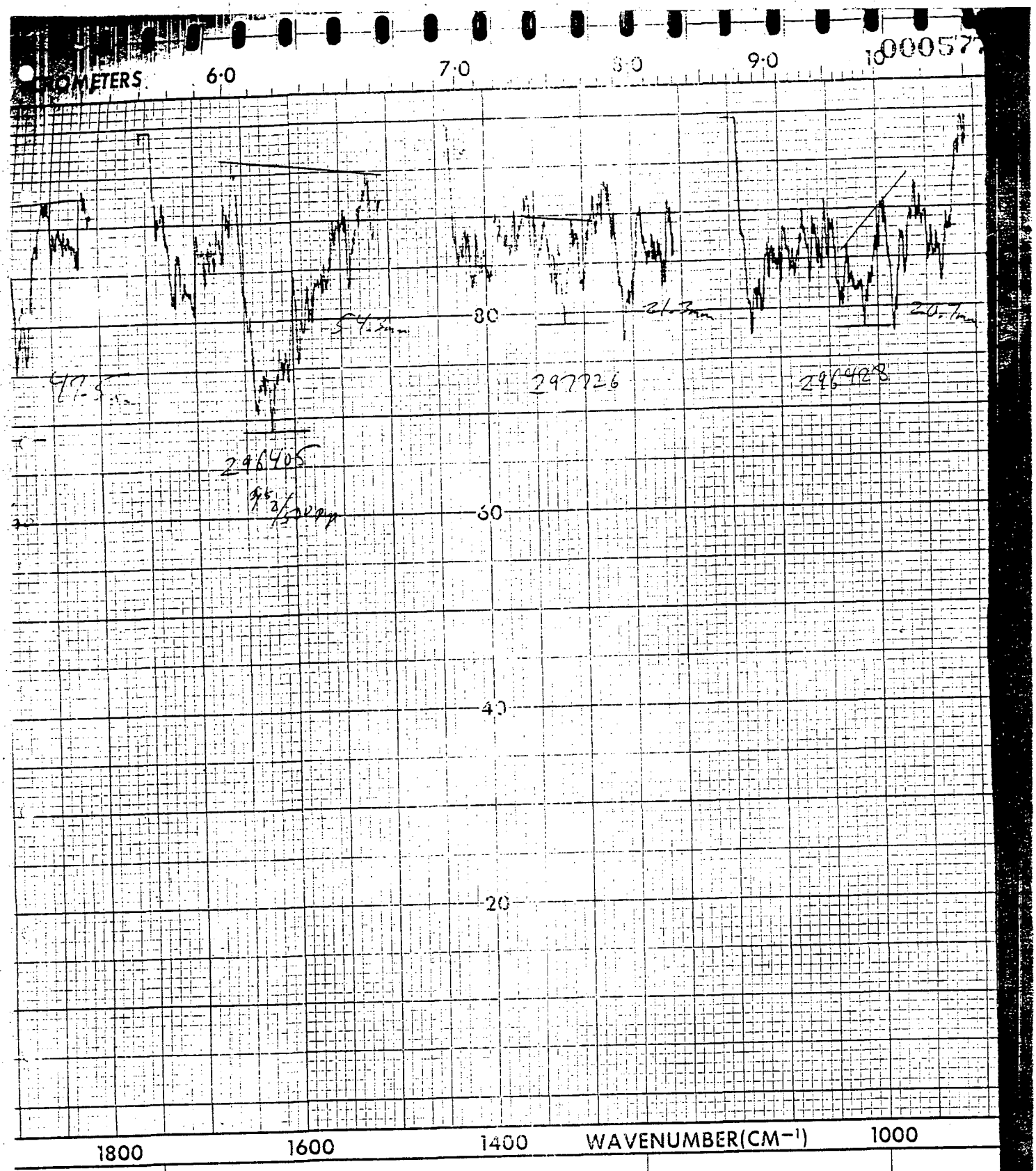
11-19-90

SOLVENT

CONCENTRATION

CELL PATH

REFERENCE



ABSCISSA

REP. SCAN _____ EXPANSION _____

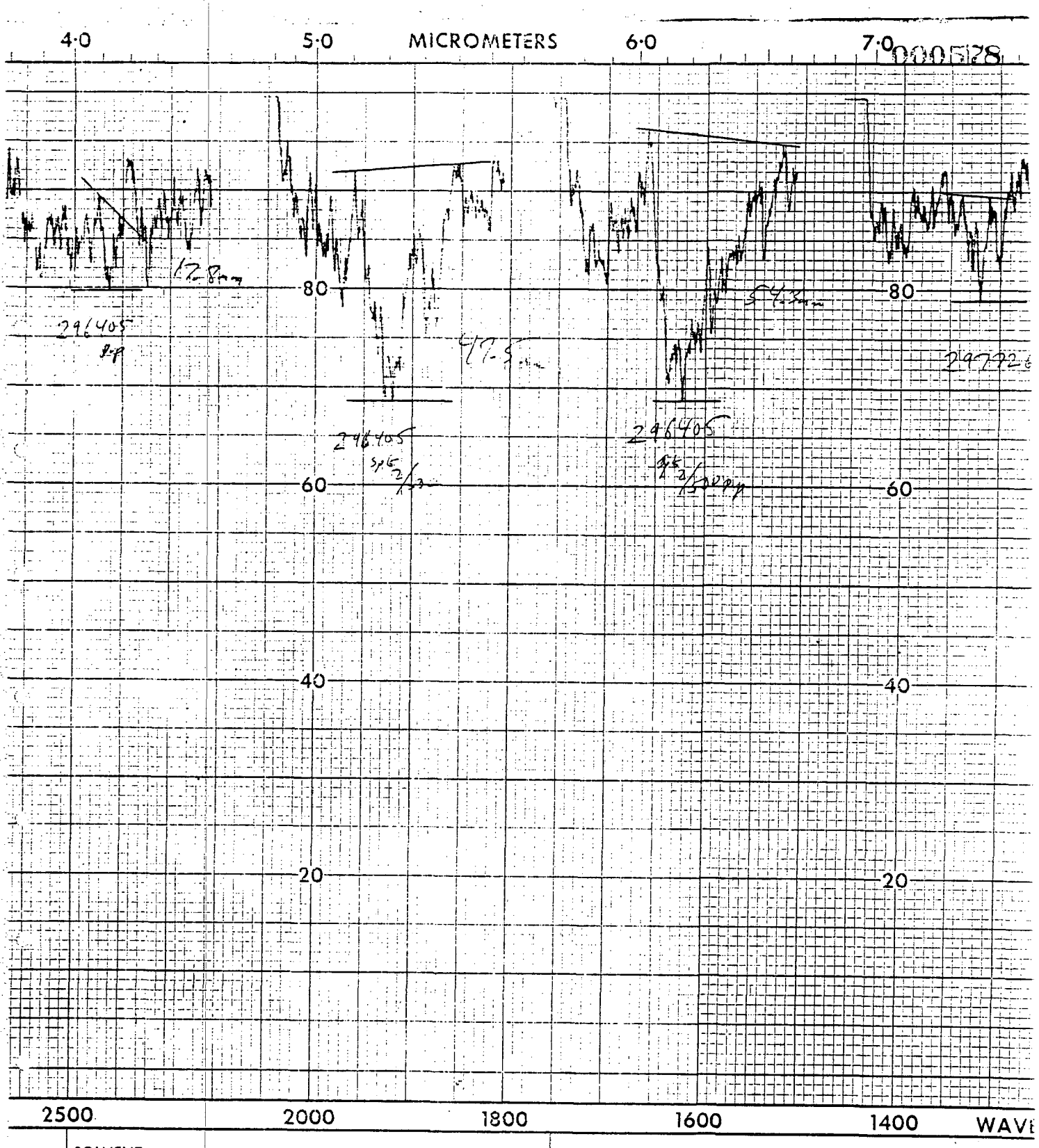
HIGH LIMIT _____ SUPPRESSION _____

SCAN TIME _____

RESPONSE _____

EXPANSION

SINGLE BEAM



SOLVENT _____

CONCENTRATION _____

CELL PATH _____

REFERENCE _____

ABSCISSA

REP. SCAN _____ EXPANSION _____

HIGH LIMIT _____ SUPPRESSION _____

LOW LIMIT _____ TIME DRIVE _____

GENERAL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Date of Analysis: 11-16-90

Name of Analyst: DCM Garrett Clemens

Matrix Spike Sample #: (the # of the sample that you spiked)

296400

Lab Sample ID #: (the set of samples numbers that were run with the spiked sample)

296400 - 296405

COMPOUND	AMT ADDED mg/l	SAMPLE RESULT mg/l	CONC. MS mg/l	MS % REC #	QC LIMITS % REC	CONC. MSD mg/l	MS/MSD RPD %
TOC	10	5.8	14.8	90.0%	80-120	14.8	0%

Form QC GEN-2

TOC - >1.0 MDL

Date	Access #	Sample Amt.	DF	ppm TOC	Final ppm TOC	Inititials
11-14	296400	—	—	5.9	5.9	dcn
11-14	296401	—	—	1.6	1.6	dcm
11-16	296402	—	—	6.6	6.6	dcn
11-16	296403	—	—	3.2	3.2	dcm
11-16	296404	—	—	<1	<1	dcn
11-16	296405	—	—	<1	<1	dcm
11-16	297346	—	—	8.2	8.2	dcn
11-14	297348	—	—	4.0	4.0	dcn
11-16	298158	—	—	130	130	dcn
11-16	298822	—	—	2.1	2.1	dcm
Dup 11-16	296400	—	—	5.6	5.6	dcn
Spk 11-14	296400	10µm spike	—	14.8	14.8	dcn
Spk 11-14	296400	10µm spike	—	14.8	14.8	dcn

$$RPD = \frac{\text{diff of dups}}{\text{ave of dups}} \times 100 = \frac{0.3\mu m}{5.75\mu m} \times 100 = 5.2$$

$$\text{spike conc} = \frac{1\text{ml of }1000\mu m\text{ stock}}{100\text{ml sample}} = 10\text{ppm spike}$$

MS + MSD

$$\text{spike rec} = \frac{14.8\mu m - 5.75\mu m}{10\mu m\text{ spike}} \times 100 = 90.5\%\text{ rec.}$$

11-16.90
DCM

*** MODEL 700 TOC ANALYZER ***

CALIBRATION FACTORS:

IC BLANK= 1.50000 mV OC BLANK= 12.5000 mV POC BLANK= 000000 mV
STD. MASS= 9.54000 ug STD. AVG.= 180.318 mV SCALING FACTOR= 0.05290 ug/mV

VOLUMES:

SPL. VOL.= 0.31800 ml ACID VOL.= 00002 x100ul OXID. VOL.= 00000 x100ul

LOW/HIGH ALARM SETPOINTS (ppm C):

TIC LO= 000000 TIC HI= 000000 TOC LO= 000000 TOC HI= 000000

TIME PRESETS:

EXTD. REACTION TIME 00:00:00 EXTD. PURGE TIME 00:00:00

LAST ANALYSIS RESULTS:

SPL# 00014	00:00:38	TIC =	000000	mV	000000	ug C	000000	ppm
SPL# 00014	00:00:40	POC =	0.58528	mV	0.04377	ug C	0.13764	ppm
SPL# 00014	00:00:42	TOC =	000000	mV	000000	ug C	000000	ppm

DI H_2O

SPL# 00001	00:04:24	TIC =	1.74210	mV	0.09216	ug C	0.28983	ppm
SPL# 00001	00:09:24	TOC =	6.85353	mV	0.36259	ug C	1.14024	ppm
SPL# 00001	00:12:29	TIC =	1.04150	mV	0.05510	ug C	0.17327	ppm
SPL# 00001	00:17:29	TOC =	4.48202	mV	0.23712	ug C	0.74568	ppm
SPL# 00001	00:20:34	TIC =	0.87350	mV	0.04621	ug C	0.14532	ppm
SPL# 00001	00:25:34	TOC =	8.45055	mV	0.44708	ug C	1.40594	ppm

30 [illegible]

SPL# 00002	01:07:18	TOC =	179.296 mV	9.48590 ug C	29.[illegible] ppm

SPL# 00002	01:10:23	TIC =	2.61229 mV	0.13820 ug C	0.43461 ppm
SPL# 00002	01:15:23	TOC =	181.032 mV	9.57778 ug C	30.1188 ppm

Low IS

SPL# 00003	02:21:53	TIC =	1.62993 mV	0.08630 ug C	0.27140 ppm
SPL# 00003	02:26:53	TOC =	47.9982 mV	2.54159 ug C	7.99242 ppm
SPL# 00003	02:29:58	TIC =	2.19103 mV	0.11601 ug C	0.36483 ppm
SPL# 00003	02:34:58	TOC =	47.2148 mV	2.50010 ug C	7.86196 ppm
SPL# 00003	02:44:02	TIC =	3.96282 mV	0.20983 ug C	0.65986 ppm
SPL# 00003	02:49:02	TOC =	46.3074 mV	2.45206 ug C	7.71087 ppm

High IS

SPL# 00004	02:57:35	TIC =	4.55488 mV	0.24118 ug C	0.75845 ppm
SPL# 00004	03:02:35	TOC =	256.615 mV	13.5882 ug C	42.7303 ppm
SPL# 00004	03:05:40	TIC =	4.27284 mV	0.22625 ug C	0.71149 ppm
SPL# 00004	03:10:40	TOC =	258.532 mV	13.6897 ug C	43.0495 ppm

296400 + dup

SPL# 00005	03:22:48	TIC =	169.926 mV	8.99290 ug C	28.2953 ppm
SPL# 00005	03:27:48	TOC =	35.5349 mV	1.88163 ug C	5.91709 ppm
SPL# 00005	03:30:53	TIC =	167.496 mV	8.86418 ug C	27.8905 ppm
SPL# 00005	03:35:53	TOC =	33.4548 mV	1.77149 ug C	5.57073 ppm

296400 MS+MSD 10 ppm spike

SPL# 00006	03:42:58	TIC =	147.370 mV	7.80352 ug C	24.5394 ppm
SPL# 00006	03:47:58	TOC =	89.1509 mV	4.72070 ug C	14.8450 ppm
SPL# 00006	03:51:03	TIC =	146.936 mV	7.78049 ug C	24.4670 ppm
SPL# 00006	03:56:03	TOC =	88.7134 mV	4.69753 ug C	14.7721 ppm

DI H2O

SPL# 00007	04:21:58	TIC =	15.3089 mV	0.81063 ug C	2.54917 ppm
SPL# 00007	04:26:58	TOC =	1.94959 mV	0.10323 ug C	0.32463 ppm

296401

SPL# 00008	04:30:35	TIC =	133.841 mV	7.08714 ug C	22.2866 ppm
SPL# 00008	04:35:35	TOC =	9.76102 mV	0.51686 ug C	1.62536 ppm

296402

SPL# 00009	04:49:23	TIC =	132.210 mV	7.00073 ug C	22.0149 ppm
SPL# 00009	04:54:23	TOC =	39.9047 mV	2.11302 ug C	6.64473 ppm

DI H2O

SPL# 00010	05:01:42	TIC =	4.41385 mV	0.23372 ug C	0.73497 ppm

296403

SPL# 00011	05:10:13	TIC =	139.084 mV	7.36473 ug C	23.1595 ppm
SPL# 00011	05:15:13	TOC =	19.4172 mV	1.02817 ug C	3.23325 ppm

DI H2O

SPL# 00012	05:18:58	TIC =	2.55610 mV	0.13535 ug C	0.42562 ppm
SPL# 00012	05:23:58	TOC =	1.63395 mV	0.08652 ug C	0.27207 ppm

296404

SPL# 00013	05:31:56	TIC =	2.47183 mV	0.13088 ug C	0.41159 ppm
SPL# 00013	05:36:56	TOC =	0.20179 mV	0.01068 ug C	0.03360 ppm

296405

SPL# 00014	05:55:09	TIC =	11.3734 mV	-0.60224 ug C	1.89385 ppm
SPL# 00014	06:00:09	TOC =	-0.34132 mV	-0.01807 ug C	-0.05683 ppm

297346

SPL# 00015	06:08:35	TIC =	88.0181 mV	4.66071 ug C	14.6563 ppm
SPL# 00015	06:13:35	TOC =	49.1597 mV	2.60309 ug C	8.18583 ppm

DI H2O

SPL# 00016	06:19:41	TIC =	3.06204 mV	0.16214 ug C	0.50987 ppm
SPL# 00016	06:24:41	TOC =	2.55273 mV	0.13517 ug C	0.42506 ppm

297348

SPL# 00017	06:32:40	TIC =	11.3734 mV	0.60224 ug C	1.89385 ppm
SPL# 00017	06:37:40	TOC =	24.1946 mV	1.28114 ug C	4.02875 ppm

DI H2O

SPL# 00018	06:44:59	TIC =	3.39963 mV	-0.18001 ug C	0.56609 ppm
SPL# 00018	06:49:59	TOC =	2.00700 mV	0.10627 ug C	0.33419 ppm

298158

SPL# 00019	06:59:31	TIC =	1589.05 mV	84.1428 ug C	264.600 ppm
SPL# 00019	07:04:31	TOC =	771.241 mV	40.8386 ug C	128.423 ppm

DI H2O

SPL# 00020	07:09:52	TIC =	9.68829 mV	0.51301 ug C	1.61324 ppm
SPL# 00020	07:14:52	TOC =	71.9260 mV	3.80861 ug C	11.9768 ppm
SPL# 00020	07:17:57	TIC =	5.23241 mV	0.27706 ug C	0.87127 ppm
SPL# 00020	07:22:57	TOC =	15.7155 mV	0.83216 ug C	2.61687 ppm
SPL# 00020	07:32:03	TIC =	5.76242 mV	0.30550 ug C	0.96070 ppm
SPL# 00020	07:37:03	TOC =	12.9202 mV	0.68414 ug C	2.15141 ppm
SPL# 00020	07:40:08	TIC =	3.51222 mV	0.18597 ug C	0.58483 ppm
SPL# 00020	07:45:08	TOC =	5.72420 mV	0.30310 ug C	0.95316 ppm

298122

SPL# 00021	08:20:17	TIC =	28.4002 mV	1.50384 ug C	4.72905 ppm
SPL# 00021	08:25:17	TOC =	12.7148 mV	0.67327 ug C	2.11784 ppm

000584

SPL# 00022	08:34:32	TIC =	5.31717 mV	0.28155 ug C	0.88538 ppm
SPL# 00022	08:39:32	TOC =	3.50203 mV	0.18543 ug C	0.58314 ppm

TIER I

GENERAL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Date of Analysis: 11/13/90

Name of Analyst: KEVIN KILIAN — Garrett Klemens

Matrix Spike Sample #:(the # of the sample that you spiked)

296400

Lab Sample ID #: (the set of samples numbers that were run with the spiked sample)

296400 — 296405

COMPOUND	AMT ADDED mg/l	SAMPLE RESULT mg/l	CONC. MS mg/l	MS % REC #	QC LIMITS % REC	CONC. MSD mg/l	MS/MSD RPD %
269400 TDS	368	116	500	104.3%	80-120%	122	5.0%

Form QC GEN-2

OVEN TEMP #1 - 150°C
OVEN TEMP #2 - 180°C
METTLER BALANCE CALIBRATED 11/13/
10.0000 = 10.0001 GR .0100 GR = .0100 GR

TOTAL DISSOLVED SOLIDS - MDL = 2 mg/l
Dried at 180C

000586

Date	Access. #	Pan #	Pan Wt. g.	Sample Size ml	Dry Pan & Sample Wt. g.	Net Wt. g.	TDS mg/l	RPD %	Init.
11/13	294117	1	1.9340	50	2.1020	.1680	3360		KK
	[redacted]								
	296401	5	1.9144	50	1.9185	.0041	82		
	296402	6	1.9005	50	1.9052	.0047	94		
	296403	7	1.9137	50	1.9200	.0063	126		
	296404	8	1.9208	50	1.9290	.0082	164		
	296405	9	1.9073	50	1.9151	.0078	156		
	297026	10	1.9038	50	1.9391	.0353	706		
	297346	11	1.9138	50	1.9318	.0180	360		
	297348	12	1.9500	50	1.9531	.0031	62		
	297348 DUP	13	1.9211	50	1.9246	.0035	70	12.1%	
	297348 SPIKE	14	1.9051	25+25	1.9163	.0112	448		
	297348 SPIKE	15	1.9174	25+25	1.9289	.0115	460	2.6%	
11/13	KNOWN	16	1.9078	50	1.9180	.0102	204		KK

TOTAL DISSOLVED SOLIDS - Dried at 180C
MDL = 2 mg/l

TDS Calculation: mg/l = net wt. / sample size X 1,000,000
Use less sample when net wt. >0.2 g.

RPD: difference / average X 100 Round TDS results to 2 sig. figures.

Circle samples to be re-checked. Dup and spike: every set of ten or less.

KNOWN

Date	I.D. #	True Value mg/l	Range mg/l	Meas. Value mg/l	Recov. %	Init.
11/13	W0406	220	198-242	204	92.7%	KK

Recovery % = Measured Value / True Value X 100

SPIKE DATA

Date	Access. #	Spike Sol'n Conc. mg/l A	ml Spike Sol'n B	ml Sample in Spike C	Spike Conc. mg/l D	Ave. Sample Result mg/l E	Spiked Result mg/l F	% Spike Rec.	Init.
11/13	296400	368	25	25	368	119	500	103.5%	KK
11/13	297348	368	25	25	368	66	454	105.4%	KK

Spike Conc. (D) = A X B / C % Spike Rec. = (F - E) / D X 100

GENERAL QUALITY ASSURANCE DATA - Duplicates Only

Date of Analysis: 11/5/90 Kenneth Flemming

Name of Analyst: M. Clawges

Lab Sample ID #: (the set of samples numbers that were run with the Dup. sample)

296400 - 296405

COMPOUND	SAMPLE RESULT mg/l	CONC. DUP. mg/l	DUP. RPD %				
296404	5.43	5.43	0%				

36

pH

Standardize the pH meter each day.
Use a Two point calibration: pH 7 and 4.
Check a pH 10 buffer after calibrating meter.

When sample pH > 8.0 - Check a pH 10 - buffer as next sample.
Re-- check duplicates if difference > 0.03 pH units.
Re-calibrate meter if duplicate re-checks do not work.

Date	Access. #	pH	RPD %	Init.
11/2	296024	7.56 mc		mc
11/2	296026	7.67		mc
11/2	296026	7.68	0.1%	mc
11/5	013348	7.43		mc
11/5	106662	6.86		mc
11/5	106663	7.89		mc
11/5	296211	6.05		mc
11/5	296331	8.17		mc
11/5	296332	7.73		mc
11/5	296340	6.66		mc
11/5	296341	6.73		mc
11/5	296344	7.23		mc
11/5	296352	5.05		mc
11/5	296353	5.13		mc
11/5	296354	5.54		mc
[illegible]	[illegible]	[illegible]		mc
11/5	296355	[illegible]	[illegible]	mc
11/5	296360	5.73		mc
11/5	296400	4.71		mc
11/5	296401	5.14		mc
11/5	296402	4.27		mc
11/5	296403	4.53		mc

RPD: difference / Average X 100

pH

Standardize the pH meter each day.
Use a Two point calibration: pH 7 and 4.
Check a pH 10 buffer after calibrating meter.

When sample pH > 8.0 - Check a pH 10 - buffer as next sample.
Re - check duplicates if difference > 0.03 pH units.
Re-calibrate meter if duplicate re-checks do not work.

Date	Access. #	pH	RPD %	Init.
	296404			
~~11/5~~	~~296404~~	~~[illegible]~~	~~0.0%~~	~~mc~~
~~11/5~~	~~296404~~	~~[illegible]~~	~~[illegible]~~	~~mc~~
11/5	296405	5.50		mc
~~11/5~~	~~296449~~	~~6.76~~		~~mc~~
~~11/5~~	~~296449~~	~~[illegible]~~	~~0.1%~~	~~mc~~
11/5	296445	8.24		mc
11/5	296446	6.77		mc
11/5	296447	6.52		mc
11/5	296448	7.63		mc
11/5	296449	7.00		mc
11/5	296450	4.97		mc
11/6	013357	7.15		mc
	013358	6.37		mc
	106692	7.45		mc
	106693	7.90		mc
	106728	7.22		mc
	296011	3.58		mc
	296012	3.71		mc
	296017	3.73		mc
	296468	7.71		mc
	296469	6.56		mc
11/6	296469	6.57	0.1%	mc

11/5

RPD: difference / Average X 100

CONDUCTIVITY - 20C

Record known in conductivity meter book.
Eliminate all bubbles in conductivity cell. Mix samples well.
Make sure cell constant is set to that listed in meter log.

Date	Access. #	Conductivity uS/cm	RPD %	Init.
[redacted]				
↓	308130	177		MC
11/30	308132	6590		MC
11/30	296105	1.25		KK
11/30	296104	2.08		KK

RPD: difference / Average X 100

Circle samples to be re-checked

ATTACHMENT B

Groundwater Analysis Forms

DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.

LAB NAME: QC Inc.

R | NJPDES NO. NJ 0023540 | WELL PERMIT NO. 29-20668-5 | SAMPLE DATE YR. MO. DAY 901101 | NJ LAB CERT. NO. 77166 | WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0190 (MO. YR.) TO 1290 (MO. YR.)

77648

SUBMIT WITH SIGNED T-VWX-014

Owners Well No. C-14-A
(C-14-4)

SAMPLING MONTHS: Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		104.1	
	X			X			X			X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		104.1	
	X			X			X			X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	8.20	
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	8.20	
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00050		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
	X						X					Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND REMARK CODES ON REVERSE

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.

LAB NAME: QC Inc.

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S NJ 0023540	29-20668-5	901101	77166	

77648

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0190 (MO. YR.) TO 1290 (MO. YR.)

Owner's Well No. C-14-A

SUBMIT WITH SIGNED T-VWX-014

(C-14-4)

Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
x			x				x			x		pH	Standard Units	00400	4.71	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
x			x				x			x		Total Dissolved Solids (TDS)	PPM	70300	120	
x			x				x			x		Total Organic Carbon (TOC)	PPM	00680	5.8	
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
x			x				x			x		Petroleum Hydrocarbons	PPM	45501	0.5	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

Form VWX-017
4.80

P1

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

ACID, BASE/NEUTRAL ORGANIC COMPOUNDS

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	Naval Weapons Station Earle	SW ID NO.
LAB NAME	QC Inc.	

U

NJPDES NO. NJ 0 0 2 3 5 4 0

WELL PERMIT NO. 2 9 - 2 0 6 6 8 - 5

SAMPLE DATE YR. 9 0 MO. 1 1 DAY 0 1

NJ LAB CERT. NO. 7 7 1 6 6
77648

WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 1 9 1 0 (MO. YR.) TO 1 2 9 1 0 (MO. YR.)

Owner's Well No. C-14-A
(C-14-4)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	2-Chlorophenol	ug/l	34586		
	2,4-Dichlorophenol	ug/l	34601		
	2,4-Dimethylphenol	ug/l	34606		
	2,6-Dinitro-o-cresol	ug/l	77603		
	2,4-Dinitrophenol	ug/l	34616		
	2-Nitrophenol	ug/l	34591		
	4-Nitrophenol	ug/l	34649		
	p-Chloro-m-cresol	ug/l	34452		
	Pentachlorophenol	ug/l	39032		
	Phenol	ug/l	34695		
	2,4,6-Trichlorophenol	ug/l	34621		
X X	Acenaphthene	ug/l	34205	10	K
	Acenaphthylene	ug/l	34200	10	K
	Anthracene	ug/l	34220	10	K
	Benzidine	ug/l	39120	50	K
	Benzanthracene	ug/l	34526	10	K
	Benzopyrene	ug/l	34247	10	K
	3,4-Benzofluoranthene	ug/l	34230	10	K
	Benzoperylene	ug/l	34521	10	K
	Benzofluoranthene	ug/l	34242	10	K
	Bis(2-chloroethoxy)methane	ug/l	34278	10	K
	Bis(2-chloroethyl) Ether	ug/l	34273	10	K
	Bis(2-chloroisopropyl) Ether	ug/l	34283	10	K
	Bis(2-ethylhexyl) Phthalate	ug/l	39100	3	K
	4-Bromophenyl Ether	ug/l	34636		
	Butylbenzyl Phthalate	ug/l	34292	10	K
	2-Chloronaphthalene	ug/l	34581	10	K
	4-Chlorophenyl Phenyl Ether	ug/l	34641	10	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

VWX.017

P2

DEPARTMENT OF ENVIRONMENTAL PROTECT.
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

ASE TYPE OR PRINT WITH BALLPOINT PEN

ILITY NAME: Naval Weapons Station Earle | SW ID NO.

NAME: OC Inc.

NJPDES NO.: U NJ 0 0 2 3 5 4 0

WELL PERMIT NO.: 2 9 - 2 0 6 6 8 - 5

SAMPLE DATE YR. MO. DAY: 9 0 1 1 0 1

NJ LAB CERT. NO.: 7 7 1 6 6 — 77648

WQM USE

E SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 9 0 (MO. YR.) TO 1 2 9 0 (MO. YR.)

SUBMIT WITH SIGNED T-PWX-014

Owner's Well No. C-14-A (C-14-4)

SAMPLING MONTHS

J	F	M	A	M	J	J	A	S	O	N	D	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	x						x					Chrysene	ug/l	34320	10	K
												Dibenzanthracene	ug/l	34556	10	K
												1,2-Dichlorobenzene	ug/l	34536	10	K
												1,3-Dichlorobenzene	ug/l	34566	10	K
												1,4-Dichlorobenzene	ug/l	34571	10	K
												3,3'-Dichlorobenzidine	ug/l	34631	20	K
												Diethyl Phthalate	ug/l	34336	10	K
												Dimethyl Phthalate	ug/l	34341	10	K
												Di-n-butyl Phthalate	ug/l	39110	10	K
												2,4-Dinitrotoluene	ug/l	34611	10	K
												2,6-Dinitrotoluene	ug/l	34626	10	K
												Di-n-octyl Phthalate	ug/l	34596	10	K
												1,2-Diphenylhydrazine	ug/l	34346		
												Fluoranthene	ug/l	34376	10	K
												Fluorene	ug/l	34381	10	K
												Hexachlorobenzene	ug/l	39700	10	K
												Hexachlorobutadiene	ug/l	34391	10	K
												Hexachlorocyclopentadiene	ug/l	34386	10	K
												Hexachloroethane	ug/l	34396	10	K
												Indenopyrene	ug/l	34403	10	K
												Isophorone	ug/l	34408	10	K
												Naphthalene	ug/l	34696	10	K
												Nitrobenzene	ug/l	34447	10	K
												N-Nitrosodimethylamine	ug/l	34438	10	K
												N-Nitrosodi-n-propylamine	ug/l	34428	10	K
												N-Nitrosodiphenylamine	ug/l	34433	10	K
												Phenanthrene	ug/l	34461	10	K
												Pyrene	ug/l	34469	10	K
	x						x					1,2,4-Trichlorobenzene	ug/l	34551	10	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.:

LAB NAME: QC Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE (YR. / MO. / DAY)	NJ LAB CERT. NO.	WQM USE
R	NJ 0023540	29-20666-9	901101	77166	
1	2–8	9–16	17–22	23–27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0190 (MO. YR.) TO 1290 (MO. YR.)

77648

Owners Well No. C-14-B (C-14-1)

SUBMIT WITH SIGNED T-PWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
x x x x x x	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		110.71	
x x x x x x	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		108.81	
x x x x x x	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546	15.66	
x x x x x x	Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	13.83	
	Arsenic, Dissolved	UG/L as As	01000		
	Barium, Dissolved	UG/L as Ba	01005		
	Biochemical Oxygen Demand - 5 Day	MG/L	00310		
	Cadmium, Dissolved	UG/L as Cd	01025		
	Chloride, Dissolved	UG/L as Cl	82295		
	Chromium, Dissolved	UG/L as Cr	01030		
	Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
	Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
	Coliform Group	N/100 ML	74056		
	Color	Pt - Co	00080		
	Copper, Dissolved	UG/L as Cu	01040		
	Cyanide, Total	MG/L as CN	00720		
	Endrin, Total	UG/L	39390		
	Fluoride, Dissolved	MG/L as F	00950		
	Gross Alpha, Dissolved	Pc/L	01803		
	Gross Beta, Dissolved	Pc/L	03503		
	Hardness, Total as $CaCO_3$	MG/L	00900		
	Iron, Dissolved	UG/L as Fe	01046		
x x	Lead, Dissolved	UG/L as Pb	01049		
	Lindane, Total	UG/L	39782		
	Manganese, Dissolved	UG/L	01056		
	Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND REMARK CODES ON REVERSE

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle — SW ID NO.

LAB NAME: QC Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S	NJ 0023540	29-20666-9	901101	77166	

77648

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0190 (MO. YR.) TO 1290 (MO. YR.)

Owner's Well No. C-14-B (C-14-1)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
x			x				x				x	pH	Standard Units	00400	5.16	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
x			x				x				x	Total Dissolved Solids (TDS)	PPM	70300	82.	
x			x				x				x	Total Organic Carbon (TOC)	PPM	00680	1.6	
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
x			x				x				x	Petroleum Hydrocarbons	PPM	45501	0.5	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

Form VWX-017
4.83

P1

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT
ACID, BASE/NEUTRAL ORGANIC COMPOUNDS

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.

LAB NAME: QC Inc.

U | NJPDES NO. NJ 0023540 | WELL PERMIT NO. 29-20666-9 | SAMPLE DATE TR. NO. DAY 901101 | NJ LAB CERT. NO. 77166 77648 | WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 011910 (MO. YR.) TO 121910 (MO. YR.)

Owner's Well No. C-14-B

SUBMIT WITH SIGNED T-VWX-014

(C-14-1)

SAMPLING MONTHS	ANALYTE	UNITS	PARAMETER	VALUE	REMARKS
	2-Chlorophenol	ug/l	34586		
	2,4-Dichlorophenol	ug/l	34601		
	2,4-Dimethylphenol	ug/l	34606		
	2,6-Dinitro-o-cresol	ug/l	77603		
	2,4-Dinitrophenol	ug/l	34616		
	2-Nitrophenol	ug/l	34591		
	4-Nitrophenol	ug/l	34649		
	p-Chloro-m-cresol	ug/l	34452		
	Pentachlorophenol	ug/l	39032		
	Phenol	ug/l	34695		
	2,4,6-Trichlorophenol	ug/l	34621		
X X	Acenaphthene	ug/l	34205	10	K
	Acenaphthylene	ug/l	34200	10	K
	Anthracene	ug/l	34220	10	K
	Benzidine	ug/l	39120	50	K
	Benzanthracene	ug/l	34526	10	K
	Benzopyrene	ug/l	34247	10	K
	3,4-Benzofluoranthene	ug/l	34230	10	K
	Benzoperylene	ug/l	34521	10	K
	Benzofluoranthene	ug/l	34242	10	K
	Bis(2-chloroethoxy)methane	ug/l	34278	10	K
	Bis(2-chloroethyl) Ether	ug/l	34273	10	K
	Bis(2-chloroisopropyl) Ether	ug/l	34283	10	K
	Bis(2-ethylhexyl) Phthalate	ug/l	39100	10	K
	4-Bromophenyl Ether	ug/l	34636		
	Butylbenzyl Phthalate	ug/l	34292	10	K
	2-Chloronaphthalene	ug/l	34581	10	K
	4-Chlorophenyl Phenyl Ether	ug/l	34641	10	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

VWX-017

P2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.

LAB NAME: OC Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
U	NJ 0023540	29-20666-9	901101	77648	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0190 (MO. YR.) TO 1290 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Owner's Well No. C-14-B

(C-14-1)

SAMPLING MONTHS	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
x x	Chrysene	ug/l	34320	10	K
	Dibenzanthracene	ug/l	34556	10	K
	1,2-Dichlorobenzene	ug/l	34536	10	K
	1,3-Dichlorobenzene	ug/l	34566	10	K
	1,4-Dichlorobenzene	ug/l	34571	10	K
	3,3'-Dichlorobenzidine	ug/l	34631	20	K
	Diethyl Phthalate	ug/l	34336	10	K
	Dimethyl Phthalate	ug/l	34341	10	K
	Di-n-butyl Phthalate	ug/l	39110	10	K
	2,4-Dinitrotoluene	ug/l	34611	10	K
	2,6-Dinitrotoluene	ug/l	34626	10	K
	Di-n-octyl Phthalate	ug/l	34596	10	K
	1,2-Diphenylhydrazine	ug/l	34346		
	Fluoranthene	ug/l	34376	10	K
	Fluorene	ug/l	34381	10	K
	Hexachlorobenzene	ug/l	39700	10	K
	Hexachlorobutadiene	ug/l	34391	10	K
	Hexachlorocyclopentadiene	ug/l	34386	10	K
	Hexachloroethane	ug/l	34396	10	K
	Indenopyrene	ug/l	34403	10	K
	Isophorone	ug/l	34408	10	K
	Naphthalene	ug/l	34696	10	K
	Nitrobenzene	ug/l	34447	10	K
	N-Nitrosodimethylamine	ug/l	34438	10	K
	N-Nitrosodi-n-propylamine	ug/l	34428	10	K
	N-Nitrosodiphenylamine	ug/l	34433	10	K
	Phenanthrene	ug/l	34461	10	K
	Pyrene	ug/l	34669	10	K
x x	1,2,4-Trichlorobenzene	ug/l	34551	10	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.:

LAB NAME: QC Inc.

R (1) | NJPDES NO. NJ 0 0 2 3 5 4 0 (2–8) | WELL PERMIT NO. 2 9 - 2 0 6 6 9 - 3 (9–16) | SAMPLE DATE YR. MO. DAY 9 0 1 1 0 1 (17–22) | NJ LAB CERT. NO. 7 7 1 6 6 (23–27) | WQM USE (28)

77648

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 9 0 (MO. YR.) TO 1 2 9 0 (MO. YR.)

Owners Well No. C-14-C

(C-14-2)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		1 0 8 . 3 0	
	X			X			X			X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		1 0 6 . 1 3	
	X			X			X			X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6	1 3 . 5 0	
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9	1 1 . 3 3	
												Arsenic, Dissolved	UG/L as As	0 1 0 0 0		
												Barium, Dissolved	UG/L as Ba	0 1 0 0 6		
												Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 0		
												Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5		
												Chloride, Dissolved	UG/L as Cl	8 2 2 9 6		
												Chromium, Dissolved	UG/L as Cr	0 1 0 3 0		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	0 1 2 2 0		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		
												Coliform Group	N/100 ML	7 4 0 5 6		
												Color	Pt - Co	0 0 0 8 0		
												Copper, Dissolved	UG/L as Cu	0 1 0 4 0		
												Cyanide, Total	MG/L as CN	0 0 7 2 0		
												Endrin, Total	UG/L	3 9 3 9 0		
												Fluoride, Dissolved	MG/L as F	0 0 9 5 0		
												Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		
												Gross Beta, Dissolved	Pc/L	0 3 5 0 3		
												Hardness, Total as $CaCO_3$	MG/L	0 0 9 0 0		
												Iron, Dissolved	UG/L as Fe	0 1 0 4 6		
	X						X					Lead, Dissolved	UG/L as Pb	0 1 0 4 9		
												Lindane, Total	UG/L	3 9 7 8 2		
												Manganese, Dissolved	UG/L	0 1 0 5 6		
												Mercury, Dissolved	UG/L	7 1 8 9 0		

VALUE CODING RULES AND REMARK CODES ON REVERSE

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.

LAB NAME: QC Inc.

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S	NJ 0023540	29-20669-3	901101	77166	

77648

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0190 (MO. YR.) TO 1290 (MO. YR.)

Owner's Well No. C-14-C

SUBMIT WITH SIGNED T-VWX-014

(C-14-2)

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
x			x			x				x		pH	Standard Units	00400	4.27	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
x			x			x				x		Total Dissolved Solids (TDS)	PPM	70300	94.	
x			x			x				x		Total Organic Carbon (TOC)	PPM	00680	6.6	
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
x			x			x				x		Petroleum Hydrocarbons	PPM	45501	0.5	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

Form VWX-017
4.83

P1

NEW J[illegible] DEPARTMENT OF ENVIRONMENTAL PROTE[illegible]ON
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT
ACID, BASE/NEUTRAL ORGANIC COMPOUNDS

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	Naval Weapons Station Earle	SW ID NO.
LAB NAME	QC Inc.	

U

NJPDES NO. NJ 0 0 2 3 5 4 0

WELL PERMIT NO. 2 9 - 2 0 6 6 9 - 3

SAMPLE DATE YR. | MO. | DAY 9 0 1 1 0 1

NJ LAB CERT. NO. 7 7 1 6 6
77648

WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 1 9 1 0 (MO. YR.) TO 1 2 9 1 0 (MO. YR.)

Owner's Well No. C-14-C

SUBMIT WITH SIGNED T-VWX-014

(C-14-2)

SAMPLING MONTHS	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	2-Chlorophenol	ug/l	34586		
	2,4-Dichlorophenol	ug/l	34601		
	2,4-Dimethylphenol	ug/l	34606		
	2,6-Dinitro-o-cresol	ug/l	77603		
	2,4-Dinitrophenol	ug/l	34616		
	2-Nitrophenol	ug/l	34591		
	4-Nitrophenol	ug/l	34649		
	p-Chloro-m-cresol	ug/l	34452		
	Pentachlorophenol	ug/l	39032		
	Phenol	ug/l	34695		
	2,4,6-Trichlorophenol	ug/l	34621		
X X	Acenaphthene	ug/l	34205	10	K
	Acenaphthylene	ug/l	34200	10	K
	Anthracene	ug/l	34220	10	K
	Benzidine	ug/l	39120	50	K
	Benzanthracene	ug/l	34526	10	K
	Benzopyrene	ug/l	34247	10	K
	3,4-Benzofluoranthene	ug/l	34230	10	K
	Benzoperylene	ug/l	34521	10	K
	Benzofluoranthene	ug/l	34242	10	K
	Bis(2-chloroethoxy)methane	ug/l	34278	10	K
	Bis(2-chloroethyl) Ether	ug/l	34273	10	K
	Bis(2-chloroisopropyl) Ether	ug/l	34283	10	K
	Bis(2-ethylhexyl) Phthalate	ug/l	39100	4	K
	4-Bromophenyl Ether	ug/l	34636		
	Butylbenzyl Phthalate	ug/l	34292	10	K
	2-Chloronaphthalene	ug/l	34581	10	K
	4-Chlorophenyl Phenyl Ether	ug/l	34641	10	K

VALUE CODING RULES AND
REMARK CODES ON REVE..SE

VWX017

P2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle

SW ID NO.:

OWNER NAME: OC Inc.

U

NJPDES NO.: NJ 0 0 2 3 5 4 0

WELL PERMIT NO.: 2 9 - 2 0 6 6 9 - 3

SAMPLE DATE YR. MO. DAY: 9 0 1 1 0 1

NJ LAB CERT. NO.: 7 7 1 6 6 — 77648

FROM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 9 0 (MO. YR.) TO 1 2 9 0 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Owner's Well No. C-14-C

(C-14-2)

SAMPLING MONTHS

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	x					x						Chrysene	ug/l	34320	10	K
												Dibenzanthracene	ug/l	34556	10	K
												1,2-Dichlorobenzene	ug/l	34536	10	K
												1,3-Dichlorobenzene	ug/l	34566	10	K
												1,4-Dichlorobenzene	ug/l	34571	10	K
												3,3'-Dichlorobenzidine	ug/l	34631	20	K
												Diethyl Phthalate	ug/l	34336	10	K
												Dimethyl Phthalate	ug/l	34341	10	K
												Di-n-butyl Phthalate	ug/l	39110	10	K
												2,4-Dinitrotoluene	ug/l	34611	10	K
												2,6-Dinitrotoluene	ug/l	34626	10	K
												Di-n-octyl Phthalate	ug/l	34596	10	K
												1,2-Diphenylhydrazine	ug/l	34346		
												Fluoranthene	ug/l	34376	10	K
												Fluorene	ug/l	34381	10	K
												Hexachlorobenzene	ug/l	39700	10	K
												Hexachlorobutadiene	ug/l	34391	10	K
												Hexachlorocyclopentadiene	ug/l	34386	10	K
												Hexachloroethane	ug/l	34396	10	K
												Indenopyrene	ug/l	34403	10	K
												Isophorone	ug/l	34408	10	K
												Naphthalene	ug/l	34696	10	K
												Nitrobenzene	ug/l	34447	10	K
												N-Nitrosodimethylamine	ug/l	34438	10	K
												N-Nitrosodi-n-propylamine	ug/l	34428	10	K
												N-Nitrosodiphenylamine	ug/l	34433	10	K
												Phenanthrene	ug/l	34462	10	K
												Pyrene	ug/l	34469	10	K
	x					x						1,2,4-Trichlorobenzene	ug/l	34551	10	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.

LAB NAME: QC Inc.

S | NJPDES NO. NJ 0023540 | WELL PERMIT NO. 29-20667-7 | SAMPLE DATE YR. MO. DAY 901101 | NJ LAB CERT. NO. 77166 | WQM USE

77648

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0190 (MO. YR.) TO 1290 (MO. YR.)

Owner's Well No. C-29-A

(C-14-3)

SUBMIT WITH SIGNED T-VWX-014

Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
x			x				x				x	pH	Standard Units	00400	4.54	
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
x			x				x				x	Total Dissolved Solids (TDS)	PPM	70300	1301.	
x			x				x				x	Total Organic Carbon (TOC)	PPM	00680	3.2	
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		
x			x				x				x	Petroleum Hydrocarbons	PPM	45501	0.5	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.:

LAB NAME: QC Inc.

R	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE (YR. MO. DAY)	NJ LAB CERT. NO.	WQM USE
1	NJ 0 0 2 3 5 4 0 (3–8)	2 9 - 2 0 6 6 7 - 7 (9–16)	9 0 1 1 0 1 (17–22)	7 7 1 6 6 (23–27)	

77648

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 9 0 (MO. YR.) TO 1 2 9 0 (MO. YR.)

Owners Well No. C-29-A

(C-14-3)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X X X X X X X X X X X X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		1 0 8 . 2 3	
X X X X X X X X X X X X	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		1 0 4 . 9 0	
X X X X X X X X X X X X	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6	1 2 . 0 0	
X X X X X X X X X X X X	Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9	8 . 5 0	
	Arsenic, Dissolved	UG/L as As	0 1 0 0 0		
	Barium, Dissolved	UG/L as Ba	0 1 0 0 5		
	Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 0		
	Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5		
	Chloride, Dissolved	UG/L as Cl	8 2 2 0 5		
	Chromium, Dissolved	UG/L as Cr	0 1 0 3 0		
	Chromium, Dissolved, Hexavalent	UG/L as Cr	0 1 2 2 0		
	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		
	Coliform Group	N/100 ML	7 4 0 5 6		
	Color	Pt - Co	0 0 0 8 0		
	Copper, Dissolved	UG/L as Cu	0 1 0 4 0		
	Cyanide, Total	MG/L as CN	0 0 7 2 0		
	Endrin, Total	UG/L	3 9 3 9 0		
	Fluoride, Dissolved	MG/L as F	0 0 9 5 0		
	Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		
	Gross Beta, Dissolved	Pc/L	0 3 5 0 3		
	Hardness, Total as $CaCO_3$	MG/L	0 0 0 0 0		
	Iron, Dissolved	UG/L as Fe	0 1 0 4 6		
X X	Lead, Dissolved	UG/L as Pb	0 1 0 4 9		
	Lindane, Total	UG/L	3 9 7 8 2		
	Manganese, Dissolved	UG/L	0 1 0 5 6		
	Mercury, Dissolved	UG/L	7 1 8 9 0		

VALUE CODING RULES AND REMARK CODES ON REVERSE

Form VWX-017
4.80

P1

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

ACID, BASE/NEUTRAL ORGANIC COMPOUNDS

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.:

LAB NAME: QC Inc.

U | NJPDES NO.: NJ 0 0 2 3 5 4 0 | WELL PERMIT NO.: 2 9 - 2 0 6 6 7 - 7 | SAMPLE DATE YR. MO. DAY: 9 0 1 1 0 1 | NJ LAB CERT. NO.: 7 7 1 6 6 (77648) | WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 1 9 1 0 (MO. YR.) TO 1 2 9 1 0 (MO. YR.)

Owner's Well No. C-29-A

SUBMIT WITH SIGNED T-VWX-014

(C-14-3)

SAMPLING MONTHS	ANALYTES	UNITS	PARAMETER	VALUE	REMARKS
	2-Chlorophenol	ug/l	34586		
	2,4-Dichlorophenol	ug/l	34601		
	2,4-Dimethylphenol	ug/l	34606		
	2,6-Dinitro-o-cresol	ug/l	77603		
	2,4-Dinitrophenol	ug/l	34616		
	2-Nitrophenol	ug/l	34591		
	4-Nitrophenol	ug/l	34649		
	p-Chloro-m-cresol	ug/l	34452		
	Pentachlorophenol	ug/l	39032		
	Phenol	ug/l	34695		
	2,4,6-Trichlorophenol	ug/l	34621		
X X	Acenaphthene	ug/l	34205	11	K
	Acenaphthylene	ug/l	34200	11	K
	Anthracene	ug/l	34220	11	K
	Benzidine	ug/l	39120	54	K
	Benzanthracene	ug/l	34526	11	K
	Benzopyrene	ug/l	34247	11	K
	3,4-Benzofluoranthene	ug/l	34230	11	K
	Benzoperylene	ug/l	34521	11	K
	Benzofluoranthene	ug/l	34242	11	K
	Bis(2-chloroethoxy)methane	ug/l	34278	11	K
	Bis(2-chloroethyl) Ether	ug/l	34273	11	K
	Bis(2-chloroisopropyl) Ether	ug/l	34283	11	K
	Bis(2-ethylhexyl) Phthalate	ug/l	39100	3	K
	4-Bromophenyl Ether	ug/l	34636		
	Butylbenzyl Phthalate	ug/l	34292	22	K
	2-Chloronaphthalene	ug/l	34581	11	K
	4-Chlorophenyl Phenyl Ether	ug/l	34641	11	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

VWX-017

P2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

USE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Naval Weapons Station Earle | SW ID NO.

NAME: OC Inc.

NJPDES NO.: U NJ 0 0 2 3 5 4 0

WELL PERMIT NO.: 2 9 - 2 0 6 6 7 - 7

SAMPLE DATE YR. MO. DAY: 9 0 1 1 0 1

NJ LAB CERT. NO.: 7 7 1 6 6 (77648)

FROM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 9 0 (MO. YR.) TO 1 2 9 0 (MO. YR.)

Owner's Well No. C-29-A

(C-14-3)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	x						x					Chrysene	ug/l	34320	1	K
												Dibenzanthracene	ug/l	34556	1	K
												1,2-Dichlorobenzene	ug/l	34536	1	K
												1,3-Dichlorobenzene	ug/l	34566	1	K
												1,4-Dichlorobenzene	ug/l	34571	1	K
												3,3'-Dichlorobenzidine	ug/l	34631	2	K
												Diethyl Phthalate	ug/l	34336	1	K
												Dimethyl Phthalate	ug/l	34341	1	K
												Di-n-butyl Phthalate	ug/l	39110	1	K
												2,4-Dinitrotoluene	ug/l	34611	1	K
												2,6-Dinitrotoluene	ug/l	34626	1	K
												Di-n-octyl Phthalate	ug/l	34596	1	K
												1,2-Diphenylhydrazine	ug/l	34346		
												Fluoranthene	ug/l	34376	1	K
												Fluorene	ug/l	34381	1	K
												Hexachlorobenzene	ug/l	39700	1	K
												Hexachlorobutadiene	ug/l	34391	1	K
												Hexachlorocyclopentadiene	ug/l	34386	1	K
												Hexachloroethane	ug/l	34396	1	K
												Indenopyrene	ug/l	34403	1	K
												Isophorone	ug/l	34408	1	K
												Naphthalene	ug/l	34696	1	K
												Nitrobenzene	ug/l	34447	1	K
												N-Nitrosodimethylamine	ug/l	34428	1	K
												N-Nitrosodi-n-propylamine	ug/l	34428	1	K
												N-Nitrosodiphenylamine	ug/l	34433	1	K
												Phenanthrene	ug/l	34461	1	K
												Pyrene	ug/l	34469	1	K
	x						x					1,2,4-Trichlorobenzene	ug/l	34551	1	K

VALUE CODING RULES AND REMARK CODES ON REVERSE