4. SEMIVOLATILES DATA

A. QC SUMMARY

B. SAMPLE DATA

C. STANDARDS DATA

D. RAW QC DATA

CASE#: 20124 SDG#: 02 SAS#:

A. QC SUMMARY

(1) Surrogate Percent Recovery Summary (Form II SV)

(2) Matrix Spike/Matrix Spike Duplicate Summary (Form III SV)

(3) Method Blank Summary (Form IV SV)

(If more than a single form is necessary, forms must be arranged in chronological order by date of analysis of the blank)

(4) GC/MS Tuning and Mass Calibration (Form V SV)

DFTPP in chronological order ; by instrument

(5) Internal Standard Area Summary (Form VIII SV)

In chronological order ; by instrument

(1) Surrogate Percent Recovery Summary (Form II SV)

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	73800101	80	78	104	42	50	93		0
02	73800102	80	69	105	1 *	1 *	21		2
03	73800102RE	76	73	112	2 *	1 *	8 *		3
04	73800103	79	77	114	48	56	70		0
05	73800104	81	75	110	0 *	1 *	22		2
06	73800104RE	65	74	92	0 *	0 *	2 *		3
07	73800105	70	71	83	31	36	77		0
08	73800106	67	70	83	0 *	1 *	4 *		3
09	73800106RE	68	78	91	1 *	2 *	10		2
10	73800107	67	78	88	0 *	0 *	0 *		3
11	73800107RE	69	78	108	0 *	0 *	0 *		3
12	73800108	67	79	85	39	49	103		0
13	73800109	63	72	87	12	10 *	39		1
14	73800109RE	73	79	98	10	6 *	34		1
15	73800110	69	74	80	37	46	90		0
16	73800111	57	63	69	30	42	80		0
17	73800112	89	91	113	44	40	76		0
18	73800112DL	73	73	99	39	37	51		0
19	73800113	68	81	77	0 *	0 *	1 *		3
20	73800113RE	72	75	100	0 *	1 *	7 *		3
21	73800103MS	69	76	100	45	54	85		0
22	73800103MSD	63	69	95	47	56	100		0
23	SBLK76	80	84	106	46	56	96		0
24	SBLK86	78	79	105	43	56	89		0
25	SBLK15	65	87	119	55	63	118		0
26	SBLK31	66	72	90	42	52	44		0
27	SBLK93	76	80	107	56	67	81		0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-114)
S2 (FBP) = 2-Fluorobipbenyl	(43-116)
S3 (TPH) = Terphenyl	(33-141)
S4 (PHL) = Phenol-d5	(10-94)
S5 (2FP) = 2-Fluorophenol	(21-100)
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

(2) Matrix Spike/Matrix Spike Duplicate Summary (Form III SV)

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix Spike - EPA Sample No.: 73800103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	400	0	163	41	12- 86
2-Chlorophenol	400	0	224	56	27-123
1,4-Dichlorobenzene	200	0	115	58	36 97
N-Nitroso-di-n-prop.(1)	200	0	140	70	41 116
1,2,4-Trichlorobenzene	0	0	125	0	
4-Chloro-3-methylphenol	400	0	206	52	23 97
Acenaphthene	200	0	137	69	46-118
4-Nitrophenol	400	0	206	52	10- 80
2,4-Dinitrotoluene	200	0	160	80	24- 96
Pentachlorophenol	400	0	302	76	9-103
Pyrene	200	0	196	98	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	400	175	44	-7	42	12- 86
2-Chlorophenol	400	232	58	-4	40	27-123
1,4-Dichlorobenzene	200	126	63	-8	28	36 97
N-Nitroso-di-n-prop.(1)	200	151	76	-8	38	41 116
1,2,4-Trichlorobenzene	0	124	0	0		
4-Chloro-3-methylphenol	400	222	56	-7	42	23 97
Acenaphthene	200	126	63	9	31	46-118
4-Nitrophenol	400	248	62	-18	50	10- 80
2,4-Dinitrotoluene	200	167	84	-5	38	24- 96
Pentachlorophenol	400	306	77	-1	50	9-103
Pyrene	200	184	92	6	31	26-127

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

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

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: CLP ,2012,4,73800103,LOW,WATER,337383,PEST,EPA,
CAP, HG900510B06,DP900510B06, , , ,

(3) Method Blank Summary (Form IV SV)

(If more than a single form is necessary, forms must be arranged in chronological order by date of analysis of the blank)

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: G2J37915C06 Lab Sample ID: SBLK76

Date Extracted: 05/10/90 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/11/90 Time Analyzed: 0151

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

Instrument ID: 06

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	73800101	337381	GH037381C06	05/11/90
02	73800102	337382	GH037382C06	D5/11/90
03	73800103	337383	GH037383B06	05/10/90
04	73800104	337385	GH037385C06	05/11/90
05	73800103MS	337386	GHD37386B06	05/10/90
06	73800103MSD	337387	GH037387C06	05/11/90

COMMENTS: CLP , , , ,LOW,WATER,337915,PEST,BLANK,
CAP, HG900510B06,DF900510B06, , , ,

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Lab File ID: GJ038347A22 Lab Sample ID: SBLK86

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

Date Analyzed: 05/15/90 Time Analyzed: 1259

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

Instrument ID: 22

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	73800105	337842	GH037842A22	05/15/90
02	73800106	337843	GH037843C22	05/16/90
03	73800107	337844	GH037844C22	05/16/90
04	73800108	337845	GH037845C22	05/16/90
05	73800109	337849	GH037849A22	05/16/90
06	73800110	337848	GH037848A22	05/16/90
07	73800111	337846	GH037846C22	05/16/90
08	73800113	337850	GN037850A22	05/16/90

COMMENTS: CLP , , , ,LOW,WATER,338347,PEST,BLANK,
CAP, HG900515A22,DF900515C22, , , ,

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: GH039498C07 Lab Sample ID: SBLK15

Date Extracted: 05/16/90 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed: 05/18/90 Time Analyzed: 0224

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

Instrument ID: 07

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	73800102RE	337382	GR037382C07	05/18/90
02	73800104RE	337385	GR037385C07	05/18/90

COMMENTS: CLP , , , ,LOW,WATER,339498,PEST,BLANK,
CAP, HG900517B07,DF900517B07, , , ,

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: GJ040130A06 Lab Sample ID: SBLKJ1

Date Extracted: 05/17/90 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed: 05/18/90 Time Analyzed: 1124

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

Instrument ID: 06

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	73800106RE	337843	GR037843A06	05/18/90
02	73800107RE	337844	GR037844A06	05/18/90
03	73800113RE	337850	GR037850A06	05/18/90

COMMENTS: CLP , , , ,LOW,WATER,340130,PEST,BLANK,
CAP, HH900518C06,DH900518C06, , , ,

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: 12-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Lab File ID: GH040522C07 Lab Sample ID: SBLK93

Date Extracted: 05/18/90 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed: 05/21/90 Time Analyzed: 0956

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

Instrument ID: 07

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	73800109RE	337849	GR037849C07	05/21/90
02	73800112	337847	GR037847C07	05/21/90
03	73800112DL	337847	G2D37847B07	05/22/90

COMMENTS: CLP , , , ,LOW,WATER,340522,PEST,BLANK,
CAP, HH900521C07,DF900521C07, , , ,

(4) GC/MS Tuning and Mass Calibration (Form V SV)

DFTPP in chronological order; by instrument

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Lab File ID: DF900505C06 DFTPP Injection Date: 05/05/90

Instrument ID: 06 DFTPP Injection Time: 0257

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.5
68	Less than 2.0% of mass 69	0.7 (1.1)1
69	Mass 69 relative abundance	59.3
70	Less than 2.0% of mass 69	0.6 (1.0)1
127	40.0 - 60.0% of mass 198	47.5
197	Less than 1.0% of mass 198	0.6
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	19.3
365	Greater than 1.00% of mass 198	1.51
441	Present, but less than mass 443	7.8
442	Greater than 40.0% of mass 198	51.6
443	17.0 - 23.0% of mass 442	10.1 (19.5)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	SSTD160		HG900505A06	05/05/90	0323
02	SSTD050		HH900505A06	05/05/90	0400
03	SSTD120		HI900505A06	05/05/90	0443
04	SSTD080		HJ900505A06	05/05/90	0546
05	SSTD050		HK900505A06	05/05/90	0636

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Lab File ID: DF900510B06 DFTPP Injection Date: 05/10/90

Instrument ID: 06 OFTPP Injection Time: 1738

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.0
68	Less than 2.0% of mass 69	0.9 (1.6)1
69	Mase 69 ralative abundance	57.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.5
197	Lese than 1.0% of mass 198	0.3
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	19.1
365	Greater than 1.00% of mass 198	2.11
441	Preeent, but lese than maes 443	10.0
442	Greater than 40.0% of maee 198	65.2
443	17.0 - 23.0% of mass 442	13.6 (20.9)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 AMALYZED	TIME ANALYZED
01	SSTD050		HG900510B06	05/10/90	1808
02	73800103	337383	GH037383B06	05/10/90	2127
03	73800103MS	337386	GH037386B06	05/10/90	2340
04	73800103MSD	337387	GH037387C06	05/11/90	0031
05	73800101	337381	GH037381C06	05/11/90	0114
06	SBLK76	SBLK76	G2J37915C06	05/11/90	0151
07	73800102	337382	GH037382C06	05/11/90	0235
08	73800104	337385	GH037385C06	05/11/90	0320

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Lab File ID: DH900518C06 DFTPP Injection Date: 05/18/90

Instrument ID: 06 DFTPP Injection Time: 0226

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.2
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	56.5
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	16.4
365	Greater than 1.00% of mass 198	1.32
441	Present, but less than mass 443	6.6
442	Greater than 40.0% of mass 198	48.0
443	17.0 - 23.0% of mass 442	9.6 (20.1)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	SSTD050		HH900518C06	05/18/90	0248
02	73800106RE	337843	GR037843A06	05/18/90	1035
03	SBLK31	SBLK31	GJ040130A06	05/18/90	1124
04	73800107RE	337844	GR037844A06	05/18/90	1230
05	73800113RE	337850	GR037850A06	05/18/90	1319

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REV5

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: DF900407A07 DFTPP Injection Date: 04/07/90

Instrument ID: 07 DFTPP Injection Time: 0752

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	16.9
68	Less than 2.0% of mass 69	0.5 (1.0)1
69	Mass 69 relative abundance	49.1
70	Less than 2.0% of mese 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	45.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% reletive abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mase 198	24.9
365	Greater than 1.00% of mass 198	2.60
441	Present, but less than mass 443	6.8
442	Greater than 40.0% of mass 198	55.3
443	17.0 - 23.0% of mass 442	9.7 (17.5)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	SSTD160		HG900407A07	04/07/90	1505
02	SSTD020		HH900407A07	04/07/90	1543
03	SSTD120		HI900407A07	04/07/90	1621
04	SSTD050		HJ900407A07	04/07/90	1655
05	SSTD080		NK900407A07	04/07/90	1732

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: DF900517B07 DFTPP Injection Date: 05/17/90

Instrument ID: 07 DFTPP Injection Time: 1706

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.2
68	Less than 2.0% of mass 69	0.1 (0.2)1
69	Mass 69 relative abundance	45.6
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	53.2
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	6.6
275	10.0 - 30.0% of mass 198	19.6
365	Greater than 1.00% of mass 198	1.50
441	Present, but less than mass 443	6.1
442	Greater than 40.0% of mass 198	47.0
443	17.0 - 23.0% of mass 442	8.9 (18.9)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050		HG900517B07	05/17/90	1732
02	SBLK15	SBLK15	GH039498C07	05/18/90	0224
03	73800102RE	337382	GR037382C07	05/18/90	0308
04	73800104RE	337385	GR037385C07	05/18/90	0354

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: DF900521C07 DFTPP Injection Date: 05/21/90

Instrument ID: 07 DFTPP Injection Time: 0430

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.1
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	49.9
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	19.5
365	Greater than 1.00% of mass 198	1.26
441	Present, but less than mass 443	6.1
442	Greater than 40.0% of mass 198	43.1
443	17.0 - 23.0% of mass 442	8.5 (19.8)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	SSTD050		HH900521C07	05/21/90	0529
02	SBLK93	SBLK93	GH040522C07	05/21/90	0956
03	73800109RE	337849	GR037849C07	05/21/90	1141
04	73800112	337847	GR037847C07	05/21/90	1216

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: DF900522B07 DFTPP Injection Date: 05/22/90

Instrument ID: 07 DFTPP Injection Time: 1244

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.7
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	6.2
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.00% of mass 198	2.08
441	Present, but less than mass 443	5.5
442	Greater than 40.0% of mass 198	48.4
443	17.0 - 23.0% of mass 442	8.3 (17.1)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	SSTD050		MI900522B07	05/22/90	1646
02	73800112DL	037847	G2D37847B07	05/22/90	1857

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: DF900408A22 DFTPP Injection Date: 04/08/90

Instrument ID: 22 DFTPP Injection Time: 1250

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.4
68	Less than 2.0% of mass 69	1.0 (1.8)1
69	Mass 69 relative abundance	54.8
70	Less than 2.0% of mass 69	0.7 (1.3)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	5.6
275	10.0 - 30.0% of mass 198	17.7
365	Greater than 1.00% of mass 198	1.77
441	Present, but less than mass 443	7.1
442	Greater than 40.0% of mass 198	54.7
443	17.0 - 23.0% of mass 442	9.5 (17.4)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	SSTD050		HG900408A22	04/08/90	1337
02	SSTD160		HH900408A22	04/08/90	1421
03	SSTD020		HI900408A22	04/08/90	1521
04	SSTD120		HJ900408A22	04/08/90	1550
05	SSTD080		HK900408A22	04/08/90	1619

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: DF900515C22 DFTPP Injection Date: 05/15/90

Instrument ID: 22 DFTPP Injection Time: 0618

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.5
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	5.9
275	10.0 - 30.0% of mass 198	12.8
365	Greater than 1.00% of mass 198	1.33
441	Present, but less than mass 443	6.7
442	Greater than 40.0% of mass 198	60.5
443	17.0 - 23.0% of mass 442	10.3 (17.0)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	SSTD050		HG900515A22	05/15/90	0831
02	SBLK86	SBLK86	GJ038347A22	05/15/90	1259
03	73800105	337842	GH037842A22	05/15/90	1555

5B

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

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID: DH900516C22 DFTPP Injection Date: 05/16/90

Instrument ID: 22 DFTPP Injection Time: 0122

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.0
68	Less than 2.0% of mass 69	0.9 (1.3)1
69	Mass 69 relative abundance	70.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	58.2
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	6.4
275	10.0 - 30.0% of mass 198	11.0
365	Greater than 1.00% of mass 198	1.12
441	Present, but less than mass 443	6.6
442	Greater than 40.0% of mass 198	54.1
443	17.0 - 23.0% of mass 442	9.3 (17.1)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	SSTD050		HI900516C22	05/16/90	0334
02	73800106	337843	GH037843C22	05/16/90	0459
03	73800107	337844	GH037844C22	05/16/90	0534
04	73800108	337845	GH037845C22	05/16/90	0625
05	73800111	337846	GH037846C22	05/16/90	0711
06	73800110	337848	GH037848A22	05/16/90	0855
07	73800109	337849	GH037849A22	05/16/90	1017
08	73800113	337850	GH037850A22	05/16/90	1114

(5) Internal Standard Area Summary (Form VIII SV)

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HG900510B06 Date Analyzed: 05/10/90

Instrument ID: 06 Time Analyzed: 1808

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	141000	6.95	489000	8.55	318000	10.87
	UPPER LIMIT	282000		978000		636000	
	LOWER LIMIT	70500		244500		159000	
	EPA SAMPLE NO.						
01	73800101	163000	6.93	523000	8.54	319000	10.84
02	73800102	165000	6.98	526000	8.59	357000	10.90
03	73800103	139000	6.92	435000	8.55	262000	10.84
04	73800104	159000	6.97	497000	8.57	335000	10.89
05	73800103MS	131000	6.92	426000	8.54	257000	10.82
06	73800103MSD	149000	6.90	549000	8.50	356000	10.80
07	SBLK76	165000	6.97	543000	8.59	334000	10.90

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HG900510B06 Date Analyzed: 05/10/90

Instrument ID: 06 Time Analyzed: 1808

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	489000	12.79	433000	16.35	333000	18.82
	UPPER LIMIT	978000		866000		666000	
	LOWER LIMIT	244500		216500		166500	
	EPA SAMPLE NO.						
01	73800101	510000	12.75	376000	16.27	302000	18.69
02	73800102	548000	12.82	399000	16.37	274000	18.89
03	73800103	424000	12.75	259000	16.27	207000	18.69
04	73800104	507000	12.80	337000	16.35	276000	18.82
05	73800103MS	382000	12.75	255000	16.30	204000	18.75
06	73800103MSD	571000	12.75	413000	16.32	330000	18.75
07	SBLK76	487000	12.82	341000	16.35	274000	18.79

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HH900518C06 Date Analyzed: 05/18/90

Instrument ID: 06 Time Analyzed: 0248

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	133000	7.03	496000	8.70	241000	11.14
	UPPER LIMIT	266000		992000		482000	
	LOWER LIMIT	66500		248000		120500	
	EPA SAMPLE NO.						
01	73800106RE	168000	7.00	544000	8.69	271000	11.10
02	73800107RE	167000	6.97	528000	8.69	241000	11.10
03	73800113RE	196000	7.00	604000	8.69	306000	11.10
04	SBLK31	164000	7.00	532000	8.69	240000	11.10

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

Column used to flag internal standard area valuee with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HH900518C06 Date Analyzed: 05/18/90

Instrument ID: 06 Time Analyzed: 0248

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	358000	13.20	273000	16.92	215000	19.40
	UPPER LIMIT	716000		546000		430000	
	LOWER LIMIT	179000		136500		107500	
	EPA SAMPLE NO.						
01	73800106RE	373000	13.17	262000	16.85	194000	19.35
02	73800107RE	331000	13.20	159000	16.90	116000	19.42
03	73800113RE	371000	13.15	224000	16.84	163000	19.35
04	SBLK31	296000	13.17	154000	16.85	115000	19.37

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chryeene-d12
IS6 (PRY) = Perylene-d12

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

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HG900517B07 Date Analyzed: 05/17/90

Instrument ID: 07 Time Analyzed: 1732

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	223000	7.27	675000	9.05	354000	11.64
	UPPER LIMIT	446000		1350000		708000	
	LOWER LIMIT	111500		337500		177000	
	EPA SAMPLE NO.						
01	73800102RE	363000	7.25	1050000	9.04	561000	11.62
02	73800104RE	283000	7.28	872000	9.07	448000	11.65
03	SBLK15	166000	7.23	489000	9.02	259000	11.60

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HG900517B07 Date Analyzed: 05/17/90

Instrument ID: 07 Time Analyzed: 1732

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	494000	13.82	352000	17.89	329000	21.59
	UPPER LIMIT	988000		704000		658000	
	LOWER LIMIT	247000		176000		164500	
	EPA SAMPLE NO.						
01	73800102RE	781000	13.80	511000	17.85	420000	21.52
02	73800104RE	644000	13.82	472000	17.89	373000	21.57
03	SBLK15	347000	13.80	240000	17.85	260000	21.52

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): MH900521C07 Date Analyzed: 05/21/90

Instrument ID: 07 Time Analyzed: 0529

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
12 HOUR STD	97300	7.20	329000	8.95	197000	11.50
UPPER LIMIT	194600		658000		394000	
LOWER LIMIT	48650		164500		98500	
EPA SAMPLE NO.						
01 73800109RE	133000	7.20	431000	8.97	239000	11.52
02 73800112	121000	7.22	366000	8.97	218000	11.52
03 SBLK93	139000	7.18	440000	8.92	267000	11.49

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HH900521C07 Date Analyzed: 05/21/90

Instrument ID: 07 Time Analyzed: 0529

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	289000	13.67	245000	17.77	202000	21.35
	UPPER LIMIT	578000		490000		404000	
	LOWER LIMIT	144500		122500		101000	
	EPA SAMPLE NO.						
01	7J800109RE	350000	13.69	270000	17.79	214000	21.44
02	7J800112	327000	13.69	250000	17.79	207000	21.42
03	SBLK93	379000	13.67	254000	17.80	194000	21.45

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REV5

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HI900522B07 Date Analyzed: 05/22/90

Instrument ID: 07 Time Analyzed: 1646

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	204000	7.23	664000	9.02	370000	11.60
	UPPER LIMIT	408000		1328000		740000	
	LOWER LIMIT	102000		332000		185000	
	EPA SAMPLE NO.						
01	73800112DL	242000	7.23	690000	9.02	384000	11.62

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Lab File ID (Standard): HI900522B07 Date Analyzed: 05/22/90

Instrument ID: 07 Time Analyzed: 1646

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	521000	13.80	43900D	17.85	422000	21.49
	UPPER LIMIT	1042000		878000		844000	
	LOWER LIMIT	260500		219500		211000	
	EPA SAMPLE NO.						
01	73800112DL	539000	13.80	324000	17.87	312000	21.49

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HG900515A22 Date Analyzed: 05/15/90

Instrument ID: 22 Time Analyzed: 0831

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	143000	6.98	544000	8.60	287000	10.94
	UPPER LIMIT	286000		1088000		574000	
	LOWER LIMIT	71500		272000		143500	
	EPA SAMPLE NO.						
01	73800105	169000	6.95	563000	8.55	296000	10.87
02	SBLK86	142000	6.95	469000	8.55	239000	10.89

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

Column used to flag internal standard area valuee with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Lab File ID (Standard): HG900515A22 Date Analyzed: 05/15/90

Instrument ID: 22 Time Analyzed: 0831

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	383000	12.90	262000	16.59	206000	19.90
	UPPER LIMIT	766000		524000		412000	
	LOWER LIMIT	191500		131000		103000	
	EPA SAMPLE ND.						
01	71800105	388000	12.82	229000	16.50	180000	19.69
02	SBLK86	313000	12.85	160000	16.52	109000	19.75

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REV8

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HI900516C22 Date Analyzed: 05/16/90

Instrument ID: 22 Time Analyzed: 0334

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	125000	6.85	503000	8.44	241000	10.74
	UPPER LIMIT	250000		1006000		482000	
	LOWER LIMIT	62500		251500		120500	
	EPA SAMPLE NO.						
01	73800106	146000	6.83	511000	8.44	249000	10.75
02	73800107	132000	6.82	468000	8.42	222000	10.74
03	73800108	155000	6.82	503000	8.42	236000	10.72
04	73800109	165000	6.82	569000	8.42	271000	10.72
05	73800110	161000	6.82	552000	8.42	270000	10.74
06	73800111	159000	6.82	561000	8.42	278000	10.72
07	73800113	166000	6.80	528000	8.42	231000	10.72

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Lab File ID (Standard): HI900516C22 Date Analyzed: 05/16/90

Instrument ID: 22 Time Analyzed: 0334

	IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
12 HOUR STD	298000	12.69	156000	16.30	115000	19.35
UPPER LIMIT	596000		312000		230000	
LOWER LIMIT	149000		78000		57500	
	EPA SAMPLE NO.					
01	73800106	322000	12.70	160000	16.35	99600	19.47
02	73800107	278000	12.67	119000	16.30	83900	19.39
03	73800108	302000	12.67	151000	16.29	111000	19.35
04	73800109	333000	12.67	132000	16.29	89800	19.35
05	73800110	304000	12.67	165000	16.32	114000	19.39
06	73800111	326000	12.65	177000	16.29	141000	19.35
07	73800113	254000	12.67	135000	16.30	94500	19.35

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

Column used to flag internal standard area values with an asterisk

B. SAMPLE DATA

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I SV, including Form I SV-TIC), followed by the raw data for semivolatile samples. These sample packets should then be placed in increasing EPA number order, considering both letters and numbers in ordering samples.

- TCL Results - Organic Analysis Data Sheet (Form I SV-1, SV-2)

  Tabulated results (identification and quantitation) of the specified target compounds (Exhibit C). The validation and release of these results is authorized by a specific, signed statement in the Case Narrative (reference C.1). In the event that the Laboratory Manager cannot validate all data reported for each sample, the Laboratory Manager shall provide a detailed description of the problems associated with the sample in the Case Narrative.

  On Form I, the appropriate concentration units shall be entered. For example, ug/L for water samples or ug/kg for soil/sediment samples. No other units are acceptable. NOTE: Report analytical results to one significant figure if the value is less than 10; to two significant figures if the value is above 10.

- Tentatively Identified Compounds (Form I SV-TIC)

  This form must be included even if no compounds are found. If so, indicate this on the form by entering "0" in the field for "Number Found".

  Form I SV-TIC is the tabulated list of the highest probable match for up to 20 of the [illegible] organic compounds not listed in Exhibit C (VOA, BNA), including the CAS (Chemical Abstracts Registry) number, [illegible] identification and estimated concentration. For [illegible] concentration, assume a response factor of 1, and estimate [illegible] centration (i.e., use peak height for all compounds [illegible] use total area for all comparisons).

- Reconstructed total ion chromatograms (RIC) for each sample, sample extract, standard, blank and spiked sample.

  RIcs must be normalized to the largest nonsolvent component, and must contain the following header information:

  - EPA Sample Number
  - Date and time of analysis
  - GC/MS Instrument ID

  Internal standard and surrogate spiking compounds are to be labeled with the names of compounds, either directly out from the peak, or on a print-out of retention times if retention times are printed over the peak. If automated data system procedures are used for preliminary identification and/or quantification of the Target Compound List (TCL) compounds, the complete data system report must include in all sample data packages, in addition to the reconstructed ion chromatogram. The complete data system report shall include all of the information listed below. For laboratories which do not use the automated data system procedures, a laboratory "raw data sheet", containing the following information, must be included in the sample data package in addition to the chromatograms.

  - EPA Sample Number
  - Date and time of analysis
  - RT or scan number of identified TCL compounds
  - Ion [redacted] which measured area
  - Co[redacted] from data system
  - GC/MS Instrument ID

For each sample, by each compound identified.

(a) Copies of raw spectra and copies of background-subtracted mass spectra of target compounds listed in Exhibit C (TCL) that are identified in the sample and corresponding background-subtracted TCL standard mass spectra. Compound names must be clearly marked on all spectra.

(b) Copies of mass spectra of nonsurrogate organic compounds not listed in Exhibit C (TIC) (Tentatively Identified Compounds) which associated best-match spectra (three best matches).

(c) GPC chromatograms (if GPC performed)

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800101

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337381

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037381C06

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3	1,3,5-Trichlorobenzene	10	U
98-87-3	Benzal chloride	10	U
65-85-0	Benzoic Acid	100	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-65-0	2,6-Dichlorophenol	20	U
95-54-5	o-Phenylenediamine	10	U
122-09-8	dimethylphenylethylamine	10	U
1888-71-7	Hexachloropropene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
98-07-7	Benzotrichloride	20	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
106-50-3	P-Phenylenediamine	10	U
94-59-7	Safrole	10	U
106-50-3	m-Phenylenediamine	10	U
91-57-6	2-Methylnaphthalene	10	U
90-12-0	1-Methylnaphthalene	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
634-90-2	1,2,3,5-Tetrachlorobenzene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	20	U
120-58-1	Isosafrole	20	U
91-58-7	2-Chloronaphthalene	10	U
90-13-1	1-Chloronaphthalene	10	U
634-66-2	1,2,3,4-Tetrachlorobenzene	10	U
88-74-4	2-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	20	U
100-25-4	1,4-Dinitrobenzene	20	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800101

Lab Name: COMPUCHEM LABS Contract: 12-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337381

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037381C06

Level: (low/med) LOW Date Received: 05/08/90

% Moieture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0---------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0---------Pyrene	10	U
140-57-8---------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6---------Chlorobenzilate	10	U
119-93-7---------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4---------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4---------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9---------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0---------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 73800101

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337381

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037381C06

Level: (low/med) LOW Date Received: 05/08/90

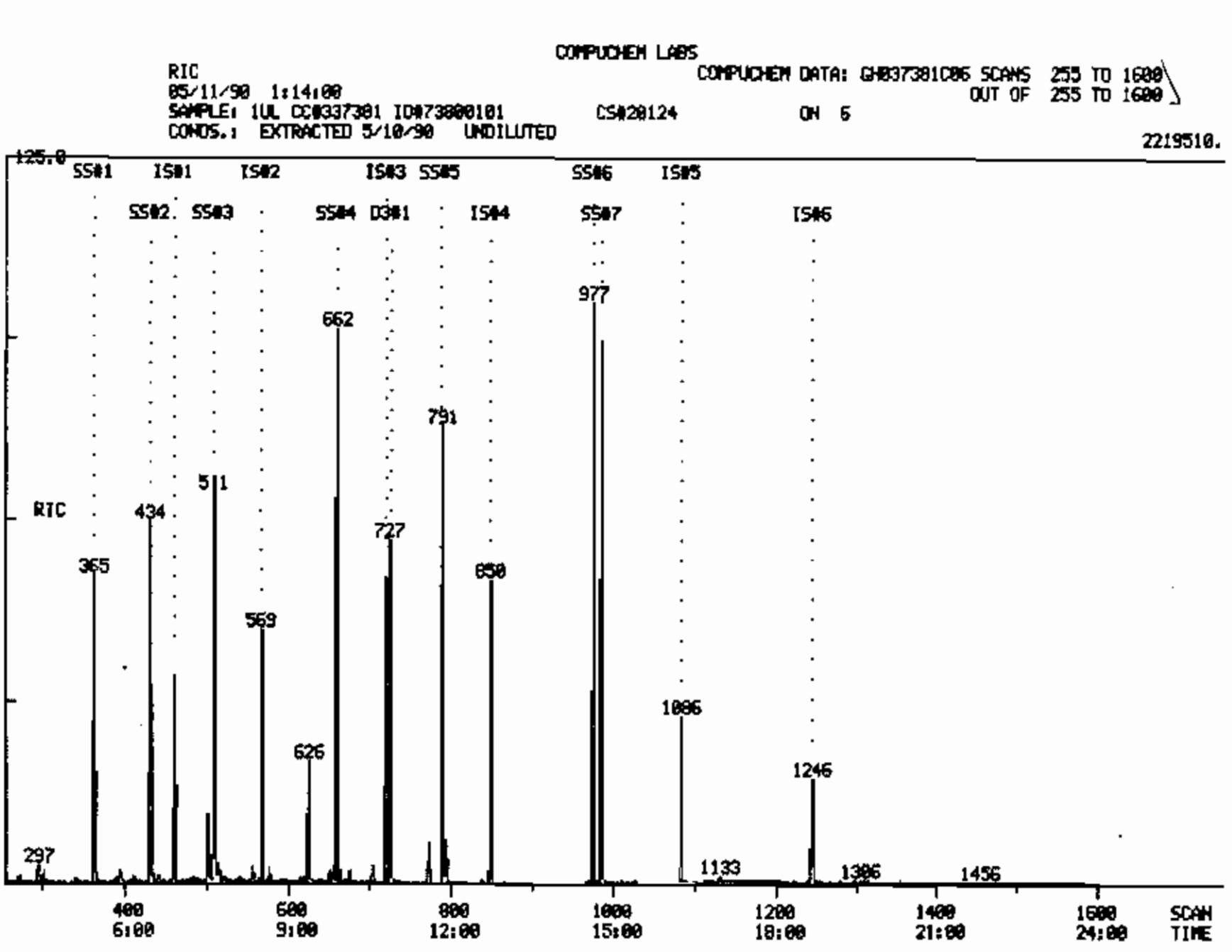
% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.53	34	J
2.		UNKNOWN	9.39	32	J
3.		UNKNOWN	11.60	12	J



1226

NYDEC RA090 0507 ORGANIC

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QUANTITATION REPORT     FILE: QH037381C06
DATA: QH037381C06.TI
05/11/90  1:14:00
SAMPLE: 1UL CC#337381 ID#73800101          CS#20124              ON  6
CONDS.:  EXTRACTED 5/10/90   UNDILUTED
SUBMITTED BY:       6        ANALYST:       917

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO  NAME
  1  *494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  481 PYRIDINE (Z9#1)
  4  509 ETHYLMATHACRYLATE (Z9#2)
  5  542 PARALDEHYDE (Z9#3)
  6  510 2-PICOLINE (Z9#56)
  7  535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
  8  543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
  9  499 N-NITROSODIETHYLAMINE (Z9#6)
 10  514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
 11  610 PHENOL (G1#3) <108-95-2>
 12  473 ANILINE (G1#4) <62-53-3>
 13  505 PENTACHLOROETHANE (Z9#8)
 14  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
 15  601 2-CHLOROPHENOL (G1#6) <95-57-8>
 16  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
 17  506 BENZYL CHLORIDE (Z9#9)
 18  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
 19  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 20  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 21  620 2-METHYLPHENOL (G1#11) <95-48-7>
 22  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 23  621 3-METHYLPHENOL (F1#2) <108-39-4>
 24  622 4-METHYLPHENOL (G1#13) <106-44-5>
 25  528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
 26  544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
 27  500 ACETOPHENONE (Z9#11)
 28  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 29  512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
 30  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 31  *460 D8-NAPHTHALENE (IS#2)
 32  440 NITROBENZENE (G1#16) <98-95-3>
 33  502 N-NITROSODIPIPERIDINE (Z9#14)
 34  438 ISOPHORONE (G2#2) <78-59-1>
 35  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 36  606 2-NITROPHENOL (G2#3) <88-75-5>
 37  451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
 38  518 BENZAL CHLORIDE (Z9#16) <98-87-3>
 39  625 BENZOIC ACID (G2#5) <65-85-0>
 40  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 41  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 42  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 43  439 NAPHTHALENE (G2#9) <91-20-3>
 44  475 4-CHLOROANILINE (G2#10) <106-47-8>
 45  631 2,6-DICHLOROPHENOL (Z9#18)
 46  524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>
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NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9017) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9021) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2011) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9015) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9023) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9024) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2012) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9020) <106-45-2>
55	503 SAFROLE (Z9027)
56	525 M-PHENYLENEDIAMINE (Z9026) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2013) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2028) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS03)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9031) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9029) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G302) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G303) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G304) <95-95-4>
65	527 ISOSAFROLE (Z9030) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G305) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F402)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9028) <634-66-2>
69	478 2-NITROANILINE (G306) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9032)
71	491 1,4-DINITROBENZENE (F302) <100-25-4>
72	425 DIMETHYL PHTHALATE (G307) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3015) <606-20-2>
74	402 ACENAPHTHYLENE (G308) <208-96-8>
75	479 3-NITROANILINE (G309) <99-09-2>
76	401 ACENAPHTHENE (G3010) <83-32-9>
77	@605 2,4-DINITROPHENOL (G3011) <51-28-4>
78	607 4-NITROPHENOL (G3012) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3014) <121-14-2>
80	476 DIBENZOFURAN (G3013) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9033)
82	484 2-NAPHTHYLAMINE (Z9035)
83	483 1-NAPHTHYLAMINE (Z9036)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9037)
85	424 DIETHYL PHTHALATE (G3016) <84-66-2>
86	519 ZINOPHOS (Z9038)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3017) <7005-72-3>
88	432 FLUORENE (G3018) <86-73-7>
89	480 4-NITROANILINE (G3019) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9034)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9039)
92	*467 D10-PHENANTHRENE (IS04)
93	*459 D12-CHRYSENE (IS05)
94	*497 D12-PERYLENE
95	@619 2-FLUOROPHENOL (SS01)
96	@612 D5-PHENOL (SS02)
97	@447 D5-NITROBENZENE (SS03)
98	@448 2-FLUOROBIPHENYL (SS04)
99	@626 2,4,6-TRIBROMOPHENOL (SS05)
100	@471 D10-PYRENE
101	@496 D14-TERPHENYL (SS06)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	463	6:57	1	1.000	A BB	163456.	40.000	NQ	3.87
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	303	4:33	1	0.654	A BB	7612.	1.612	NQ	0.16 NO
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	569	8:32	31	1.000	A BB	522804.	40.000	NQ	3.87
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	569	8:32	31	1.000	A BB	78460.	48.424	NQ	4.69 NO
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	723	10:51	59	1.000	A BB	319312.	40.000	NG	3.87
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	136	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	728	10:55	59	1.007	A BB	12016.	5.504	NG	0.53 NO
79	165	NOT FOUND								
80	168	NOT FOUND								
81	230	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	850	12:45	92	1.000	A BB	509840.	40.000	NG	3.87
93	240	1085	16:17	93	1.000	A BB	376456.	40.000	NG	3.87
94	264	1246	18:42	94	1.000	A BB	301640.	40.000	NG	3.87
95	112	365	5:29	1	0.788	A BB	496020.	99.747	NG	9.65
96	99	434	6:31	1	0.937	A BB	499668.	83.659	NG	8.10
97	82	511	7:40	31	0.898	A BB	541460.	80.014	NG	7.74
98	172	662	9:56	59	0.916	A BB	795192.	77.536	NG	7.50
99	330	791	11:52	59	1.094	A BB	320528.	184.535	NG	17.86
100	212	977	14:39	93	0.900	A BV	1148560.	108.084	NG	10.46
101	244	987	14:48	93	0.910	A BV	1003500.	104.115	NG	10.08

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:58		10.000			50.00		0.953	
3	3:56		10.000			50.00		0.993	
4	4:26	1.02	10.000	0.07	1.61	50.00	0.037	1.155	0.03
5	4:26		10.000			50.00		0.238	
6	4:48		20.000			50.00		1.241	
7	5:00		10.000			50.00		1.181	
8	5:22		10.000			50.00		0.985	
9	5:47		10.000			50.00		0.663	

NYDEC RA090 0507 ORGANIC

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:08		10.000			50.00		0.741	
11	6:32		10.000			50.00		1.612	
12	6:37		10.000			50.00		1.827	
13	6:37		10.000			50.00		0.597	
14	6:41		20.000			50.00		1.741	
15	6:44		10.000			50.00		1.465	
16	6:55		10.000			50.00		1.590	
17	6:59		10.000			50.00		2.679	
18	6:59		10.000			50.00		1.589	
19	7:08		10.000			50.00		0.937	
20	7:13		10.000			50.00		1.601	
21	7:16		10.000			50.00		1.262	
22	7:19		10.000			50.00		3.208	
23	7:26		10.000			100.00		1.105	
24	7:26		10.000			100.00		1.105	
25	7:31		10.000			50.00		0.723	
26	7:32		10.000			50.00		0.402	
27	7:29		10.000			50.00		2.046	
28	7:30		10.000			50.00		1.274	
29	7:33		10.000			50.00		1.637	
30	7:35		10.000			50.00		0.987	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:43		10.000			50.00		0.566	
33	7:54		10.000			50.00		0.209	
34	7:59		10.000			50.00		1.033	
35	8:06		10.000			50.00		0.348	
36	8:07		10.000			50.00		0.209	
37	8:06		10.000			50.00		0.374	
38	8:09		10.000			50.00		0.754	
39	8:11		100.000			50.00		0.164	
40	8:14		10.000			50.00		0.569	
41	8:23		10.000			50.00		0.359	
42	8:30		10.000			50.00		0.440	
43	8:36		10.000			50.00		1.139	
44	8:41		10.000			50.00		0.439	
45	8:41		20.000			50.00		0.368	
46	8:35	0.99	10.000	0.10	48.42	50.00	0.120	0.124	0.97
47	8:30		10.000			50.00		0.020	
48	8:44		10.000			50.00		0.320	
49	8:47		10.000			50.00		0.291	
50	8:49		10.000			50.00		0.416	
51	8:54		20.000			50.00		0.564	
52	9:05		10.000			50.00		0.226	
53	9:15		10.000			50.00		0.443	
54	9:15		10.000			50.00		0.038	
55	9:21		10.000			50.00		0.312	
56	9:21		10.000			50.00		0.002	
57	9:29		10.000			50.00		0.937	
58	9:38		10.000			50.00		0.558	
59	10:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:44		10.000			100.00		0.616	
61	9:44		10.000			100.00		0.616	
62	9:45		10.000			50.00		0.363	
63	9:52		20.000			50.00		0.432	
64	9:55		20.000			50.00		0.437	
65	10:01		20.000			50.00		0.490	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:08		10.000			50.00		1.231	
67	10:10		10.000			50.00		1.019	
68	10:08		10.000			50.00		0.618	
69	10:18		10.000			50.00		0.578	
70	10:22		20.000			50.00		0.460	
71	10:27		20.000			50.00		0.275	
72	10:32		10.000			50.00		1.469	
73	10:39		10.000			50.00		0.355	
74	10:41		10.000			50.00		1.792	
75	10:50		20.000			50.00		0.335	
76	10:55		10.000			50.00		1.149	
77	10:58		40.000			50.00		0.171	
78	11:00	0.99	10.000	0.10	5.50	50.00	0.030	0.273	0.11
79	11:10		10.000			50.00		0.473	
80	11:07		10.000			50.00		1.658	
81	11:08		10.000			50.00		0.632	
82	11:14		20.000			50.00		0.624	
83	11:20		20.000			50.00		0.579	
84	11:19		20.000			50.00		0.334	
85	11:25		10.000			50.00		1.674	
86	11:33		10.000			50.00		0.458	
87	11:31		10.000			50.00		0.621	
88	11:34		10.000			50.00		1.353	
89	11:38		20.000			50.00		0.331	
90	11:38		20.000			50.00		0.409	
91	11:45		10.000			50.00		2.557	
92	12:48	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:22	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	18:50	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:29	1.00	0.742	1.06	99.75	50.00	2.428	1.217	1.99
96	6:32	1.00	0.948	0.99	83.66	50.00	2.446	1.462	1.67
97	7:42	1.00	0.875	1.03	80.01	50.00	0.829	0.518	1.60
98	9:58	1.00	0.906	1.01	77.54	50.00	1.992	1.285	1.55
99	11:54	1.00	1.118	0.98	184.53	50.00	0.803	0.218	3.69
100	14:42	1.00	10.000	0.09	108.08	50.00	2.441	1.129	2.16
101	14:52	1.00	0.907	1.00	104.11	50.00	2.133	1.024	2.08

```
QUANTITATION REPORT     FILE: GH037381C06
DATA: GH037381C06.TI
05/11/90  1:14:00
SAMPLE: 1UL CC#337381 ID#73800101          CB#20124              ON  6
CONDS.:  EXTRACTED 5/10/90   UNDILUTED
SUBMITTED BY:       6       ANALYST:       917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO   NAME
  1   *467 D10-PHENANTHRENE (IS#4)
  2   604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
  3   443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
  4   567 DIPHENYLAMINE (F3#3)
  5   509 1,3,5-TRINITROBENZENE (Z9#41)
  6   539 PHENACETIN (Z9#42) <63-44-2>
  7   414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
  8   577 DIALLATE (TRANS ISOMER)
  9   541 DIMETHOATE (Z9#44)
 10   433 HEXACHLOROBENZENE (G4#5) <118-74-1>
 11   485 4-AMINOBIPHENYL (Z9#45)
 12   522 PRONAMIDE (Z9#46)
 13   609 PENTACHLOROPHENOL (G4#6) <87-86-5>
 14   453 PENTACHLORONITROBENZENE (Z9#47)
 15   444 PHENANTHRENE (G4#7) <85-01-8>
 16   403 ANTHRACENE (G4#8) <120-12-7>
 17   426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
 18   516 METHAPYRILENE (Z9#48)
 19   549 CYCLOPHOSPHAMIDE (Z9#49)
 20   431 FLUORANTHENE (G4#10) <206-44-0>
 21   *459 D12-CHRYSENE (IS#5)
 22   404 BENZIDINE (G5#2) <92-87-5>
 23   445 PYRENE (G5#3) <129-00-0>
 24   530 ARAMITE (Z9#50) <140-57-4>
 25   487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26   523 CHLOROBENZILATE (Z9#52)
 27   545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28   415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
 29   488 2-ACETYLAMINO FLUORENE (F5#2)
 30   489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31   423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
 32   533 DIMETHOXYBENZIDINE (Z9#57)
 33   413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
 34   405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
 35   418 CHRYSENE (G5#8) <218-01-9>
 36   *497 D12-PERYLENE
 37   429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
 38   407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
 39   517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40   409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
 41   406 BENZO(A)PYRENE (G6#5) <50-32-8>
 42   565 3-METHYLCHLORANTHRENE (F6#2)
 43   566 DIBENZO(A,J)ACRIDINE
 44   437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
 45   419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
 46   408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
```

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
1	188	850	12:45	1	1.000	A BB	509840.	40.000	NO	32.98
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1085	16:17	21	1.000	A BB	376456.	40.000	NO	32.98
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	987	14:48	21	0.910	A BB	2216.	1.285	NO	1.06 ✓0
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1246	18:42	36	1.000	A BB	301640.	40.000	NO	32.98
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:48	1.00	10.000	0.10	40.00	40.00	1.000	1.000 ✓	1.00
2	11:40		30.000			50.00		0.160 ✓	
3	11:42		10.000			100.00		0.649	
4	11:42		10.000			100.00		0.649	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.113	
6	12:06		10.000			50.00		0.514	
7	12:09		10.000			50.00		0.252	
8	12:05		10.000			25.00		0.161	
9	12:23		10.000			50.00		0.165	
10	12:23		10.000			50.00		0.353	
11	12:32		10.000			50.00		0.608	
12	12:34		10.000			50.00		0.456	
13	12:36		20.000			50.00		0.203	
14	12:42		10.000			50.00		0.133	
15	12:50		10.000			50.00		1.182	
16	12:53		10.000			50.00		1.149	
17	13:30		10.000			50.00		1.761	
18	13:56		20.000			50.00		0.369	
19	14:15		50.000			200.00		0.025	
20	14:25		10.000			50.00		1.160	
21	16:22	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:33		10.000			50.00		0.076	
23	14:44		10.000			50.00		1.332	
24	14:54	0.99	20.000	0.05	1.28	90.00	0.005	0.183	0.03
25	15:05		10.000			50.00		0.243	
26	15:06		10.000			50.00		0.792	
27	15:32		20.000			90.00		0.446	
28	15:31		10.000			90.00		0.903	
29	15:54		10.000			50.00		0.460	
30	16:15		10.000			50.00		0.201	
31	16:17		10.000			50.00		0.305	
32	16:13		10.000			50.00		0.170	
33	16:15		10.000			50.00		1.252	
34	16:20		10.000			50.00		1.151	
35	16:24		10.000			50.00		1.044	
36	18:50	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:07		10.000			50.00		2.730	
38	18:03		10.000			100.00		0.967	
39	18:04		10.000			50.00		0.589	
40	18:03		10.000			100.00		0.967	
41	18:42		10.000			50.00		1.091	
42	19:30		10.000			50.00		0.656	
43	21:00		10.000			50.00		0.961	
44	21:38		10.000			50.00		1.384	
45	21:38		10.000			50.00		1.189	
46	22:29		10.000			50.00		1.086	
47	12:12		10.000			25.00		0.221	

COMPUCHEM LABS, INC.

05/11/90 1:14:00 + 7:33
SAMPLE: JUL CC#337301 ID#73800101 CS#20124
COMDS.: EXTRACTED 5/10/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GH037301C06 @ 503 BASE M/Z: 57
ENHANCED (10B 2H 0T) RIC: 198143.
ON 6

1077

SAMPLE

C7.H14.02 OXIRANE, (BUTOXYMETHYL)-* CAS# 2426-08-6

1077

M WT 130
B PK 57
RANK 1
4349
PUR 716

C6.H10.03 OXIRANE, 2,2'-[OXYBIS(METHYLENE)]BIS- * CAS# 2238-07-5

1077

M WT 130
B PK 57
RANK 2
4298
PUR 636

C6.H12.02 PENTANOIC ACID, 3-METHYL- * CAS# 105-43-1

1077

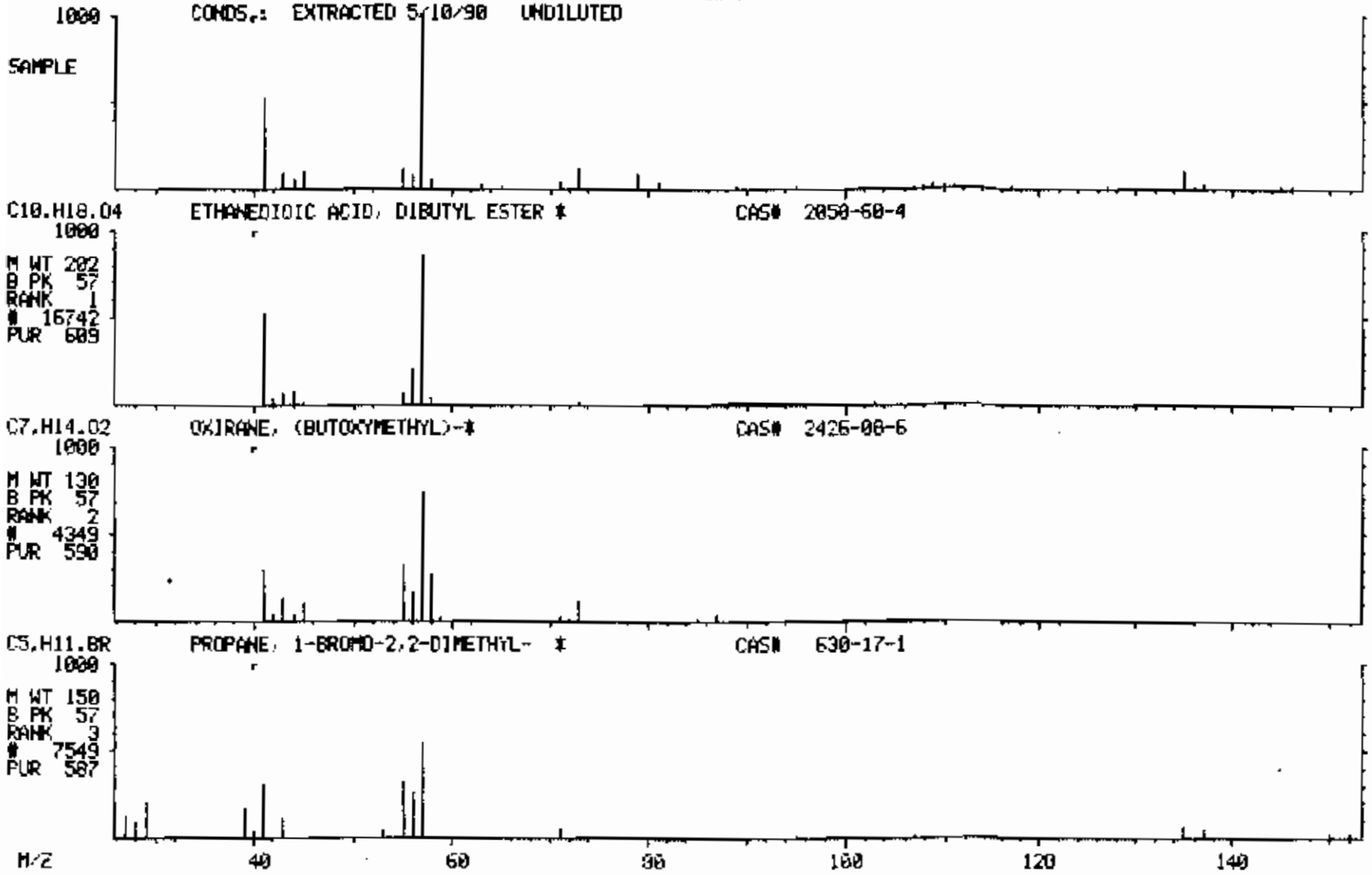
M WT 116
B PK 60
RANK 3
2668
PUR 696

M/Z 30 40 50 60 70 80 9

COMPUCHEM LABS, INC.

05/11/90 1:14:00 + 9:23
SAMPLE: 1UL CO#337381 ID#73000101 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED

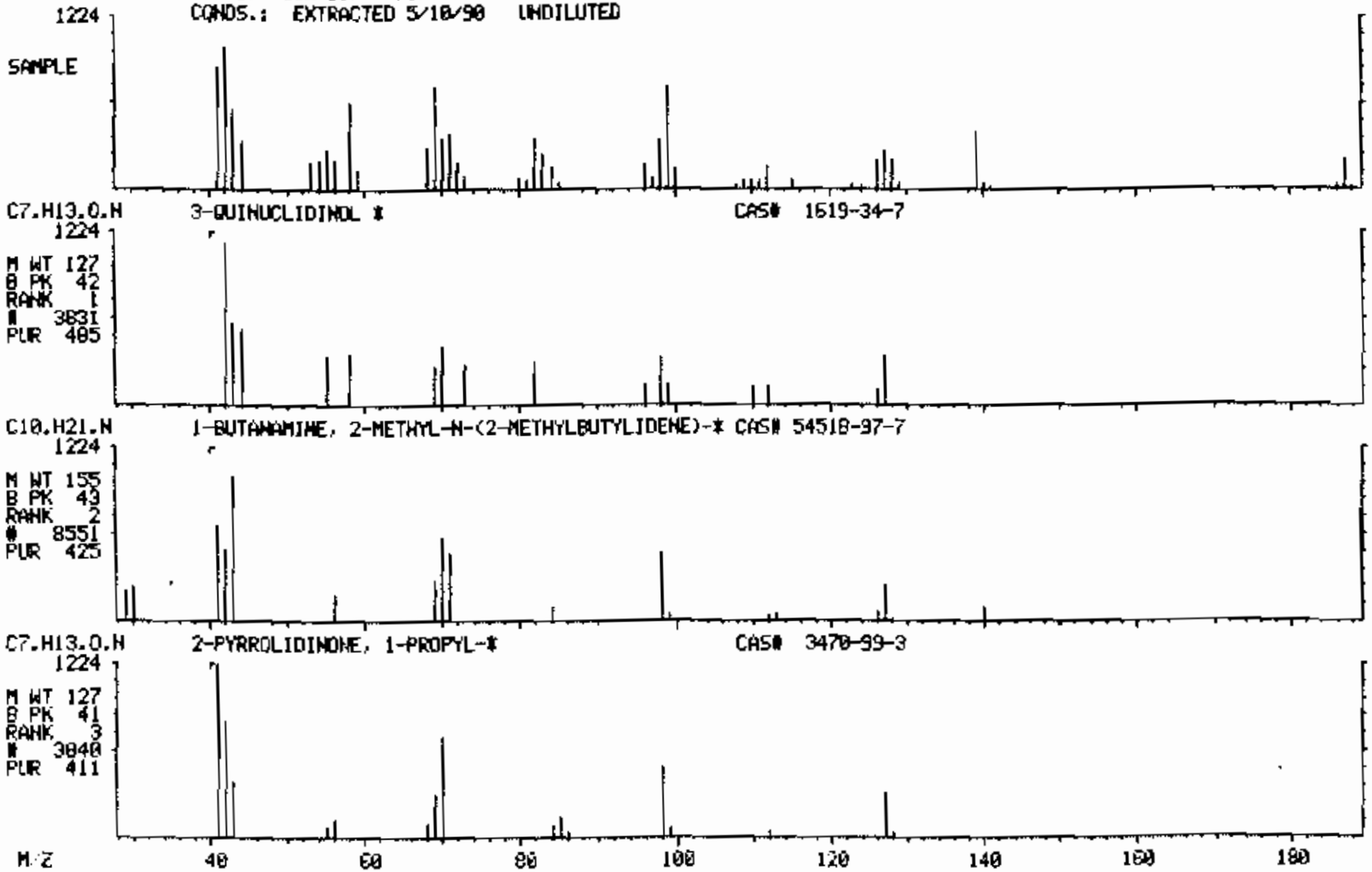
MID LIBRARY SEARCH
DATA: GH037381C06 # 626 BASE M/Z: 57
ENHANCED (100 2N 0T) RIC: 332287.
ON 6



COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH0373B1C06 # 774 BASE M/Z: 42
ENHANCED (10B 2N 0T) RIC: 110339.
ON 6

05/11/90 1:14:00 + 11:37
SAMPLE: 1UL CC#337381 ID#73800101 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED



INSTRUCTIONS: PPS#: _____

CASE#RA090 SDG# 0507

MAST5-6

RECEIPT DATE: 05/08/90 CASE#: 20124

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 337381

J[ ] J3[ ] D[ ] (:1)

2J[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER; 3rd Rd 0270

RECEIVED MAY 15 1990

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800101

GC/MS ANALYSIS

Volumes mixed: BN 2cc ul Acid _____ ul

Internal Standard Volume Added 5 ul

Mixed Sample Volume Injected 1.0 ul

Date Sample Bottle Analyzed 5/10/90

DFTPP Filename DF900510B06 Disk ( )

Standard Filename HG900510B06 Disk ( )

Sample Filename GH037381C06 Disk ( )

[redacted]

ANALYST(S): Injection GG Work-up

GC/MS REVIEW

CONDITION CODE: OK

Extraneous Peak Search Results: Cleared 5/10/90

# of Peaks Found: 3

# of Hits: 0

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 1

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

COMMENTS:

*GC/MS Review L. Hall Date 5/14/90 Auditor [illegible] Date 5/14/90

REPORT INTEGRATION Total # of Injections: _____

Final Reportable Package(s): GH037381C06 / _____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: A.D. Annetta Downing

DATE ASSIGNED 5/10/90

EMP ID NUMBER 1733

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL./ml SV B/N	FINAL EXTRACT VOL./ml ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337336	-079	20124		SS	337383	2B3	500ml	1.0ml		13	1	50% 4/27 Use 500ml sample volume for SS only
2	337337				SS	337383	2B3	500ml	1.0ml		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337338				*BS			1,000ml	1.0ml		13	1	Conc. to 0.5ml final volume
4	337381			738 00101			1B3	1,000ml	1.0ml		13	1	* add 1.0 ml validation spike to BS only
5	337382			73800 102			2B3	1,000ml	1.0ml		13	1	use 337381, 82, 84, 85 for QC
6	337383			73800 103			1B3	1,000 ml	1.0ml		13	1	
7	337385		↓	73800 104			2B3	1,000ml	1.0ml		13	1	
8	337311		20071	GKIS			1B3	1,000ml	1.0ml		13	1	
9	337312		↓	EPED			2B3	1,000ml	1.0ml		13	1	
10	335591R		20015	RCB-D 30MIN			#2	1,000ml	1.0ml		13	1	
11													
12													
13	337915			SBLK 76	B1			1,000ml	1.0ml		13	1	

		B-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0ml				
	LOT	3922				
						valid
SPIKE	NO.		3012	2021		spike
	AMT.		1.0ml	1.0ml		#2028 1.0
	LOT		31880	31881		31338

MANUAL COUNTER 510/886

FINAL VOLUME VERIFIED Annetta L. Downing

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY C. [illegible] 5/10

SURROGATE & SPIKE ADDED CORRECTLY DP INT 5/10/90 DATE

ISSUED BY: 1733

1212

NYDEC RA090 0507 ORGANIC

CMP #	M/E	F	COMPOUND NAME	RCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	463	163000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	1
481	79		PYRIDINE (Z9#1)				BDL	1
509	69		ETHYLMATHACRYLATE (Z9#2)			1.6	2d BDL	1
542	89		PARALDEHYDE (Z9#3)				BDL	1
510	93		2-PICOLINE (Z9#56)				BDL	2
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1
543	80		METHYL METHANE SULFONATE (Z				BDL	1
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	1
514	109		ETHYL METHANESULFONATE (Z9#				BDL	1
610	94		PHENOL (G1#3)				BDL	1
473	93		ANILINE (G1#4)				BDL	1
505	167		PENTACHLOROETHANE (Z9#8)				BDL	1
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	2
601	128		2-CHLOROPHENOL (G1#6)				BDL	1
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	1
506	91		BENZYL CHLORIDE (Z9#9)				BDL	1
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	1
474	108		BENZYL ALCOHOL (G1#9)				BDL	1
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	1
620	108		2-METHYLPHENOL (G1#11)				BDL	1
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	1
621	108		3-METHYLPHENOL (F1#2)				BDL	1
622	108		4-METHYLPHENOL (G1#13)				BDL	1
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	1
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	1
500	105		ACETOPHENONE (Z9#11)				BDL	1
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	1
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	1
436	117		HEXACHLOROETHANE (G1#15)				BDL	1
460	136	I	D8-NAPHTHALENE (IS#2)	569	523000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	1
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	1
438	82		ISOPHORONE (G2#2)				BDL	1
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	1
606	139		2-NITROPHENOL (G2#3)				BDL	1
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	1
518	125		BENZAL CHLORIDE (Z9#16)				BDL	1
625	122		BENZOIC ACID (G2#5)				BDL	10
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	1
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	1
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	1
439	128		NAPHTHALENE (G2#9)				BDL	1

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-14-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLORDANILINE (Q2#10)				BDL	1(
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	2(
524	108		O-PHENYLENEDIAMINE (Z9#19)			58.4	40 BDL	1(
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	1(
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	1(
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	1(
450	180		1,2,3-TRICHLOROBENZIENE (Z9#				BDL	1(
534	139		BENZOTRICHLORIDE (Z9#23)				BDL	2(
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	1(
608	107		P-CHLORO-M-CRESOL (Q2#12)				BDL	1(
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	1(
503	162		SAFROLE (Z9#27)				BDL	1(
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	1(
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	1(
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	1(
495	164	I	D10-ACENAPHTHENE (IS#3)	723	319000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	1(
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	1(
435	236		HEXACHLOROCYCLOPENTADIENE (				BDL	1(
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	2(
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	2(
527	162		ISOSAFROLE (Z9#30)				BDL	2(
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	1(
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	1(
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	1(
478	65		2-NITROANILINE (Q3#6)				BDL	1(
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	2(
491	168		1,4-DINITROBENZENE (F3#2)				BDL	2(
425	163		DIMETHYL PHTHALATE (Q3#7)				BDL	1(
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	1(
402	152		ACENAPHTHYLENE (Q3#8)				BDL	1(
479	138		3-NITROANILINE (Q3#9)				BDL	2(
401	153		ACENAPHTHENE (Q3#10)				BDL	1(
605	184		2,4-DINITROPHENOL (Q3#11)				BDL	4(
607	109		4-NITROPHENOL (Q3#12)			5.0	60 BDL	1(
427	165		2,4-DINITROTOLUENE (Q3#14)				BDL	1(
476	168		DIBENZOFURAN (Q3#13)				BDL	1(
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	1(
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	2(
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	2(
630	231		2,3,4,6-TETRACHLOROPHENOL (				BDL	2(
424	149		DIETHYL PHTHALATE (Q3#16)				BDL	1(
519	97		ZINOPHOS (Z9#38)				BDL	1(

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-10-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1(
432	166		FLUORENE (83818)				BDL	1(
480	138		4-NITROANILINE (83819)				BDL	2(
498	152		5-NITRO-O-TOLUIDINE (Z9834)				BDL	2(
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	1(
467	188	I	D10-PHENANTHRENE (IS84)	850	510000	40.0		
499	240	I	D12-CHRYSENE (IS85)	1085	376000	40.0		
497	264	I	D12-PERYLENE	1246	302000	40.0		
619	112	S	2-FLUOROPHENOL (SS81)			99.7	50.%	
612	99	S	D5-PHENOL (SS82)			83.7	42.%	
447	82	S	D5-NITROBENZENE (SS83)			80.0	80.%	
448	172	S	2-FLUOROBIPHENYL (SS84)			77.5	77.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS85)			185.0	92.%	
471	212	S	D10-PYRENE			108.0	108.%	
496	244	S	D14-TERPHENYL (SS86)			104.0	104.%	
CHECKSUMS: 14268.				4936	2193000.	1033.4		56.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-14-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	99.7	200.0	50.	21-100	X
96	612	D5-PHENOL (SS#2)	83.7	200.0	42.	10- 94	X
97	447	D5-NITROBENZENE (SS#3)	80.0	100.0	80.	35-114	X
98	448	2-FLUOROBIPHENYL (SS#4)	77.5	100.0	77.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	165.0	200.0	92.	10-123	X
#1	471	D10-PYRENE	108.0	100.0	108.	40-130*	X
#1	496	D14-TERPHENYL (SS#6)	104.0	100.0	104.	33-141	X

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times \frac{1.0\ \text{ML}}{1.0} \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{1000\ \text{UL}} \times \frac{1.0\ \text{ML}}{1.0} \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS04)	850	510000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				@DL	3(
443	169		N-NITROSODIPHENYLAMINE (G40				BDL	1(
567	169		DIPHENYLAMINE (F303)				BDL	1(
308	213		1,3,5-TRINITROBENZENE (Z904				BDL	2(
539	108		PHENACETIN (Z9042)				BDL	1(
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1(
377	234		DIALLATE (TRANS ISOMER)				BDL	1(
341	125		DIMETHOATE (Z9044)				BDL	1(
433	284		HEXACHLOROBENZENE (G405)				BDL	1(
465	169		4-AMINOBIPHENYL (Z9045)				BDL	1(
522	173		PRONAMIDE (Z9046)				BDL	1(
609	266		PENTACHLOROPHENOL (G406)				BDL	2(
453	236		PENTACHLORONITROBENZENE (Z9				BDL	1(
444	178		PHENANTHRENE (G407)				BDL	1(
403	178		ANTHRACENE (G408)				BDL	1(
426	149		DI-N-BUTYL PHTHALATE (G409)				BDL	1(
516	97		METHAPYRILENE (Z9048)				BDL	2(
349	211		CYCLOPHOSPHAMIDE (Z9049)				BDL	5(
431	202		FLUORANTHENE (G4010)				BDL	1(
459	240	I	D12-CHRYSENE (IS05)	1085	376000	40.0		
404	184		BENZIDINE (G502)				BDL	1(
445	202		PYRENE (G503)				BDL	1(
530	185		ARAMITE (Z9050)			1.3	1.3 BDL	2(
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1(
523	139		CHLOROBENZILATE (Z9052)				BDL	1(
549	212		3,3'-DIMETHYLBENZIDINE (Z90				BDL	2(
413	149		BUTYLBENZYL PHTHALATE (G504				BDL	1(
488	181		2-ACETYLAMINO FLUORENE (F50				BDL	1(
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1(
423	252		3,3'-DICHLOROBENZIDINE (G50				BDL	1(
533	244		DIMETHOXYBENZIDINE (Z9057)				BDL	1(
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	1(
405	228		BENZO(A)ANTHRACENE (G506)				BDL	1(
418	228		CHRYSENE (G508)				BDL	1(
497	264	I	D12-PERYLENE	1246	302000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G602)				BDL	1(
407	252		BENZO(B)FLUORANTHENE (G603)				BDL	1(
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1(
409	252		BENZO(K)FLUORANTHENE (G604)				BDL	1(
406	252		BENZO(A)PYRENE (G605)				BDL	1(
565	268		3-METHYLCHLORANTHRENE (F602				BDL	1(
566	279		DIBENZO(A,J)ACRIDINE				BDL	1(

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-14-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				#DL	1
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	1
408	276		#ENZO(G,H,I)PERYLENE (G6#8)				#DL	1
376	234		DIALLATE (CIS ISOMER)				BDL	1
531	234		DIALLATE (TOTAL)				SDL	1
CHECKSUMS:								
10114.				3181	1188000.	121.3		1.

CORRECTED/REVIEWED BY S. Hewitt
(QC/MB DATA REVIEWER)

DATE 5-14-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ ML}{1000.\ ML} \times 1.0ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Heath
(QC/MS DATA REVIEWER)

DATE 5-14-96

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800102

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337382

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH017382C06

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	1	J
123-63-7	Paraldehyde	3	J
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	2	J
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800102

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337382

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037382C06

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0--------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0--------Pyrene	10	U
140-57-8--------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6--------Chlorobenzilate	10	U
119-93-7--------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4--------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4--------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9--------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0--------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 73800102

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337382

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH0J7382C06

Level: (low/med) LOW Date Received: 05/08/90

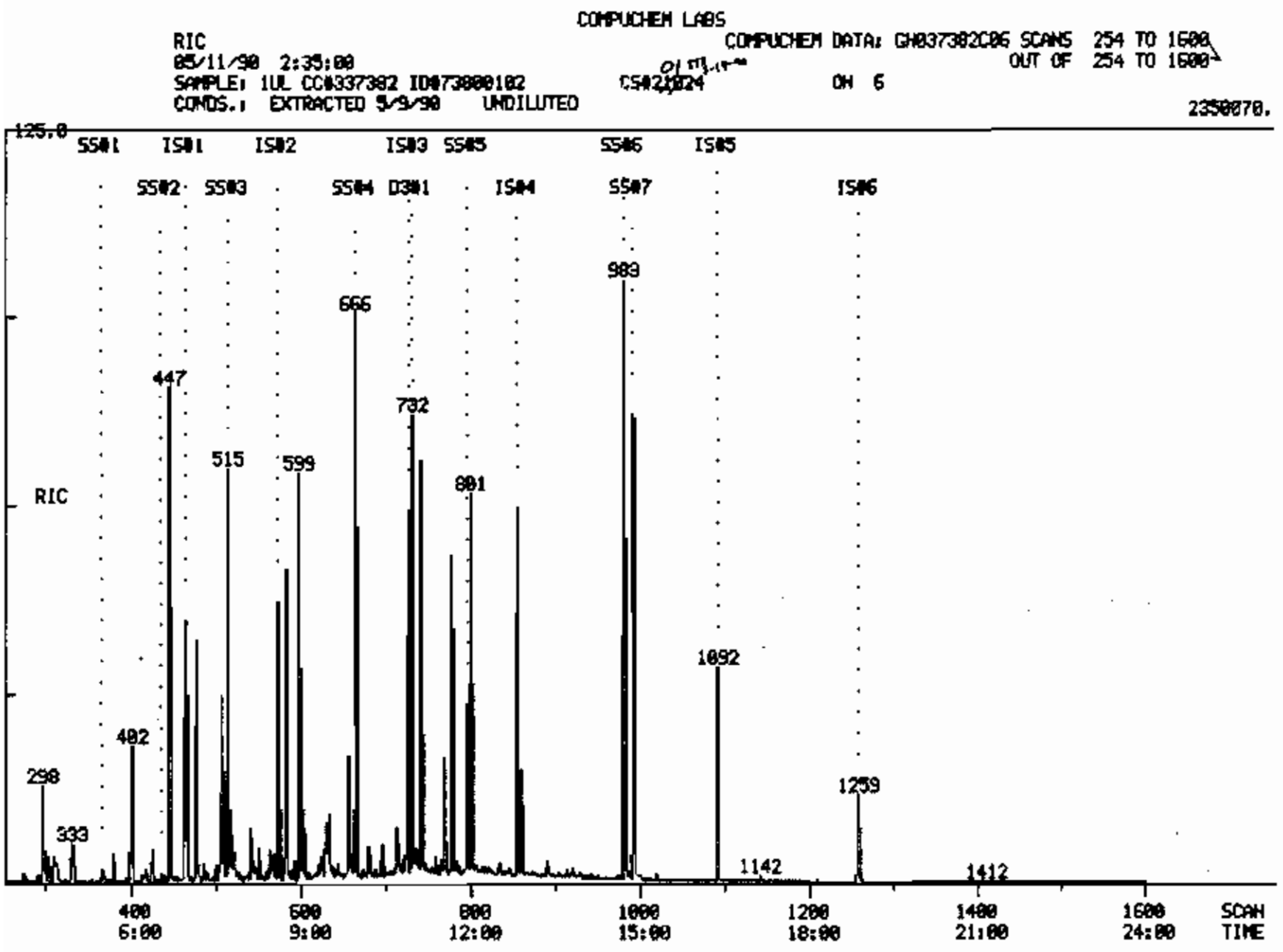
% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	68-12-2	FORMAMIDE, N,N-DIMETHYL-	4.47	17	J
2.		UNKNOWN	5.70	5.0	J
3.		UNKNOWN	6.02	38	J
4.		UNKNOWN	6.70	83	J
5.	78-67-1	PROPANENITRILE, 2,2'-AZOBIS[	7.15	45	J
6.		UNKNOWN	7.62	42	J
7.		UNKNOWN	8.10	13	J
8.		UNKNOWN	8.45	9.0	J
9.	126-54-5	2,4,8,10-TETRAOXASPIRO[5.5]U	8.75	61	J
10.	2873-97-4	2-PROPENAMIDE, N-(1,1-DIMETH	8.99	76	J
11.		UNKNOWN	9.05	15	J
12.		UNKNOWN	9.45	10	J
13.		UNKNOWN	9.50	12	J
14.		UNKNOWN	9.85	18	J
15.		(1,1-DIMETHYLETHYL)BENZOIC A	10.70	6.0	J
16.		UNKNOWN	11.14	48	J
17.		UNKNOWN	11.54	13	J
18.		UNKNOWN	11.69	34	J
19.		UNKNOWN	12.00	56	J
20.		UNKNOWN	12.90	12	J



1198

NYDEC RA090 0507 ORGANIC

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	466	6:59	1	1.000	A BB	164920.	40.000	NG	5.20
2	42	268	4:01	1	0.575	A BB	5012.	1.279	NG	0.17 Y
3	79	NOT FOUND								
4	69	306	4:35	1	0.657	A BB	18092.	3.807	NG	0.50 NO
5	89	300	4:30	1	0.644	A BB	2792.	2.852	NG	0.37 Y
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	973	8:36	31	1.000	A BB	926104.	40.000	NG	5.20
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	947	8:12	31	0.955	A*BB	5104.	2.362	NG	0.31 Y
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	973	8:36	31	1.000	A BB	79620.	48.831	NG	6.35 NO
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	604	9:04	31	1.054	A VB	83116.	27.977	NG	3.64 NO
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	621	9:19	31	1.084	A*BB	564.	22.598	NG	2.94 NO

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	727	10:34	59	1.000	A BB	356760.	40.000	NG	5.20
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	732	10:59	59	1.007	A VV	17717.	7.264	NG	0.94 ND
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	779	11:41	59	1.072	A BB	3708.	1.255	NG	0.16 ND
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	855	12:50	92	1.000	A BB	548264.	40.000	NG	5.20
93	240	1092	16:23	93	1.000	A BV	398580.	40.000	NG	5.20
94	264	1259	18:53	94	1.000	A BB	274220.	40.000	NG	5.20
95	112	368	5:31	1	0.790	A BB	14004.	2.798	NG	0.36
96	99	437	6:33	1	0.938	A BB	11936.	1.986	NG	0.26
97	82	515	7:44	31	0.899	A BB	541872.	79.573	NG	10.35
98	172	666	9:59	59	0.916	A BB	795224.	69.400	NG	9.03
99	330	795	11:56	59	1.094	A BB	82876.	42.705	NG	5.55
100	212	983	14:45	93	0.900	A BV	1228510.	109.191	NG	14.20
101	244	993	14:54	93	0.909	A BB	1072040.	105.053	NG	13.66

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000 ✓	1.00
2	3:58	1.02	10.000	0.06	1.28	50.00	0.024	0.953 ✓	0.03
3	3:56		10.000			50.00		0.993	
4	4:26	1.03	10.000	0.07	3.81	50.00	0.088	1.155	0.08
5	4:26	1.01	10.000	0.06	2.85	50.00	0.014	0.238	0.06
6	4:48		20.000			50.00		1.241	
7	5:00		10.000			50.00		1.181	
8	5:22		10.000			50.00		0.985	
9	5:47		10.000			50.00		0.663	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:08		10.000			50.00		0.741	
11	6:32		10.000			50.00		1.612	
12	6:37		10.000			50.00		1.827	
13	6:37		10.000			50.00		0.597	
14	6:41		20.000			50.00		1.741	
15	6:44		10.000			50.00		1.465	
16	6:55		10.000			50.00		1.590	
17	6:59		10.000			50.00		2.679	
18	6:59		10.000			50.00		1.589	
19	7:08		10.000			50.00		0.937	
20	7:13		10.000			50.00		1.601	
21	7:16		10.000			50.00		1.262	
22	7:19		10.000			50.00		3.208	
23	7:26		10.000			100.00		1.105	
24	7:26		10.000			100.00		1.105	
25	7:31		10.000			50.00		0.723	
26	7:32		10.000			50.00		0.402	
27	7:29		10.000			50.00		2.046	
28	7:30		10.000			50.00		1.274	
29	7:33		10.000			50.00		1.637	
30	7:35		10.000			50.00		0.987	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:43		10.000			50.00		0.566	
33	7:54		10.000			50.00		0.209	
34	7:59		10.000			50.00		1.033	
35	8:06		10.000			50.00		0.348	
36	8:07		10.000			50.00		0.209	
37	8:06		10.000			50.00		0.374	
38	8:09		10.000			50.00		0.754	
39	8:11	1.00	100.000	0.01	2.36	50.00	0.008	0.164	0.05
40	8:14		10.000			50.00		0.569	
41	8:23		10.000			50.00		0.359	
42	8:30		10.000			50.00		0.440	
43	8:36		10.000			50.00		1.139	
44	8:41		10.000			50.00		0.439	
45	8:41		20.000			50.00		0.368	
46	8:35	1.00	10.000	0.10	48.83	50.00	0.121	0.124	0.98
47	8:30		10.000			50.00		0.020	
48	8:44		10.000			50.00		0.320	
49	8:47		10.000			50.00		0.291	
50	8:49		10.000			50.00		0.416	
51	8:54		20.000			50.00		0.364	
52	9:05	1.00	10.000	0.11	27.98	50.00	0.126	0.226	0.56
53	9:15		10.000			50.00		0.443	
54	9:15		10.000			50.00		0.038	
55	9:21		10.000			50.00		0.312	
56	9:21	1.00	10.000	0.11	22.60	50.00	0.001	0.002	0.45
57	9:29		10.000			50.00		0.937	
58	9:38		10.000			50.00		0.538	
59	10:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:44		10.000			100.00		0.616	
61	9:44		10.000			100.00		0.616	
62	9:45		10.000			50.00		0.363	
63	9:52		20.000			50.00		0.432	
64	9:55		20.000			50.00		0.437	
65	10:01		20.000			50.00		0.490	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC (	
66	10:08		10.000			50.00		1.231	
67	10:10		10.000			50.00		1.019	
68	10:08		10.000			50.00		0.618	
69	10:18		10.000			50.00		0.578	
70	10:22		20.000			50.00		0.460	
71	10:27		20.000			50.00		0.275	
72	10:32		10.000			50.00		1.469	
73	10:39		10.000			50.00		0.355	
74	10:41		10.000			50.00		1.792	
75	10:50		20.000			50.00		0.355	
76	10:55		10.000			50.00		1.149	
77	10:58		40.000			50.00		0.171	
78	11:00	1.00	10.000	0.10	7.26	50.00	0.040	0.273	0.15
79	11:10		10.000			50.00		0.473	
80	11:07		10.000			50.00		1.658	
81	11:08		10.000			50.00		0.632	
82	11:14		20.000			50.00		0.624	
83	11:20		20.000			50.00		0.579	
84	11:19		20.000			50.00		0.334	
85	11:25		10.000			50.00		1.674	
86	11:33		10.000			50.00		0.458	
87	11:31		10.000			50.00		0.621	
88	11:34		10.000			50.00		1.353	
89	11:38	1.00	20.000	0.05	1.25	50.00	0.008	0.331	0.03
90	11:38		20.000			50.00		0.409	
91	11:45		10.000			50.00		2.557	
92	12:48	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:22	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	18:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:29	1.01	0.742	1.06	2.80	50.00	0.068	1.217	0.06
96	6:32	1.00	0.948	0.99	1.99	50.00	0.058	1.462	0.04
97	7:42	1.00	0.875	1.03	79.57	50.00	0.824	0.518	1.59
98	9:58	1.00	0.906	1.01	69.40	50.00	1.783	1.285	1.39
99	11:54	1.00	1.118	0.98	42.71	50.00	0.186	0.218	0.85
100	14:42	1.00	10.000	0.09	109.19	50.00	2.466	1.129	2.18
101	14:52	1.00	0.907	1.00	105.05	50.00	2.152	1.024	2.10

QUANTITATION REPORT FILE: 9H037382C06
DATA: 9H037382C06.TI
05/11/90 2:35:00
SAMPLE: 1UL CC#337382 ID#73800102 CS#2 ON 6
CONDS.: EXTRACTED 5/9/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 917

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*467 D10-PHENANTHRENE (IS04)
2	604 4,6-DINITRO-2-METHYLPHENOL (G402) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G403) <86-30-6>
4	567 DIPHENYLAMINE (F303)
5	508 1,3,5-TRINITROBENZENE (Z9041)
6	539 PHENACETIN (Z9042) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G404) <101-55-3>
8	977 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9044)
10	433 HEXACHLOROBENZENE (G405) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9045)
12	522 PRONAMIDE (Z9046)
13	609 PENTACHLOROPHENOL (G406) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9047)
15	444 PHENANTHRENE (G407) <85-01-8>
16	403 ANTHRACENE (G408) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G409) <84-74-2>
18	516 METHAPYRILENE (Z9048)
19	549 CYCLOPHOSPHAMIDE (Z9049)
20	431 FLUORANTHENE (G4010) <206-44-0>
21	*459 D12-CHRYSENE (IS05)
22	404 BENZIDINE (G502) <92-87-5>
23	445 PYRENE (G503) <129-00-0>
24	530 ARAMITE (Z9050) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9051)
26	523 CHLOROBENZILATE (Z9052)
27	545 3,3'-DIMETHYLBENZIDINE (Z9053)
28	415 BUTYLBENZYL PHTHALATE (G504) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F502)
30	489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9054)
31	423 3,3'-DICHLOROBENZIDINE (G505) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9057)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (G507) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G506) <56-55-3>
35	418 CHRYSENE (G508) <218-01-9>
36	*497 D12-PERYLENE
37	429 DI-N-OCTYL PHTHALATE (G602) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G603) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9055)
40	409 BENZO(K)FLUORANTHENE (G604) <207-08-9>
41	406 BENZO(A)PYRENE (G605) <50-32-8>
42	565 3-METHYLCHLORANTHRENE (F602)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G606) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G607) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (G608) <191-24-2>

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	855	12:30	1	1.000	A BB	548264.	40.000	NQ	32.89
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1092	16:23	21	1.000	A BV	398580.	40.000	NQ	32.89
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	993	14:54	21	0.909	A BB	3004.	1.645	NQ	1.35 NO
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1259	18:53	36	1.000	A BB	274220.	40.000	NQ	32.89
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

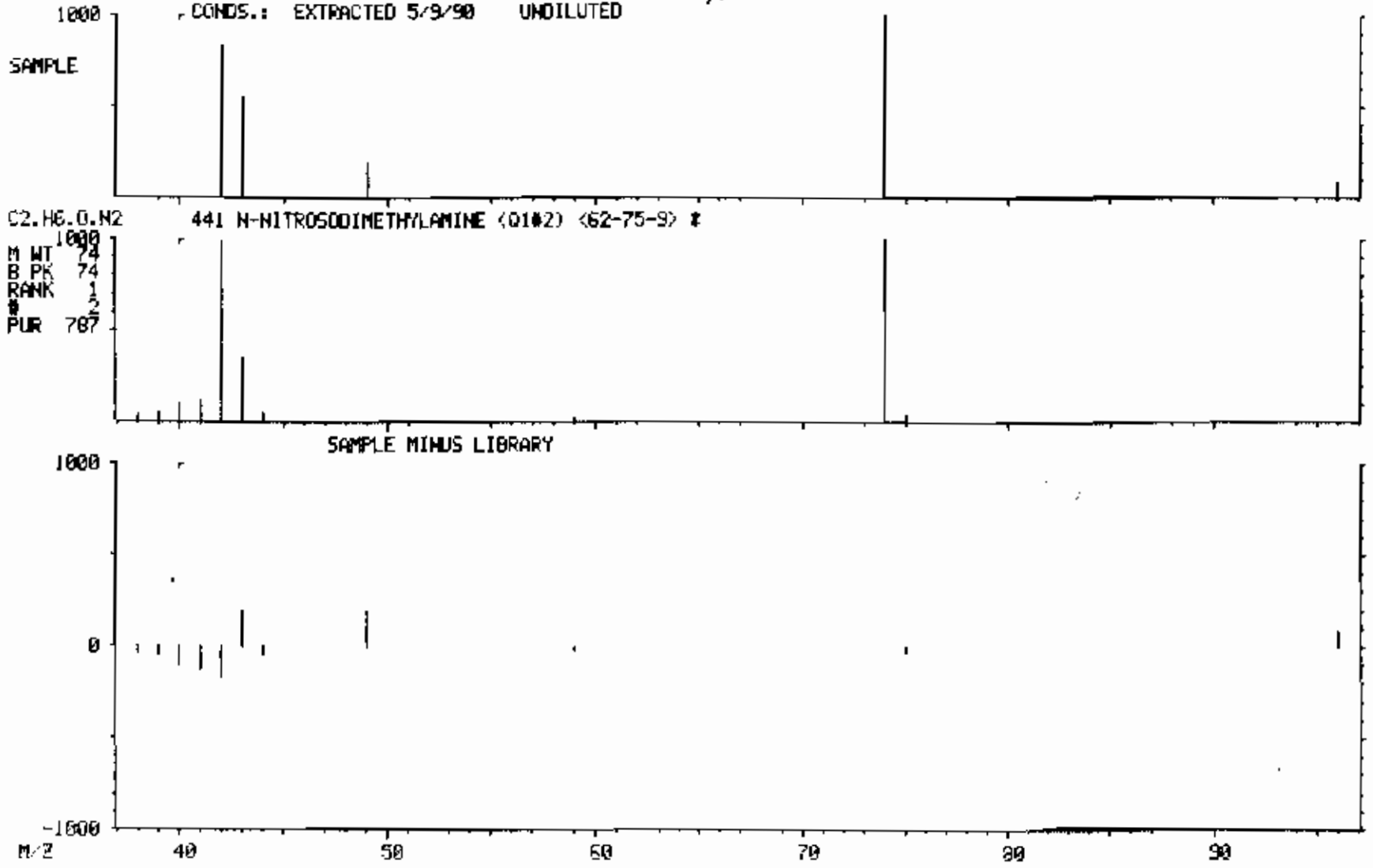
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:48	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:40		30.000			50.00		0.160 ✓	
3	11:42		10.000			100.00		0.649	
4	11:42		10.000			100.00		0.649	

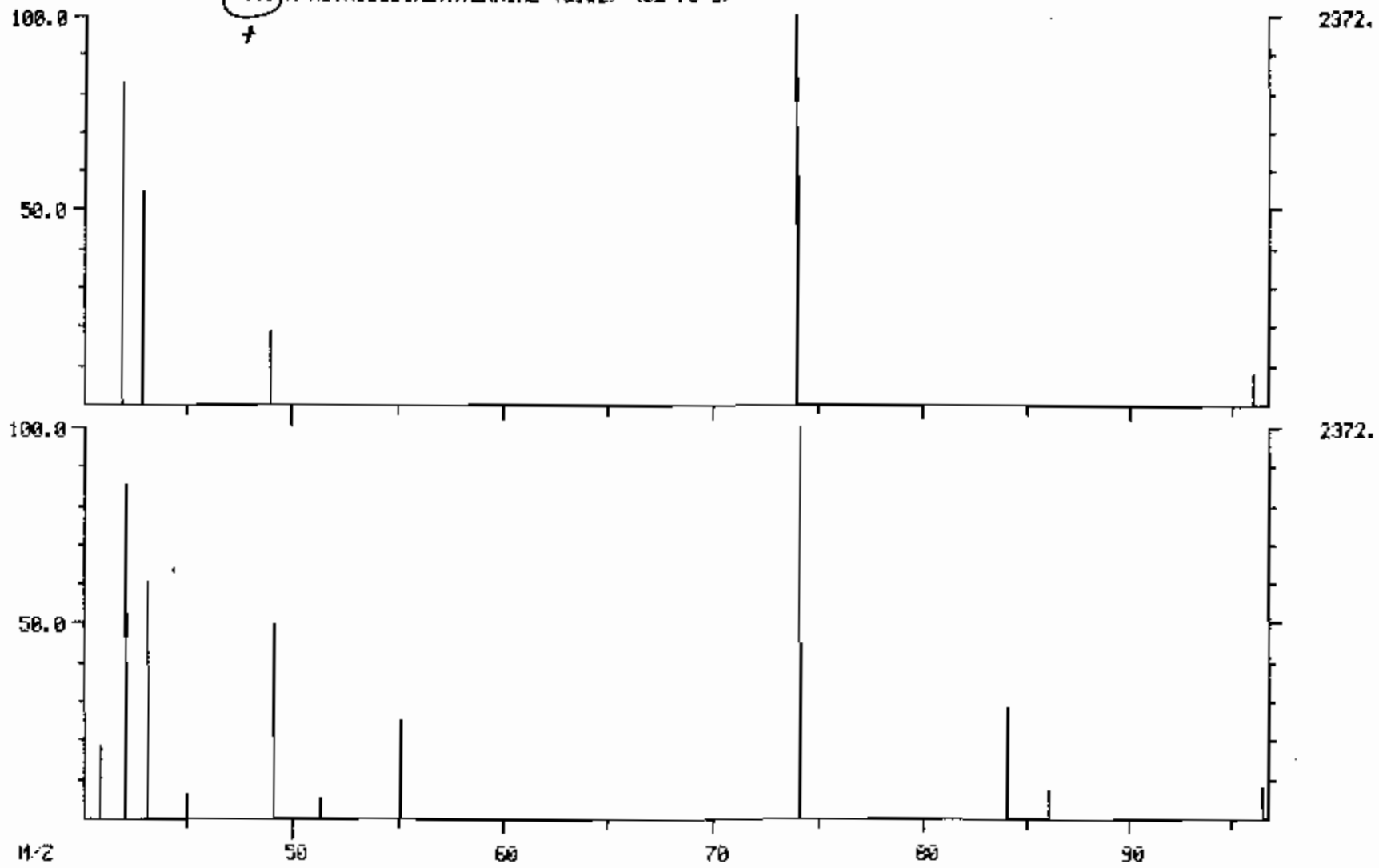
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.113	
6	12:06		10.000			50.00		0.514	
7	12:09		10.000			50.00		0.232	
8	12:05		10.000			25.00		0.161	
9	12:23		10.000			50.00		0.165	
10	12:23		10.000			50.00		0.353	
11	12:32		10.000			50.00		0.608	
12	12:34		10.000			50.00		0.458	
13	12:36		20.000			50.00		0.203	
14	12:42		10.000			50.00		0.133	
15	12:50		10.000			50.00		1.182	
16	12:53		10.000			50.00		1.149	
17	13:30		10.000			50.00		1.761	
18	13:56		20.000			50.00		0.369	
19	14:15		50.000			200.00		0.025	
20	14:25		10.000			50.00		1.160	
21	16:22	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:33		10.000			50.00		0.076	
23	14:44		10.000			50.00		1.332	
24	14:54	1.00	20.000	0.05	1.64	50.00	0.006	0.183	0.03
25	15:05		10.000			50.00		0.243	
26	15:06		10.000			50.00		0.792	
27	15:32		20.000			50.00		0.446	
28	15:31		10.000			50.00		0.903	
29	15:54		10.000			50.00		0.460	
30	16:15		10.000			50.00		0.201	
31	16:17		10.000			50.00		0.305	
32	16:13		10.000			50.00		0.170	
33	16:15		10.000			50.00		1.252	
34	16:20		10.000			50.00		1.151	
35	16:24		10.000			50.00		1.044	
36	18:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:07		10.000			50.00		2.730	
38	18:03		10.000			100.00		0.967	
39	18:04		10.000			50.00		0.589	
40	18:03		10.000			100.00		0.967	
41	18:42		10.000			50.00		1.091	
42	19:30		10.000			50.00		0.656	
43	21:00		10.000			50.00		0.961	
44	21:38		10.000			50.00		1.384	
45	21:38		10.000			50.00		1.189	
46	22:29		10.000			50.00		1.086	
47	12:12		10.000			25.00		0.221	

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037382C06 # 268 BASE M/Z: 74
ENHANCED (10B 2N 0T) RIC: 6279.
ON 6

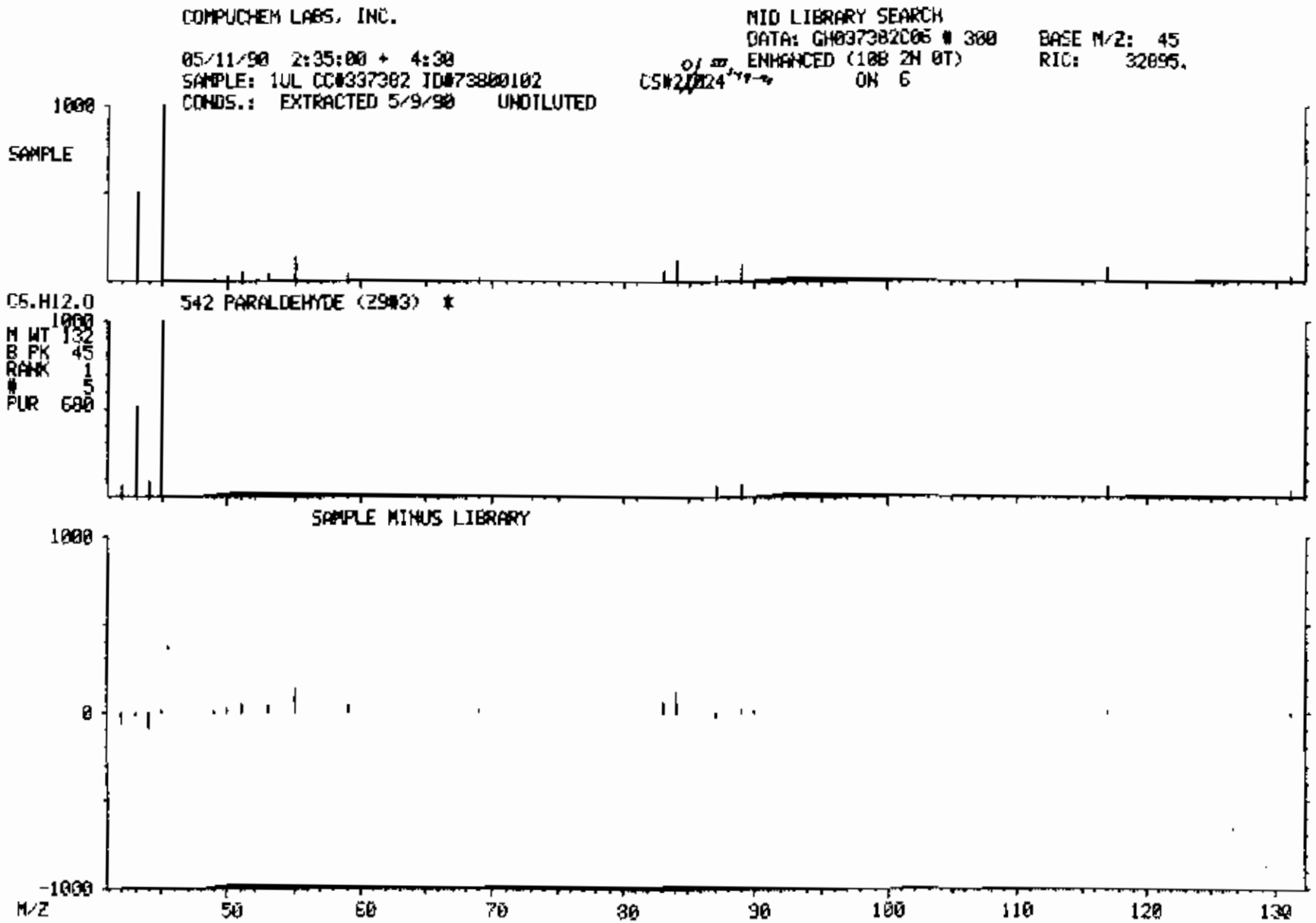
05/11/90 2:35:00 + 4:01
SAMPLE: 1UL CC#337382 ID#73880102
CONDS.: EXTRACTED 5/9/90 UNDILUTED





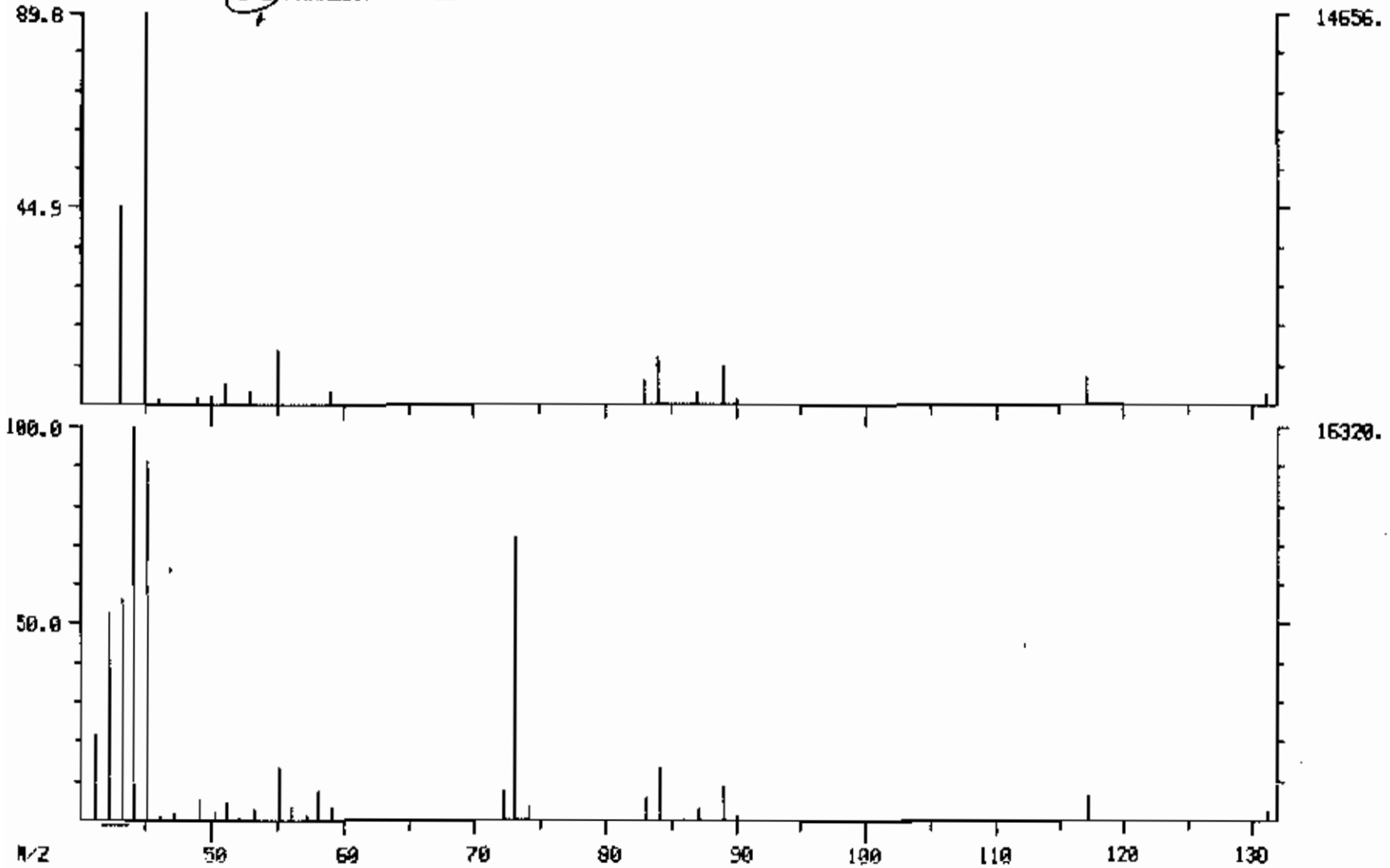
1187

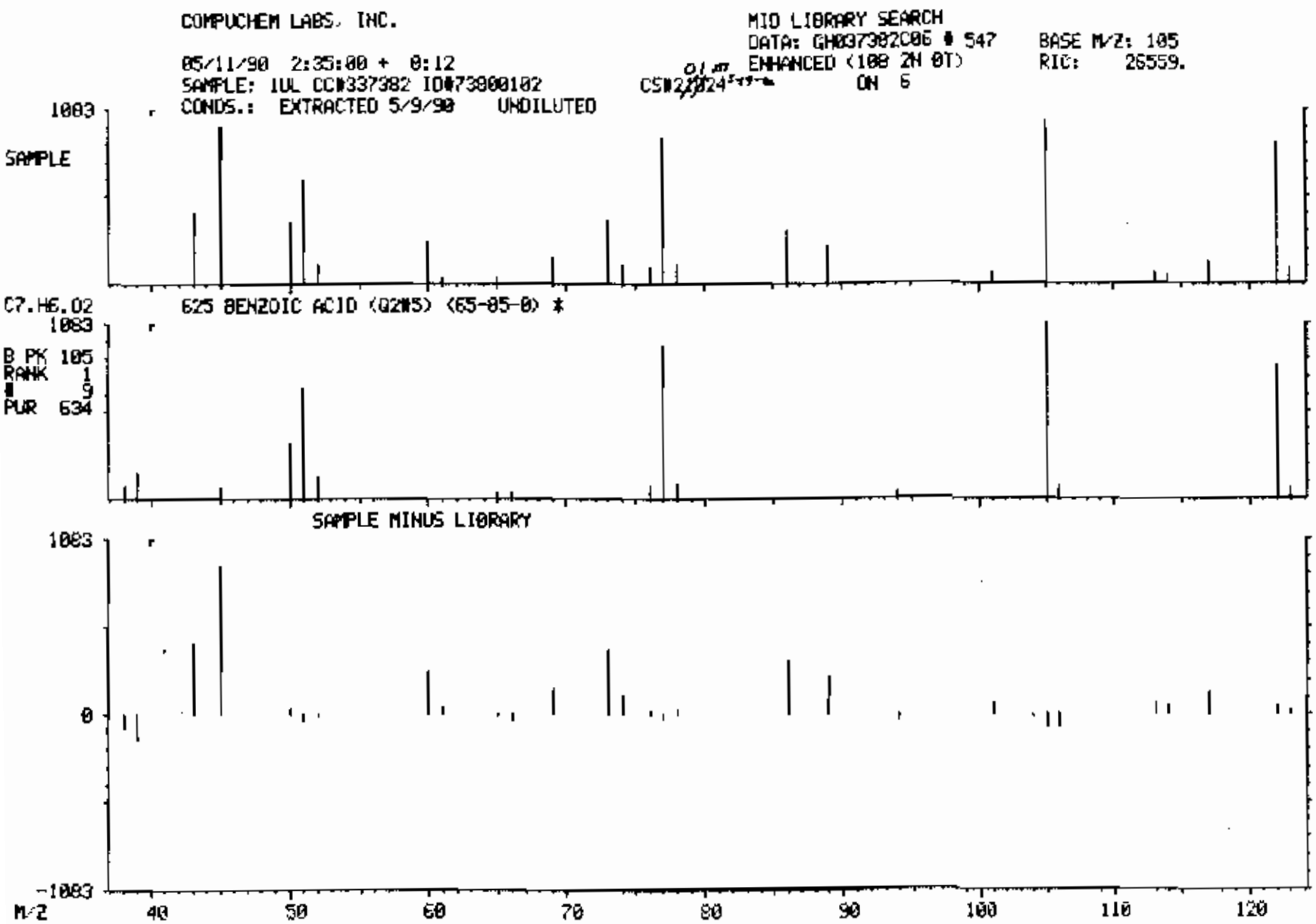
NYDEC RA090 0507 ORGANIC

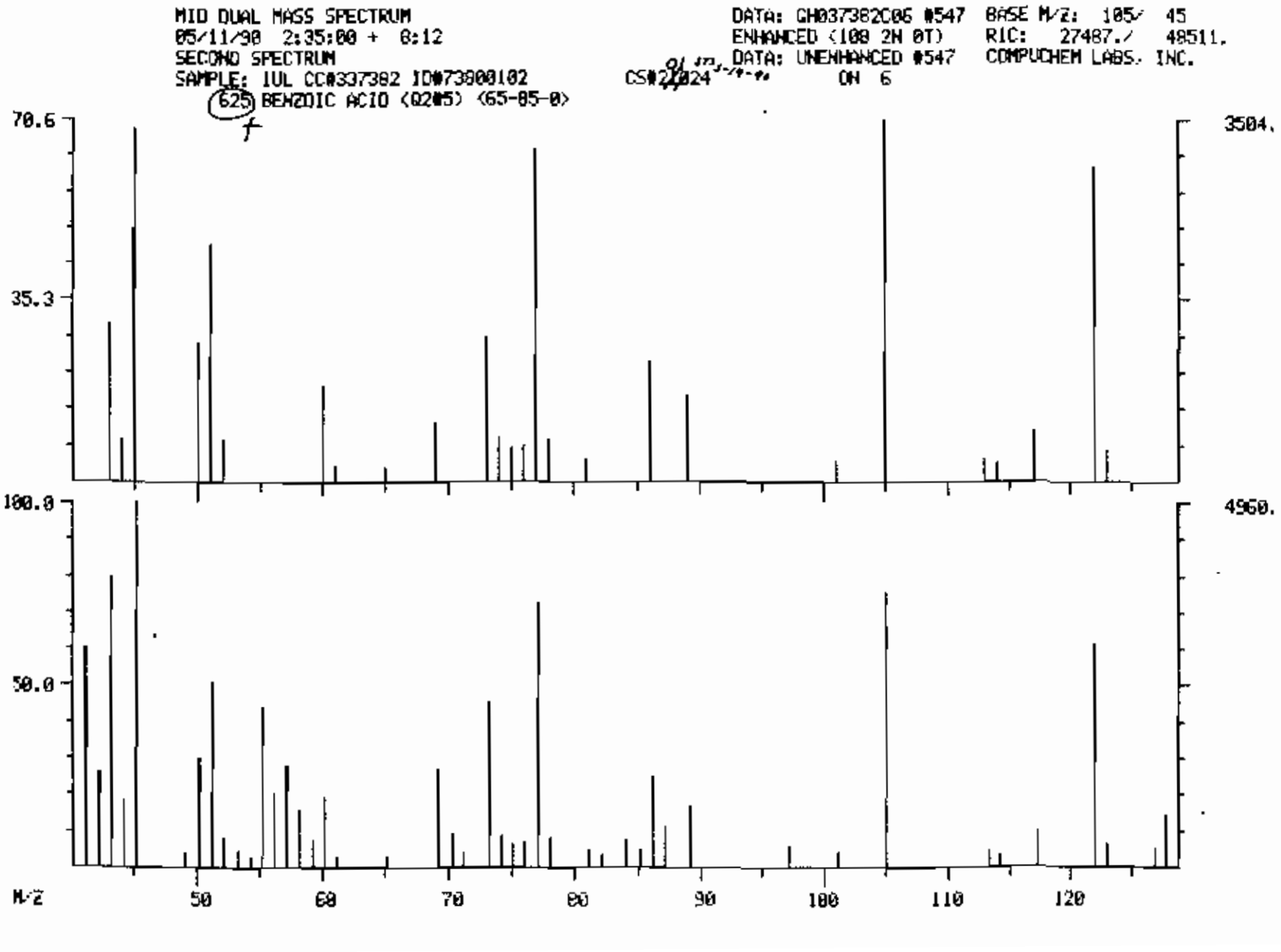

COMPUCHEM LABS, INC.
05/11/90 2:35:00 + 4:30
SAMPLE: 1UL CC#337382 ID#73800102
CONDS.: EXTRACTED 5/9/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GH037382C06 # 300 BASE M/Z: 45
ENHANCED (10B 2N 0T) RIC: 32895.
ON 6
1000
SAMPLE
C5.H12.0
542 PARALDEHYDE (Z9#3) *
1000
M WT 132
B PK 45
RANK 1
5
PUR 600
SAMPLE MINUS LIBRARY
1000
0
-1000
M/Z
50
60
70
80
90
100
110
120
130

MID DUAL MASS SPECTRUM
05/11/90 2:35:00 + 4:30
SECOND SPECTRUM
SAMPLE: 1UL CC#337382 ID#73800102
542 PARALDEHYDE (Z903)

DATA: GH037382C06 #300 BASE M/Z: 45/ 44
ENHANCED (100 2H 0T) RIC: 33023./ 80303.
DATA: UNENHANCED #300 COMPUCHEM LABS, INC.
CS#22824 ON 6



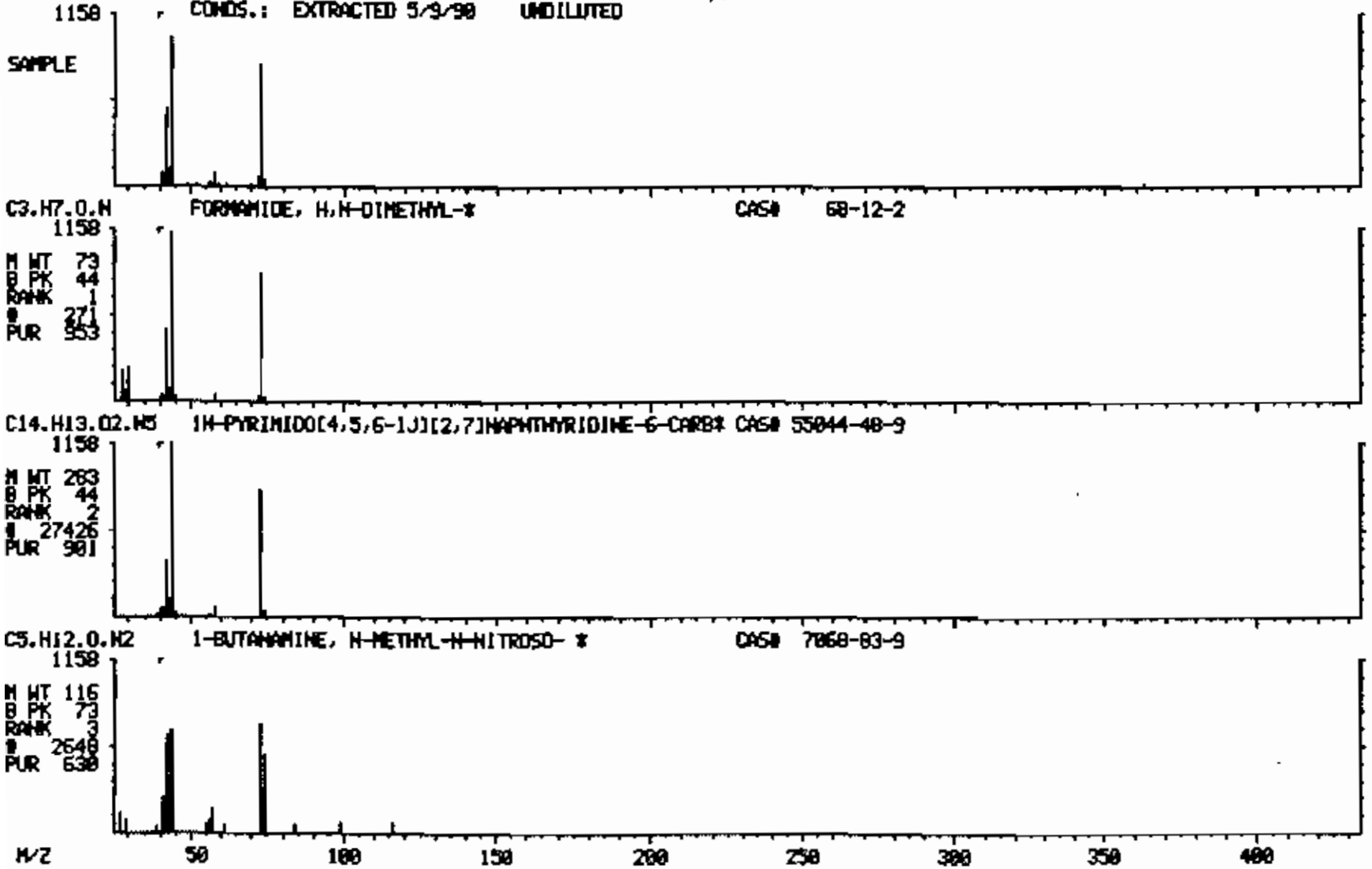

COMPUCHEM LABS, INC.
05/11/90 2:35:00 + 0:12
SAMPLE: 1UL CC#337382 ID#73000102
CONDS.: EXTRACTED 5/9/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GH037302C06 # 547 BASE M/Z: 105
ENHANCED (100 2N 0T) RIC: 26559.
ON 6
SAMPLE
C7.H6.02
625 BENZOIC ACID (Q2N5) (65-85-0) *
B PK 105
RANK 1
PUR 634
SAMPLE MINUS LIBRARY
1083
0
-1083
M/Z
40
50
60
70
80
90
100
110
120

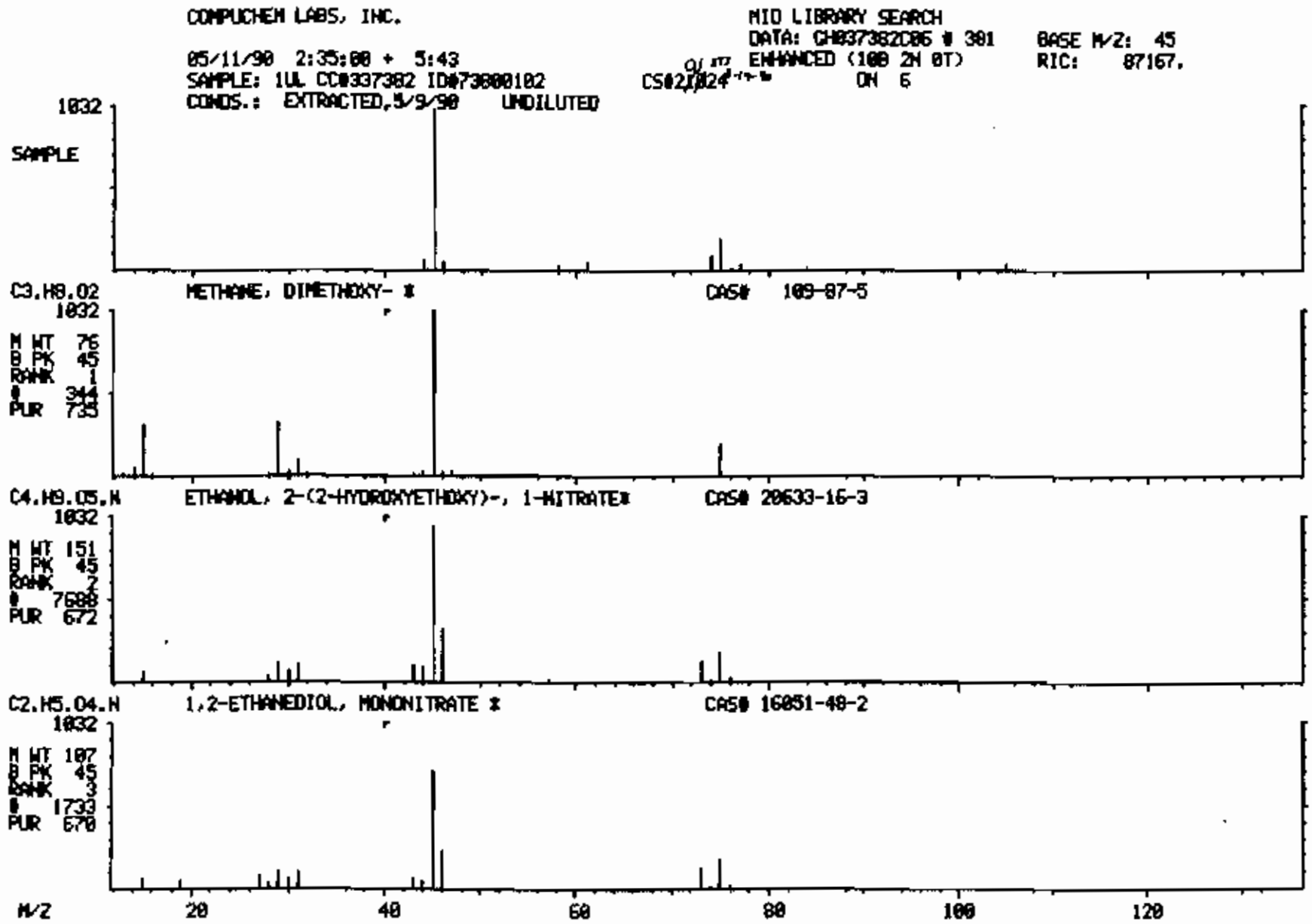


COMPUCHEM LABS, INC.

05/11/90 2:35:00 + 4:28
SAMPLE: 1UL CC0337382 ID#73000102
CONDS.: EXTRACTED 5/9/90 UNDILUTED

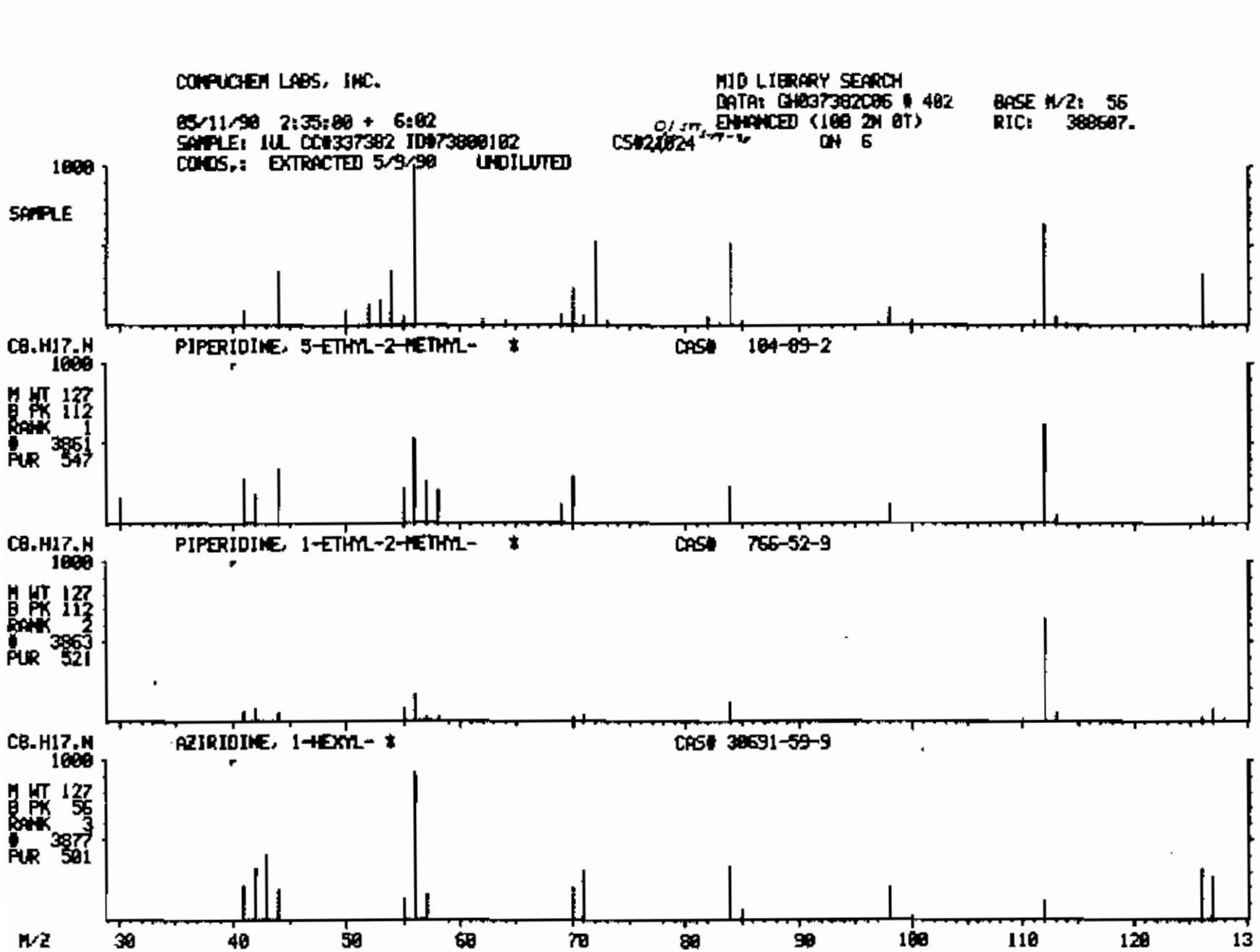
MID LIBRARY SEARCH
DATA: GH037382C06 # 298 BASE M/Z: 44
ENHANCED (100 2H 0T) RIC: 291639.
ON 6





1101

NYDEC RA090 0507 ORGANIC



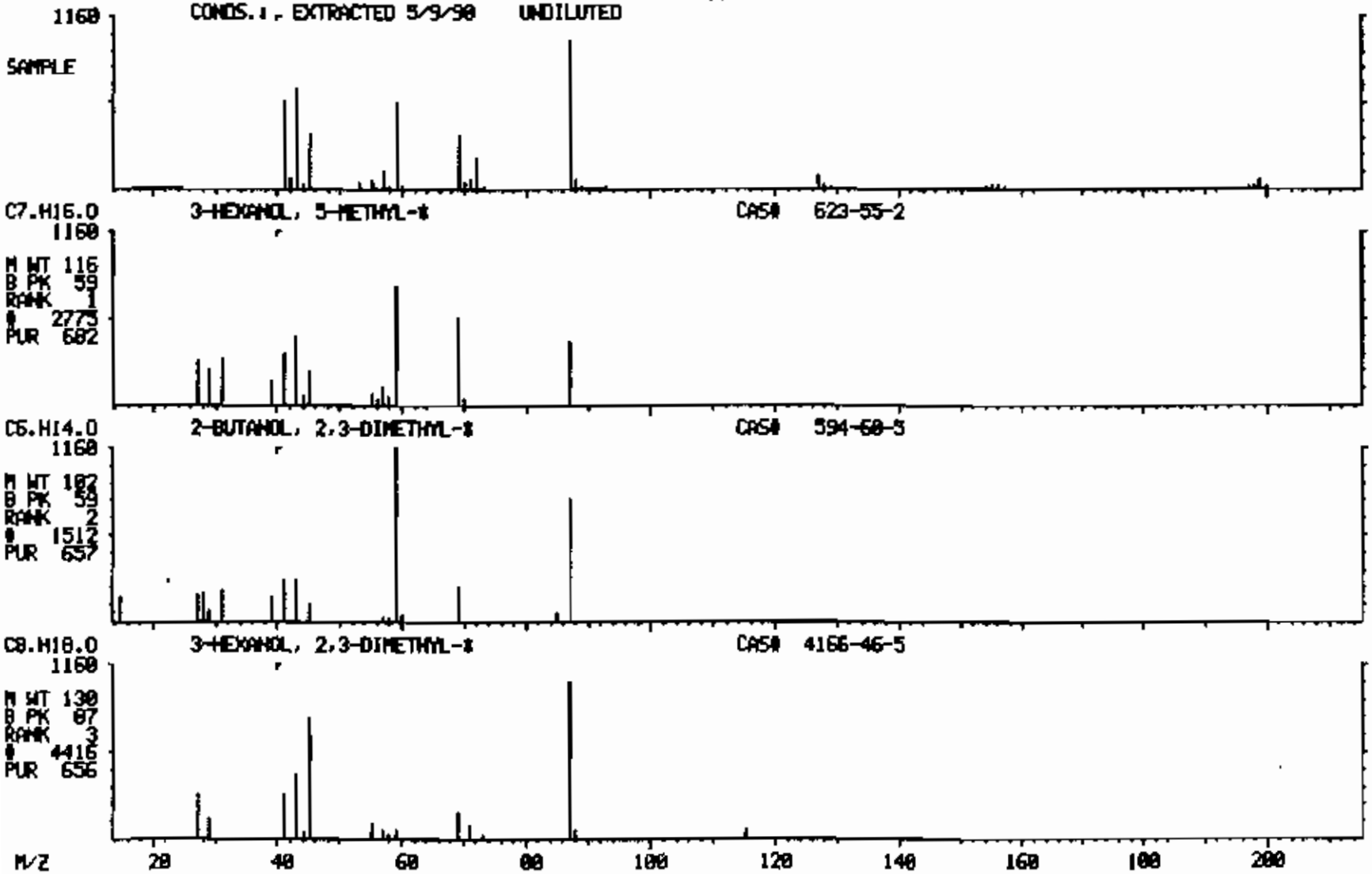
1180

NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

MIO LIBRARY SEARCH
DATA: GH0037382C06 # 447 BASE M/Z: 67
ENHANCED (100 2M 0T) RIC: 1503230.
ON 6

05/11/90 2:35:00 + 6:42
SAMPLE: 1UL CC#337382 ID#73000102
CONDS.: EXTRACTED 5/9/90 UNDILUTED



COMPUCHEM LABS, INC.

05/11/90 2:35:00 + 7:09
SAMPLE: 1UL CC#337382 ID#73800102
CONDS.: EXTRACTED 5/9/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GH037382C06 # 477 BASE M/Z: 69
ENHANCED (100 2H 0T) RIC: 732159.
CS#2,1024 OH 6

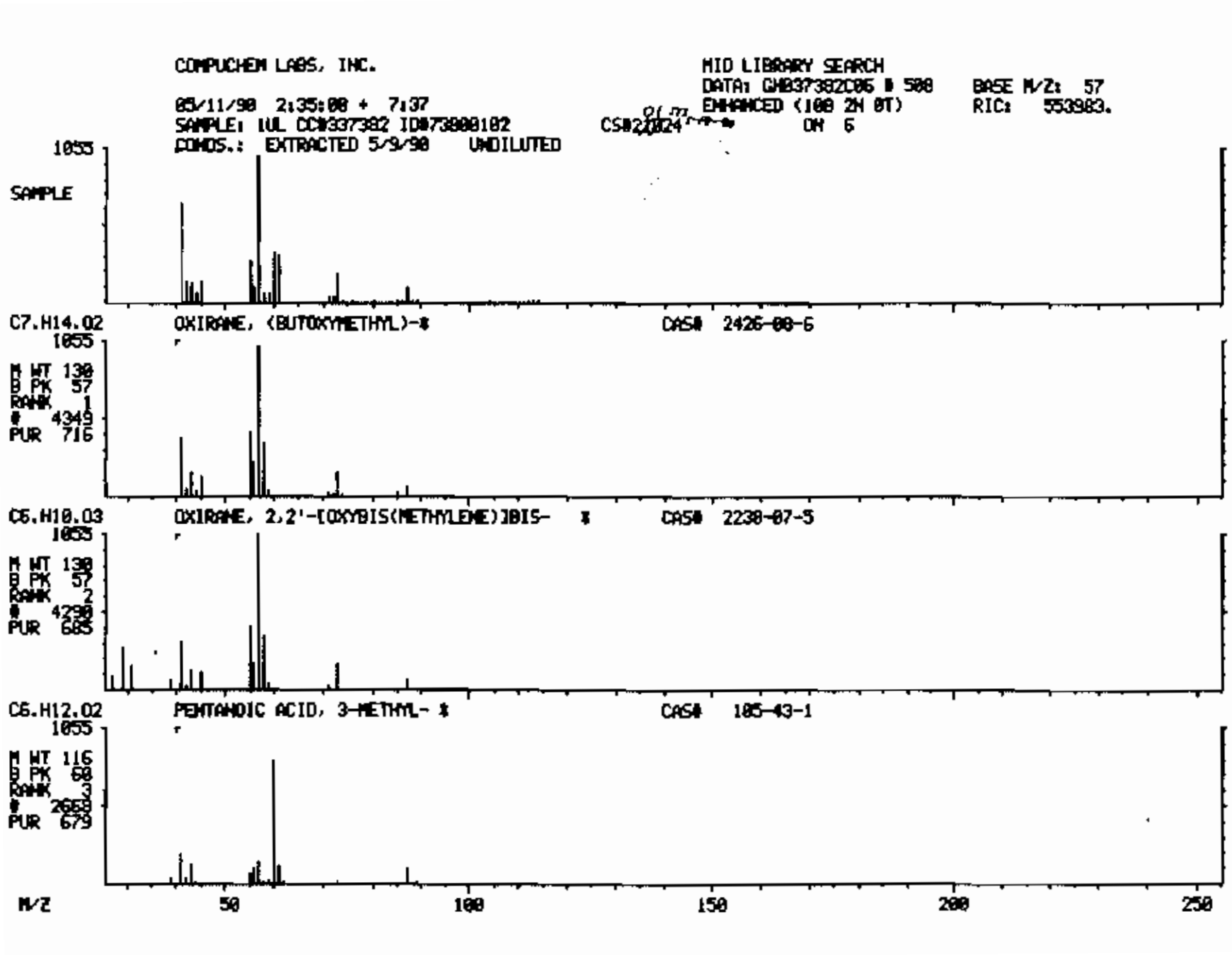
1107
SAMPLE

C8.H12.N4 PROPANENITRILE, 2,2'-AZOBIS[2-METHYL- # CAS# 78-67-1
1107
M WT 164
B PK 69
RANK 1
10341
PUR 921

C8.H14 CYCLOPENTANE, 2-PROPENYL- # CAS# 3524-75-2
1107
M WT 110
B PK 69
RANK 2
1988
PUR 693

C10.H18 2,6-OCTADIENE, 4,5-DIMETHYL-# CAS# 18476-57-8
1107
M WT 138
B PK 69
RANK 3
5397
PUR 675

M/Z 40 60 80 100 120 140



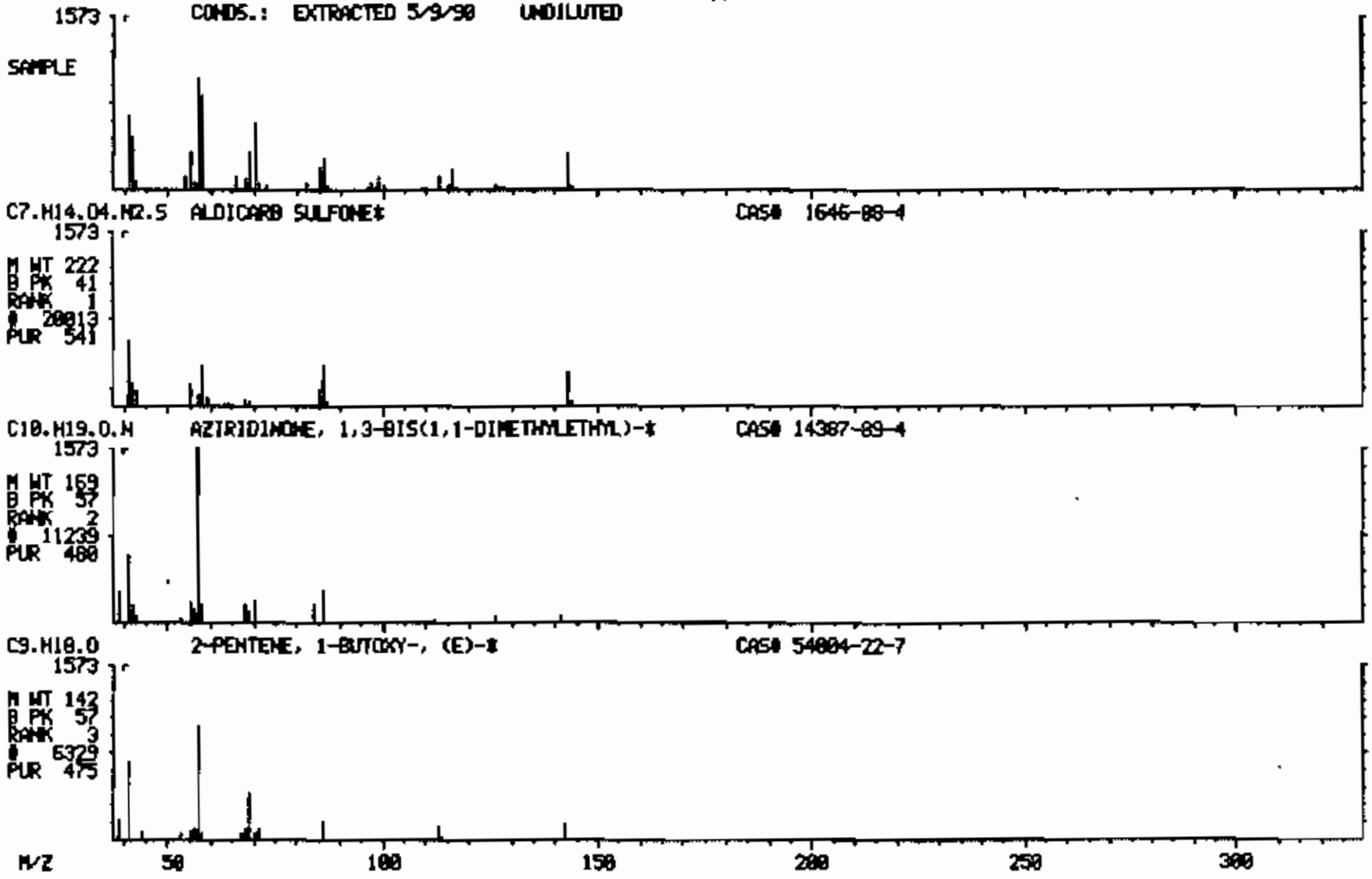
1177

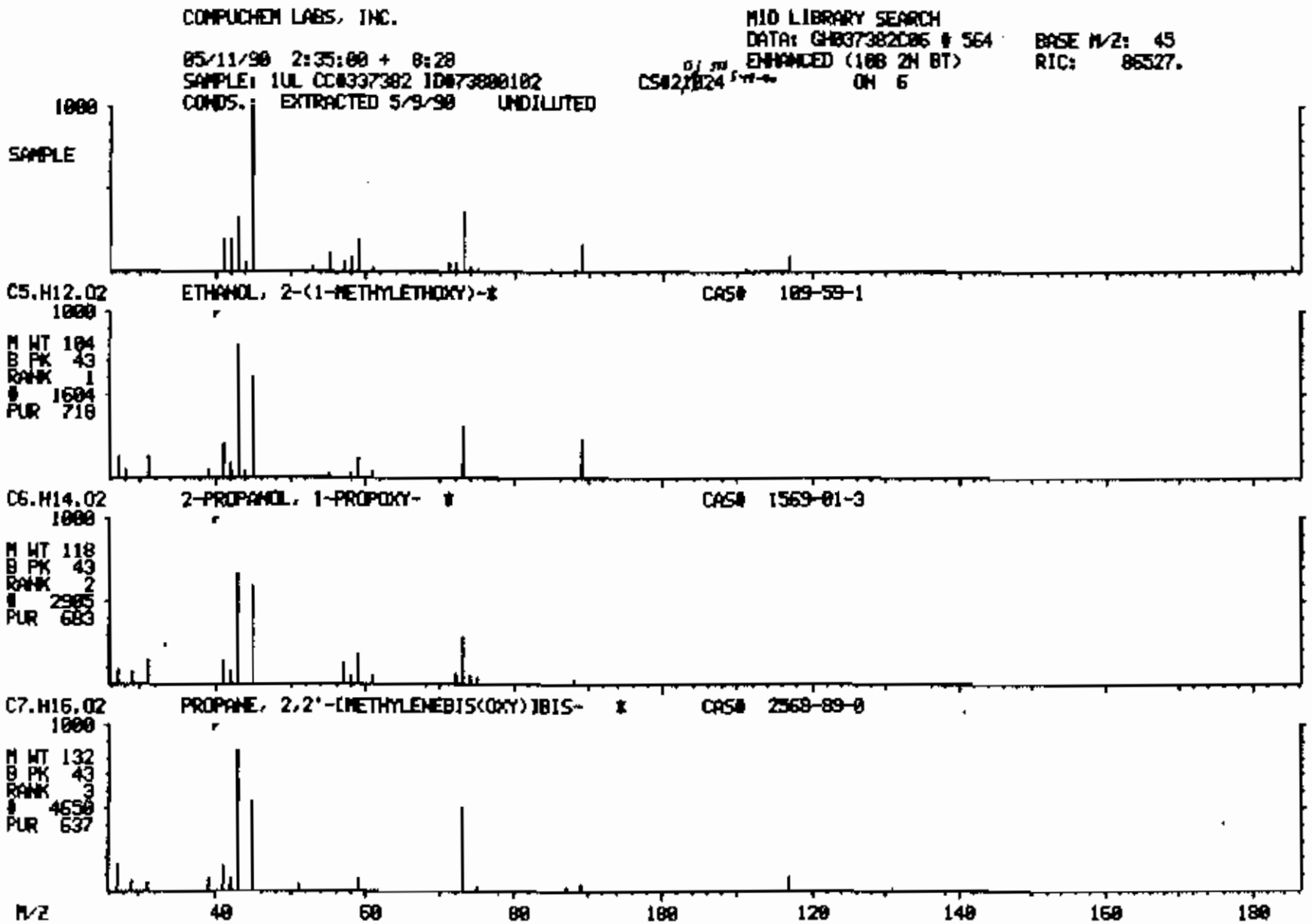
NYDEC RA090 0507 ORGANIC

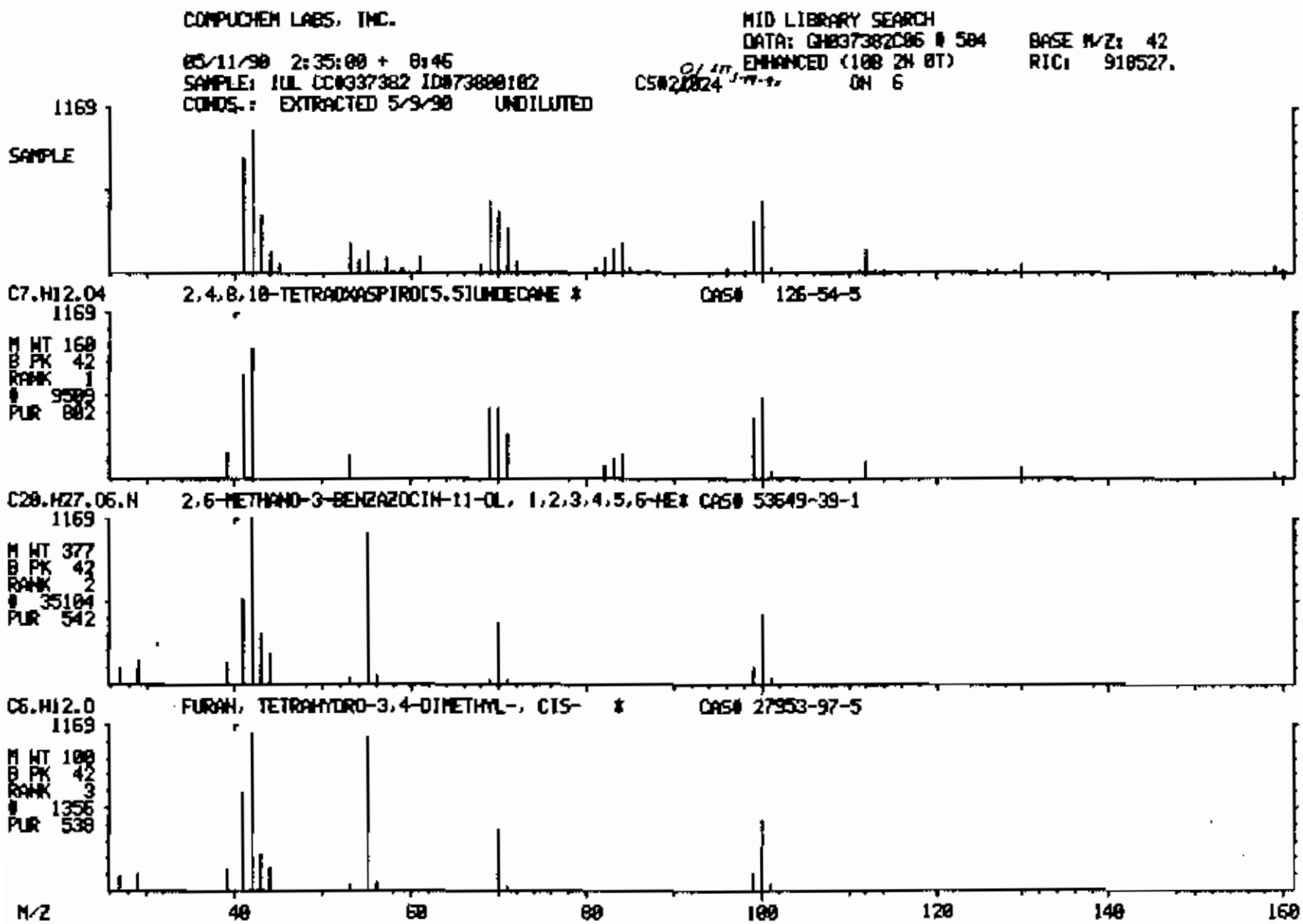
COMPUCHEM LABS, INC.

05/11/90 2:35:00 + 8:07
SAMPLE: 1UL CC#337382 ID#73000102
CONDS.: EXTRACTED 5/9/90 UNDILUTED

MID LIBRARY SEARCH
DATA: CH#37382C06 # 541 BASE M/Z: 57
ENHANCED (10B 2N 0T) RIC: 141023.
ON 6



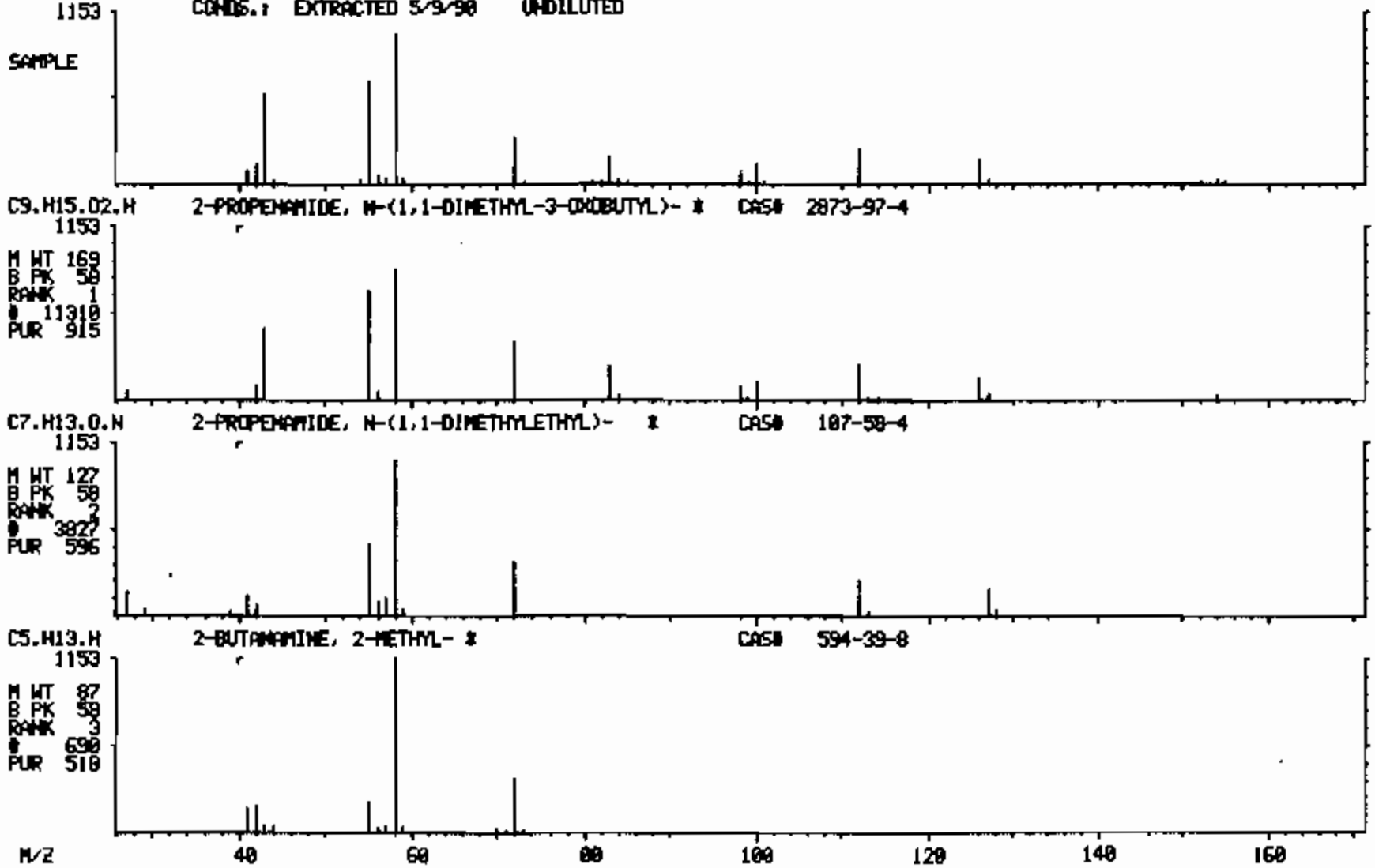

COMPUCHEM LABS, INC.
05/11/90 2:35:00 + 0:28
SAMPLE: 1UL CC#337382 ID#73880102
COND5.: EXTRACTED 5/9/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GH#37382C06 # 564
ENHANCED (100 2N BT)
BASE M/Z: 45
RIC: 86527.
ON 6
SAMPLE
C5.H12.02 ETHANOL, 2-(1-METHYLETHOXY)-* CAS# 109-59-1
M WT 104
B PK 43
RANK 1
1604
PUR 718
C6.H14.02 2-PROPANOL, 1-PROPOXY- * CAS# 1569-01-3
M WT 118
B PK 43
RANK 2
2985
PUR 683
C7.H16.02 PROPANE, 2,2'-[METHYLENEBIS(OXY)]BIS- * CAS# 2568-89-0
M WT 132
B PK 43
RANK 3
4656
PUR 637
M/Z
40
60
80
100
120
140
160
180



COMPUCHEM LABS, INC.

MIO LIBRARY SEARCH
DATA: GH037382C06 # 599 BASE M/Z: 58
ENHANCED (100 2N 0T) RIC: 1222650.
ON 6

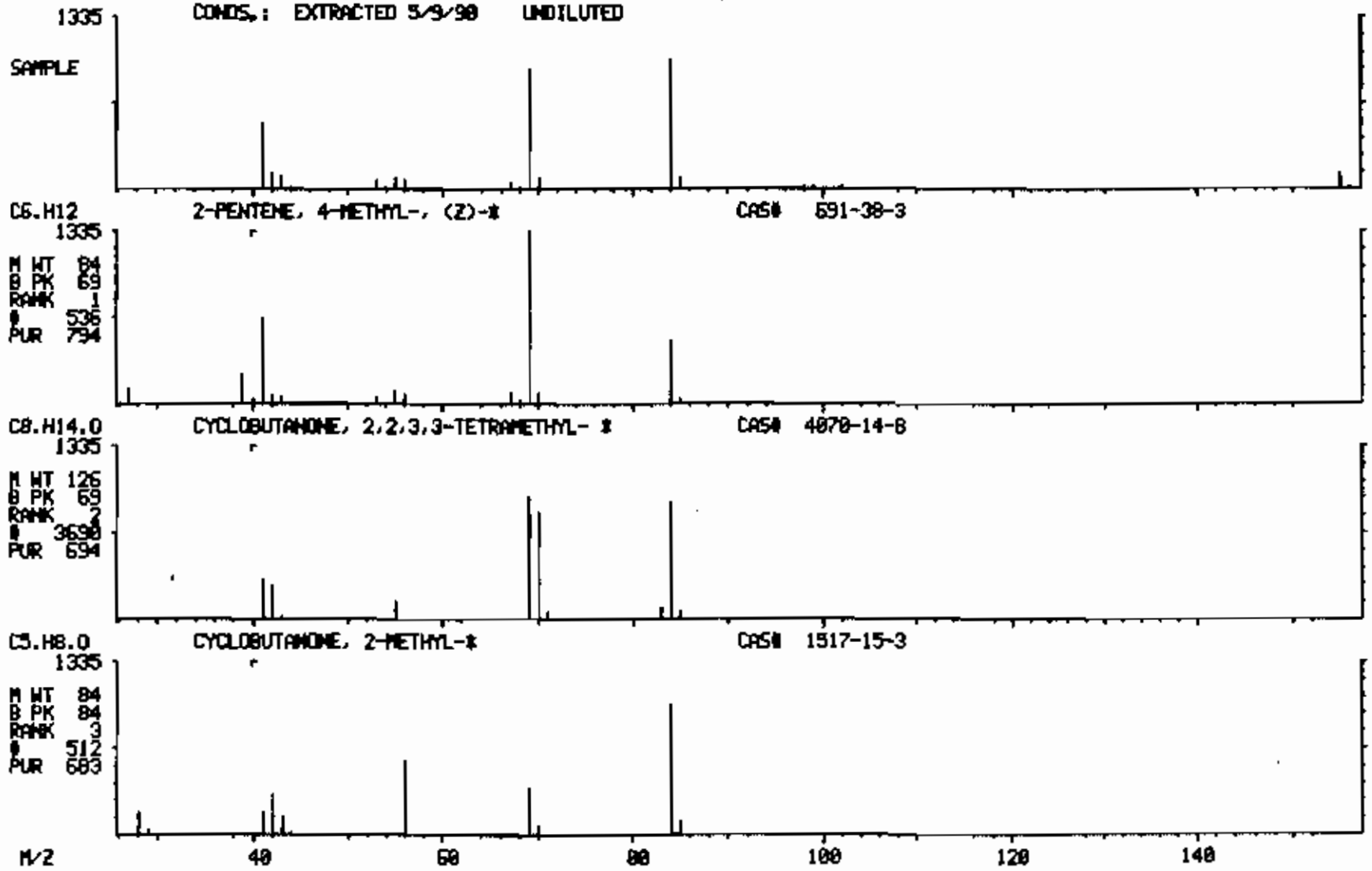
05/11/90 2:35:00 + 0:59
SAMPLE: 1UL CC#337382 ID#73800102
CONDS.: EXTRACTED 5/9/90 UNDILUTED



COMPUCHEM LABS, INC.

05/11/90 2:35:00 + 9:04
SAMPLE: 1UL CC#337302 ID#73000102
CONDS.: EXTRACTED 5/9/90 UNDILUTED

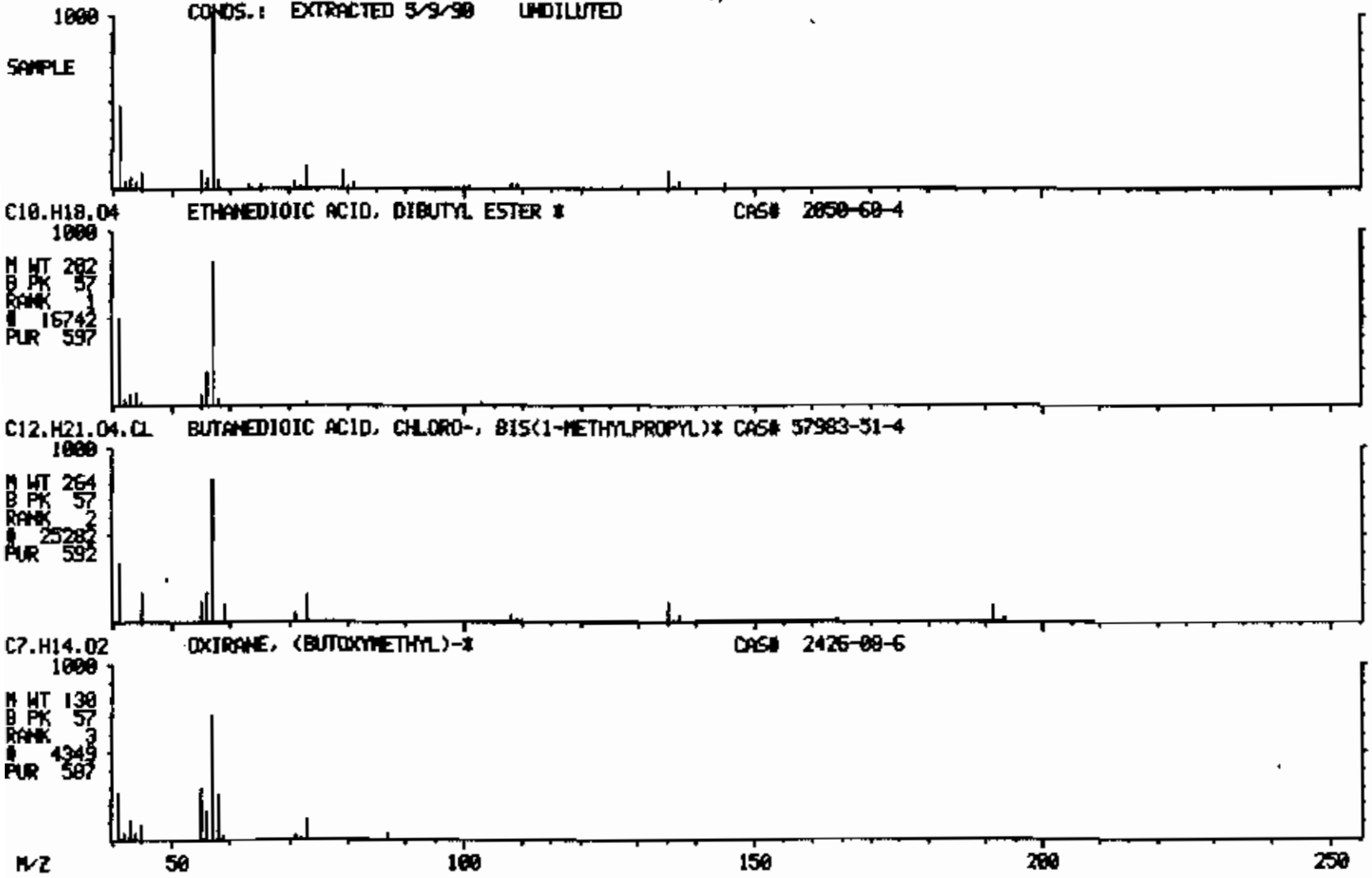
MID LIBRARY SEARCH
DATA: GM#37302C06 # 604 BASE M/Z: 84
ENHANCED (100 2H 0T) RIC: 205311.
CS#22024 OH 6



COMPUCHEM LABS, INC.

NID LIBRARY SEARCH
DATA: CH037382D86 # 630 BASE M/Z: 57
ENHANCED (100 2N 0T) RIC: 140031.
ON 6

05/11/90 2:35:00 + 9:27
SAMPLE: 1UL CC#337382 ID#73000102
CONDS.: EXTRACTED 5/9/90 UNDILUTED

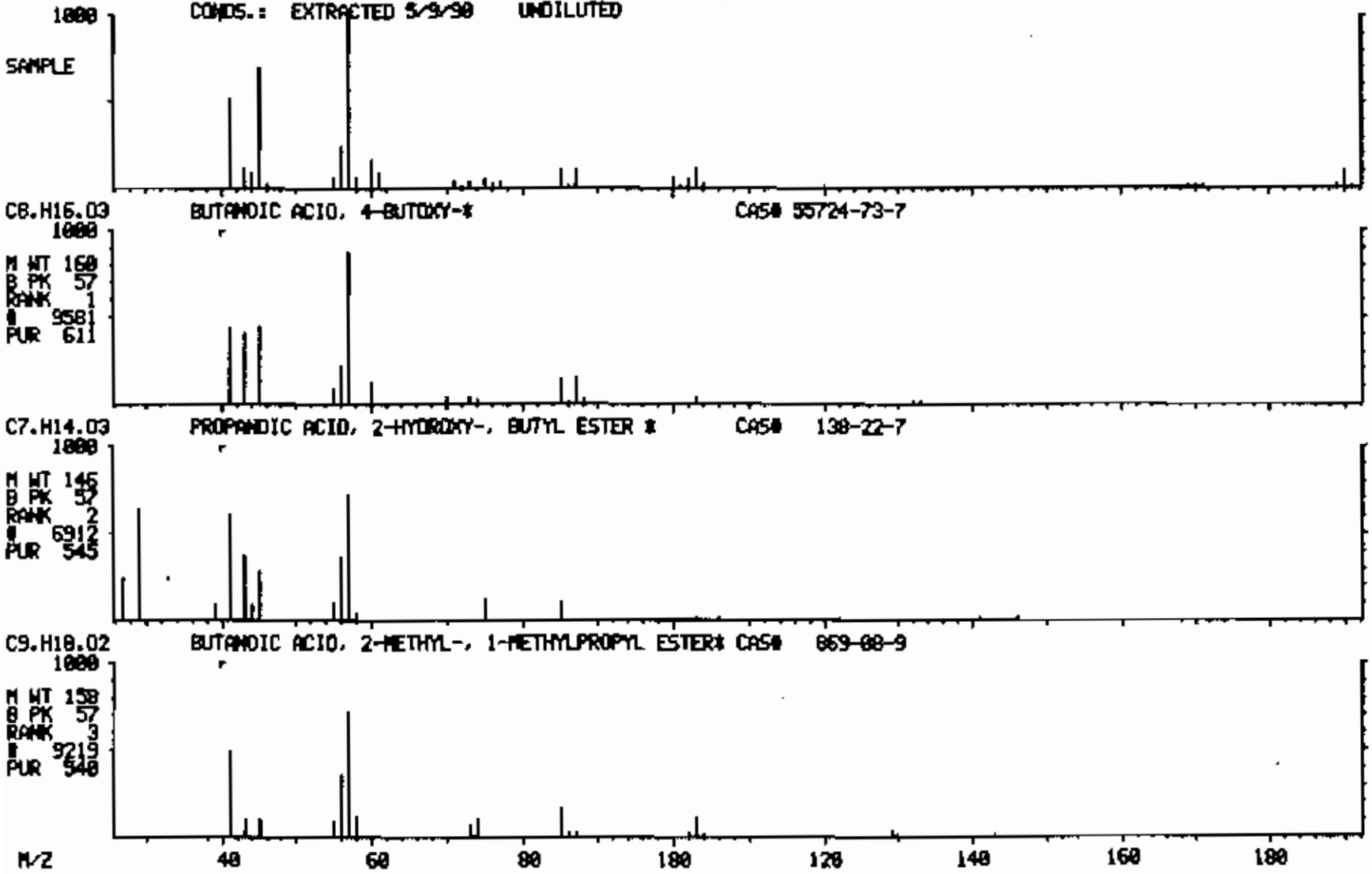


COMPUCHEM LABS, INC.
05/11/90 2:35:00 + 9:31
SAMPLE: 1UL CD#337382 10#738808182
COND5.1 EXTRACTED 5/9/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GH0373820D6 # 634
EHANCED (100 2N 0T)
CN 6
BASE M/Z: 41
RIC: 173655.
SAMPLE
C7,H12,04
2,4,8,10-TETRAOXASPIRO[5.5]UNDECANE *
CAS# 126-54-5
C4,H8,02,S
1,3,2-DIOXASOLANE, 2-ETHYL- *
CAS# 18173-38-3
C6,H10,03
FURAN, 2,5-DIHYDRO-2,5-DIMETHOXY- *
CAS# 332-77-4
M/Z
40
60
80
100
120
140
160
180

COMPUCHEM LABS, INC.

MIO LIBRARY SEARCH
DATA: GH037382C06 # 657 BASE M/Z: 57
ENHANCED (100 2N 0T) RIC: 348159.
DN 6

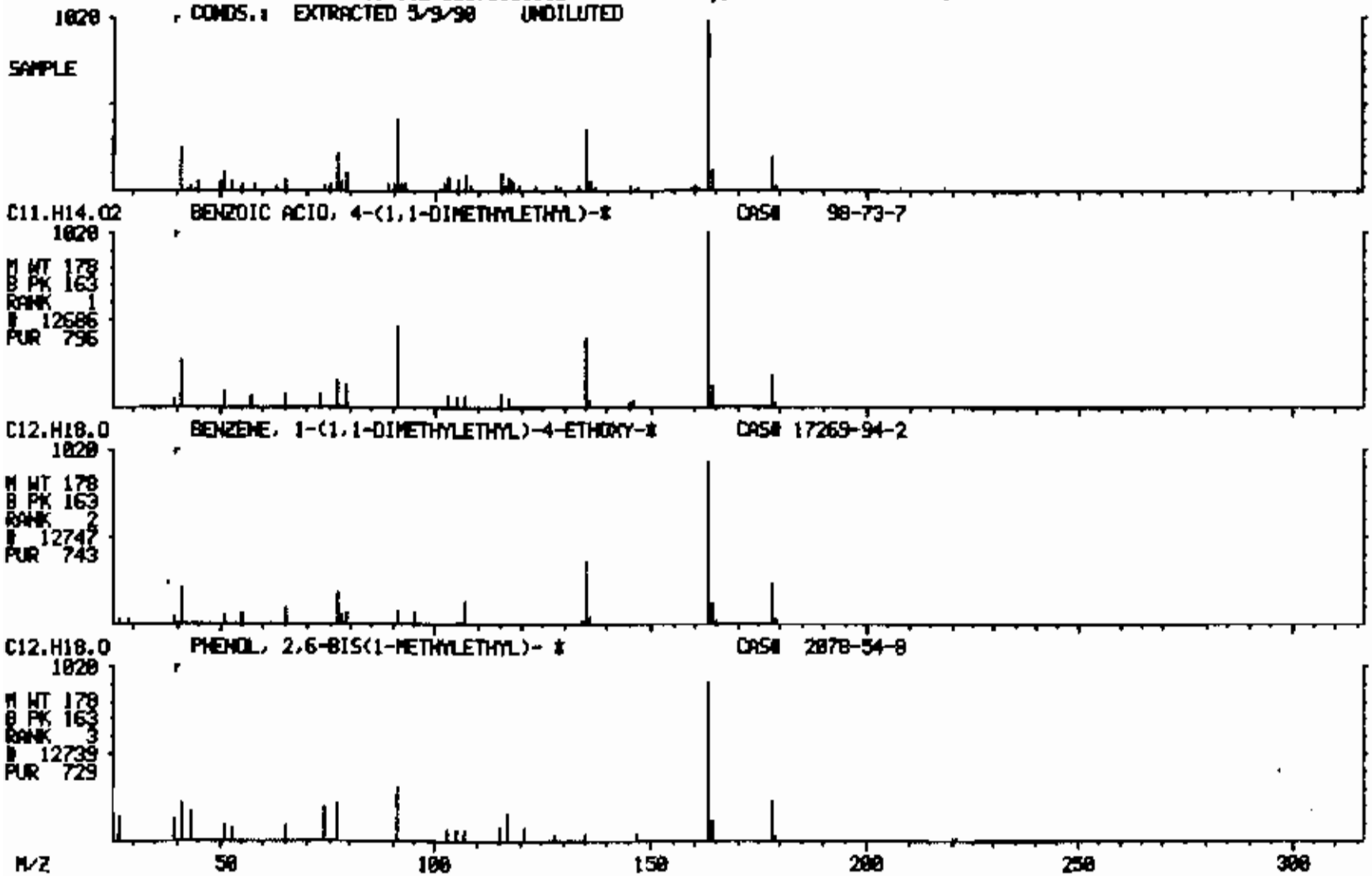
05/11/90 2:35:00 + 9:51
SAMPLE: 1UL CC#337382 ID#73000102
CONDS.: EXTRACTED 5/9/90 UNDILUTED



COMPUCHEM LABS, INC.

05/11/90 2:35:00 + 10:43
SAMPLE: 1UL CC#337382 ID#73000102
COMDS.: EXTRACTED 5/9/90 UNDILUTED

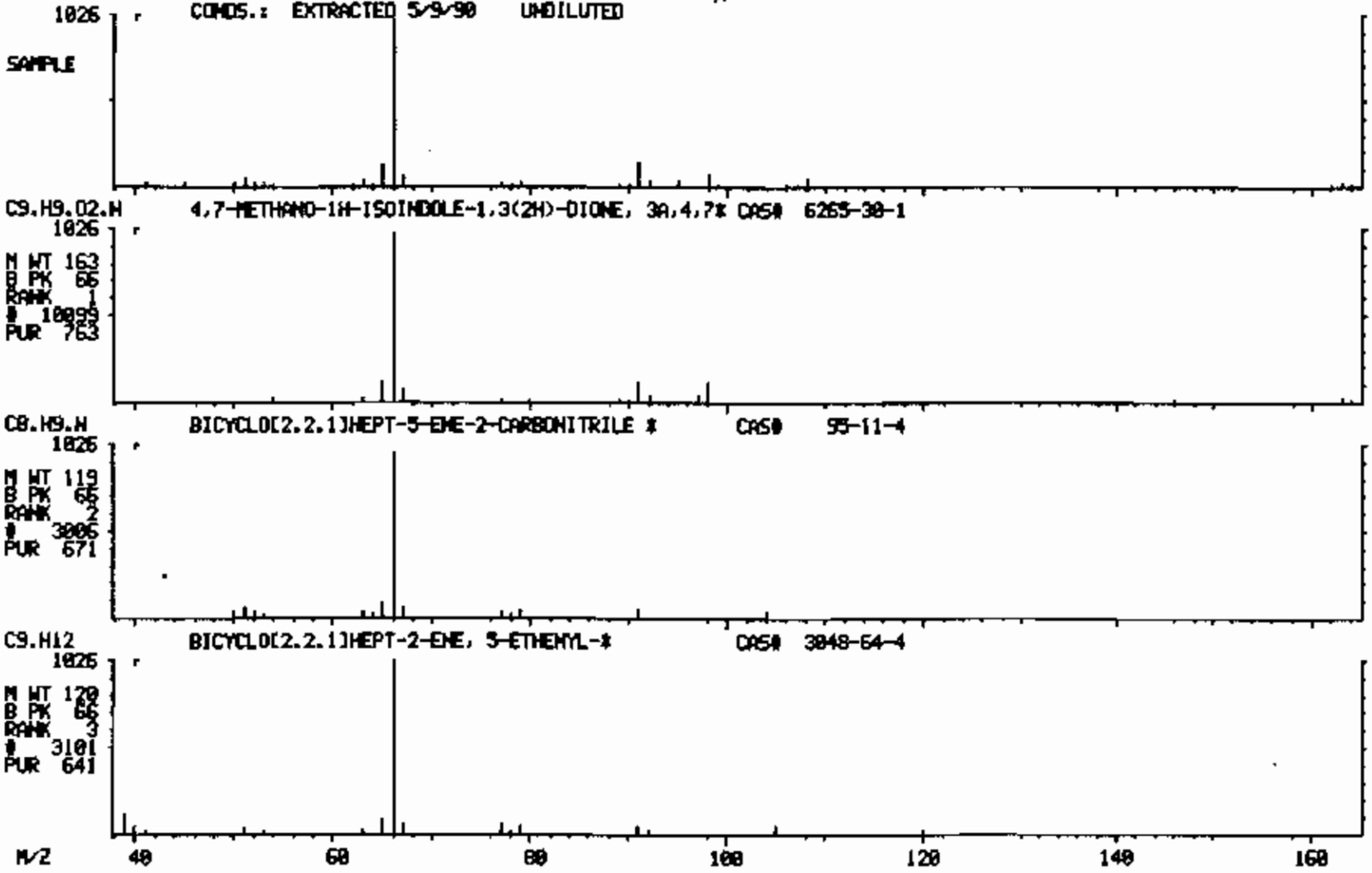
MID LIBRARY SEARCH
DATA: GH037382C86 # 714 BASE M/Z: 163
ENHANCED (100 2N 0T) RIC: 134655.
CS#21024 ON 6



COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037382C06 # 743 BASE M/Z: 66
ENHANCED (100 2H 0T) RIC: 1101690.
ON 6

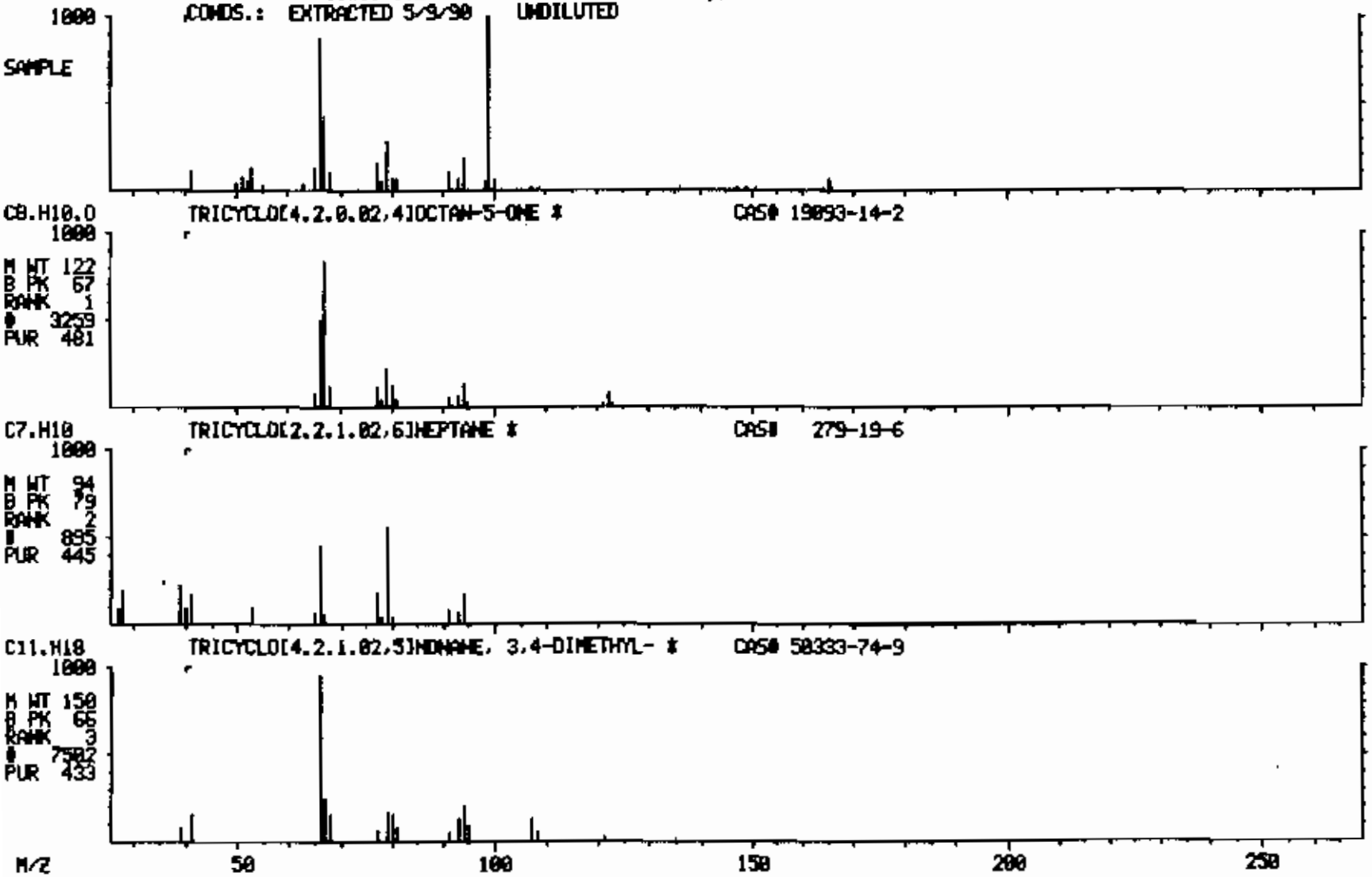
05/11/90 2:35:00 + 11:09
SAMPLE: 1UL CC#337382 ID#73800102
COMDS.: EXTRACTED 5/9/90 UNDILUTED



COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037382C06 # 769 BASE M/Z: 99
ENHANCED (100 ZN 0T) RIC: 326143.
ON 6

05/11/90 2:35:00 + 11:32
SAMPLE: 1UL CC#337382 ID#73800102
CONDS.: EXTRACTED 5/9/90 UNDILUTED

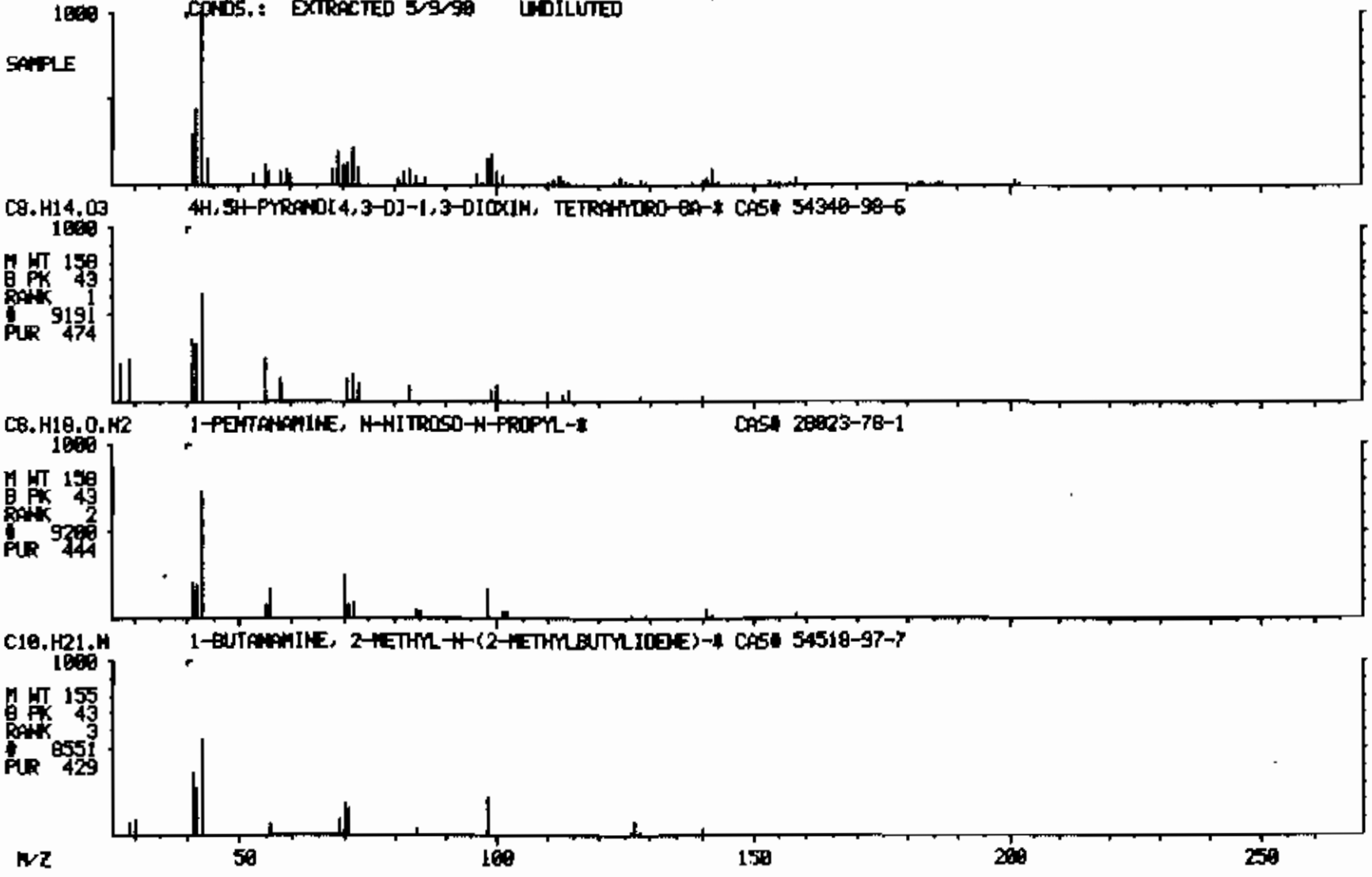


COMPUCHEM LABS, INC.
NID LIBRARY SEARCH
05/11/90 2:35:00 + 11:41
SAMPLE: 1UL CC#337382 ID#7388102
COMS.: EXTRACTED 5/9/90 UNDILUTED
DATA: GH037382D06 # 779 BASE M/Z: 42
ENHANCED (100 2M 8T) RIC: 986239.
CS#24024 ON 6
SAMPLE
1168
C7.H13.0.N
1168
3-QUINUCLIDINOL *
M HT 127 42
B PK 42 1
BANK * 3831
PUR 453
DB# 1619-34-7
C10.H21.N
1168
1-BUTANAMINE, 2-METHYL-N-(2-METHYLBUTYLIDENE)-* DB# 54510-97-7
M HT 155 43
B PK 43 2
BANK * 6551
PUR 433
C5.H12.0.N2
1168
1H-AZEPINE, HEXAHYDRO-1-NITROSO-*
DB# 932-83-2
M HT 128 41
B PK 41 3
BANK * 3917
PUR 483
M/Z
40
60
80
100
120
140
160
180

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037362C06 # 001 BASE M/Z: 43
ENHANCED (100 2N 0T) RIC: 1069050.
ON 6

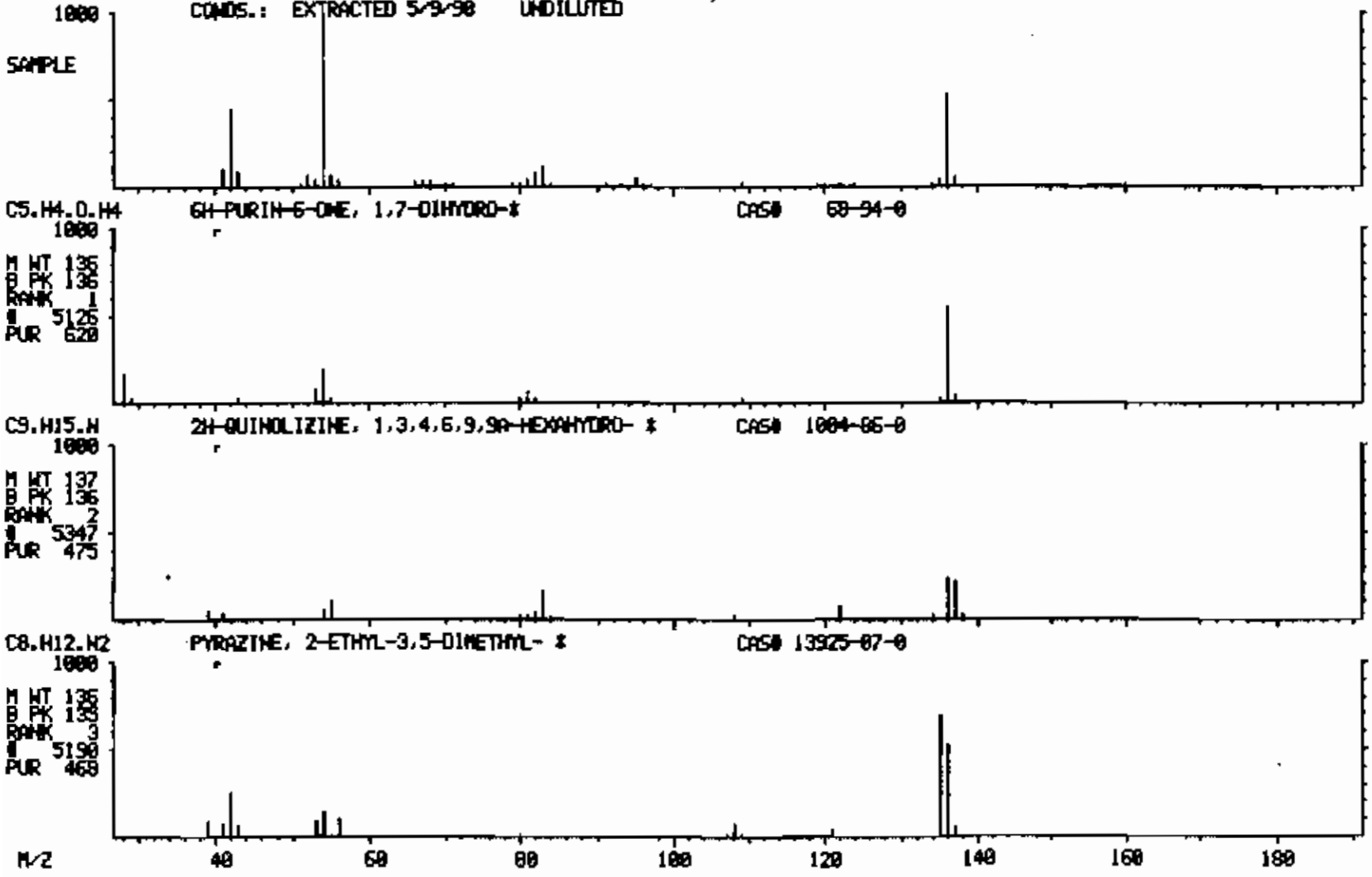
05/11/90 2:35:00 + 12:01
SAMPLE: 1UL CC#337382 ID#73000102
CONDS.: EXTRACTED 5/9/90 UNDILUTED



COMPUCHEM LABS, INC.

05/11/90 2:35:00 + 12:54
SAMPLE: 1UL CC#337382 ID#73000102
COMDS.: EXTRACTED 5/9/90 UNDILUTED

MID LIBRARY SEARCH
DATA: CH#37382C05 # 860 BASE M/Z: 54
ENHANCED (100 2N 0T) RIC: 325119.
CS#2024 ON 6



LAB INSTRUCTIONS:

PPS#: _____

CASE#RA090 SDG# 0507

MAST 5-6

RECEIPT DATE: 05/09/90 CASE#: 20124

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 337382

J[ ] J3[ ] D[ ] (:1)

2J[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER;3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800102

GC/MS ANALYSIS

Volumes mixed: BN 400 ul Acid _____ ul

Internal Standard Volume Added 5.✓ ul

Mixed Sample Volume Injected 1.0 ul

Date Sample Bottle Analyzed 5/10/90

DFTPP Filename DF905 10B06 Disk ( )

Standard Filename HG905 10B06 Disk ( )

Sample Filename GH037382C06 Disk ( )

[redacted]

ANALYST(S): Injection 9.1 GLS Work-up 9.1

GC/MS REVIEW

CONDITION CODE 1

Extraneous Peak Search Results:

# of Peaks Found: 20

# of Hits: 3

# of Surrogate Outliers: 2

Quality Assurance Notice(s):

Notices Required 0

Disposition:

[✓] Complete

[ ] Reinjection required

[ ] Reextraction required

[ ] Dilute (:1)

[ ] Reinject Neat

[ ] Send to QA

COMMENTS:

#GC/MS Review S. Hewitt 5/19/90 Date 5/11/91 Auditor [signature] Date 5/31/90

REPORT INTEGRATION Total # of Injections: _____

Final Reportable Package(s): GR037382C07 / GH037382C06

QA COMMENTS:

Initials_____ Date____/____/____

FINAL REVIEW: Initials_____ Date____/____/____

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: A.B.D. Annette Downing

DATE ASSIGNED 5/10/90

EMP ID NUMBER 1733

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL.(ml) SV B/N	FINAL EXTRACT VOL.(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337386	-079	26124		SS	337383	2B3	500ml	1.0ml		13	1	500/477 Use 500ml sample volume for SS only
2	337387				SS	337383	2B3	500ml	1.0ml		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337388				*BS			1,000ml	1.0ml		13	1	Conc. to 0.5ml final volume
4	337381			738 00101			1B3	1,000ml	1.0ml		13	1	* add 1.0 ml validation spike to BS only
5	337382			73800 102			2B3	1,000ml	1.0ml		13	1	use 337381 B3, B3, MS for QC
6	337383			73800 103			1B3	1,000 ml	1.0ml		13	1	
7	337385			73800 104			2B3	1,000ml	1.0ml		13	1	
8	337311		20071	GKIS			1B3	1,000ml	1.0ml		13	1	
9	337312			EP6D			2B3	1,000ml	1.0ml		13	1	
10	335591R		20015	RCB-D BASIN			#2	1,000ml	1.0ml		13	1	
11													
12													
13	337915			SBLK 76	B1			1,000ml	1.0ml		13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0ml				
	LOT	31922				
SPIKE	NO.		3012	2021		valid spike
	AMT.		1.0ml	1.0ml		2028 1.0
	LOT		31880	31881		31338

MANUAL COUNTER 510/886

FINAL VOLUME VERIFIED Annette S. Downing

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY C. Lantz 5/10

SURROGATE & SPIKE ADDED CORRECTLY DP 5/10/90 (INT / DATE)

ISSUED BY: 1733

1161

NYDEC RA090 0507 ORGANIC

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS0	466	165000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G10			1.3	1J	1
481	79		PYRIDINE (Z901)				BDL	1
509	69		ETHYLMATHACRYLATE (Z902)			~~2.6~~	~~4J~~ BDL	1
542	89		PARALDEHYDE (Z903)			2.9	3J	1
510	93		2-PICOLINE (Z9056)				BDL	2
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1
543	80		METHYL METHANE SULFONATE (Z				BDL	1
499	102		N-NITROSODIETHYLAMINE (Z906				BDL	1
514	109		ETHYL METHANESULFONATE (Z90				BDL	1
610	94		PHENOL (G103)				BDL	1
473	93		ANILINE (G104)				BDL	1
505	167		PENTACHLOROETHANE (Z908)				BDL	1
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	2
601	128		2-CHLOROPHENOL (G106)				BDL	1
421	146		1,3-DICHLOROBENZENE (G107)				BDL	1
506	91		BENZYL CHLORIDE (Z909)				BDL	1
422	146		1,4-DICHLOROBENZENE (G108)				BDL	1
474	108		BENZYL ALCOHOL (G109)				BDL	1
420	146		1,2-DICHLOROBENZENE (G1010)				BDL	1
620	108		2-METHYLPHENOL (G1011)				BDL	1
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	1
621	108		3-METHYLPHENOL (F102)				BDL	1
622	108		4-METHYLPHENOL (G1013)				BDL	1
528	100		N-NITROSOPYRROLIDINE (Z9010				BDL	1
544	116		N-NITROSOMORPHOLINE (Z9012)				BDL	1
500	105		ACETOPHENONE (Z9011)				BDL	1
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	1
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	1
436	117		HEXACHLOROETHANE (G1015)				BDL	1
460	136	I	D8-NAPHTHALENE (IS02)	573	526000	40.0		
440	77		NITROBENZENE (G1016)				BDL	1
502	114		N-NITROSODIPIPERIDINE (Z901				BDL	1
438	82		ISOPHORONE (G202)				BDL	1
603	107		2,4-DIMETHYLPHENOL (G204)				BDL	1
606	139		2-NITROPHENOL (G203)				BDL	1
451	180		1,3,5-TRICHLOROBENZENE (Z90				BDL	1
518	125		BENZAL CHLORIDE (Z9016)				BDL	1
625	122		BENZOIC ACID (G205)			2.4	2J	10
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	1
602	162		2,4-DICHLOROPHENOL (G207)				BDL	1
446	180		1,2,4-TRICHLOROBENZENE (G20				BDL	1
439	128		NAPHTHALENE (G209)				BDL	1

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-19-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (G2010)				BDL	1
631	162		2,6-DICHLOROPHENOL (Z9018)				BDL	2
524	108		O-PHENYLENEDIAMINE (Z9019)			~~49.0~~	~~49~~ BDL	1
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	1
537	213		HEXACHLOROPROPENE (Z9021)				BDL	1
434	225		HEXACHLOROBUTADIENE (G2011)				BDL	1
450	180		1,2,3-TRICHLOROBENZENE (Z90				BDL	1
534	159		BENZOTRICHLORIDE (Z9023)				BDL	2
536	84		N-NITROSO-DI-N-BUTYLAMINE (			~~26.0~~	~~26~~ BDL	1
608	107		P-CHLORO-M-CRESOL (G2012)				BDL	1
526	108		P-PHENYLENEDIAMINE (Z9020)				BDL	1
503	162		SAFROLE (Z9027)				BDL	1
525	108		M-PHENYLENEDIAMINE (Z9026)			~~27.6~~	~~28~~ BDL	1
477	142		2-METHYLNAPHTHALENE (G2B13)				BDL	1
569	142		1-METHYLNAPHTHALENE (T2028)				BDL	1
495	164	I	D10-ACENAPHTHENE (IB03)	727	357000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZIENE				BDL	1
513	216		1,2,3,5-TETRACHLOROBENZIENE				BDL	1
439	236		HEXACHLOROCYCLOPENTADIENE (				BDL	1
611	196		2,4,6-TRICHLOROPHENOL (G303				BDL	2
626	196		2,4,5-TRICHLOROPHENOL (G304				BDL	2
527	162		ISOSAFROLE (Z9030)				BDL	2
416	162		2-CHLORONAPHTHALENE (G305)				BDL	1
564	162		1-CHLORONAPHTHALENE (F402)				BDL	1
456	216		1,2,3,4-TETRACHLOROBENZIENE				BDL	1
478	65		2-NITROANILINE (G306)				BDL	1
504	158		1,4-NAPTHOQUINONE (Z9032)				BDL	2
491	168		1,4-DINITROBENZIENE (F302)				BDL	2
425	163		DIMETHYL PHTHALATE (G307)				BDL	1
428	165		2,6-DINITROTOLUENE (G3015)				BDL	1
402	152		ACENAPHTHYLENE (G308)				BDL	1
479	138		3-NITROANILINE (G309)				BDL	2
401	153		ACENAPHTHENE (G3010)				BDL	1
605	184		2,4-DINITROPHENOL (G3011)				BDL	4
607	109		4-NITROPHENOL (G3012)			~~2.3~~	~~2~~ BDL	1
427	165		2,4-DINITROTOLUENE (G3014)				BDL	1
476	168		DIBENZOFURAN (G3013)				BDL	1
307	250		PENTACHLOROBENZIENE (Z9033)				BDL	1
484	143		2-NAPHTHYLAMINE (Z9035)				BDL	2
483	143		1-NAPHTHYLAMINE (Z9036)				BDL	2
630	231		2,3,4,6-TETRACHLOROPHENOL (				BDL	2
424	149		DIETHYL PHTHALATE (G3016)				BDL	1
519	97		ZINOPHOS (Z9038)				BDL	1

CORRECTED/REVIEWED BY J. Merrill
(GC/MS DATA REVIEWER)

DATE 5-19-90

COMPUCHEM # 037382 FILE: QH037382C06 COMPOUND LIST 170 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)	
417	204		4-CHLORDPHENYL PHENYL ETHER				BDL		1
432	166		FLUORENE (03018)				BDL		1
480	138		4-NITROANILINE (03019)			L-3	1st BDL		2
498	152		5-NITRO-O-TOLUIDINE (29034)				BDL		2
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL		1
467	188	I	D10-PHENANTHRENE (1804)	855	348000	40.0			
499	240	I	D12-CHRYSENE (1805)	1092	399000	40.0			
497	264	I	D12-PERYLENE	1259	274000	40.0			
619	112	S	2-FLUORDPHENOL (9801)			2.8	1.%		
612	99	S	D5-PHENOL (9802)			2.0	1.%		
447	82	S	D5-NITROBENZENE (9803)			79.6	80.%		
448	172	S	2-FLUOROBIPHENYL (9804)			69.4	69.%		
628	330	S	2,4,6-TRIBROMOPHENOL (9805)			42.7	21.%		
471	212	S	D10-PYRENE			109.0	109.%		
496	244	S	D14-TERPHENYL (9806)			105.0	105.%		
CHECKSUM8:									
14268.				4972	2269000.	768.9		118.	

CORRECTED/REVIEWED BY S. Hewitt
(QC/MS DATA REVIEWER)

DATE 5-19-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	2.8	200.0	1.	21-100		)
96	612	D5-PHENOL (SS#2)	2.0	200.0	1.	10- 94		)
97	447	D5-NITROBENZENE (SS#3)	79.6	100.0	80.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	69.4	100.0	69.	43-116	X	
99	629	2,4,6-TRIBROMOPHENOL (SS#5)	42.7	200.0	21.	10-123	X	
#1	471	D10-PYRENE	109.0	100.0	109.	40-130*	X	
#1	496	D14-TERPHENYL (SS#6)	105.0	100.0	105.	33-141	X	

\# ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

2✓

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ ML}{1000.\ ML} \times 1.0ML \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ UL}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ UL}{1000\ UL} \times 1.0ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY J. Bonelli
(QC/MS DATA REVIEWER)

DATE 5-19-20

COMPUCHEM # 037382 FILE: GH037382C06 COMPOUND LIST 173 PAGE :
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	855	548000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3(
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	1(
567	169		DIPHENYLAMINE (F3#3)				BDL	1(
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	2(
539	108		PHENACETIN (Z9#42)				BDL	1(
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1(
577	234		DIALLATE (TRANS ISOMER)				BDL	1(
541	125		DIMETHOATE (Z9#44)				BDL	1(
433	284		HEXACHLOROBENZENE (G4#5)				BDL	1(
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	1(
522	173		PRONAMIDE (Z9#46)				BDL	1(
609	266		PENTACHLOROPHENOL (G4#6)				BDL	2(
453	236		PENTACHLORONITROBENZENE (Z9				BDL	1(
444	178		PHENANTHRENE (G4#7)				BDL	1(
403	178		ANTHRACENE (G4#8)				BDL	1(
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	1(
516	97		METHAPYRILENE (Z9#48)				BDL	2(
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	5(
431	202		FLUORANTHENE (G4#10)				BDL	1(
459	240	I	D12-CHRYSENE (IS#3)	1092	399000	40.0		
404	184		BENZIDINE (G5#2)				BDL	1(
445	202		PYRENE (G5#3)				BDL	1(
530	185		ARAMITE (Z9#50)			1.6	2.4 BDL	2(
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1(
523	139		CHLOROBENZILATE (Z9#52)				BDL	1(
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	2(
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	1(
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	1(
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1(
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	1(
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	1(
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	1(
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	1(
418	228		CHRYSENE (G5#8)				BDL	1(
497	264	I	D12-PERYLENE	1259	274000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	1(
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	1(
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1(
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	1(
406	252		BENZO(A)PYRENE (G6#5)				BDL	1(
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	1(
566	279		DIBENZO(A,J)ACRIDINE				BDL	1(

CORRECTED/REVIEWED BY S. Hamil
(QC/MS DATA REVIEWER)

DATE 5-19-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	1C
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	1C
408	276		#ENZO(G,H,I)PERYLENE (G6#8)				BDL	1C
576	234		DIALLATE (CIS ISOMER)				BDL	1C
531	234		DIALLATE (TOTAL)				BDL	1C
CHECKSUMS:								
10114.				3206	1221000.	121.6		2.

CORRECTED/REVIEWED BY A. Meanly
(QC/MS DATA REVIEWER)

DATE 5-19-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY S. Hoult
(QC/MS DATA REVIEWER)

DATE 5-19-90

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800102RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337382

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037382C07

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/16/90

Extraction: (SapF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	2	J
123-63-7	Paraldehyde	2	J
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3	1,3,5-Trichlorobenzene	10 U
98-87-3	Benzal chloride	10 U
65-85-0	Benzoic Acid	2 J
111-91-1	bis(2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U
87-65-0	2,6-Dichlorophenol	20 U
95-54-5	o-Phenylenediamine	10 U
122-09-8	dimethylphenylethylamine	10 U
1888-71-7	Hexachloropropene	10 U
87-68-3	Hexachlorobutadiene	10 U
87-61-6	1,2,3-Trichlorobenzene	10 U
98-07-7	Benzotrichloride	20 U
924-16-3	N-Nitroso-di-n-butylamine	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
106-50-3	P-Phenylenediamine	10 U
94-59-7	Safrole	10 U
106-50-3	m-Phenylenediamine	10 U
91-57-6	2-Methylnaphthalene	10 U
90-12-0	1-Methylnaphthalene	10 U
95-94-3	1,2,4,5-Tetrachlorobenzene	10 U
634-90-2	1,2,3,5-Tetrachlorobenzene	10 U
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	20 U
95-95-4	2,4,5-Trichlorophenol	20 U
120-58-1	Isosafrole	20 U
91-58-7	2-Chloronaphthalene	10 U
90-13-1	1-Chloronaphthalene	10 U
634-66-2	1,2,3,4-Tetrachlorobenzene	10 U
88-74-4	2-Nitroaniline	10 U
130-15-4	1,4-Naphthoquinone	20 U
100-25-4	1,4-Dinitrobenzene	20 U
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800102RE

Lab Name: COMPUCHEM LABS Contract: 12-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337382

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037382C07

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/16/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5--------Methapyrilene	20	U
50-18-0--------Cyclophosphamide	50	U
206-44-0--------Fluoranthene	10	U
92-87-5--------Benzidine	10	U
129-00-0--------Pyrene	10	U
140-57-8--------Aramite	20	U
60-11-7--------p-Dimethylaminoazobenzene	10	U
510-15-6--------Chlorobenzilate	10	U
119-93-7--------3,3'-Dimethylbenzidine	20	U
85-68-7--------Butylbenzylphthalate	10	U
53-96-3--------2-Acetylaminofluorene	10	U
101-14-4--------Methylene-bis(2-chloroaniline	10	U
91-94-1--------3,3'-Dichlorobenzidine	10	U
106-51-4--------3,3'-Dimethoxybenzidine	10	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
57-97-6--------7,12-Dimethylbenzanthracene	10	U
207-08-9--------Benzo(k)Fluoranthene	10	U
50-32-8--------Benzo(a)Pyrene	10	U
56-49-5--------3-Methylcholanthrene	10	U
224-42-0--------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800102RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REV8

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337382

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037382C07

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. dec. Date Extracted: 05/16/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: Dilution Factor: 0.50

Number TICs found: 17

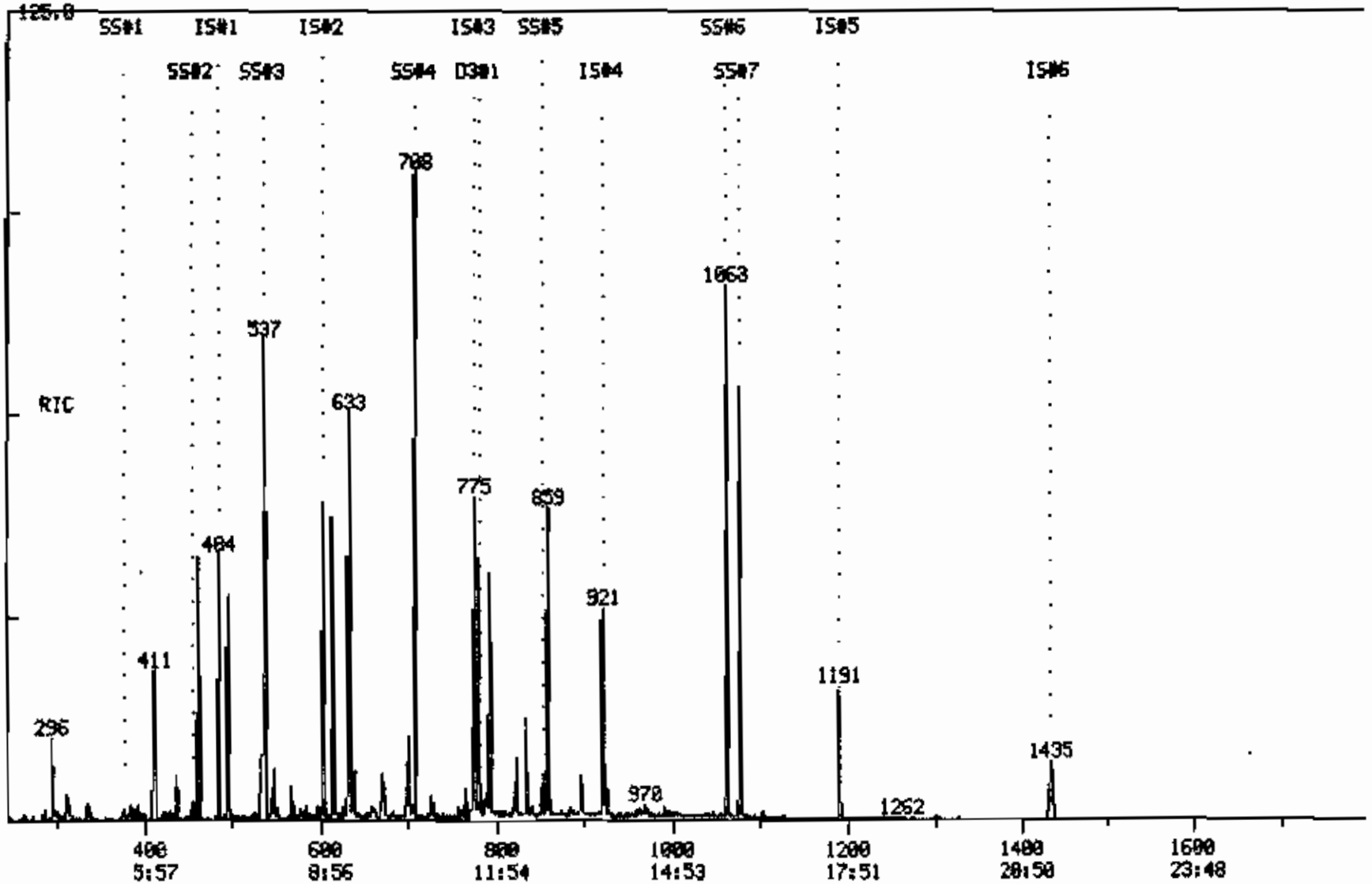
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.43	17	J
2.		UNKNOWN	6.15	45	J
3.		UNKNOWN	6.53	8.0	J
4.		UNKNOWN	6.92	51	J
5.	78-67-1	PROPANENITRILE, 2,2'-AZOBIS[	7.42	40	J
6.		UNKNOWN	8.20	8.0	J
7.	126-54-5	2,4,8,10-TETRAOXASPIRO[5.5]U	9.22	44	J
8.	2873-97-4	2-PROPENAMIDE, N-(1,1-DIMETH	9.49	67	J
9.		UNKNOWN	9.59	11	J
10.		UNKNOWN	10.05	13	J
11.		UNKNOWN	10.50	12	J
12.	6265-30-1	4,7-METHANO-1H-ISOINDOLE-1,3	11.89	47	J
13.		UNKNOWN	12.32	10	J
14.		UNKNOWN	12.49	15	J
15.		UNKNOWN	12.89	44	J
16.		UNKNOWN	13.45	7.0	J
17.		UNKNOWN	13.87	9.0	J

COMPUCHEM LABS

RIC
05/18/90 3:08:00
SAMPLE: 1UL CC#337382 ID#73000102 AE [illegible] CS#20124 ON 7
CONDS.: EXTRACTED 5/16/90 UNDILUTED

COMPUCHEM DATA: GR037382D07 SCANS 245 TO 1795
OUT OF 245 TO 1933



NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS

RIC COMPUCHEM DATA: CR037382C07 SCANS 1795 TO 1933
05/18/90 3:00:00 OUT OF 245 TO 1933
SAMPLE: 1UL CC#337382 ID#73800102 RL 7.00 CS#20124 ON 7
CONDS.: EXTRACTED 5/16/90 UNDILUTED

4223990.

SCAN
TIME

QUANTITATION REPORT FILE: GR037382C07
DATA: GR037382C07.TI
05/18/90 3:08:00
SAMPLE: 1UL CC#337382 ID#73800102 RE Mann CS#20124 ON 7
CONDS.: EXTRACTED 5/16/90 UNDILUTED
SUBMITTED BY: 7 ANALYST: 917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IB#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMETHACRYLATE (T1#4)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (O1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (IB#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSODIPIPERIDINE (Z9#14)
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	479 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (I8#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	439 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	827 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	496 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	429 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 FENOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (I8#4)
93	*459 D12-CHRYSENE (I8#5)
94	*497 D12-PERYLENE (I8#6)
95	#619 2-FLUOROPHENOL (S8#1)
96	#612 D5-PHENOL (S8#2)
97	#447 D5-NITROBENZENE (S8#3)
98	#448 2-FLUOROBIPHENYL (S8#4)
99	#628 2,4,6-TRIBROMOPHENOL (S8#5)
100	#471 D10-PYRENE (S8#6)
101	#496 D14-TERPHENYL (S8#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	132	484	7:12	1	1.000	A BB	362792.	40.000	NG	5.84
2	42	263	3:55	1	0.543	A*BB	10204.	1.779	NG	0.26 Y
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	302	4:30	1	0.624	A BB	5636.	2.319	NG	0.34 Y
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	43	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	603	8:58	31	1.000	A BB	1050900.	40.000	NG	5.84
32	77	537	7:59	31	0.891	A BB	12748.	1.006	NG	0.15 NO
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	129	NOT FOUND								
39	122	977	9:39	31	0.957	A BB	12056.	2.107	NG	0.31 Y
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	603	8:58	31	1.000	A BB	151232.	44.161	NG	6.45 NO
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	775	11:32	59	1.000	A BB	560516.	40.000	NQ	5.84
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	138	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	757	11:16	59	0.977	A BB	9228.	1.974	NQ	0.29 NO
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	833	12:23	59	1.075	A VB	10909.	1.914	NQ	0.28 NO
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	920	13:41	92	1.000	A BB	781440.	40.000	NQ	5.84
93	240	1191	17:43	93	1.000	A BB	511056.	40.000	NQ	5.84
94	264	1435	21:21	94	1.000	A BB	419508.	40.000	NQ.	5.84
95	112	377	5:36	1	0.779	A BB	31872.	2.688	NQ	0.39
96	99	454	6:45	1	0.938	A BB	44040.	3.439	NQ	0.50
97	82	537	7:59	31	0.891	A BV	924092.	76.232	NQ	11.13
98	172	708	10:32	59	0.914	A BB	1329130.	72.805	NQ	10.63
99	330	853	12:41	59	1.101	A BB	32652.	15.156	NQ	2.21
100	212	1063	15:49	93	0.893	A BV	1720230.	107.411	NQ	15.69
101	244	1077	16:01	93	0.904	A BB	1533930.	111.769	NQ	16.32

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	7:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:52	1.01	10.000	0.05	1.78	50.00	0.023	0.632	0.04
3	3:52		10.000			50.00		1.218	
4	4:28		10.000			50.00		1.061	
5	4:29	1.00	10.000	0.06	2.32	50.00	0.012	0.268	0.05
6	4:51		20.000			50.00		1.218	
7	5:02		10.000			200.00		0.277	
8	5:25		10.000			50.00		0.838	
9	5:54		10.000			50.00		0.628	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:17		10.000			50.00		0.687	
11	6:47		10.000			50.00		1.825	
12	6:50		10.000			50.00		2.076	
13	6:50		10.000			50.00		0.385	
14	6:53		20.000			50.00		1.388	
15	6:59		10.000			50.00		1.508	
16	7:10		10.000			50.00		1.602	
17	7:15		10.000			50.00		2.729	
18	7:14		10.000			50.00		1.828	
19	7:24		10.000			50.00		0.805	
20	7:29		10.000			50.00		1.505	
21	7:34		10.000			50.00		1.217	
22	7:38		10.000			50.00		1.073	
23	7:46		10.000			100.00		1.335	
24	7:46		10.000			100.00		1.335	
25	7:47		10.000			50.00		0.682	
26	7:48		10.000			50.00		0.363	
27	7:47		10.000			50.00		2.018	
28	7:49		10.000			50.00		0.986	
29	7:50		10.000			50.00		1.293	
30	7:55		10.000			50.00		0.766	
31	8:59	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	8:01	1.00	10.000	0.09	1.01	90.00	0.010	0.482	0.02
33	8:14		10.000			50.00		0.212	
34	8:21		10.000			50.00		0.889	
35	8:30		10.000			50.00		0.498	
36	8:28		10.000			50.00		0.283	
37	8:29		10.000			50.00		0.426	
38	8:31		10.000			50.00		0.769	
39	8:37	1.00	100.000	0.01	2.11	50.00	0.009	0.218	0.04
40	8:39		10.000			50.00		0.467	
41	8:47		10.000			50.00		0.318	
42	8:55		10.000			50.00		0.373	
43	9:01		10.000			50.00		1.223	
44	9:06		10.000			50.00		0.499	
45	9:07		20.000			50.00		0.364	
46	8:59	1.00	10.000	0.10	44.16	50.00	0.115	0.130	0.88
47	9:16		10.000			50.00		0.078	
48	9:11		10.000			50.00		0.231	
49	9:15		10.000			50.00		0.222	
50	9:16		10.000			50.00		0.376	
51	9:21		20.000			50.00		0.469	
52	9:36		10.000			50.00		0.161	
53	9:46		10.000			50.00		0.413	
54	9:46		10.000			50.00		0.033	
55	9:53		10.000			50.00		0.281	
56	9:53		10.000			50.00		0.001	
57	10:00		10.000			50.00		1.003	
58	10:10		10.000			50.00		0.524	
59	11:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	10:18		10.000			100.00		0.643	
61	10:18		10.000			100.00		0.643	
62	10:19		10.000			50.00		0.326	
63	10:26		20.000			50.00		0.425	
64	10:29		20.000			50.00		0.385	
65	10:36		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:43		10.000			50.00		1.638	
67	10:49		10.000			50.00		0.926	
68	10:44		10.000			50.00		0.630	
69	10:53		10.000			50.00		0.404	
70	10:58		20.000			50.00		0.456	
71	11:03		20.000			50.00		0.250	
72	11:11		10.000			50.00		1.398	
73	11:17	1.00	10.000	0.10	1.97	50.00	0.013	0.334	0.04
74	11:20		10.000			50.00		1.851	
75	11:29		20.000			50.00		0.370	
76	11:36		10.000			50.00		1.264	
77	11:38		40.000			50.00		0.171	
78	11:42		10.000			50.00		0.204	
79	11:51		10.000			50.00		0.504	
80	11:50		10.000			50.00		1.640	
81	11:51		10.000			50.00		0.535	
82	11:57		20.000			50.00		0.664	
83	12:03		20.000			50.00		0.732	
84	12:03		20.000			50.00		0.277	
85	12:13		10.000			50.00		1.570	
86	12:21	1.00	10.000	0.11	1.91	50.00	0.016	0.407	0.04
87	12:19		10.000			50.00		0.569	
88	12:20		10.000			50.00		1.452	
89	12:23		20.000			50.00		0.366	
90	12:23		20.000			50.00		0.404	
91	12:33		10.000			50.00		1.944	
92	13:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	17:45	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	21:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:36	1.00	0.742	1.05	2.69	50.00	0.070	1.307	0.05
96	6:46	1.00	0.948	0.99	3.44	50.00	0.102	1.476	0.07
97	8:00	1.00	0.875	1.02	76.23	50.00	0.703	0.461	1.52
98	10:33	1.00	0.906	1.01	72.80	50.00	1.897	1.303	1.46
99	12:42	1.00	1.118	0.98	15.16	50.00	0.047	0.154	0.30
100	15:50	1.00	10.000	0.09	107.41	50.00	2.693	1.254	2.15
101	16:02	1.00	0.907	1.00	111.77	50.00	2.404	1.076	2.24

QUANTITATION REPORT FILE: QR037382C07
DATA: QR037382C07.TI
05/18/90 3:08:00
SAMPLE: IUL CC#337382 ID#73800102 RE [illegible] CS#20124 DN 7
CONDS.: EXTRACTED 5/16/90 UNDILUTED
SUBMITTED BY: 7 ANALYST: 917

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

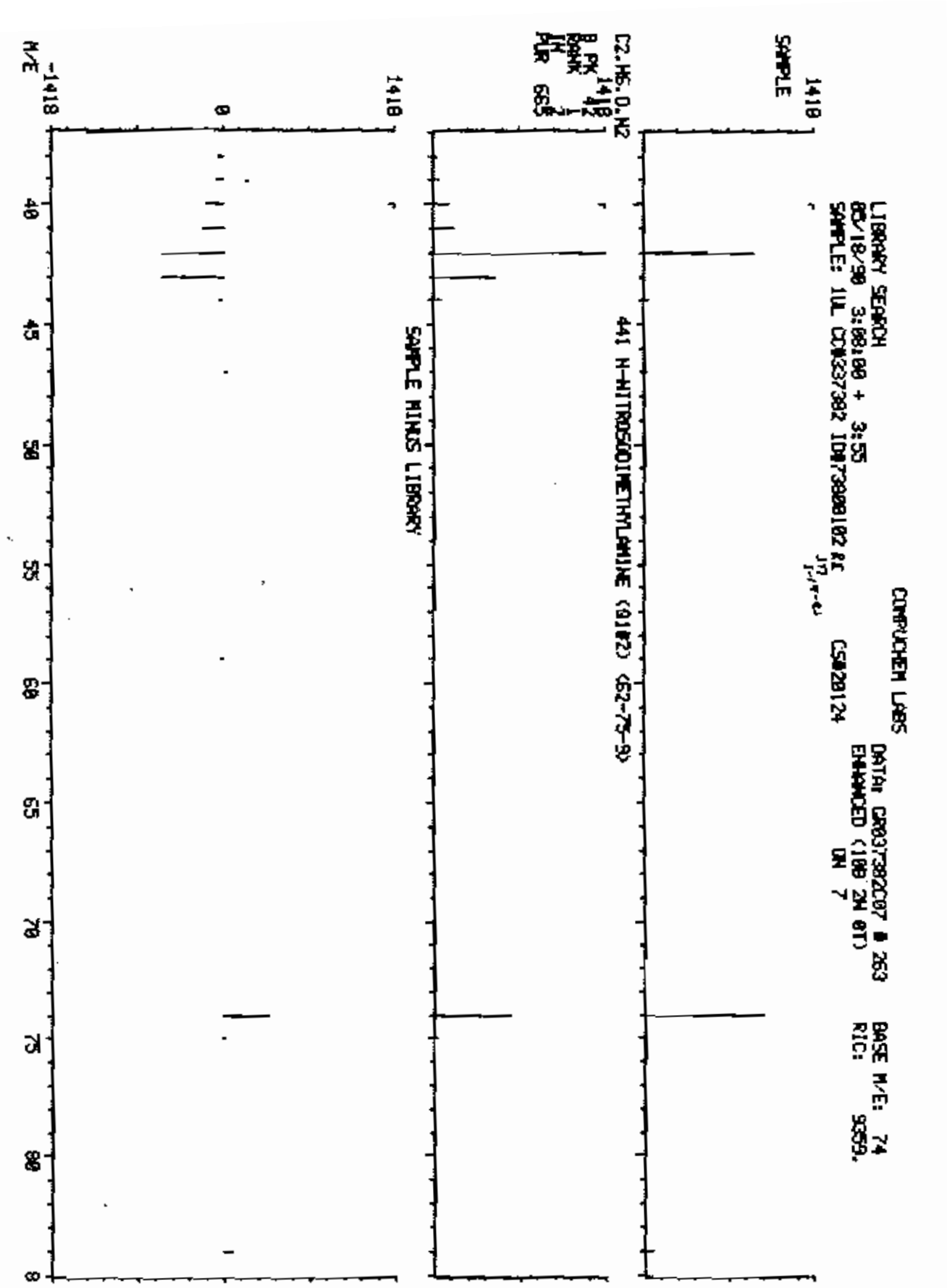
NO	NAME
1	*467 D10-PHENANTHRENE (IS#4)
2	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
4	567 DIPHENYLAMINE (F3#3)
5	908 1,3,5-TRINITROBENZENE (Z9#41)
6	539 PHENACETIN (Z9#42) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9#44)
10	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9#45)
12	522 PRONAMIDE (Z9#46)
13	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9#47)
15	444 PHENANTHRENE (G4#7) <85-01-8>
16	403 ANTHRACENE (G4#8) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
18	516 METHAPYRILENE (Z9#48)
19	549 CYCLOPHOSPHAMIDE (Z9#49)
20	431 FLUORANTHENE (G4#10) <206-44-0>
21	*499 D12-CHRYSENE (IS#5)
22	404 BENZIDINE (G5#2) <92-87-5>
23	445 PYRENE (G5#3) <129-00-0>
24	530 ARAMITE (Z9#50) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
26	523 CHLOROBENZILATE (Z9#52)
27	945 3,3'-DIMETHYLBENZIDINE (Z9#53)
28	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F3#2)
30	489 4,4'-METHYLENE-BIS(2-CHLORDANILINE) (Z9#54)
31	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9#57)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
35	418 CHRYSENE (G5#8) <218-01-9>
36	*497 D12-PERYLENE (IS#6)
37	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
40	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
41	406 BENZO(A)PYRENE (G6#5) <50-32-8>
42	565 3-METHYLCHLORANTHRENE (F6#2)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	920	13:41	1	1.000	A BB	781440.	40.000	NQ	33.34
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1191	17:43	21	1.000	A BB	511056.	40.000	NQ	33.34
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	NOT FOUND								
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	226	NOT FOUND								
36	264	1439	21:21	36	1.000	A BB	419508.	40.000	NQ.	33.34
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	13:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	12:27		30.000			50.00		0.163	
3	12:30		10.000			100.00		0.772	
4	12:30		10.000			100.00		0.772	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
5	12:56		20.000			50.00		0.101	
6	12:58		10.000			50.00		0.485	
7	13:02		10.000			50.00		0.233	
8	13:05		10.000			25.00		0.171	
9	13:14		10.000			50.00		0.168	
10	13:15		10.000			50.00		0.291	
11	13:25		10.000			50.00		0.608	
12	13:32		10.000			50.00		0.397	
13	13:30		20.000			50.00		0.191	
14	13:38		10.000			50.00		0.104	
15	13:45		10.000			50.00		1.312	
16	13:49		10.000			50.00		1.158	
17	14:35		10.000			50.00		1.644	
18	15:02		20.000			50.00		0.284	
19	15:20		50.000			200.00		0.048	
20	15:31		10.000			50.00		1.074	
21	17:45	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	15:41		10.000			50.00		0.197	
23	15:51		10.000			50.00		1.451	
24	16:00		20.000			50.00		0.132	
25	16:16		10.000			50.00		0.248	
26	16:20		10.000			50.00		0.766	
27	16:45		20.000			50.00		0.490	
28	16:47		10.000			50.00		0.889	
29	17:10		10.000			50.00		0.540	
30	17:38		10.000			50.00		0.209	
31	17:39		10.000			50.00		0.300	
32	17:36		10.000			50.00		0.162	
33	17:44		10.000			50.00		1.361	
34	17:43		10.000			50.00		1.251	
35	17:47		10.000			50.00		0.961	
36	21:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	19:02		10.000			50.00		2.016	
38	20:14		10.000			50.00		1.241	
39	20:16		10.000			50.00		0.421	
40	20:17		10.000			50.00		0.433	
41	21:14		10.000			50.00		0.976	
42	22:33		10.000			50.00		0.614	
43	24:58		10.000			50.00		0.939	
44	25:50		10.000			50.00		1.295	
45	25:57		10.000			50.00		1.078	
46	27:12		10.000			50.00		1.020	
47	13:05		10.000			25.00		0.171	

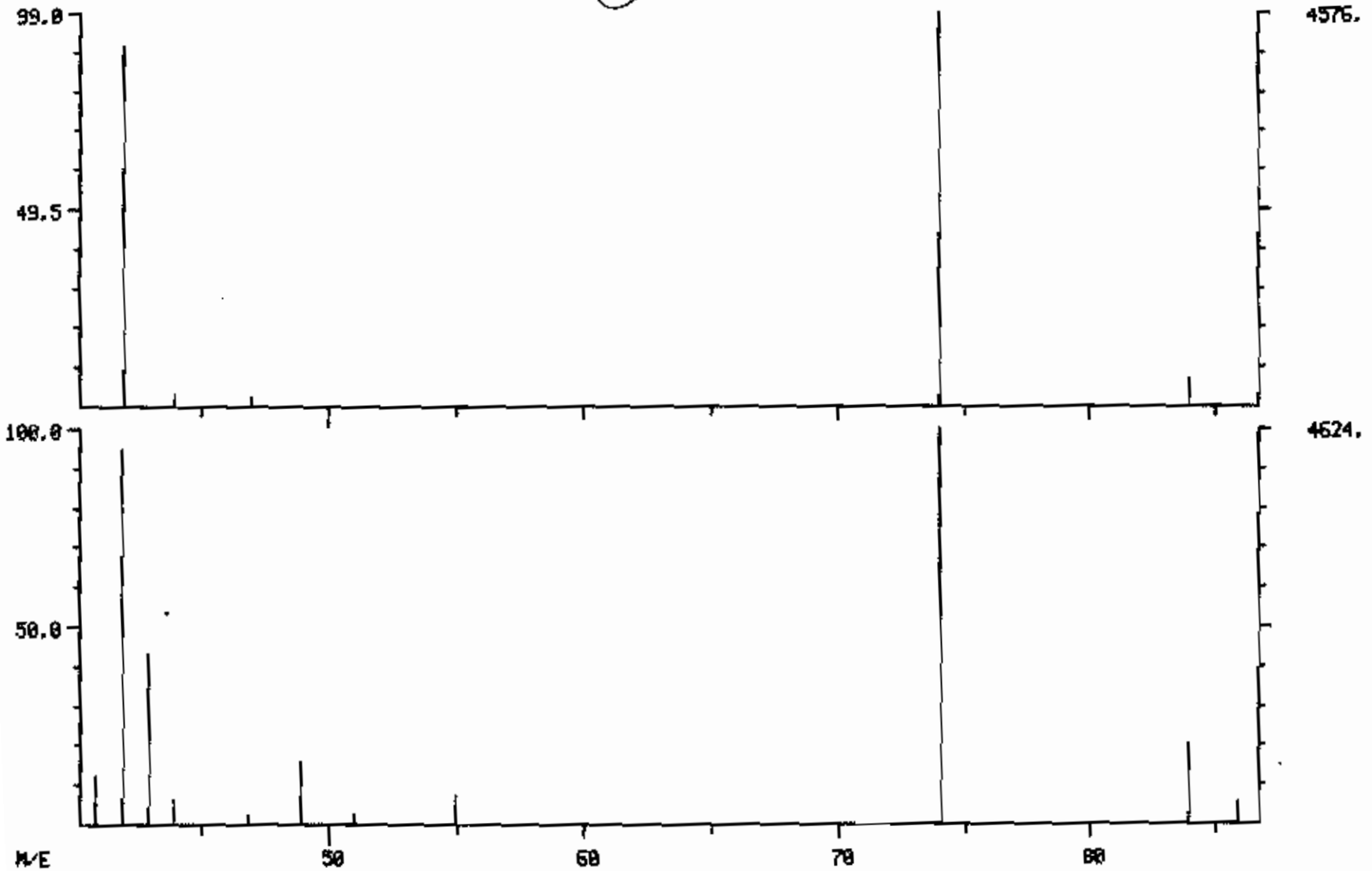

LIBRARY SEARCH
05/18/90 3:08:00 + 3:55
SAMPLE: 1UL CON237382 ID#738B102 RE
COMPUCHEM LABS
DATA: GR037382C07 # 263
ENHANCED (100 2N 0T)
CS#28124
DN 7
BASE M/E: 74
RIC: 9359.
SAMPLE
1418
C2:H5:0:N2
BASE M/E 74
RIC 9359
1418
441 N-NITROSODIETHYLAMINE (0182) <52-74-9>
1418
SAMPLE MINUS LIBRARY
M/E
-1418
0
1418
40
45
50
55
60
65
70
75
80
0

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/10/90 3:08:00 + 3:55
SAMPLE: 1UL CC#337382 ID#73800102 RE #7-*6 CS#20124

DATA: GR037382C07 #263 BASE M/E: 74/ 74
RIC: 9359./ 14415.
DN 7

SECOND SPECTRUM
DATA: GR037382C07 #263 (441) N-NITROSODIMETHYLAMINE (0102) (62-75-9)

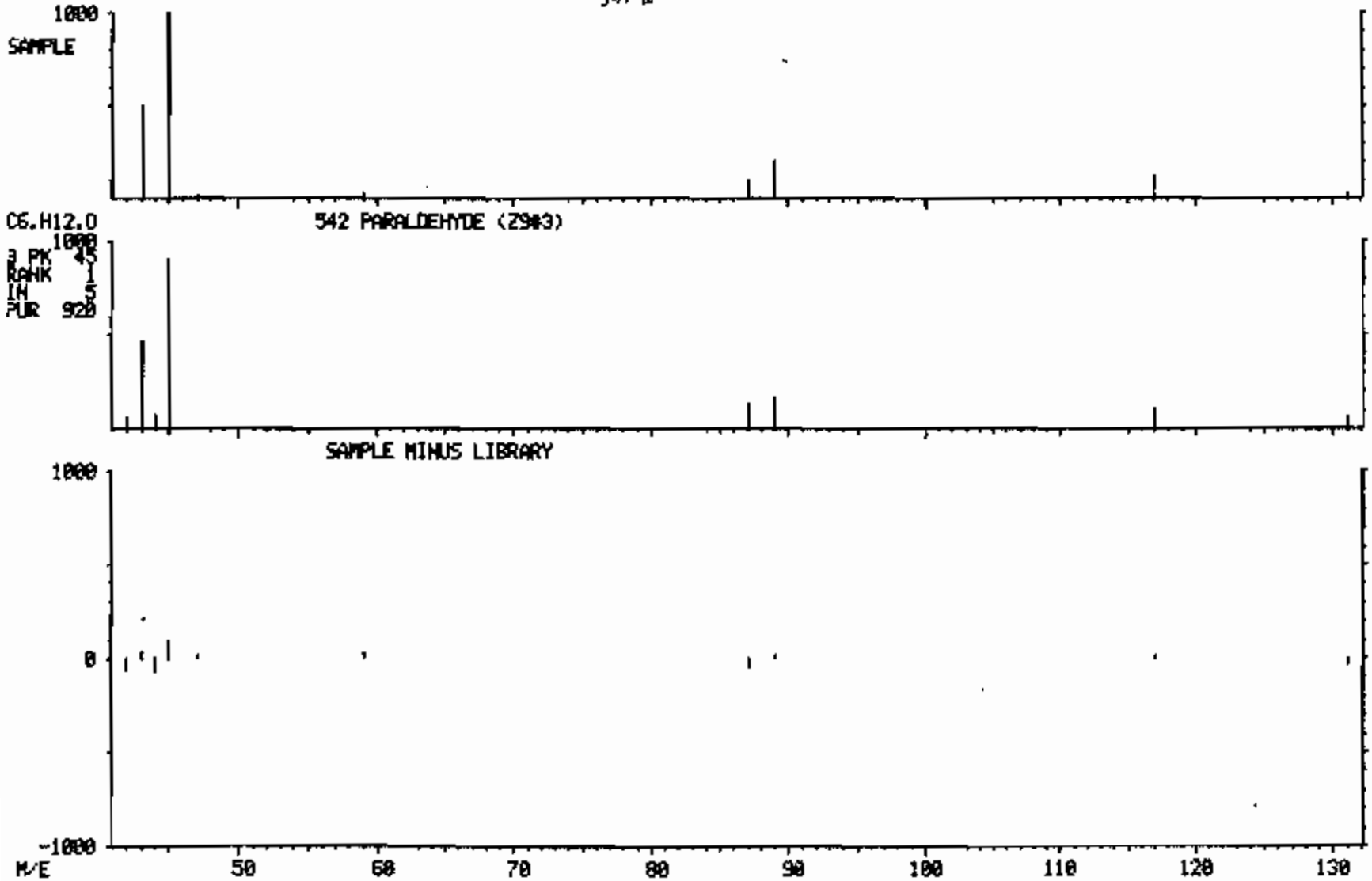


COMPUCHEM LABS

LIBRARY SEARCH
05/18/90 3:00:00 + 4:30
SAMPLE: 1UL CC#337382 ID#73000102 CS#20124

DATA: GR0337382C07 @ 302
ENHANCED (100 2N 0T)
ON 7

BASE M/E: 45
RIC: 26239.

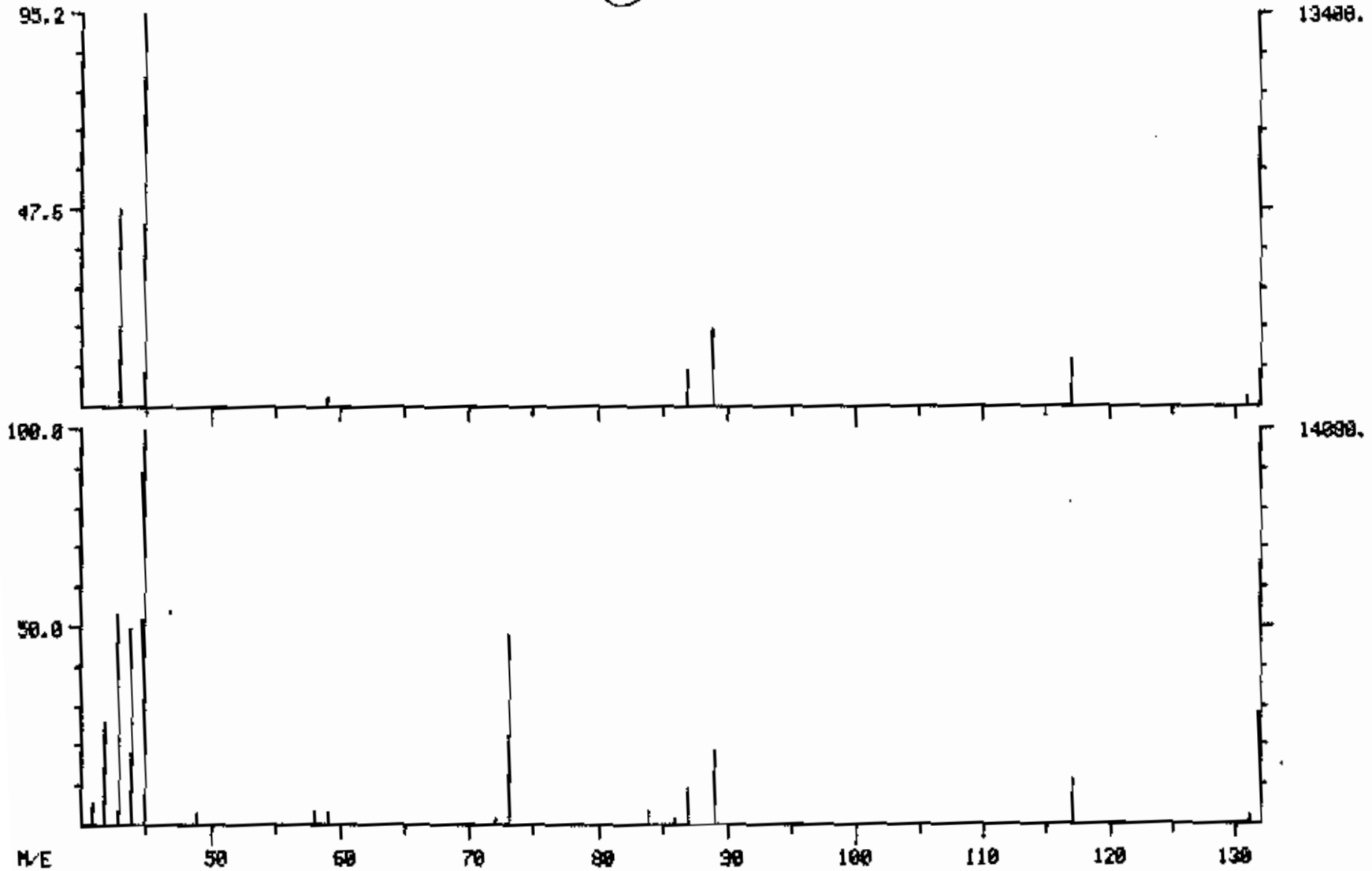


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/18/90 3:00:00 + 4:30
SAMPLE: IUL CC#337382 ID#7380B182 RE [illegible] CS#20124

DATA: GR037382C07 #302 BASE M/E: 45/ 45
RIC: 26239./ 40863.
DN 7

SECOND SPECTRUM
DATA: GR037382C07 #302 54% PARALDEHYDE (2983)



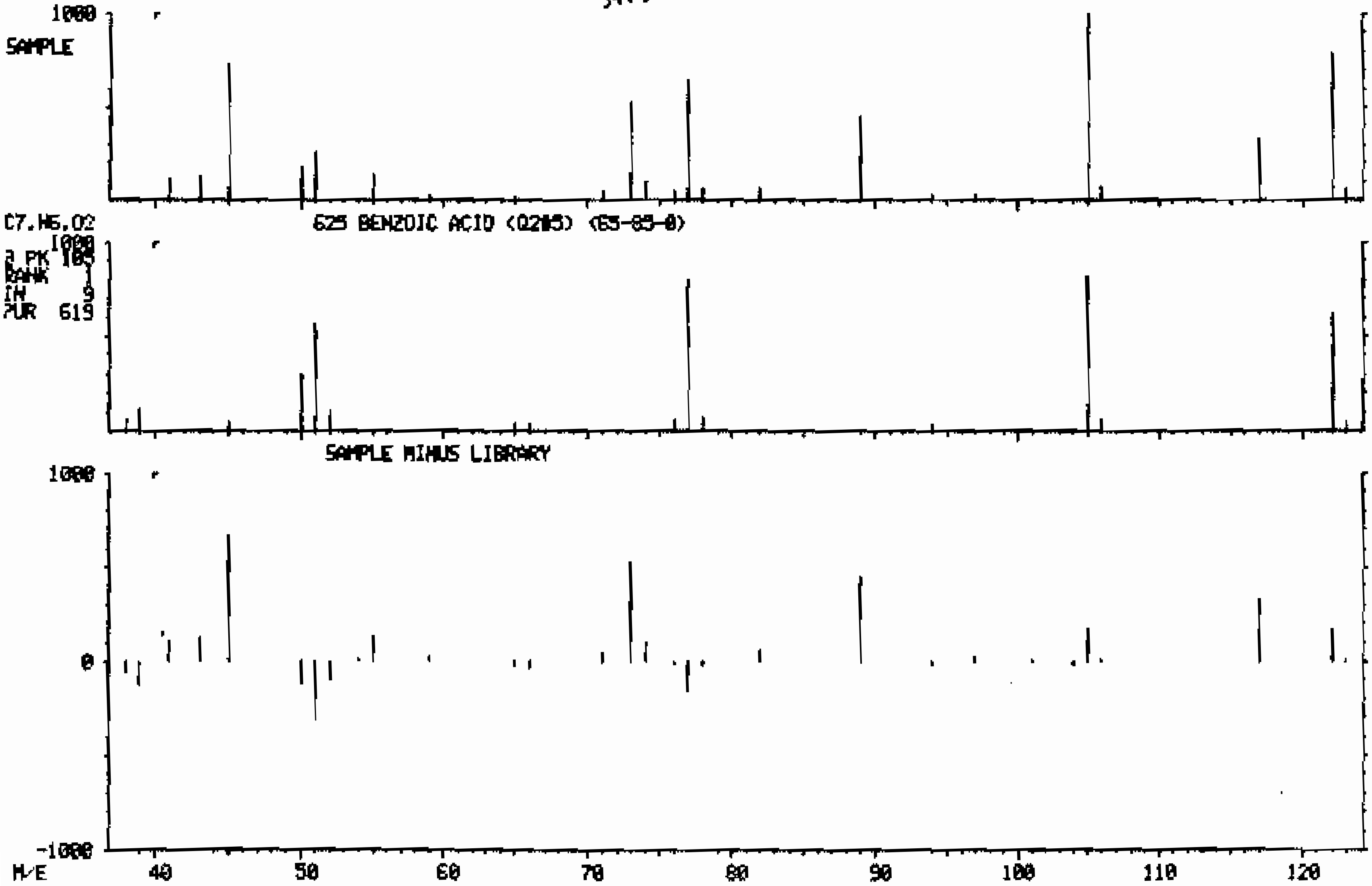
HYDEC RA090 0507 ORGANIC

COMPUCHEM LABS

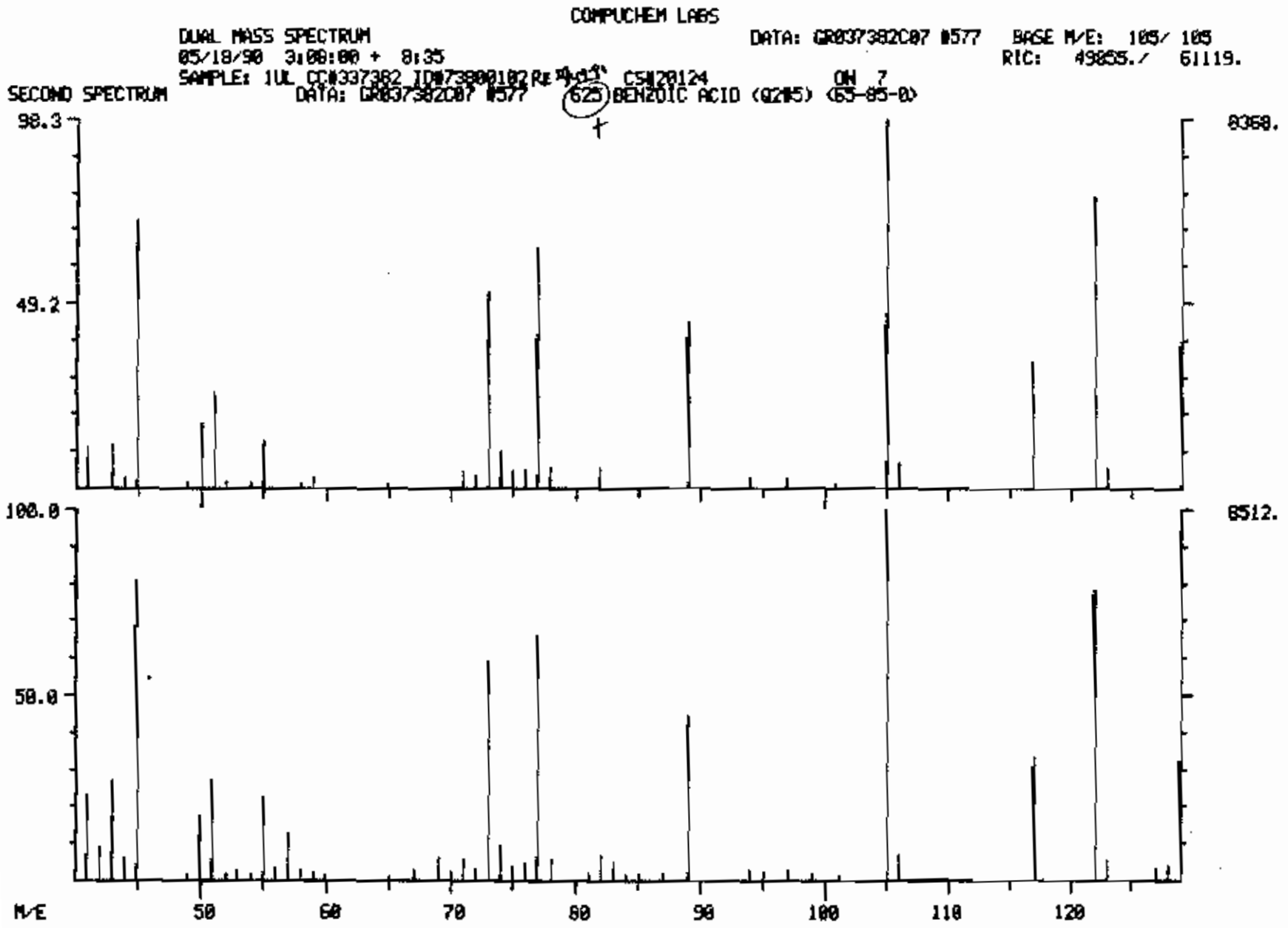
LIBRARY SEARCH
05/18/90 3:08:00 + 8:35
SAMPLE: IUL CC#337382 ID#73800102RE 57J CS#20124

DATA: GR037382C07 # 577
ENHANCED (10B 2N 8T)
ON 7

BASE M/E: 105
RIC: 40767.



NYDEC RA090 0507 ORGANIC



1132

NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.
05/18/90 3:08:00 + 4:24
SAMPLE: 1UL CC#37382 ID#73888102 RE
CONDS.1 EXTRACTED 5/16/90 UNDILUTED
MID LIBRARY SEARCH
DATA: C0037382C87 # 296
ENHANCED (100 2N 0T)
ON 7
BASE M/Z: 73
RIC: 407351.
SAMPLE
1073
C4.H12.S1
1073
SILANE, TETRAMETHYL-*
CAS# 75-76-3
C5.H12.O
1073
PROPANE, 2-METHOXY-2-METHYL-*
CAS# 1634-04-4
C5.H12.O2
1073
2-BUTANONE, 3-METHOXY-3-METHYL- *
CAS# 56567-90-6
M/Z
30
40
50
60
70
80
90
100
110

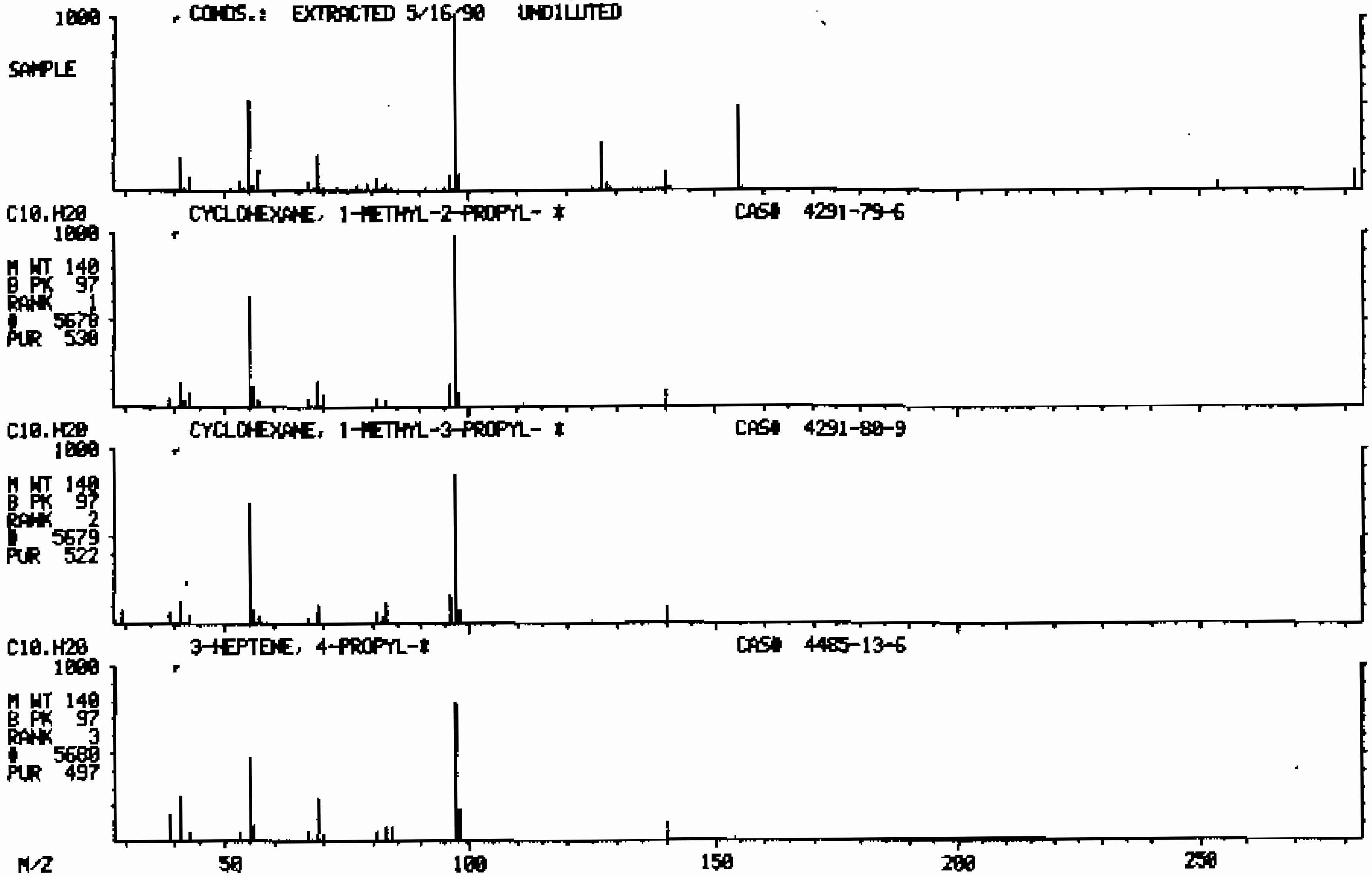
COMPUCHEM LABS, INC.
NIO LIBRARY SEARCH
05/18/98 3:08:08 + 6:07
DATA: CR037382D07 # 411
BASE M/Z: 56
SAMPLE: 10L CM037382 10M7380102 AF
ENHANCED (100 2N 0T)
RIC: 743423.
CONDS.: EXTRACTED 5/15/98 UNDILUTED
CH 7
SAMPLE
C7.H11.03.N
2-PIPERIDINECARBOXYLIC ACID, 1-FORMYL- X
CAS# 54966-20-0
C6.H9.02
1,4-CYCLOHEXANEDIONE
CAS# 637-88-7
C6.H9.02
1,3-CYCLOPENTANEDIONE, 2-METHYL-X
CAS# 765-69-5
M/Z
40
60
80
100
120
140

COMPUCHEM LABS, INC.

05/10/90 3:00:00 + 6:29
SAMPLE: 1UL CC#337382 ID#73800102 R.E [illegible] CS#20124
COMDS.: EXTRACTED 5/16/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037382C07 # 436
ENHANCED (100 2N 0T)
ON 7

BASE M/Z: 97
RIC: 227583.



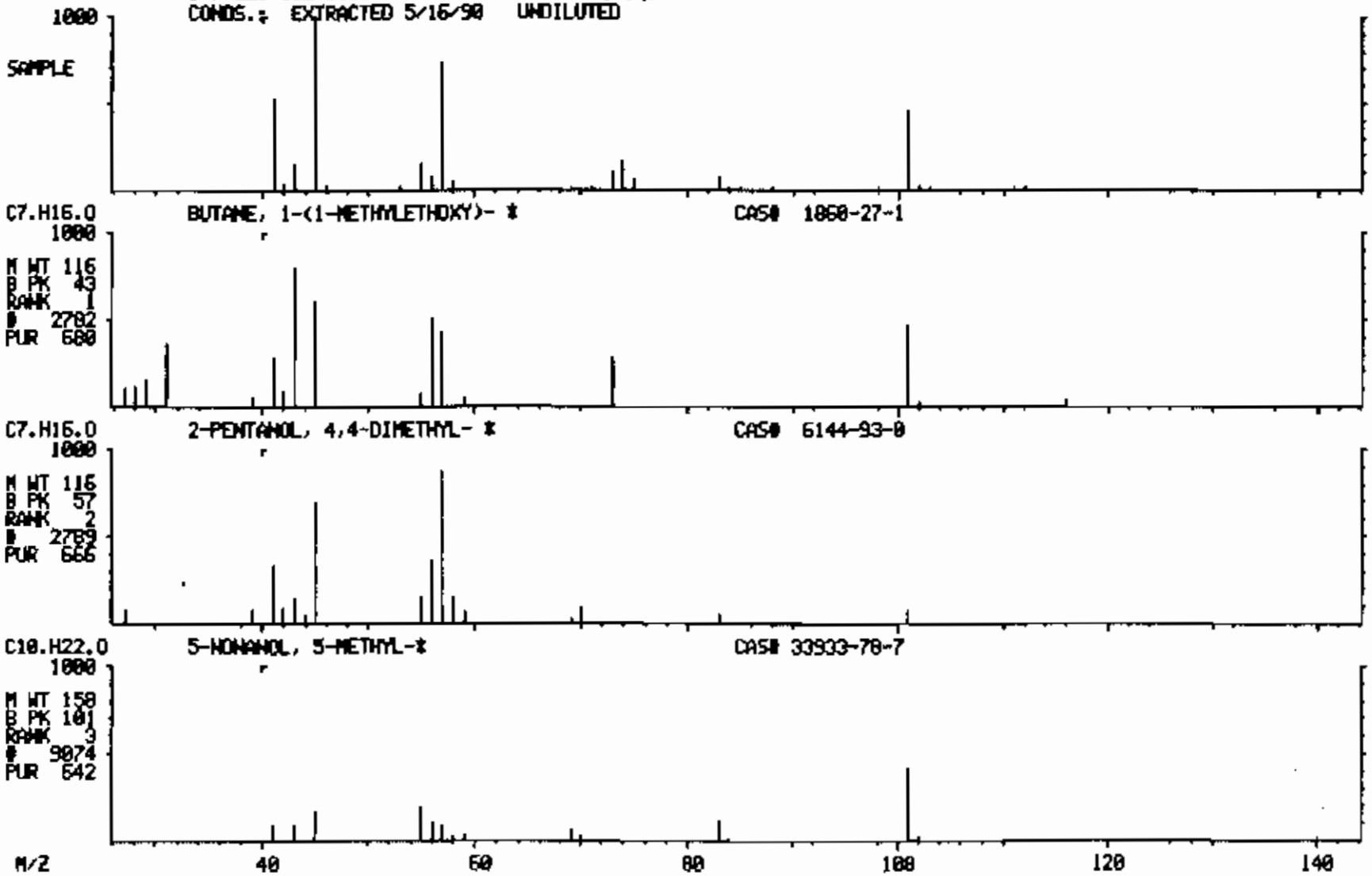
COMPUCHEM LABS, INC.
MID LIBRARY SEARCH
05/18/90 3:09:00 + 6:52
DATA: CM03730202 # 452
ENHANCED (100 2N 0T)
SAMPLE: 1UL CM03730202 10M73000102 A.F
CSM20124
CONDS.: , EXTRACTED 5/16/90 UNDILUTED
ON 7
BASE M/Z: 87
RIC: 1351670.
SAMPLE
1015
C5.H14.0
1015
2-BUTANOL, 2,3-DIMETHYL-*
CAS# 594-80-5
M WT 102
B PK 59
RANK 1
PUR 1512
PUR 650
C8.H18.0
1015
3-HEXANOL, 2,3-DIMETHYL-*
CAS# 4166-46-5
M WT 130
B PK 87
RANK 2
PUR 4416
PUR 659
C7.H16.0
1015
3-PENTANOL, 3-ETHYL-*
CAS# 597-49-9
M WT 116
B PK 87
RANK 3
PUR 2770
PUR 653
M/Z
20
40
60
80
100
120
140
160
180
200

COMPUCHEM LABS, INC.
NIO LIBRARY SEARCH
05/18/90 3:08:00 + 7:22
DATA: GR037382C07 # 495
BASE M/Z: 69
SAMPLE: 1UL CC037382 ID#738B0102 RE
CS#28124
ENHANCED (108 2N 8T)
RIC: 1130496.
CONDS.: EXTRACTED 5/16/90 UNDILUTED
ON 7
1113
SAMPLE
C8.H12.N4
1113
PROPANENITRILE, 2,2'-AZOBIS(2-METHYL-
CAS# 78-67-1
M HT 164
B PK 69
RANK 1
1634
PUR 921
C8.H14
1113
CYCLOPENTANE, 2-PROPENYL-
CAS# 3524-75-2
M HT 110
B PK 69
RANK 2
1989
PUR 681
C10.H18
1113
2,6-OCTADIENE, 4,5-DIMETHYL-
CAS# 10476-57-8
M HT 138
B PK 69
RANK 3
5397
PUR 679
M/Z
40
60
80
100
120

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GR037382C07 # 547 BASE M/Z: 45
ENHANCED (100 2N 0T) RIC: 243967.
ON 7

05/10/90 3:00:00 + 0:00
SAMPLE: 1UL CC#337382 ID#73000102 Ar [illegible] CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

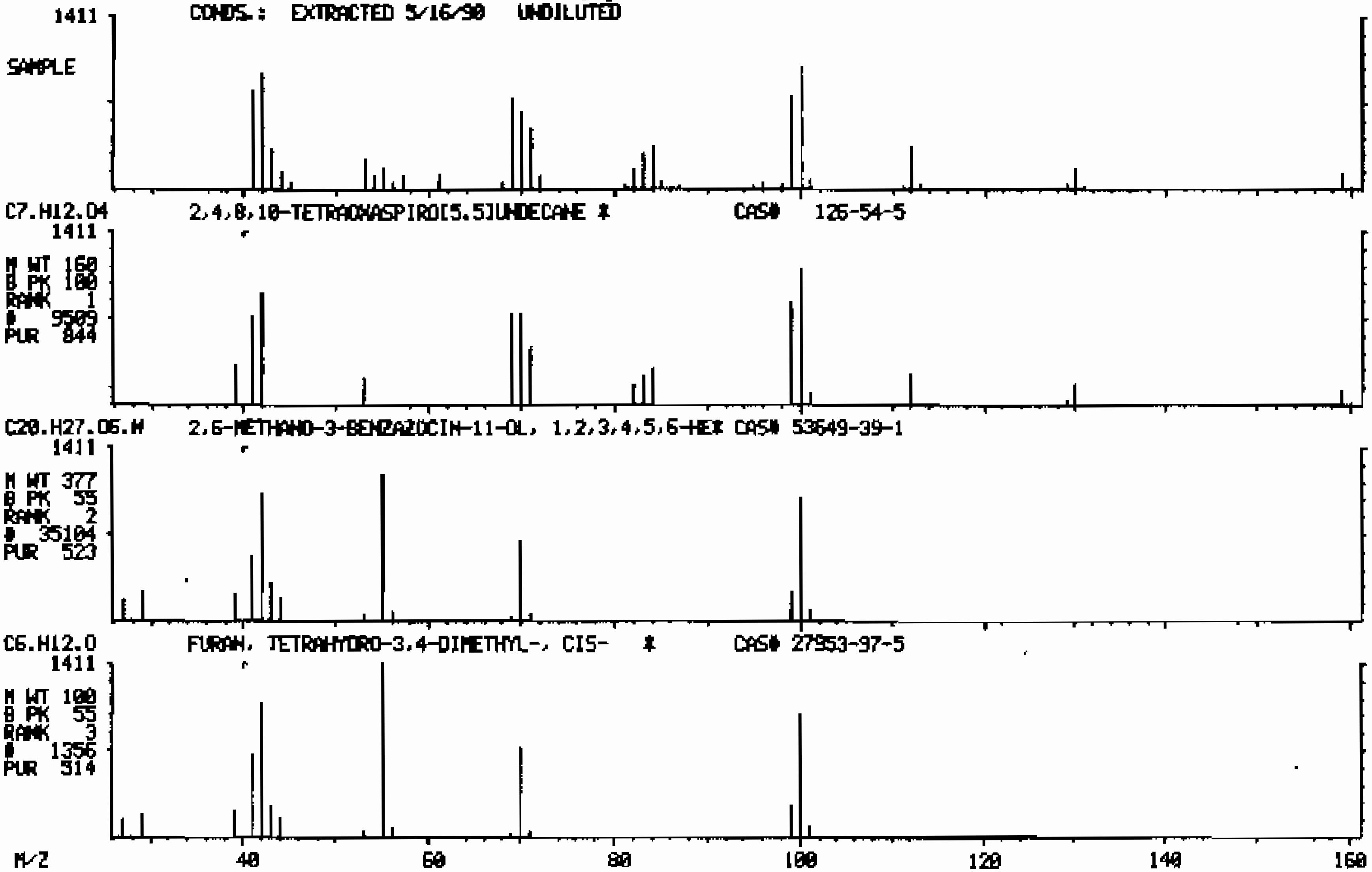


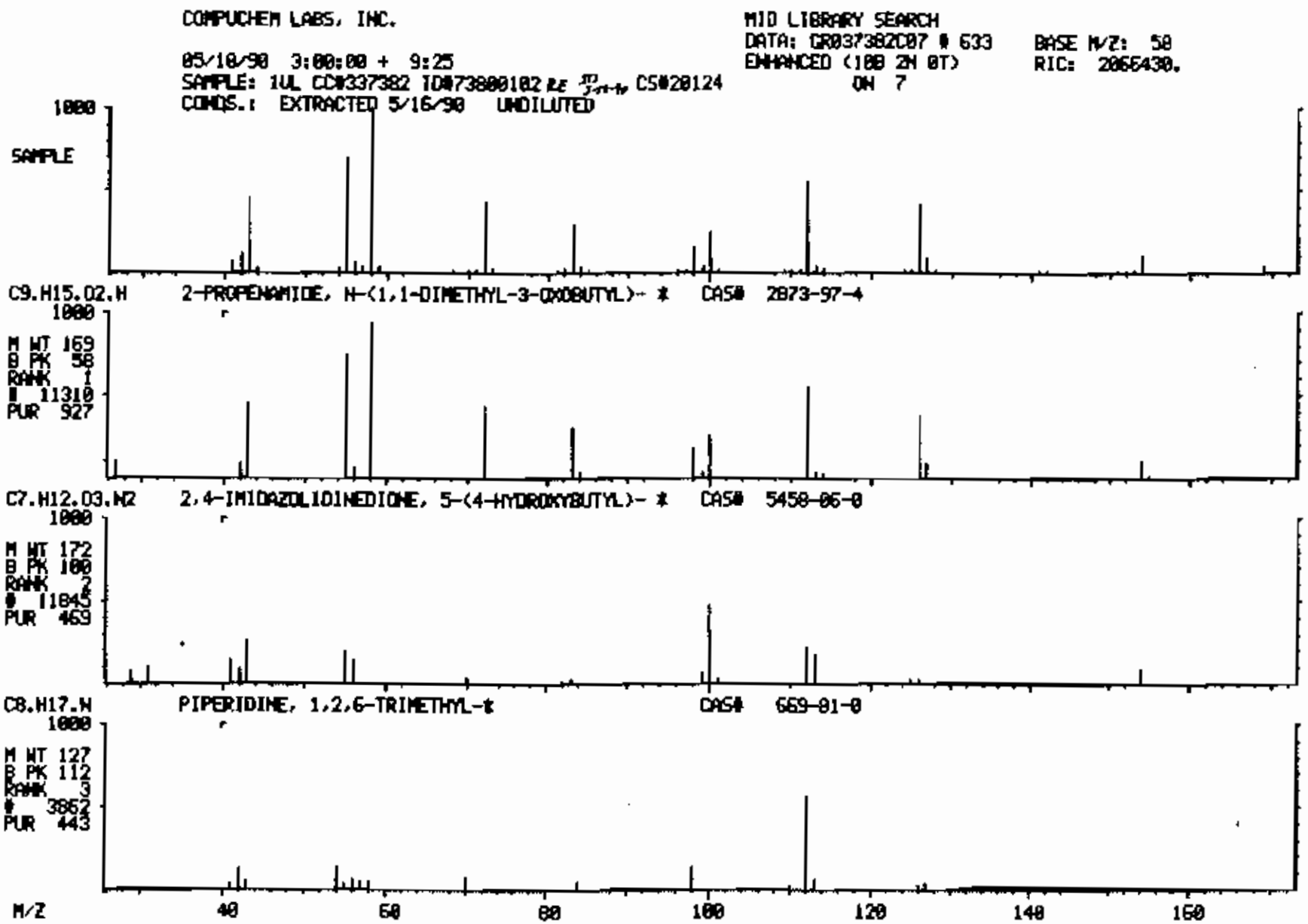
COMPUCHEM LABS, INC.

05/18/90 3:08:00 + 9:09
SAMPLE: 1UL CC#337382 ID#73800102RE CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037382C07 # 615
ENHANCED (100 2N 0T)
ON 7

BASE M/Z: 100
RIC: 1517560.



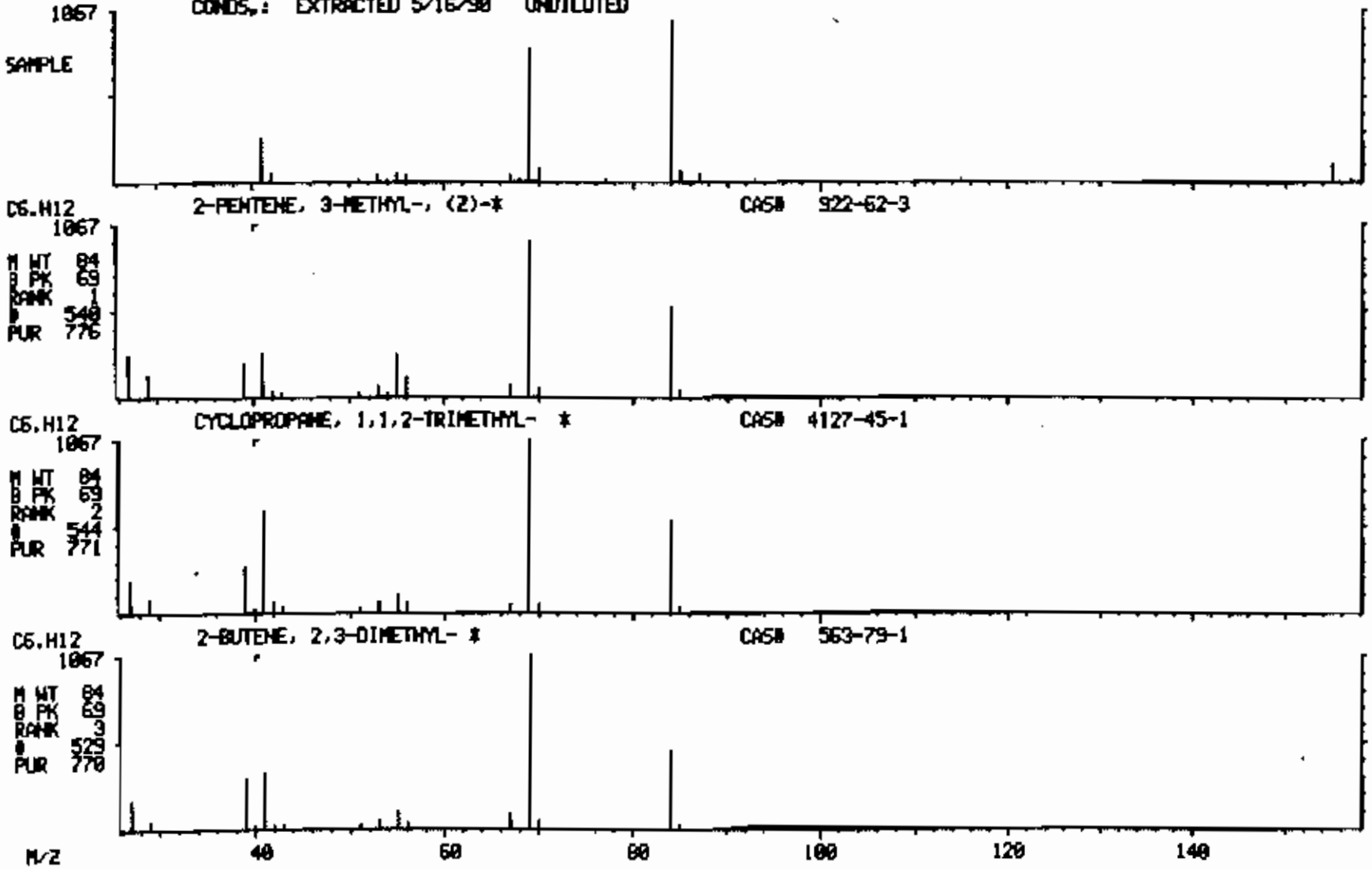


NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

05/10/90 3:00:00 + 9:30
SAMPLE: 1UL CC#337382 ID#73000102 RE [illegible] CS#20124
CONDS,: EXTRACTED 5/16/90 UNDILUTED

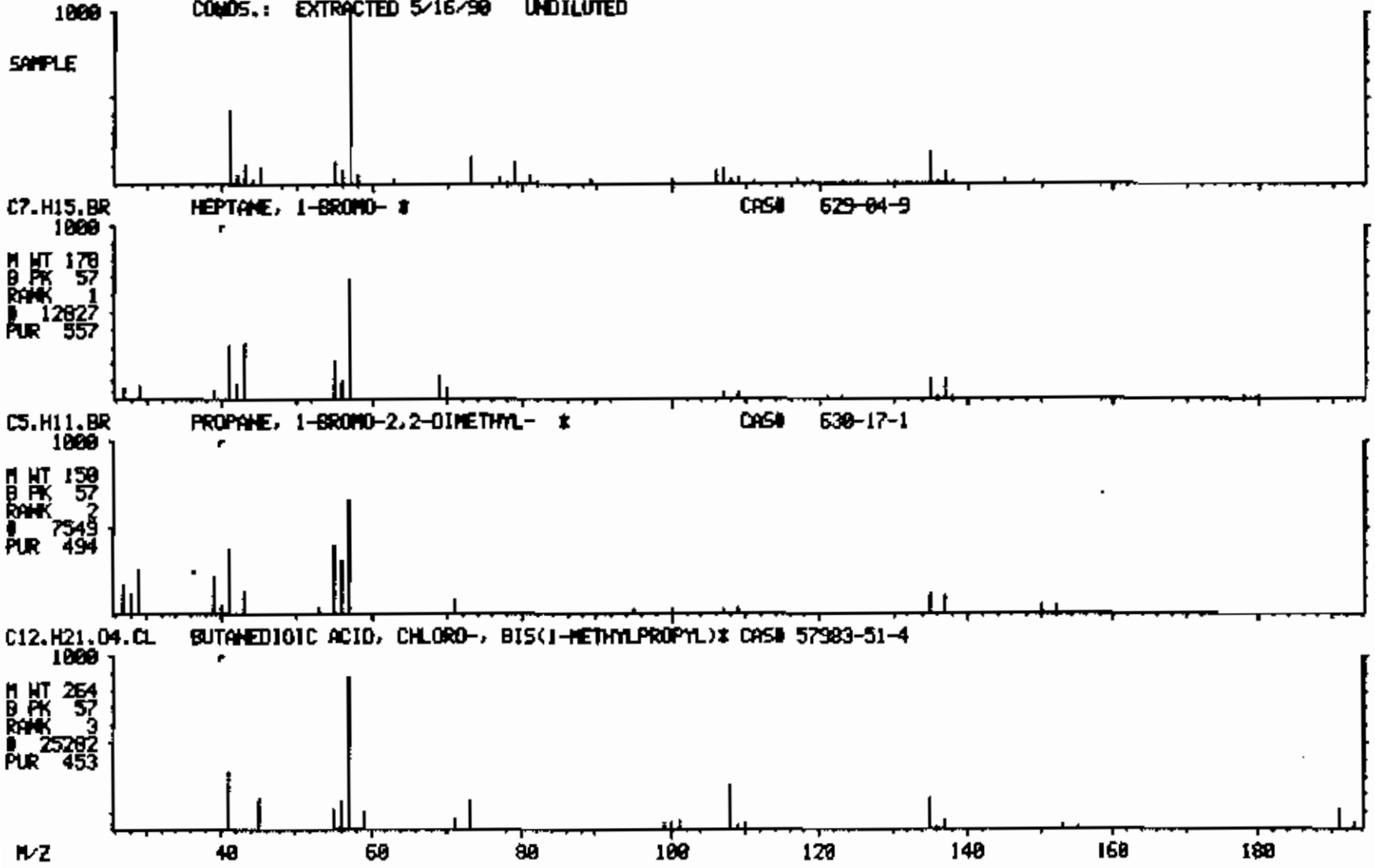
MID LIBRARY SEARCH
DATA: GR037382C07 # 639 BASE M/Z: 84
ENHANCED (100 2N 0T) RIC: 220671.
ON 7



COMPUCHEM LABS, INC.

05/18/90 3:08:08 + 9:59
SAMPLE: 1UL CC#337382 ID#73000102 Aa
CONDS.: EXTRACTED 5/16/90 UNDILUTED CS#20124

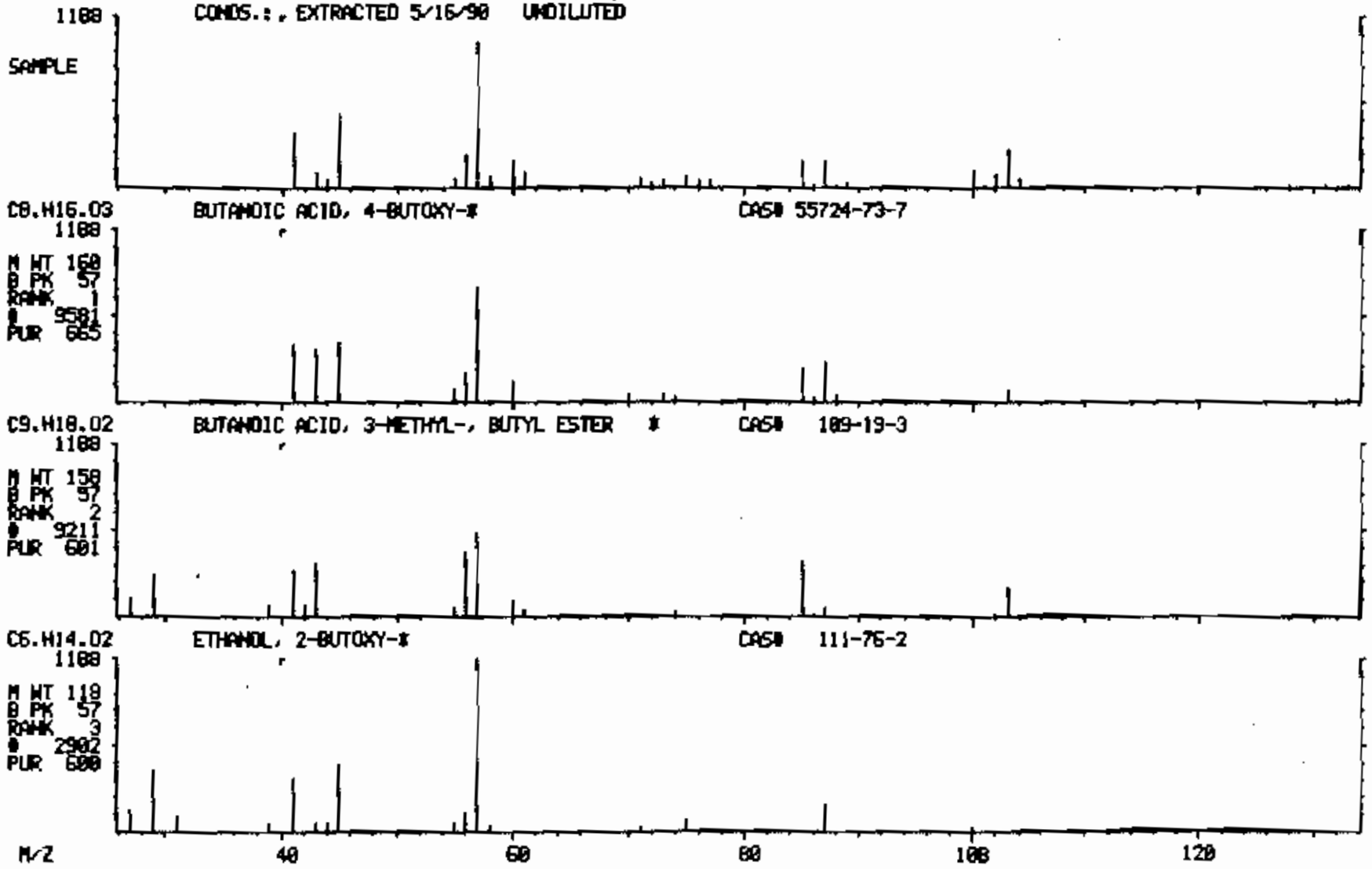
MID LIBRARY SEARCH
DATA: GR037382C07 # 671 BASE M/Z: 57
ENHANCED (100 2N 0T) RIC: 198911.
ON 7

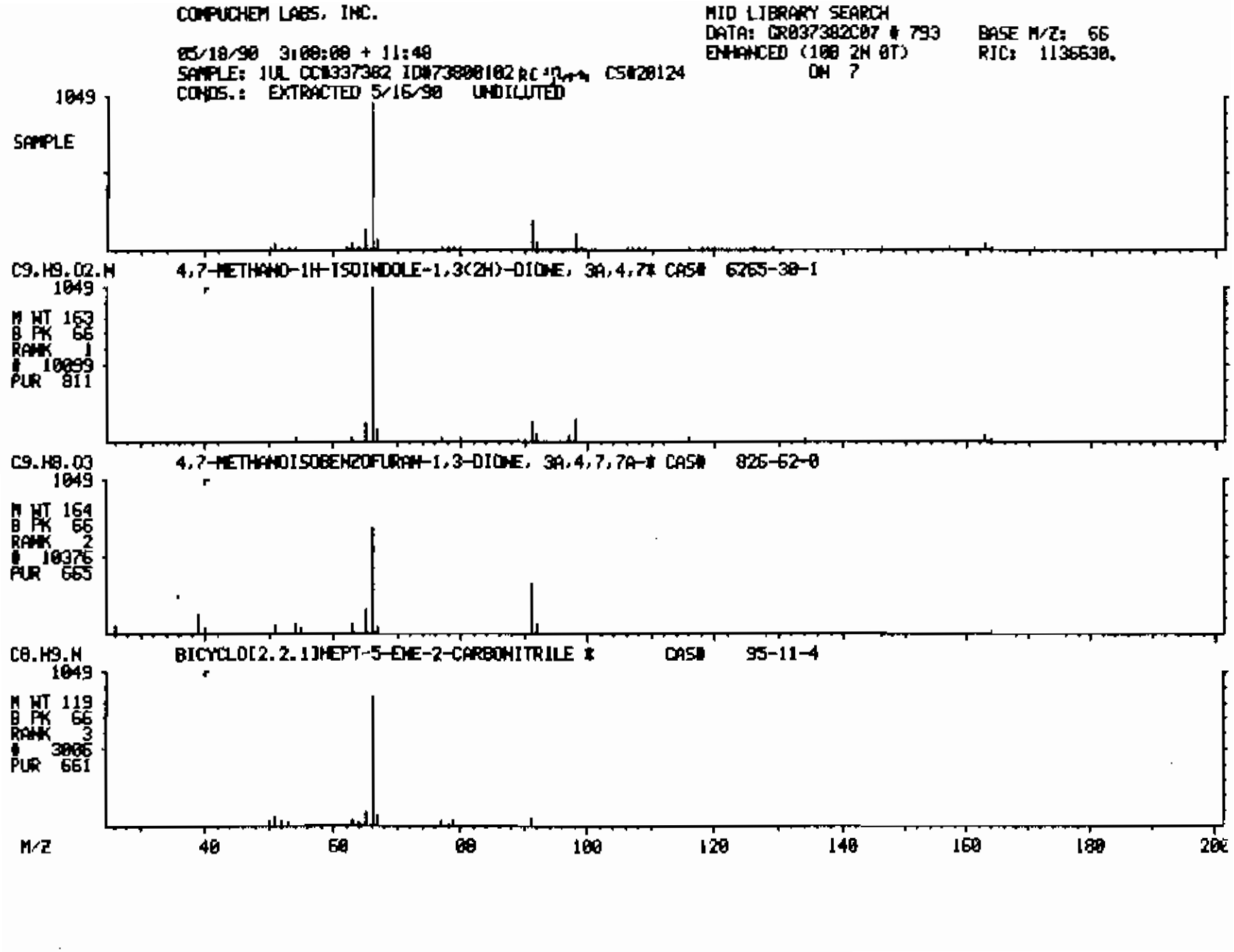


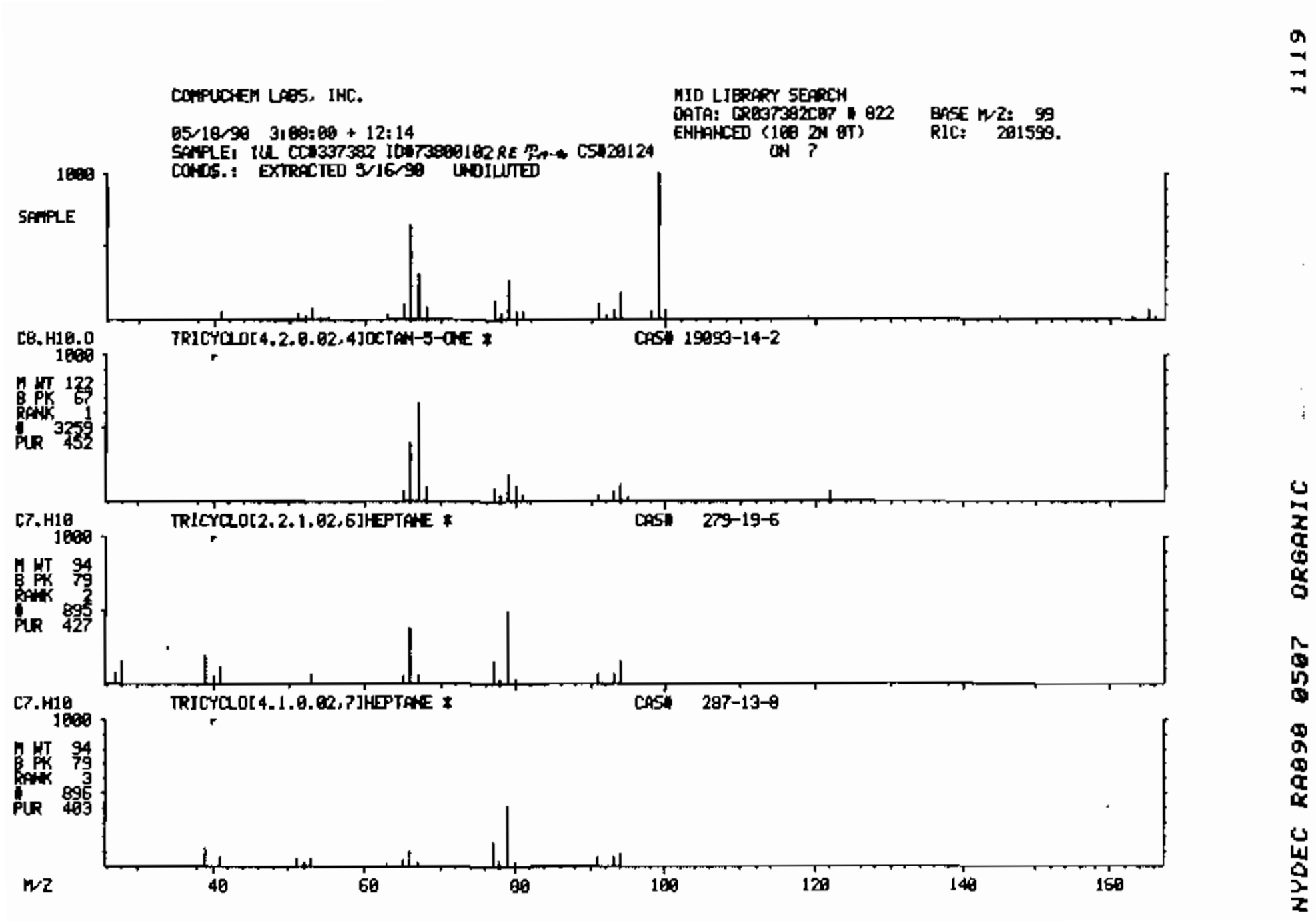
COMPUCHEM LABS, INC.

NID LIBRARY SEARCH
DATA: GR0337302C07 # 700 BASE M/Z: 57
ENHANCED (10B 2N 0T) RIC: 393727.
ON 7

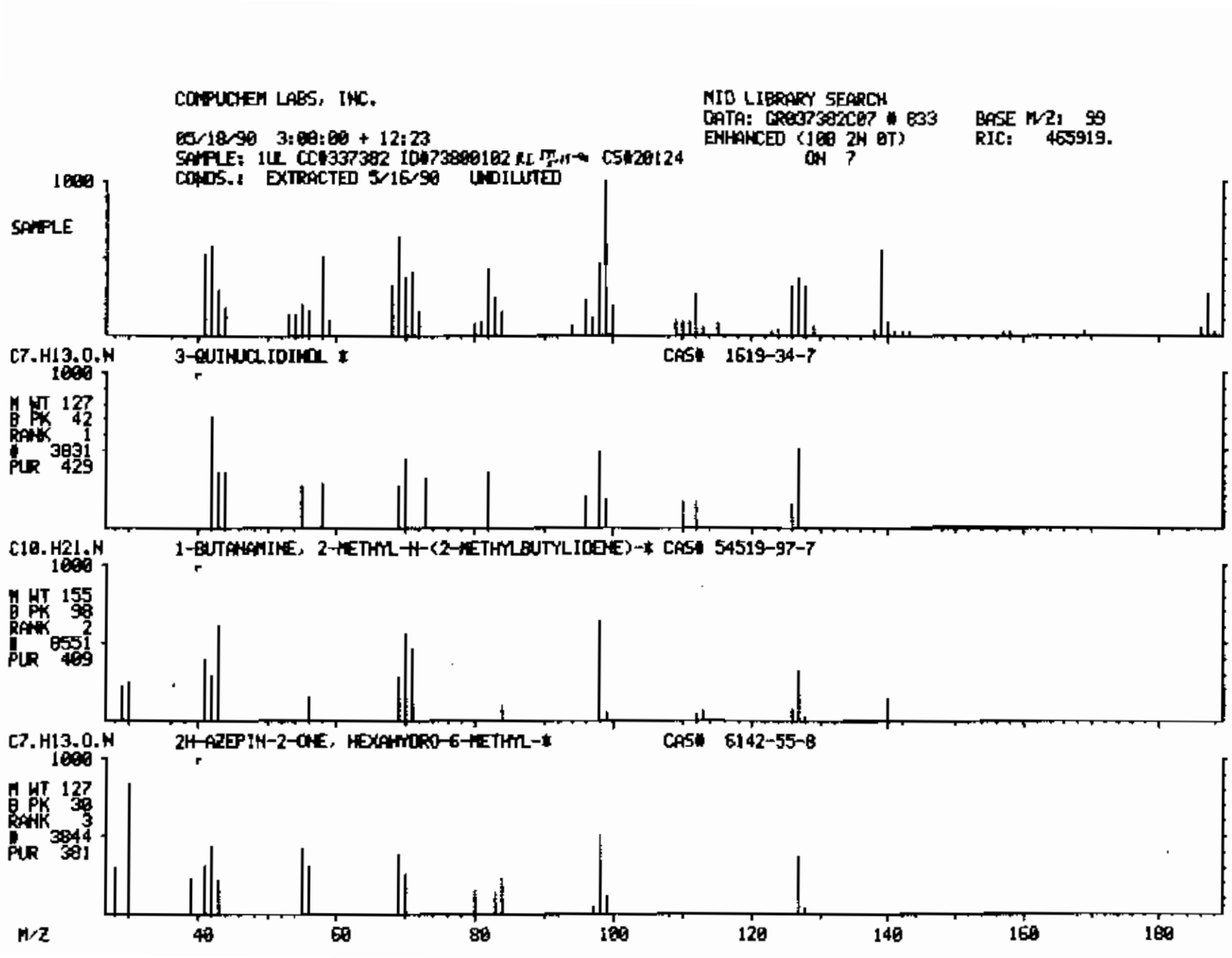
05/10/90 3:00:00 + 10:25
SAMPLE: 1UL CC#337302 ID#73000102 [illegible] CS#20124
CONDS.: , EXTRACTED 5/16/90 UNDILUTED




COMPUCHEM LABS, INC.
05/18/90 3:00:00 + 11:48
SAMPLE: 1UL CC#337382 ID#73000102 RC#0 CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037382C07 # 793 BASE M/Z: 66
ENHANCED (100 2N 0T) RIC: 1136530.
ON 7
1049
SAMPLE
C9.H9.02.N 4,7-METHANO-1H-ISOINDOLE-1,3(2H)-DIONE, 3A,4,7# CAS# 6265-30-1
M WT 163
B PK 66
RANK 1
10099
PUR 811
C9.H8.03 4,7-METHANOISOBENZOFURAN-1,3-DIONE, 3A,4,7,7A-# CAS# 826-62-0
M WT 164
B PK 66
RANK 2
10376
PUR 665
C8.H9.N BICYCLO[2.2.1]HEPT-5-ENE-2-CARBONITRILE # CAS# 95-11-4
M WT 119
B PK 66
RANK 3
3006
PUR 661
M/Z
40
60
80
100
120
140
160
180



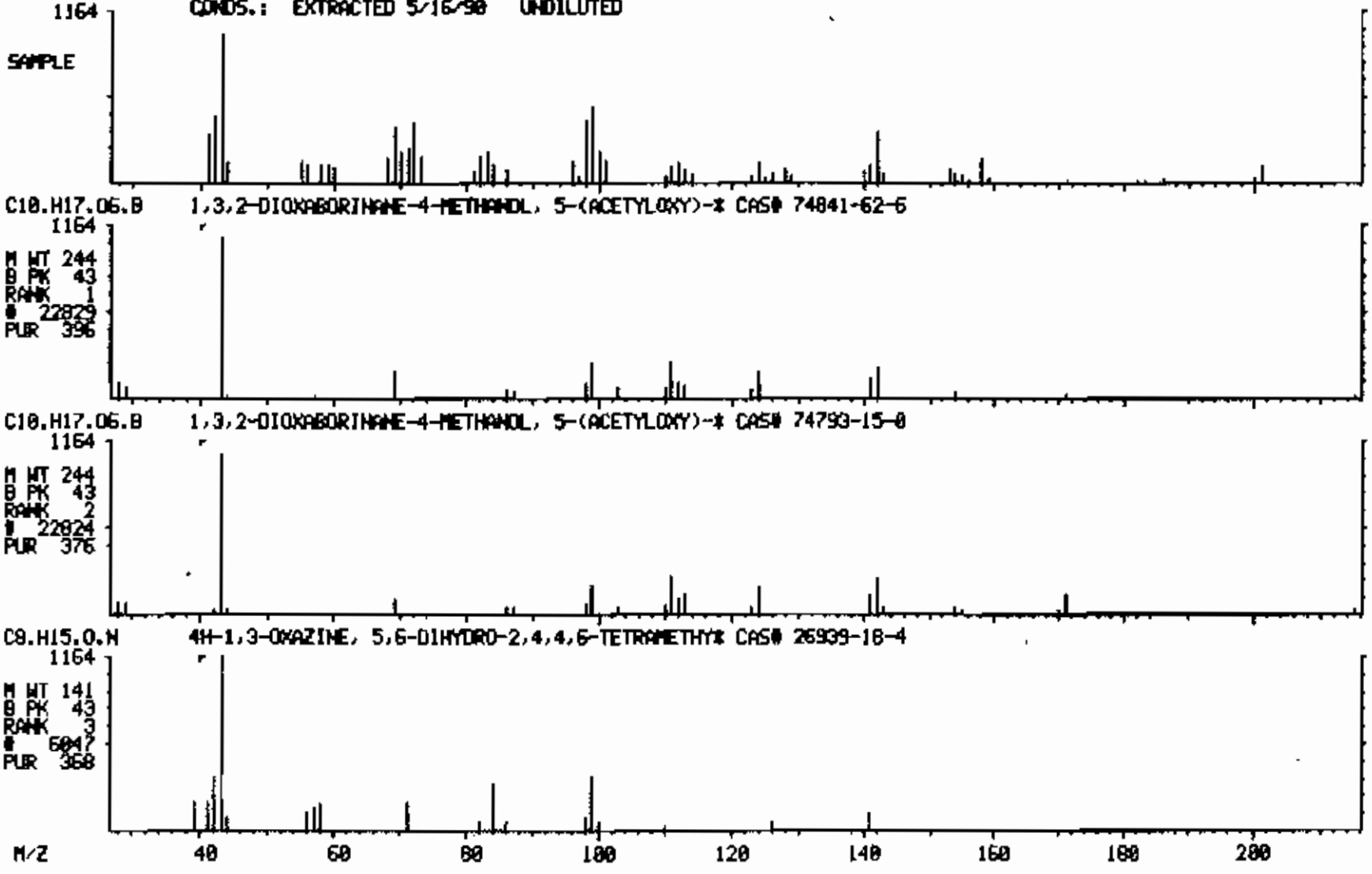
NYDEC RA090 0507 ORGANIC 1119

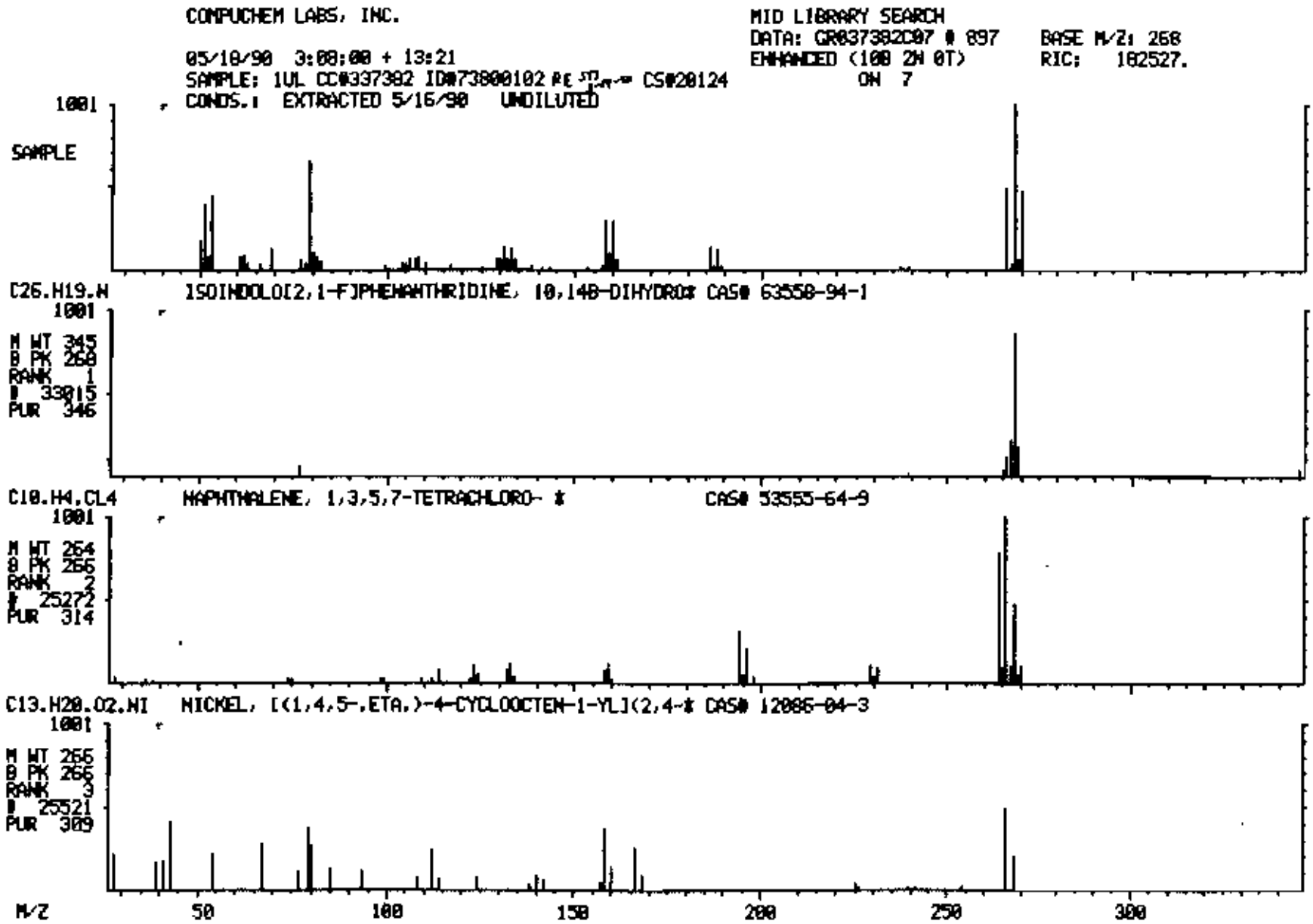

COMPUCHEM LABS, INC.
05/18/90 3:00:00 + 12:23
SAMPLE: 1UL CC#337382 ID#73800102 CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED
NIO LIBRARY SEARCH
DATA: GR037382C07 # 833 BASE M/Z: 99
ENHANCED (100 2N 0T) RIC: 465919.
ON ?
1000
SAMPLE
C7.H13.O.N 3-QUINUCLIDINOL * CAS# 1619-34-7
M WT 127
B PK 42
RANK 1
3831
PUR 429
C10.H21.N 1-BUTANAMINE, 2-METHYL-N-(2-METHYLBUTYLIDENE)-* CAS# 54519-97-7
M WT 155
B PK 98
RANK 2
6551
PUR 409
C7.H13.O.N 2H-AZEPIN-2-ONE, HEXAHYDRO-6-METHYL-* CAS# 6142-55-8
M WT 127
B PK 30
RANK 3
3844
PUR 381
M/Z
40
60
80
100
120
140
160
180

COMPUCHEM LABS, INC.

05/16/90 3:08:00 + 12:47
SAMPLE: 1UL CC#337392 ID#73000102 RE CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

NID LIBRARY SEARCH
DATA: GR037382C07 # 859 BASE M/Z: 43
ENHANCED (100 2H 0T) RIC: 1421310.
ON 7

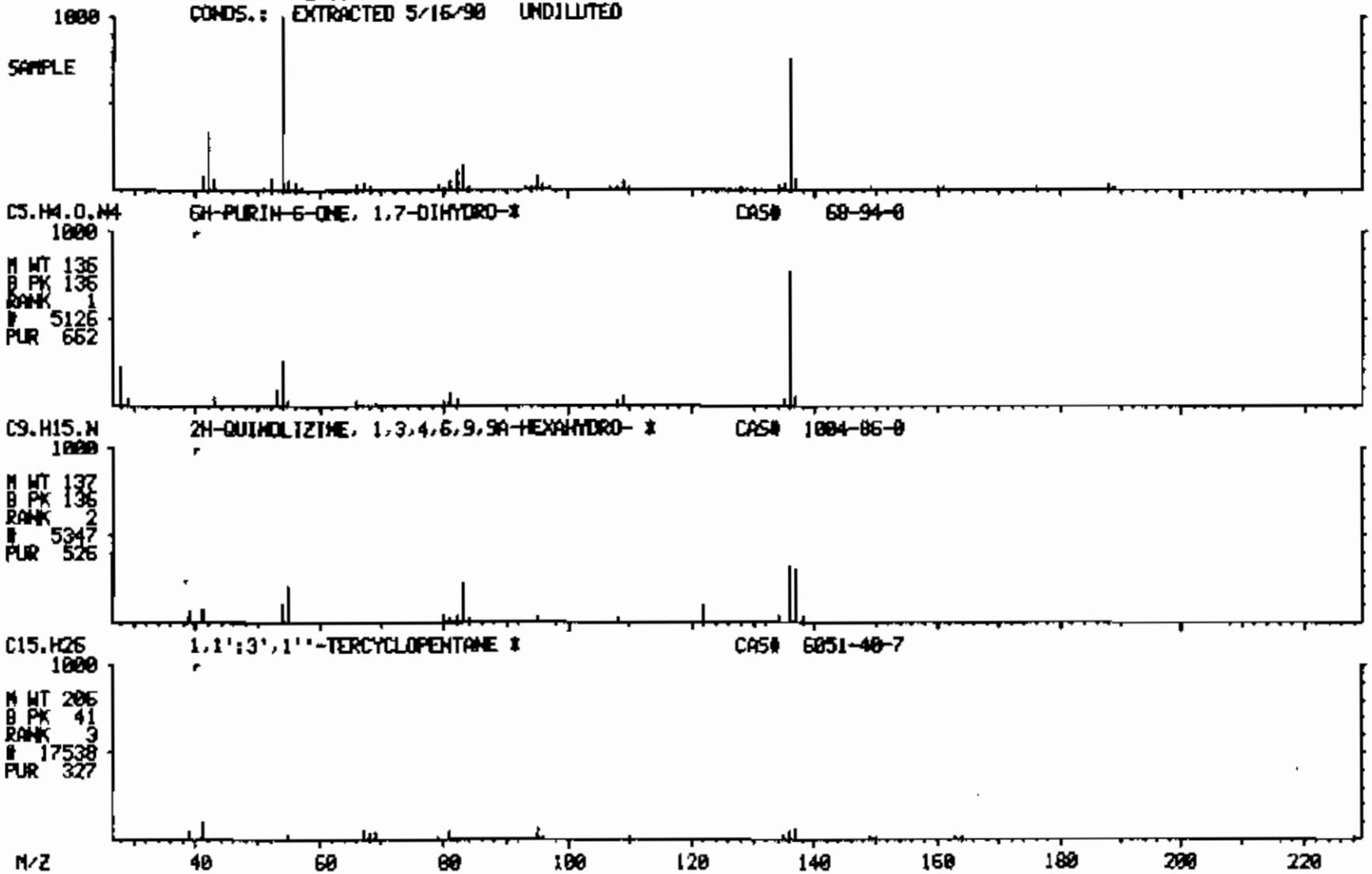



COMPUCHEM LABS, INC.
05/10/90 3:00:00 + 13:21
SAMPLE: 1UL CC#337382 ID#73000102
CONDS.: EXTRACTED 5/16/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037382C07 # 897
ENHANCED (100 2H 0T)
ON 7
BASE M/Z: 268
RIC: 182527.
SAMPLE
C26.H19.N ISOINDOLO[2,1-F]PHENANTHRIDINE, 10,14B-DIHYDRO- CAS# 63550-94-1
M WT 345
B PK 268
RANK 1
33015
PUR 346
C10.H4.CL4 NAPHTHALENE, 1,3,5,7-TETRACHLORO- CAS# 53555-64-9
M WT 264
B PK 266
RANK 2
25272
PUR 314
C13.H20.O2.NI NICKEL, [(1,4,5-,ETA.)-4-CYCLOOCTEN-1-YL](2,4-
M WT 266
B PK 266
RANK 3
25521
PUR 309
M/Z
50
100
150
200
250
300

COMPUCHEM LABS, INC.

05/18/90 3:00:00 + 13:46
SAMPLE: 1UL CC#337382 ID#73800102 R&T Fr. CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037382C07 # 925 BASE M/Z: 54
ENHANCED (10B 2N 0T) RIC: 262143.
DN 7



MAST5-6

LAB I...RUCTIONS:

CASE#: 20124 DUE DATE:

GC/MS WORKSHEET COMPUCHEM#: 337382R J1) R1 V1 D1) (:1)

J2( ) R2( ) D2( ) (:1)

SEMI-VOA + L.S. 3rd Ed SW-846, METHOD 8270
S-V EXTRACTION, EPA/METHOD 3510
LOW LEVEL LIQUID

[redacted]

Sample Prep Code---079
Instrument Code----280
Compound List------379
Surrogate Std------393
Internal Std-------035

15 PEAK LIBRARY SEARCH REQUIRED

SAS#: EPA#: 73800102a RE 5-11-90

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid ul
Internal Standard Volume Added 5 ml
Mixed Sample Volume Injected 10 ul
Date of Sample Bottle Analyzed 5/16/90
DFTPP Filename DF900517B07 Disk ( )
Standard Filename HG900517B07 Disk ( )
Sample Filename GR037382C07 Disk ( )

ANALYST(S): Injection 917 Work-up 917

GC/MS REVIEW

CONDITION CODE: ES

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,BH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS ED,IF,LA,QI,CO,RN,OW,OA

Disposition: [✓] Complete

[ ] Reinjection required

[ ] Reextraction required

[ ] Dilute (:1)

[ ] Reinject Neat

[ ] Send to QA

Compl 5/18/90

Extraneous Peak Search Results:

# of Peaks Found: 17

# of Hits: 3

# of Surrogate Outliers: 3

Quality Assurance Notice(s):

Notices Required 2

GC/MS Review L. Mark Date 5/19/90 Auditor [illegible] Date 5/21/90

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): GR037382C07 / GH037382C06

QA COMMENTS:

Initials Date

FINAL REVIEW: Initials Date

ACS15 (06/87)

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: Carl Hanke (Annette Dunaway)

DATE ASSIGNED 5/16/90

EMP ID NUMBER 1787

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL.(ml) SV B/N	FINAL EXTRACT VOL.(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337324R	079	10124	73100102		3/3→		500	.5	—	13	2	Use 500ml sample volume for 88 only (100 sample)
2	337325R		↓	73100104		1/3→		500	.5	—	13	2	Add 0.5ml surr. Add 0.5ml spike.
3	325510R		19688	D050 S1000		3/3→		500	.5	—	13	2	Conc. to 0.5ml final volume
4													add (Aq) ml validation spike to 88 only
5													
6													
7													
8													
9													
10													
11													
12													
13	338498			SBLK 15	B1			500	.5	—	13	2	

		B-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	383				
	AMT.	0.5ml				
	LOT	31972				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

MANUAL COUNTER 510/895

FINAL VOLUME VERIFIED Carl A Hanke

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY

SURROGATE & SPIKE ADDED CORRECTLY INT 5/16/90 DATE

ISSUED BY:

1113

HYDEC RA090 0507 ORGANIC

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	484	363000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#			1.8	2J	10
481	79		PYRIDINE (Z9#1)				BDL	10
509	69		ETHYLMETHACRYLATE (T1#4)				BDL	10
342	89		PARALDEHYDE (Z9#3)			2.3	2J	10
510	93		2-PICOLINE (Z9#56)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (G1#3)				BDL	10
473	93		ANILINE (G1#4)				BDL	10
505	167		PENTACHLOROETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20
601	128		2-CHLOROPHENOL (G1#6)				BDL	10
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	10
474	108		BENZYL ALCOHOL (G1#9)				BDL	10
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	10
620	108		2-METHYLPHENOL (G1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (G1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLOROETHANE (G1#15)				BDL	10
460	136	I	D8-NAPHTHALENE (IS#2)	603	1050000	40.0		
440	77		NITROBENZENE (G1#16)			1.0	1J BDL	10
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	10
438	82		ISOPHORONE (B2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (B2#4)				BDL	10
606	139		2-NITROPHENOL (B2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (B2#5)			2.1	2J	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (B2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (B2#				BDL	10
439	128		NAPHTHALENE (B2#9)				BDL	10

CORRECTED/REVIEWED BY S. Hewett
(QC/MS DATA REVIEWER)

DATE 5-19-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
473	127		4-CHLORDANILINE (G2#10)				BDL	10
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	20
524	108		O-PHENYLENEDIAMINE (Z9#19)			44.2	44 BDL	10
519	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	10
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	10
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	10
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	10
534	139		BENZOTRICHLORIDE (Z9#23)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (G2#12)				BDL	10
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	10
503	162		SAFROLE (Z9#27)				BDL	10
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	10
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	10
499	164	I	D10-ACENAPHTHENE (IS#3)	775	561000	40.0		
497	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
435	237		HEXACHLORDCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	20
527	162		ISOSAFROLE (Z9#30)				BDL	20
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	10
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	10
478	65		2-NITROANILINE (G3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	20
491	168		1,4-DINITROBENZENE (F3#2)				BDL	20
423	163		DIMETHYL PHTHALATE (G3#7)				BDL	10
428	165		2,6-DINITROTOLUENE (G3#15)			2.0	20 BDL	10
402	152		ACENAPHTHYLENE (G3#8)				BDL	10
479	138		3-NITROANILINE (G3#9)				BDL	20
401	153		ACENAPHTHENE (G3#10)				BDL	10
603	184		2,4-DINITROPHENOL (G3#11)				BDL	40
607	109		4-NITROPHENOL (G3#12)				BDL	10
427	165		2,4-DINITROTOLUENE (G3#14)				BDL	10
476	168		DIBENZOFURAN (G3#13)				BDL	10
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	10
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	20
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (G3#16)				BDL	10
519	97		ZINOPHOS (Z9#38)			1.9	20 BDL	10

CORRECTED/REVIEWED BY J. Hewett
(QC/MS DATA REVIEWER)

DATE 5-19-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1C
432	166		FLUORENE (Q3#18)				BDL	1C
480	138		4-NITROANILINE (Q3#19)				BDL	2C
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	2C
430	77		1,2-DIPHENYLHYDRAZINE (AIQB				BDL	1C
467	188	I	D10-PHENANTHRENE (IS#4)	920	781000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1191	511000	40.0		
477	264	I	D12-PERYLENE (IS#6)	1435	420000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			2.7	1.%	
612	99	S	D5-PHENOL (SS#2)			3.4	2.%	
447	82	S	D5-NITROBENZENE (SS#3)			76.2	76.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			72.8	73.%	
628	329	S	2,4,6-TRIBROMOPHENOL (SS#5)			15.2	8.%	
471	212	S	D10-PYRENE (SS#6)			107.0	107.%	
476	244	S	D14-TERPHENYL (SS#7)			112.0	112.%	
CHECKSUMS:								
14269.				5408	3686000.	684.6		55.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	GUANT REPORT VALUE	GUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	
95	619	2-FLUOROPHENOL (SS#1)	2.7	200.0	1.	21-100		)
96	612	D5-PHENOL (SS#2)	3.4	200.0	2.	10- 94		)
97	447	D5-NITROBENZENE (SS#3)	76.2	100.0	76.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	72.8	100.0	73.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	19.2	200.0	8.	10-123		)
#1	471	D10-PYRENE (SS#6)	107.0	100.0	107.	40-130*	X	
#1	496	D14-TERPHENYL (SS#7)	112.0	100.0	112.	33-141	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

GUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000\ \text{UL}}{500\ \text{UL}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Heath
(GC/MS DATA REVIEWER)

DATE 5-19-94

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	920	781000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3C
443	169		N-NITROSODIPHENYLAMINE (G48				BDL	1C
367	169		DIPHENYLAMINE (F383)				BDL	1C
508	213		1,3,5-TRINITROBENZENE (Z984				BDL	2C
339	108		PHENACETIN (Z9842)				BDL	1C
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1C
377	234		DIALLATE (TRANS ISOMER)				BDL	1C
341	125		DIMETHOATE (Z9844)				BDL	1C
433	284		HEXACHLOROBENZENE (G485)				BDL	1C
485	169		4-AMINOBIPHENYL (Z9845)				BDL	1C
322	173		PRONAMIDE (Z9846)				BDL	1C
609	266		PENTACHLOROPHENOL (G486)				BDL	2C
453	237		PENTACHLORONITROBENZENE (Z9				BDL	1C
444	178		PHENANTHRENE (G487)				BDL	1C
403	178		ANTHRACENE (G488)				BDL	1C
426	149		DI-N-BUTYL PHTHALATE (G489)				BDL	1C
316	97		METHAPYRILENE (Z9848)				BDL	2C
349	211		CYCLOPHOSPHAMIDE (Z9849)				BDL	9C
431	202		FLUORANTHENE (G4810)				BDL	1C
459	240	I	D12-CHRYSENE (IS#5)	1191	511000	40.0		
404	184		BENZIDINE (G582)				BDL	1C
445	202		PYRENE (G583)				BDL	1C
330	185		ARAMITE (Z9850)				BDL	2C
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1C
323	139		CHLOROBENZILATE (Z9852)				BDL	1C
345	212		3,3'-DIMETHYLBENZIDINE (Z98				BDL	2C
415	149		BUTYLBENZYL PHTHALATE (G584				BDL	1C
488	181		2-ACETYLAMINO FLUORENE (F58				BDL	1C
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1C
423	252		3,3'-DICHLOROBENZIDINE (G58				BDL	1C
335	244		DIMETHOXYBENZIDINE (Z9857)				BDL	1C
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	1C
405	228		BENZO(A)ANTHRACENE (G586)				BDL	1C
418	228		CHRYSENE (G588)				BDL	1C
497	264	I	D12-PERYLENE (IS#6)	1435	420000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G592)				BDL	1C
407	252		BENZO(B)FLUORANTHENE (G593)				BDL	1C
317	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1C
409	252		BENZO(K)FLUORANTHENE (G594)				BDL	1C
406	252		BENZO(A)PYRENE (G595)				BDL	1C
365	268		3-METHYLCHLORANTHRENE (F592				BDL	1C
366	279		DIBENZO(A,J)ACRIDINE				BDL	1C

CORRECTED/REVIEWED BY S. Arenil
(GC/MS DATA REVIEWER)

DATE 5-19-96

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	10
417	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	10
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	10
576	234		DIALLATE (CIS ISOMER)				BDL	10
531	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS:								
10115.				3546	1712000.	120.0	0.	

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-19-88

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

QUALITY ASSURANCE NOTICE

CompuChem # 337382

Client ID # 73800102

Case 20124

Surrogate recoveries for the SV fraction of this sample fell outside quality control limit in both the original and repeated extractions. Results were comparable between the two analyses. Since all other QC criteria associated with these analyses were met, we have attributed the out-of-control surrogate recoveries to the particular sample matrix, rather than to deficiencies in the laboratory's analytical system.

Under some circumstances, depending on the client's requirements, both sets of data will be reported. When only one report is required, the analyst considers whether or not the reextraction was completed within holding time specification in deciding which set of data to report. If holding times were met for both extractions, the analysis that appears to be least affected by the sample matrix will be reported.

Reviewer's Initials/ID L. [illegible] / 1712

Date 5-19-90

QAN3S
880208

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800103

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337383

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037383B06

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/10/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	3	J
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800103

Lab Name: COMPUCHEM LABS Contract: (2-88)-REV6

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337383

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037383B06

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/10/90

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

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0---------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0---------Pyrene	10	U
140-57-8---------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6---------Chlorobenzilate	10	U
119-93-7---------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4---------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4---------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9---------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0---------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 73800103

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337383

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037383B06

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. dec. Date Extracted: 05/10/90

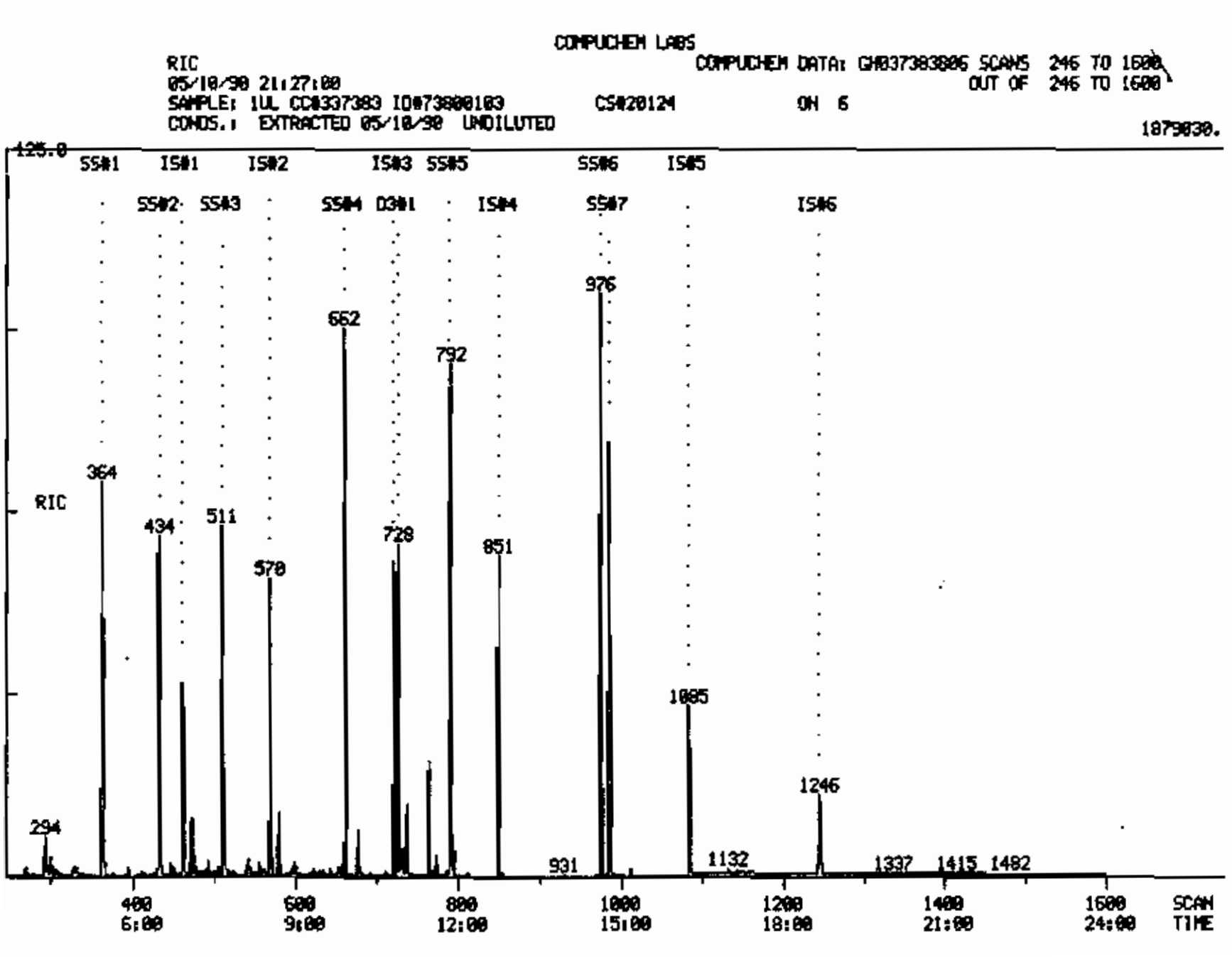
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/10/90

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

Number TICs found: 7

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	68-12-2	FORMAMIDE, N,N-DIMETHYL-	4.40	11	J
2.		UNKNOWN	4.52	5.0	J
3.	78-67-1	PROPANENITRILE, 2,2'-AZOBIS[	7.08	19	J
4.	126-54-5	2,4,8,10-TETRAOXASPIRO[5.5]U	8.70	10	J
5.		UNKNOWN	10.17	6.0	J
6.	6265-30-1	4,7-METHANO-1H-ISOINDOLE-1,3	11.07	11	J
7.		UNKNOWN	11.47	14	J



QUANTITATION REPORT FILE: GH037383806
DATA: GH037383806.TI
05/10/90 21:27:00
SAMPLE: 1UL CC#337383 ID#73900103 CS#20124 ON 6
COND#.: EXTRACTED 05/10/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 1090

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	539 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	509 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLORDBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (IS#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSODIPIPERIDINE (Z9#14)
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	479 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	919 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9017) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9021) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2011) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9019) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9023) <98-07-7>
52	936 N-NITROSO-DI-N-BUTYLAMINE (Z9024) <924-16-3>
53	608 P-CHLORO-M-CREBOL (G2012) <59-50-7>
54	926 P-PHENYLENEDIAMINE (Z9020) <108-45-2>
55	903 SAFROLE (Z9027)
56	525 M-PHENYLENEDIAMINE (Z9026) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2013) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2028) <90-12-0>
59	*499 D10-ACENAPHTHENE (I8#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9031) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9029) <634-90-2>
62	439 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9030) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9028) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9032)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#609 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9033)
82	484 2-NAPHTHYLAMINE (Z9035)
83	483 1-NAPHTHYLAMINE (Z9036)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9037)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9038)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9034)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9039)
92	*467 D10-PHENANTHRENE (I8#4)
93	*459 D12-CHRYSENE (I8#5)
94	*497 D12-PERYLENE
95	#619 2-FLUOROPHENOL (S6#1)
96	#612 D5-PHENOL (S6#2)
97	#447 D5-NITROBENZENE (S3#3)
98	#448 2-FLUOROBIPHENYL (S6#4)
99	#628 2,4,6-TRIBROMOPHENOL (S6#5)
100	#471 D10-PYRENE
101	#496 D14-TERPHENYL (S5#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	462	6:56	1	1.000	A BB	139372.	40.000	NG	3.91
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	43	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	109	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	570	8:33	31	1.000	A BB	435432.	40.000	NG	3.91
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	543	8:09	31	0.953	A BB	4948.	2.766	NG	0.27 Y
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	570	8:33	31	1.000	A BB	63640.	47.158	NG	4.60 NO
47	91	561	8:25	31	0.984	A BB	768.	3.611	NG	0.35 No
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	723	10:51	59	1.000	A BB	261904.	40.000	NQ	3.91
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	728	10:55	59	1.007	A*BB	8748.	4.885	NQ	0.48
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	851	12:46	92	1.000	A BB	423780.	40.000	NQ	3.91
93	240	1085	16:17	93	1.000	A BB	298548.	40.000	NQ	3.91
94	264	1246	18:42	94	1.000	A BB	207320.	40.000	NQ	3.91
95	112	364	5:28	1	0.788	A BB	476136.	112.294	NQ	10.97
96	99	433	6:30	1	0.937	A BB	484544.	95.145	NQ	9.29
97	82	511	7:40	31	0.896	A BB	444244.	78.821	NQ	7.70
98	172	662	9:56	59	0.916	A BB	643712.	76.524	NQ	7.47
99	330	791	11:52	59	1.094	A BB	198220.	139.134	NQ	13.59
100	212	976	14:39	93	0.900	A BV	801464.	109.816	NQ	10.72
101	244	986	14:48	93	0.909	A BB	754778.	114.021	NQ	11.13

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:58		10.000			50.00		0.953	
3	3:56		10.000			50.00		0.993	
4	4:26		10.000			50.00		1.155	
5	4:26		10.000			50.00		0.238	
6	4:48		20.000			50.00		1.241	
7	5:00		10.000			50.00		1.181	
8	5:22		10.000			50.00		0.985	
9	5:47		10.000			50.00		0.663	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:08		10.000			50.00		0.741	
11	6:32		10.000			50.00		1.612	
12	6:37		10.000			50.00		1.827	
13	6:37		10.000			50.00		0.597	
14	6:41		20.000			50.00		1.741	
15	6:44		10.000			50.00		1.465	
16	6:55		10.000			50.00		1.590	
17	6:59		10.000			50.00		2.679	
18	6:59		10.000			50.00		1.589	
19	7:08		10.000			50.00		0.937	
20	7:13		10.000			50.00		1.601	
21	7:16		10.000			50.00		1.262	
22	7:19		10.000			50.00		3.208	
23	7:26		10.000			100.00		1.105	
24	7:26		10.000			100.00		1.105	
25	7:31		10.000			50.00		0.723	
26	7:32		10.000			50.00		0.402	
27	7:29		10.000			50.00		2.046	
28	7:30		10.000			50.00		1.274	
29	7:33		10.000			50.00		1.637	
30	7:35		10.000			50.00		0.987	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:43		10.000			50.00		0.566	
33	7:54		10.000			50.00		0.209	
34	7:59		10.000			50.00		1.033	
35	8:06		10.000			50.00		0.348	
36	8:07		10.000			50.00		0.209	
37	8:06		10.000			50.00		0.374	
38	8:09		10.000			50.00		0.754	
39	8:11	0.99	100.000	0.01	2.77	50.00	0.009	0.164	0.06
40	8:14		10.000			50.00		0.569	
41	8:23		10.000			50.00		0.359	
42	8:30		10.000			50.00		0.440	
43	8:36		10.000			50.00		1.139	
44	8:41		10.000			50.00		0.439	
45	8:41		20.000			50.00		0.368	
46	8:35	1.00	10.000	0.10	47.16	50.00	0.117	0.124	0.94
47	8:30	0.99	10.000	0.10	3.61	50.00	0.001	0.020	0.07
48	8:44		10.000			50.00		0.320	
49	8:47		10.000			50.00		0.291	
50	8:49		10.000			50.00		0.416	
51	8:54		20.000			50.00		0.564	
52	9:05		10.000			50.00		0.226	
53	9:15		10.000			50.00		0.443	
54	9:15		10.000			50.00		0.038	
55	9:21		10.000			50.00		0.312	
56	9:21		10.000			50.00		0.002	
57	9:29		10.000			50.00		0.937	
58	9:38		10.000			50.00		0.558	
59	10:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:44		10.000			100.00		0.616	
61	9:44		10.000			100.00		0.616	
62	9:45		10.000			50.00		0.363	
63	9:52		20.000			50.00		0.432	
64	9:55		20.000			50.00		0.437	
65	10:01		20.000			50.00		0.490	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:08		10.000			50.00		1.231	
67	10:10		10.000			50.00		1.019	
68	10:08		10.000			50.00		0.618	
69	10:18		10.000			50.00		0.578	
70	10:22		20.000			50.00		0.460	
71	10:27		20.000			50.00		0.275	
72	10:32		10.000			50.00		1.469	
73	10:39		10.000			50.00		0.355	
74	10:41		10.000			50.00		1.792	
75	10:50		20.000			50.00		0.355	
76	10:55		10.000			50.00		1.149	
77	10:58		40.000			50.00		0.171	
78	11:00	0.99	10.000	0.10	4.89	50.00	0.027	0.273	0.10
79	11:10		10.000			50.00		0.473	
80	11:07		10.000			50.00		1.658	
81	11:08		10.000			50.00		0.632	
82	11:14		20.000			50.00		0.624	
83	11:20		20.000			50.00		0.579	
84	11:19		20.000			50.00		0.334	
85	11:25		10.000			50.00		1.674	
86	11:33		10.000			50.00		0.458	
87	11:31		10.000			50.00		0.621	
88	11:34		10.000			50.00		1.353	
89	11:38		20.000			50.00		0.331	
90	11:38		20.000			50.00		0.409	
91	11:45		10.000			50.00		2.557	
92	12:48	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:22	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	18:50	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:29	1.00	0.742	1.06	112.29	50.00	2.733	1.217	2.25
96	6:32	1.00	0.948	0.99	95.15	50.00	2.781	1.462	1.90
97	7:42	1.00	0.875	1.02	78.82	50.00	0.816	0.518	1.58
98	9:38	1.00	0.906	1.01	76.52	50.00	1.966	1.285	1.53
99	11:54	1.00	1.118	0.98	139.13	50.00	0.605	0.218	2.78
100	14:42	1.00	10.000	0.09	109.82	50.00	2.480	1.129	2.20
101	14:52	0.99	0.907	1.00	114.02	50.00	2.335	1.024	2.28

```
QUANTITATION REPORT     FILE: GH037383806
DATA: GH037383806.TI
09/10/90 21:27:00
SAMPLE: 1UL CC#337383 ID#73800103          C8#20124              ON  6
CONDS.:  EXTRACTED 09/10/90  UNDILUTED
SUBMITTED BY:       6        ANALYST:      1090

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO   NAME
  1   #467 D10-PHENANTHRENE (IS#4)
  2   604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
  3   443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
  4   367 DIPHENYLAMINE (F3#3)
  5   508 1,3,5-TRINITROBENZENE (Z9#41)
  6   539 PHENACETIN (Z9#42) <62-44-2>
  7   414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
  8   577 DIALLATE (TRANS ISOMER)
  9   541 DIMETHOATE (Z9#44)
 10   433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
 11   485 4-AMINOBIPHENYL (Z9#45)
 12   522 PRONAMIDE (Z9#46)
 13   609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
 14   453 PENTACHLORONITROBENZENE (Z9#47)
 15   444 PHENANTHRENE (Q4#7) <85-01-8>
 16   403 ANTHRACENE (Q4#8) <120-12-7>
 17   426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
 18   516 METHAPYRILENE (Z9#48)
 19   549 CYCLOPHOSPHAMIDE (Z9#49)
 20   431 FLUORANTHENE (Q4#10) <206-44-0>
 21   #459 D12-CHRYSENE (IS#5)
 22   404 BENZIDINE (Q5#2) <92-87-5>
 23   445 PYRENE (Q5#3) <129-00-0>
 24   530 ARAMITE (Z9#50) <140-57-4>
 25   487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26   523 CHLOROBENZILATE (Z9#52)
 27   545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28   415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
 29   488 2-ACETYLAMINO FLUORENE (F5#2)
 30   489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31   423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
 32   533 DIMETHOXYBENZIDINE (Z9#57)
 33   413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
 34   405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
 35   418 CHRYSENE (Q5#8) <218-01-9>
 36   #497 D12-PERYLENE
 37   429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
 38   407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
 39   517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40   409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
 41   406 BENZO(A)PYRENE (Q6#5) <50-32-8>
 42   565 3-METHYLCHLORANTHRENE (F6#2)
 43   566 DIBENZO(A,J)ACRIDINE
 44   437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
 45   419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
 46   408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
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NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	188	851	12:46	1	1.000	A BB	423780.	40.000 NG	32.93
2	198	NOT FOUND							
3	169	NOT FOUND							
4	169	NOT FOUND							
5	213	NOT FOUND							
6	108	NOT FOUND							
7	248	NOT FOUND							
8	234	NOT FOUND							
9	125	NOT FOUND							
10	284	NOT FOUND							
11	169	NOT FOUND							
12	173	NOT FOUND							
13	266	NOT FOUND							
14	237	NOT FOUND							
15	178	NOT FOUND							
16	178	NOT FOUND							
17	149	NOT FOUND							
18	97	NOT FOUND							
19	211	NOT FOUND							
20	202	NOT FOUND							
21	240	1089	16:17	21	1.000	A BB	258548.	40.000 NG	32.93
22	184	NOT FOUND							
23	202	NOT FOUND							
24	185	987	14:48	21	0.910	A BB	1756.	1.482 NG	1.22 NO
25	225	NOT FOUND							
26	139	NOT FOUND							
27	212	NOT FOUND							
28	149	NOT FOUND							
29	181	NOT FOUND							
30	231	NOT FOUND							
31	232	NOT FOUND							
32	244	NOT FOUND							
33	149	NOT FOUND							
34	228	NOT FOUND							
35	228	NOT FOUND							
36	264	1246	18:42	36	1.000	A BB	207320.	40.000 NG	32.93
37	149	NOT FOUND							
38	252	NOT FOUND							
39	256	NOT FOUND							
40	252	NOT FOUND							
41	252	NOT FOUND							
42	268	NOT FOUND							
43	279	NOT FOUND							
44	276	NOT FOUND							
45	278	NOT FOUND							
46	276	NOT FOUND							
47	234	NOT FOUND							

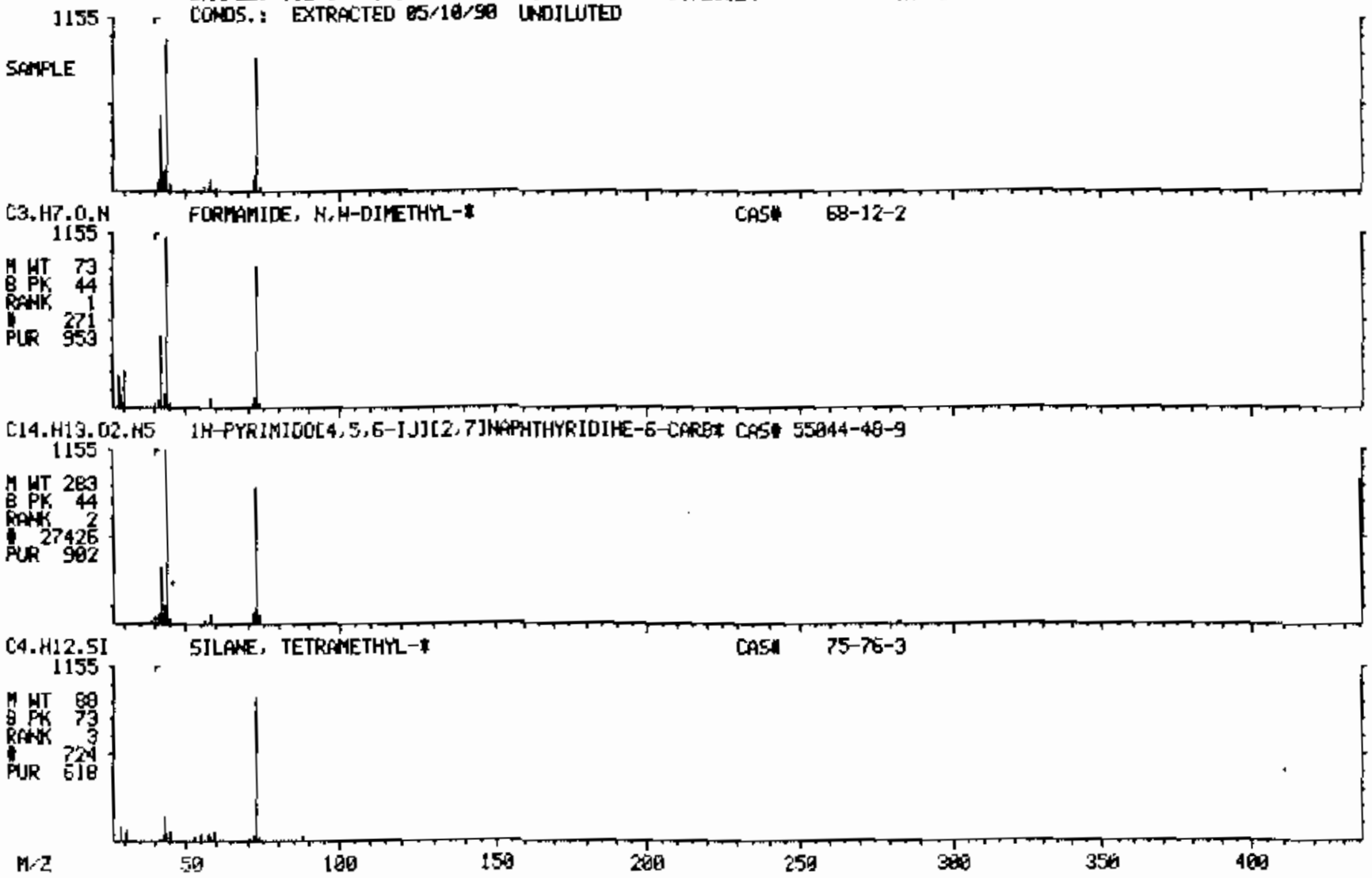
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:48	1.00	10.000	0.10	40.00	40.00	1.000	1.000 ✓	1.00
2	11:40		30.000			50.00		0.160 ✓	
3	11:42		10.000			100.00		0.649	
4	11:42		10.000			100.00		0.649	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
5	12:06		20.000			50.00		0.113	
6	12:06		10.000			50.00		0.514	
7	12:09		10.000			50.00		0.252	
8	12:05		10.000			25.00		0.161	
9	12:23		10.000			50.00		0.165	
10	12:23		10.000			50.00		0.353	
11	12:32		10.000			50.00		0.606	
12	12:34		10.000			50.00		0.458	
13	12:36		20.000			50.00		0.203	
14	12:42		10.000			50.00		0.133	
15	12:50		10.000			50.00		1.182	
16	12:53		10.000			50.00		1.149	
17	13:30		10.000			50.00		1.761	
18	13:56		20.000			50.00		0.369	
19	14:15		50.000			200.00		0.025	
20	14:25		10.000			50.00		1.160	
21	16:22	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:33		10.000			50.00		0.076	
23	14:44		10.000			50.00		1.332	
24	14:54	0.99	20.000	0.05	1.48	50.00	0.005	0.183	0.03
25	15:05		10.000			50.00		0.243	
26	15:06		10.000			50.00		0.792	
27	15:32		20.000			50.00		0.446	
28	15:31		10.000			50.00		0.903	
29	15:54		10.000			50.00		0.460	
30	16:15		10.000			50.00		0.201	
31	16:17		10.000			50.00		0.305	
32	16:13		10.000			50.00		0.170	
33	16:15		10.000			50.00		1.252	
34	16:20		10.000			50.00		1.151	
35	16:24		10.000			50.00		1.044	
36	18:50	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:07		10.000			50.00		2.730	
38	18:03		10.000			100.00		0.967	
39	18:04		10.000			50.00		0.389	
40	18:03		10.000			100.00		0.967	
41	18:42		10.000			50.00		1.091	
42	19:30		10.000			50.00		0.656	
43	21:00		10.000			50.00		0.961	
44	21:38		10.000			50.00		1.384	
45	21:38		10.000			50.00		1.189	
46	22:29		10.000			50.00		1.086	
47	12:12		10.000			25.00		0.221	

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037383806 # 294 BASE M/Z: 44
ENHANCED (100 2N 0T) RIC: 94463.
ON 6

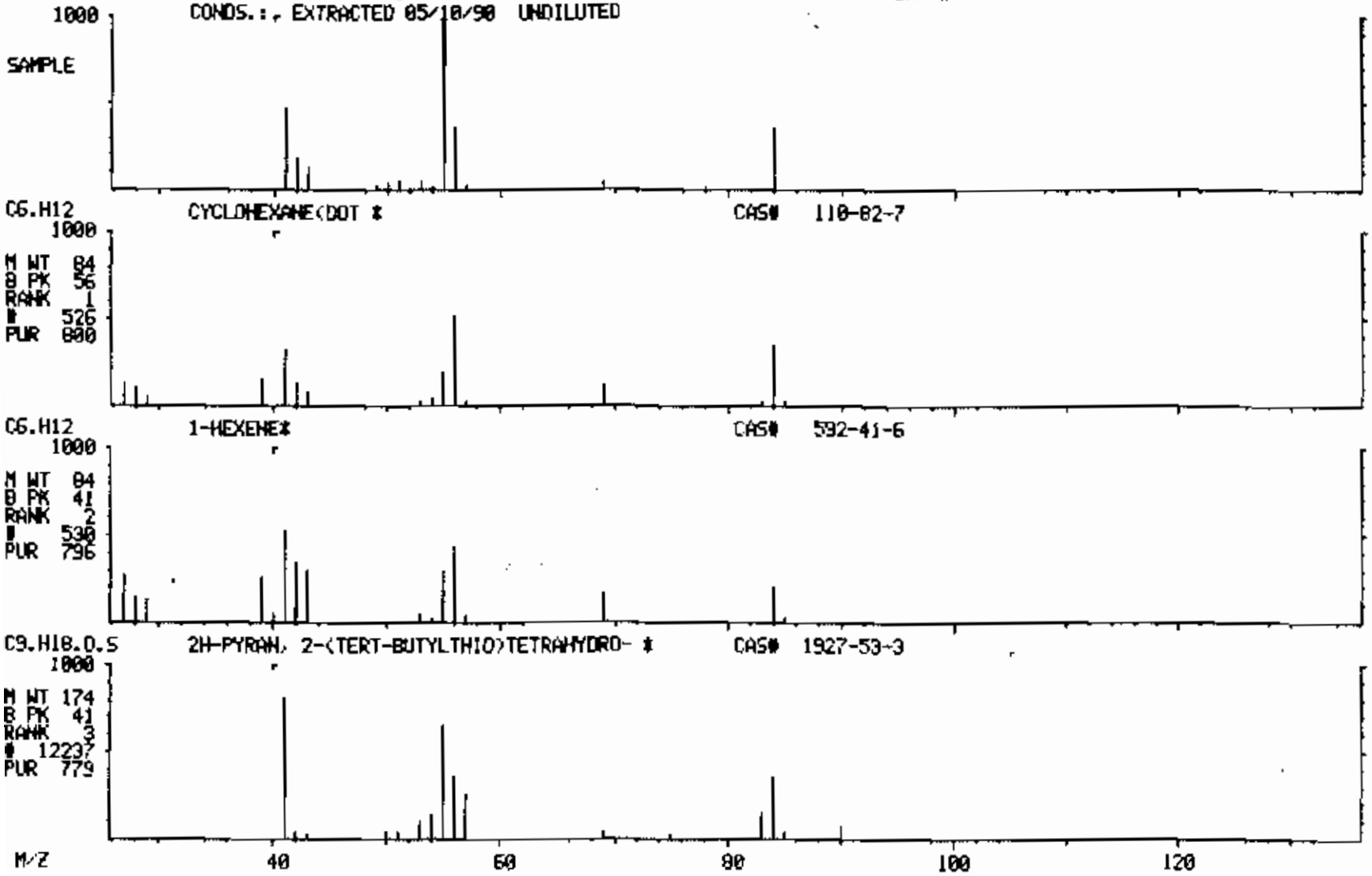
05/10/90 21:27:00 + 4:25
SAMPLE: 1UL CC#337383 ID#73000103 CS#20124
CONDS.: EXTRACTED 05/10/90 UNDILUTED



COMPUCHEM LABS, INC.

05/10/90 21:27:00 + 4:32
SAMPLE: 1UL CC#337383 ID#73000103 CS#20124
CONDS.:, EXTRACTED 05/10/90 UNDILUTED

MIO LIBRARY SEARCH
DATA: GH037393B06 # 302 BASE M/Z: 55
ENHANCED (100 2N 0T) RIC: 47935.
ON 6



COMPUCHEM LABS, INC.

05/10/90 21:27:00 + 7:06
SAMPLE: 1UL CC#337303 ID#73000103 CS#20124
CONDS.: EXTRACTED 05/10/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GM037303B06 # 473 BASE M/Z: 69
ENHANCED (10B 2N 0T) RIC: 141311.
ON 6

1000

SAMPLE

C8.H12.N4 PROPANENITRILE, 2,2'-AZOBIS[2-METHYL- * CAS# 78-67-1

1000

M WT 164
B PK 69
RANK 1
10341
PUR 917

C8.H14 CYCLOPENTANE, 2-PROPENYL- * CAS# 3524-75-2

1000

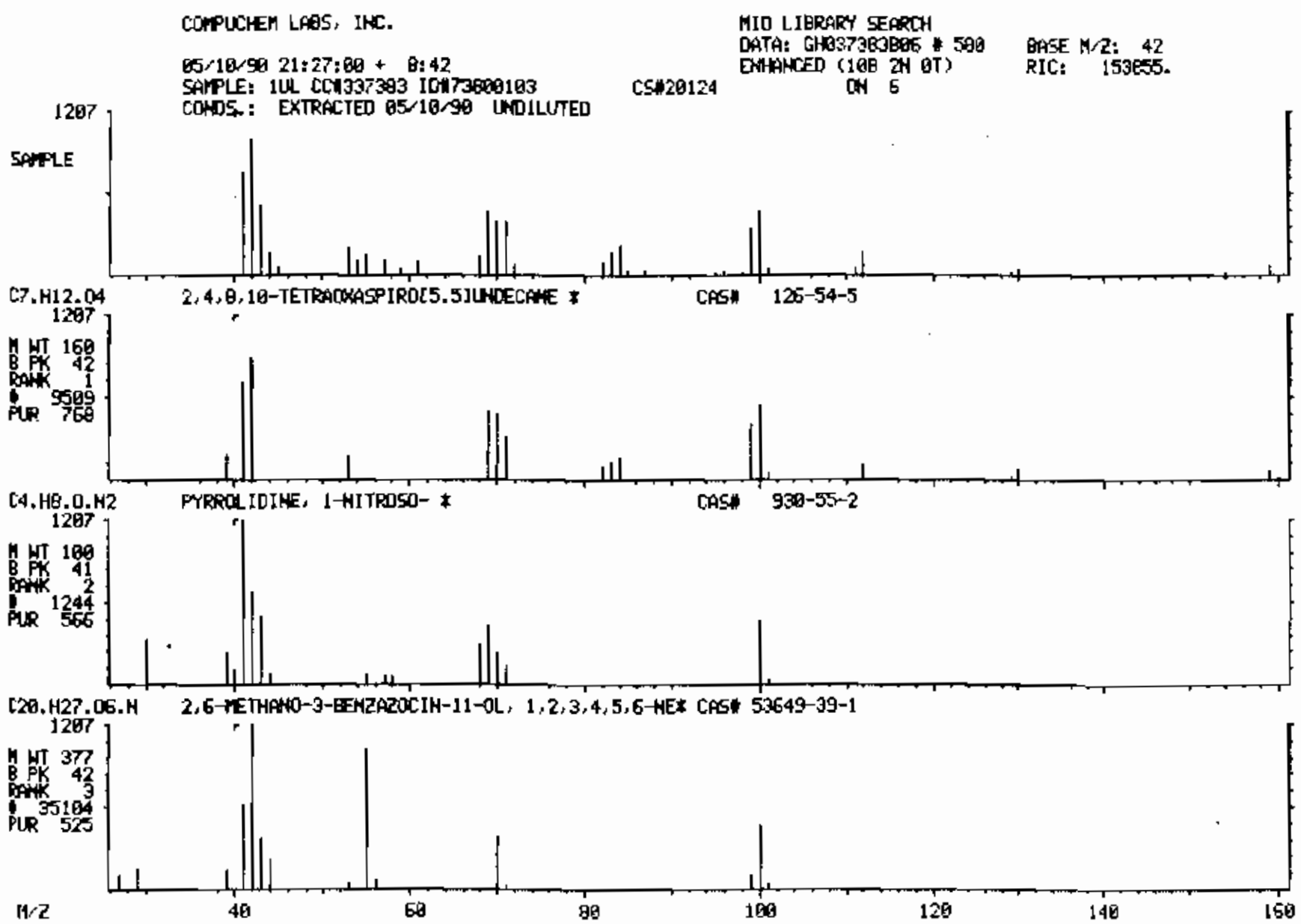
M WT 110
B PK 69
RANK 2
1989
PUR 717

C5.H9.BR 2-PENTENE, 4-BROMO- * CAS# 1809-26-3

1000

M WT 148
B PK 69
RANK 3
7219
PUR 676

M/Z 50 100 150 200 250 300 350 40

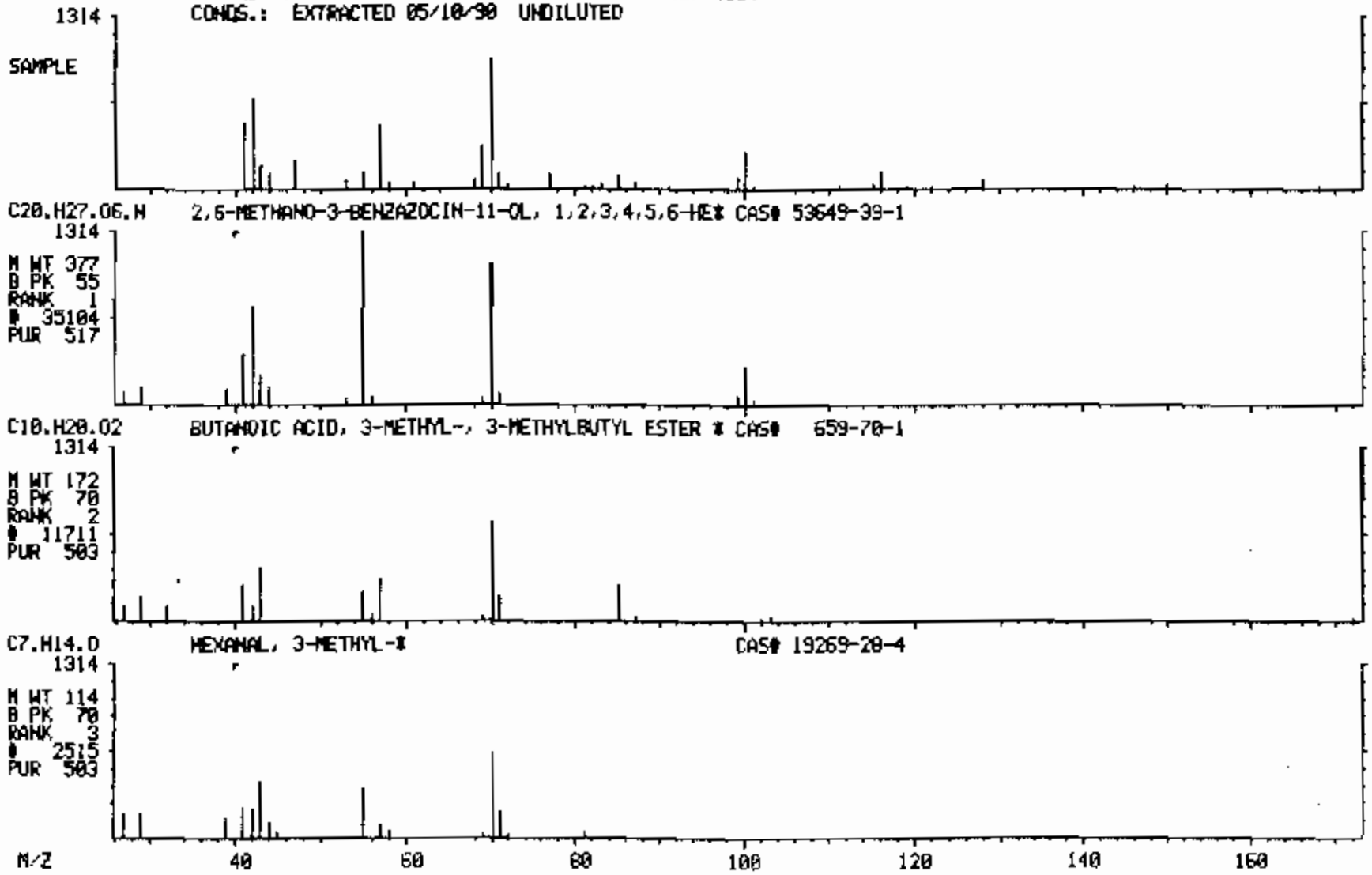


NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037383806 # 678 BASE M/Z: 70
ENHANCED (100 2N 0T) RIC: 109567.
ON 6

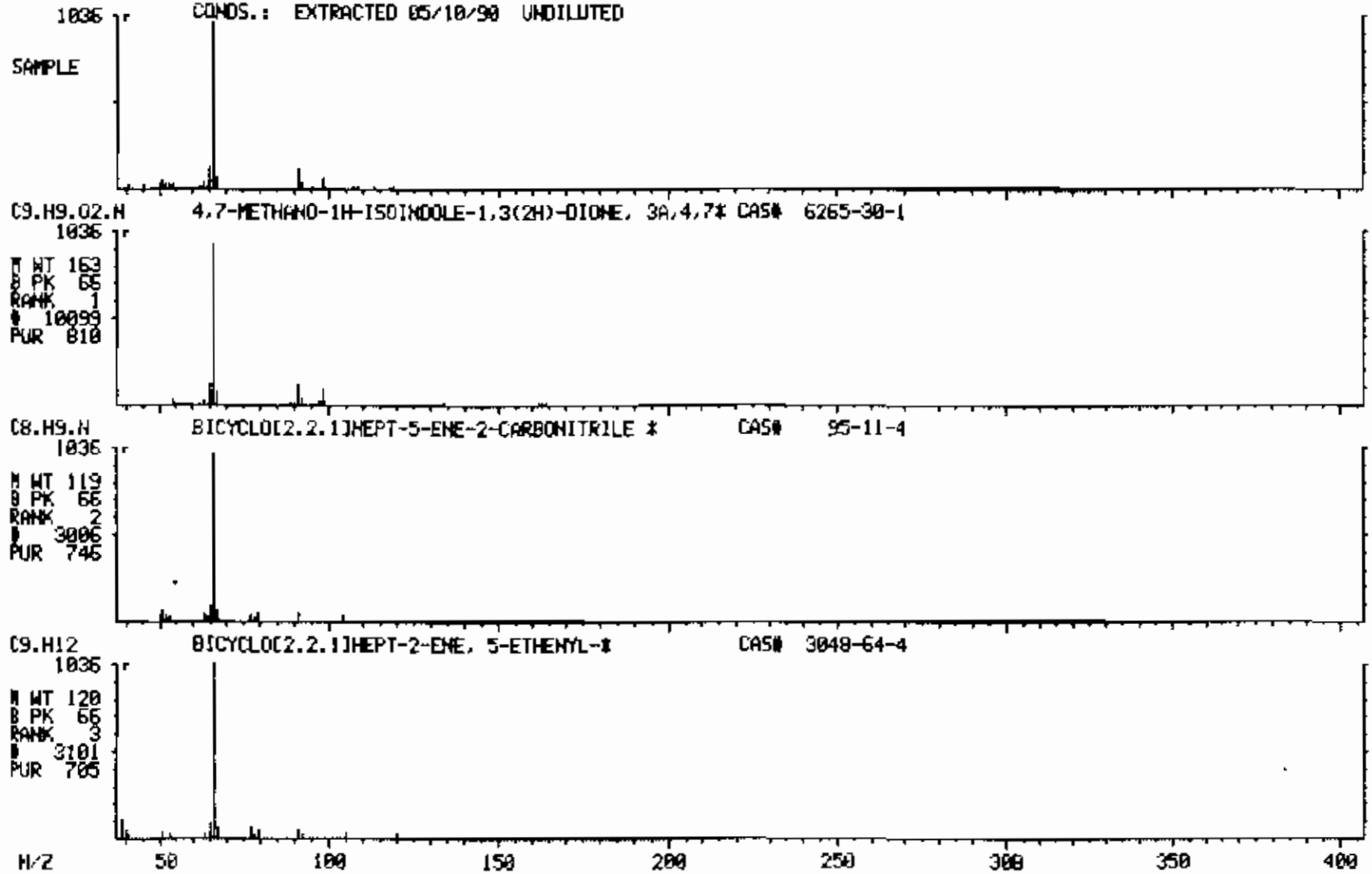
05/10/90 21:27:00 + 10:10
SAMPLE: 1UL CC#337383 ID#73800103 CS#20124
CONDS.: EXTRACTED 05/10/90 UNDILUTED



COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037383B06 # 738 BASE M/Z: 66
ENHANCED (100 2H 0T) RIC: 169983.
ON 6

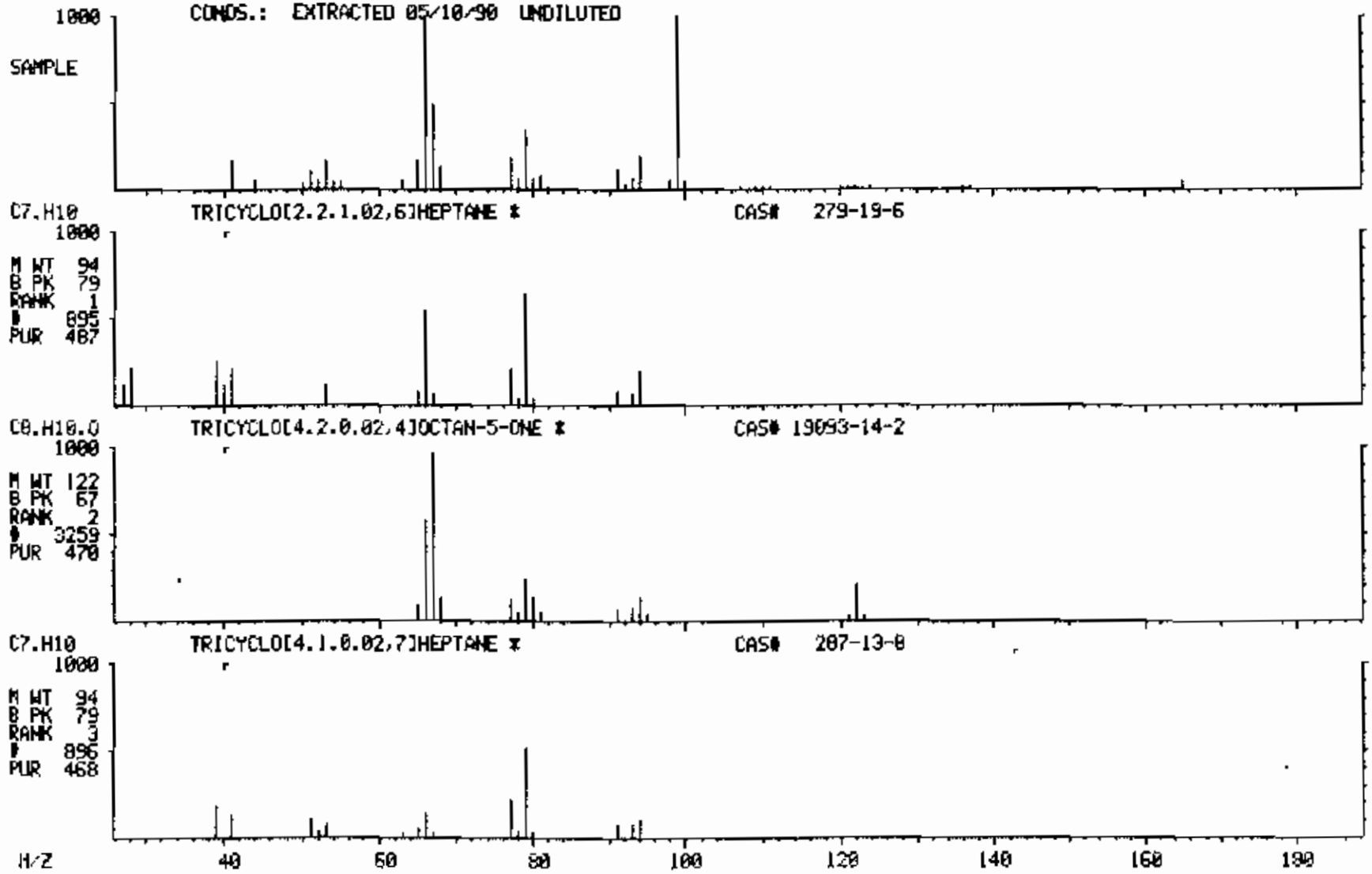
05/10/90 21:27:00 + 11:04
SAMPLE: 1UL CC#337383 ID#73808103 CS#20124
CONDS.: EXTRACTED 05/10/90 UNDILUTED



COMPUCHEM LABS, INC.

05/10/90 21:27:00 + 11:29
SAMPLE: 1UL CC#337383 ID#73800103 CS#20124
CONDS.: EXTRACTED 05/10/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GH037383B06 # 765 BASE M/Z: 99
ENHANCED (100 2N 0T) RIC: 280575.
ON 6



LAB INSTRUCTIONS: PPS#: ________

CASE#RA090 SDG# 0507

MAST5-6

RECEIPT DATE: 05/08/90   CASE#: 20124

SEMI-VOLATILE
GC/MS WORKSHEET   COMPUCHEM#: 337383

J[ ] J3[ ] D[ ] (:1)
2J[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER;3rd Ed 8270

ORIGINAL

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

==

SAMPLE ID#: 73800103

==

GC/MS ANALYSIS

Volumes mixed: BN 200.u ul   Acid ________ ul
Internal Standard Volume Added 5̶0 ul
Mixed Sample Volume Injected 1.0 ul
Date Sample Bottle Analyzed 5 / 10 / 90
DFTPP Filename DF90051080 6 Disk ( )
Standard Filename HG90051080 6 Disk ( )
Sample Filename GH037J83806 Disk ( )

[redacted]

ANALYST(S): Injection 1090 DMoore   Work-up 1090

==

GC/MS REVIEW

CONDITION CODE: OK

Extraneous Peak Search Results   Disposition: [✓] Complete

[ ] Reinjection required

\# of Peaks Found: 7   [ ] Reextraction required

\# of Hits: 1   [ ] Dilute (:1)

\# of Surrogate Outliers: 0   [ ] Reinject Neat

Quality Assurance Notice(s):   [ ] Send to QA

\# Notices Required 1

COMMENTS:

*GC/MS Review ________ Date 5 / 14 / 90 Auditor ________ Date 5 / 14 / 90

==

REPORT INTEGRATION   Total # of Injections: ________
Final Reportable Package(s): GH037J83806 / ________

==

QA COMMENTS:

Initials ________ Date ___/___/___

==

FINAL REVIEW: Initials ________ Date ___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: A.S.D. Annetta Downing

DATE ASSIGNED 5/10/90

EMP ID NUMBER 1733

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL(ml) SV B/N	FINAL EXTRACT VOL(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337386	-079	20124		SS	337383	283	500ml	1.0ml		13	1	500ml Use 500ml sample volume for SS only
2	337387				SS	337383	283	500ml	1.0ml		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337388				BS			1,000ml	1.0ml		13	1	Conc. to 0.5ml final volume
4	337381			73800101			183	1,000ml	1.0ml		13	1	* add 1.0 ml validation spike to BS only
5	337382			73800102			283	1,000ml	1.0ml		13	1	use 337381, 82, 83, 85 for QC
6	337383			73800103			183	1,000 ml	1.0ml		13	1	
7	337385			73800104			283	1,000ml	1.0ml		13	1	
8	337311		20071	GKIS			183	1,000ml	1.0ml		13	1	
9	337312			EP6D			283	1,000ml	1.0ml		13	1	
10	335591R		20015	RCB-D Basin			#2	1,000ml	1.0ml		13	1	
11													
12													
13	337915			SBLK 76	B1			1,000ml	1.0ml		13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO:	393				
	AMT.	1.0ml				
	LOT	31922				
						valid
SPIKE	NO.		3012	2021		spike
	AMT.		1.0ml	1.0ml		2028 1.0
	LOT		31880	31881		31338

MANUAL COUNTER 510/886

FINAL VOLUME VERIFIED Annetta S. Downing

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY C. Lentz 5/10

SURROGATE & SPIKE ADDED CORRECTLY DP 5/10/90 (INT / DATE)

ISSUED BY: 1733

1080

NYDEC RA090 0587 ORGANIC

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	462	139000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	1(
481	79		PYRIDINE (Z901)				BDL	1(
509	69		ETHYLMATHACRYLATE (Z902)				BDL	1(
542	89		PARALDEHYDE (Z903)				BDL	1(
510	93		2-PICOLINE (Z9056)				BDL	2(
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1(
543	80		METHYL METHANE SULFONATE (Z				BDL	1(
499	102		N-NITROSODIETHYLAMINE (Z906				BDL	1(
514	109		ETHYL METHANESULFONATE (Z90				BDL	1(
610	94		PHENOL (G103)				BDL	1(
473	93		ANILINE (G104)				BDL	1(
905	167		PENTACHLOROETHANE (Z908)				BDL	1(
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	2(
601	128		2-CHLOROPHENOL (G106)				BDL	1(
421	146		1,3-DICHLOROBENZENE (G107)				BDL	1(
506	91		BENZYL CHLORIDE (Z909)				BDL	1(
422	146		1,4-DICHLOROBENZENE (G108)				BDL	1(
474	108		BENZYL ALCOHOL (G109)				BDL	1(
420	146		1,2-DICHLOROBENZENE (G110)				BDL	1(
620	108		2-METHYLPHENOL (G111)				BDL	1(
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	1(
621	108		3-METHYLPHENOL (F102)				BDL	1(
622	108		4-METHYLPHENOL (G113)				BDL	1(
528	100		N-NITROSOPYRROLIDINE (Z910				BDL	1(
544	116		N-NITROSOMORPHOLINE (Z912)				BDL	1(
500	105		ACETOPHENONE (Z911)				BDL	1(
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	1(
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	1(
436	117		HEXACHLOROETHANE (G115)				BDL	1(
460	136	I	D8-NAPHTHALENE (IS02)	570	439000	40.0		
440	77		NITROBENZENE (G116)				BDL	1(
502	114		N-NITROSODIPIPERIDINE (Z911				BDL	1(
438	82		ISOPHORONE (G202)				BDL	1(
603	107		2,4-DIMETHYLPHENOL (G204)				BDL	1(
606	139		2-NITROPHENOL (G203)				BDL	1(
451	180		1,3,5-TRICHLOROBENZENE (Z90				BDL	1(
518	125		BENZAL CHLORIDE (Z9016)				BDL	1(
625	122		BENZOIC ACID (G205)			2.8	3J	10(
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	1(
602	162		2,4-DICHLOROPHENOL (G207)				BDL	1(
446	180		1,2,4-TRICHLOROBENZENE (G20				BDL	1(
439	128		NAPHTHALENE (G209)				BDL	1(

CORRECTED/REVIEWED BY S. Mendl
(QC/MS DATA REVIEWER)

DATE 5-14-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (G2#10)				BDL	1(
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	2(
524	108		O-PHENYLENEDIAMINE (Z9#19)			~~47.2~~	~~47~~ BDL	1(
515	91		ALPHA,ALFHA DIMETHYLPHENETH			~~3.6~~	~~4d~~ BDL	1(
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	1(
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	1(
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	1(
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	2(
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	1(
608	107		P-CHLORO-M-CRESOL (G2#12)				BDL	1(
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	1(
503	162		SAFROLE (Z9#27)				BDL	1(
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	1(
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	1(
569	142		1-METHYLNAPHTHALENE (T2#28)				#DL	1(
495	164	I	DIO-ACENAPHTHENE (IB#3)	723	262000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	1(
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	1(
435	236		HEXACHLOROCYCLOPENTADIENE (				BDL	1(
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	2(
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	2(
527	162		ISOSAFROLE (Z9#30)				BDL	2(
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	1(
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	1(
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	1(
478	65		2-NITROANILINE (G3#6)				BDL	1(
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	2(
491	168		1,4-DINITROBENZENE (F3#2)				BDL	2(
425	163		DIMETHYL PHTHALATE (G3#7)				BDL	1(
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	1(
402	152		ACENAPHTHYLENE (G3#8)				BDL	1(
479	138		3-NITROANILINE (G3#9)				#DL	2(
401	153		ACENAPHTHENE (G3#10)				BDL	1(
605	184		2,4-DINITROPHENOL (G3#11)				BDL	4(
607	109		4-NITROPHENOL (G3#12)			~~4.9~~	~~BD~~BDL	1(
427	165		2,4-DINITROTOLUENE (G3#14)				BDL	1(
476	168		DIBENZOFURAN (G3#13)				BDL	1(
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	1(
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	2(
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	2(
630	231		2,3,4,6-TETRACHLOROPHENOL (				BDL	2(
424	149		DIETHYL PHTHALATE (G3#16)				BDL	1(
519	97		ZINOPHOS (Z9#38)				BDL	1(

CORRECTED/REVIEWED BY L. Heinl
(GC/MS DATA REVIEWER)

DATE 5-14-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1
432	166		FLUORENE (03#18)				#DL	1
480	138		4-NITROANILINE (03#19)				#DL	2
498	192		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	2
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				#DL	1
467	188	I	D10-PHENANTHRENE (IS#4)	851	424000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1089	299000	40.0		
497	264	I	D12-PERYLENE	1246	207000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			112.0	56.%	
612	99	S	D5-PHENOL (SS#2)			95.1	48.%	
447	82	S	D5-NITROBENZENE (SS#3)			78.8	79.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			76.5	76.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			139.0	69.%	
471	212	S	D10-PYRENE			110.0	110.%	
496	244	S	D14-TERPHENYL (SS#6)			114.0	114.%	
CHECKSUMS:								
14268.				4937	1726000.	1023.9		59.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-14-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	GUANT REPORT VALUE	GUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	112.0	200.0	56.	21-100	X
96	612	D5-PHENOL (SS#2)	95.1	200.0	48.	10- 94	X
97	447	D5-NITROBENZENE (SS#3)	78.8	100.0	79.	35-114	X
98	448	2-FLUOROBIPHENYL (SS#4)	76.5	100.0	76.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	139.0	200.0	69.	10-123	X
*1	471	D10-PYRENE	110.0	100.0	110.	40-130*	X
*1	496	D14-TERPHENYL (SS#6)	114.0	100.0	114.	33-141	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = GUANT REPORT VALUE / GUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

GUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{1000\ \text{UL}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

CORRECTED/REVIEWED BY L. Mondt
(QC/MS DATA REVIEWER)

DATE 5-19-90

COMPUCHEM # 037383 FILE: GH037383B06 COMPOUND LIST 173 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	851	424000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	1
567	169		DIPHENYLAMINE (F3#3)				BDL	1
908	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	2
539	108		PHENACETIN (Z9#42)				BDL	1
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1
577	234		DIALLATE (TRANS ISOMER)				BDL	1
541	125		DIMETHOATE (Z9#44)				BDL	1
433	284		HEXACHLOROBENZENE (G4#5)				BDL	1
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	1
522	173		PRONAMIDE (Z9#46)				BDL	1
609	266		PENTACHLOROPHENOL (G4#6)				BDL	2
453	236		PENTACHLORONITROBENZENE (Z9				BDL	1
444	178		PHENANTHRENE (G4#7)				BDL	1
403	178		ANTHRACENE (G4#8)				BDL	1
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	1
516	97		METHAPYRILENE (Z9#48)				BDL	2
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	5
431	202		FLUORANTHENE (G4#1D)				BDL	1
459	240	I	D12-CHRYSENE (IS#5)	1085	259000	40.0		
404	184		BENZIDINE (G5#2)				BDL	1
445	202		PYRENE (G5#3)				BDL	1
530	185		ARAMITE (Z9#50)			1.5	2.2 BDL	2
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1
523	139		CHLOROBENZILATE (Z9#52)				BDL	1
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	2
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	1
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	1
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	1
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	1
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	1
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	1
418	228		CHRYSENE (G5#8)				BDL	1
497	264	I	D12-PERYLENE	1246	207000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	1
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	1
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	1
406	252		BENZO(A)PYRENE (G6#5)				BDL	1
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	1
566	279		DIBENZO(A,J)ACRIDINE				BDL	1

CORRECTED/REVIEWED BY S. Hewett
(QC/MS DATA REVIEWER)

DATE 5-14-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	1
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	1
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	1
576	234		DIALLATE (CIS ISOMER)				#DL	1
531	234		DIALLATE (TOTAL)				BDL	1
CHECKSUMS:								
10114.				3182	890000.	121.5		2.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-14-96

CORRECTION FACTOR CALCULATION:

$$\frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\text{ML}}{1000.\text{ML}} \times 1.0\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hewitt
(QC/MS DATA REVIEWER)

DATE 5-14-90

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experiance with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7J800104

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337385

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH0J7J85C06

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	10	U
123-63-7	Paraldehyde	3	J
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3	1,3,5-Trichlorobenzene	10 U
98-87-3	Benzal chloride	10 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	9 J
106-47-8	4-Chloroaniline	10 U
87-65-0	2,6-Dichlorophenol	20 U
95-54-5	o-Phenylenediamine	10 U
122-09-8	dimethylphenylethylamine	10 U
1888-71-7	Hexachloropropene	10 U
87-68-3	Hexachlorobutadiene	10 U
87-61-6	1,2,3-Trichlorobenzene	10 U
98-07-7	Benzotrichloride	20 U
924-16-3	N-Nitroso-di-n-butylamine	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
106-50-3	P-Phenylenediamine	10 U
94-59-7	Safrole	10 U
106-50-3	m-Phenylenediamine	10 U
91-57-6	2-Methylnaphthalene	10 U
90-12-0	1-Methylnaphthalene	10 U
95-94-3	1,2,4,5-Tetrachlorobenzene	10 U
634-90-2	1,2,3,5-Tetrachlorobenzene	10 U
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	20 U
95-95-4	2,4,5-Trichlorophenol	20 U
120-58-1	Isosafrole	20 U
91-58-7	2-Chloronaphthalene	10 U
90-13-1	1-Chloronaphthalene	10 U
634-66-2	1,2,3,4-Tetrachlorobenzene	10 U
88-74-4	2-Nitroaniline	10 U
130-15-4	1,4-Naphthoquinone	20 U
100-25-4	1,4-Dinitrobenzene	20 U
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800104

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337385

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037385C06

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0---------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0---------Pyrene	10	U
140-57-8---------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6---------Chlorobenzilate	10	U
119-93-7---------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4---------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4---------3,3'-Dimethoxybenzidine	10	U
56-55-3---------Benzo(a)Anthracene	10	U
218-01-9---------Chrysene	10	U
117-81-7---------bis(2-Ethylhexyl)Phthalate	2	J
117-84-0---------Di-n-Octyl Phthalate	10	U
205-99-2---------Benzo(b)Fluoranthene	10	U
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9---------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0---------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 70800104

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337385

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037385C06

Level: (low/med) LOW Date Received: 05/08/90

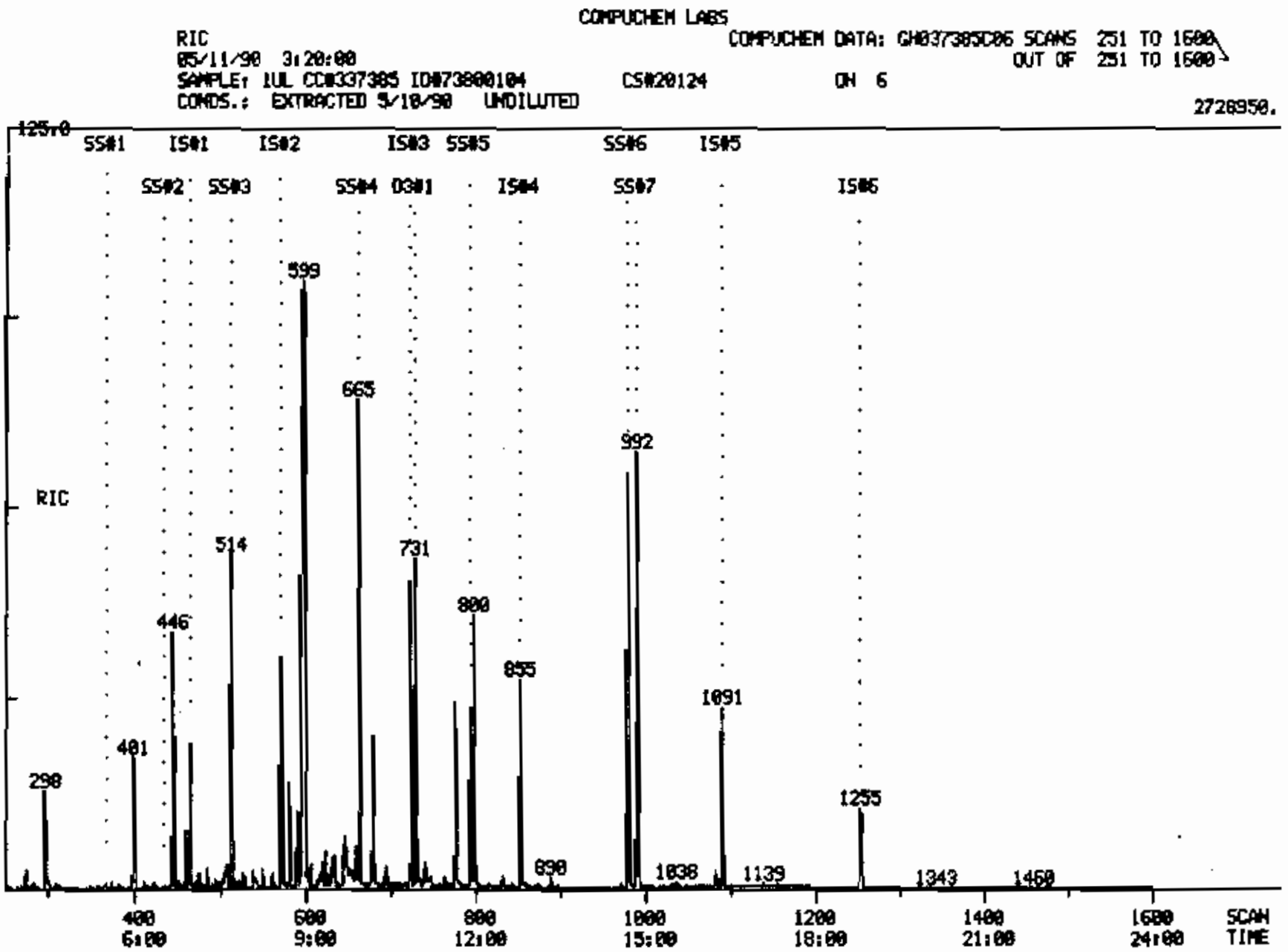
% Moisture: not dec. dec. Date Extracted: 05/10/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/11/90

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

Number TICs found: 18 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.15	5.0	J
2.	68-12-2	FORMAMIDE, N,N-DIMETHYL-	4.47	25	J
3.		UNKNOWN	6.00	48	J
4.		UNKNOWN	6.68	56	J
5.		UNKNOWN	6.90	12	J
6.	78-67-1	PROPANENITRILE, 2,2'-AZOBIS[	7.13	5.0	J
7.		UNKNOWN	7.28	5.0	J
8.		ETHYLDIMETHYLBENZENE	7.63	12	J
9.	126-54-5	2,4,8,10-TETRAOXASPIRO[5.5]U	8.72	14	J
10.		UNKNOWN	8.87	14	J
11.	2873-97-4	2-PROPENAMIDE, N-(1,1-DIMETH	8.99	300	J
12.		(1,1-DIMETHYLETHYL)PHENOL	9.12	3.0	J
13.		(1,1-DIMETHYLETHYL)PHENOL	9.30	6.0	J
14.		UNKNOWN	9.52	8.0	J
15.		UNKNOWN	9.70	20	J
16.		UNKNOWN	10.20	20	J
17.		UNKNOWN	11.67	34	J
18.		UNKNOWN	12.00	34	J



1066

NYDEC RA090 0507 ORGANIC

QUANTITATION REPORT FILE: QH037385C06
DATA: QH037385C06.TI
05/11/90 3:20:00
SAMPLE: 1UL CC#337385 ID#73800104 CS#20124 ON 6
CONDS.: EXTRACTED 5/10/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	509 PENTACHLORDETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLORDISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (IS#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSODIPIPERIDINE (Z9#14)
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	491 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	479 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*499 D10-ACENAPHTHENE (IS#3)
60	497 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	464 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*499 D12-CHRYSENE (IS#5)
94	*497 D12-PERYLENE
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE
101	#496 D14-TERPHENYL (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	465	6:59	1	1.000	A BB	159340.	40.000	NG	4.94
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	300	4:30	1	0.645	A BB	2868.	3.025	NG	0.37
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	509	7:38	1	1.095	A*BB	4776.	1.214	NG	0.15
31	136	572	8:35	31	1.000	A BB	496872.	40.000	NG	4.94
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	160	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	160	NOT FOUND								
43	128	574	8:37	31	1.003	A BB	132660.	9.379	NG	1.16
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	572	8:35	31	1.000	A BB	72624.	47.161	NG	5.82
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	160	NOT FOUND								
51	159	NOT FOUND								
52	84	605	9:05	31	1.058	A*VB	18516.	6.599	NG	0.81
53	107	620	9:16	31	1.084	A*BB	20476.	3.718	NG	0.46
54	108	620	9:16	31	1.084	A BB	1428.	2.989	NG	0.37
55	162	NOT FOUND								
56	108	620	9:16	31	1.084	A BB	1428.	60.583	NG	7.48

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	726	10:53	59	1.000	A BB	335264.	40.000	NG	4.94
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	731	10:38	59	1.007	A BB	10788.	4.706	NG	0.58 NO
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	854	12:49	92	1.000	A BB	506712.	40.000	NG	4.94
93	240	1091	16:22	93	1.000	A BB	337192.	40.000	NG	4.94
94	264	1255	18:50	94	1.000	A BB	276212.	40.000	NG	4.94
95	112	368	5:31	1	0.791	A BB	9284.	1.915	NG	0.24
96	99	NOT FOUND								
97	82	514	7:43	31	0.899	A BB	523184.	81.349	NG	10.09
98	172	665	9:59	59	0.916	A BB	803888.	74.655	NG	9.22
99	330	795	11:56	59	1.095	A BB	81684.	44.790	NG	5.53
100	212	981	14:43	93	0.899	A BV	1116680.	117.321	NG	14.49
101	244	992	14:53	93	0.909	A BB	953553.	110.453	NG	13.64

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:58		10.000			50.00		0.953 ✓	
3	3:56		10.000			50.00		0.993	
4	4:26		10.000			50.00		1.155	
5	4:26	1.01	10.000	0.06	3.03	50.00	0.014	0.238	0.06
6	4:48		20.000			50.00		1.241	
7	5:00		10.000			50.00		1.181	
8	5:22		10.000			50.00		0.985	
9	5:47		10.000			50.00		0.663	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:08		10.000			50.00		0.741	
11	6:32		10.000			50.00		1.612	
12	6:37		10.000			50.00		1.827	
13	6:37		10.000			50.00		0.597	
14	6:41		20.000			50.00		1.741	
15	6:44		10.000			50.00		1.465	
16	6:55		10.000			50.00		1.590	
17	6:59		10.000			50.00		2.679	
18	6:59		10.000			50.00		1.589	
19	7:08		10.000			50.00		0.937	
20	7:13		10.000			50.00		1.601	
21	7:16		10.000			50.00		1.262	
22	7:19		10.000			50.00		3.208	
23	7:26		10.000			100.00		1.105	
24	7:26		10.000			100.00		1.105	
25	7:31		10.000			50.00		0.723	
26	7:32		10.000			50.00		0.402	
27	7:29		10.000			50.00		2.046	
28	7:30		10.000			50.00		1.274	
29	7:33		10.000			50.00		1.637	
30	7:35	1.01	10.000	0.11	1.21	50.00	0.024	0.987	0.02
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:43		10.000			50.00		0.566	
33	7:54		10.000			50.00		0.209	
34	7:59		10.000			50.00		1.033	
35	8:06		10.000			50.00		0.348	
36	8:07		10.000			50.00		0.209	
37	8:06		10.000			50.00		0.374	
38	8:09		10.000			50.00		0.734	
39	8:11		100.000			50.00		0.164	
40	8:14		10.000			50.00		0.569	
41	8:23		10.000			50.00		0.359	
42	8:30		10.000			50.00		0.440	
43	8:36	1.00	10.000	0.10	9.38	50.00	0.214	1.139	0.19
44	8:41		10.000			50.00		0.439	
45	8:41		20.000			50.00		0.368	
46	8:35	1.00	10.000	0.10	47.16	50.00	0.117	0.124	0.94
47	8:30		10.000			50.00		0.020	
48	8:44		10.000			50.00		0.320	
49	8:47		10.000			50.00		0.291	
50	8:49		10.000			50.00		0.416	
51	8:54		20.000			50.00		0.564	
52	9:05	1.00	10.000	0.11	6.60	50.00	0.030	0.226	0.13
53	9:15	1.00	10.000	0.11	3.72	50.00	0.033	0.443	0.07
54	9:15	1.00	10.000	0.11	2.99	50.00	0.002	0.038	0.06
55	9:21		10.000			50.00		0.312	
56	9:21	1.00	10.000	0.11	60.58	50.00	0.002	0.002	1.21
57	9:29		10.000			50.00		0.937	
58	9:38		10.000			50.00		0.558	
59	10:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:44		10.000			100.00		0.616	
61	9:44		10.000			100.00		0.616	
62	9:45		10.000			50.00		0.363	
63	9:52		20.000			50.00		0.432	
64	9:55		20.000			50.00		0.437	
65	10:01		20.000			50.00		0.490	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:08		10.000			50.00		1.231	
67	10:10		10.000			50.00		1.019	
68	10:08		10.000			50.00		0.618	
69	10:18		10.000			50.00		0.578	
70	10:22		20.000			50.00		0.460	
71	10:27		20.000			50.00		0.275	
72	10:32		10.000			50.00		1.469	
73	10:39		10.000			50.00		0.355	
74	10:41		10.000			50.00		1.792	
75	10:50		20.000			50.00		0.355	
76	10:55		10.000			50.00		1.149	
77	10:58		40.000			50.00		0.171	
78	11:00	1.00	10.000	0.10	4.71	50.00	0.026	0.273	0.09
79	11:10		10.000			50.00		0.473	
80	11:07		10.000			50.00		1.658	
81	11:08		10.000			50.00		0.632	
82	11:14		20.000			50.00		0.624	
83	11:20		20.000			50.00		0.579	
84	11:19		20.000			50.00		0.334	
85	11:25		10.000			50.00		1.674	
86	11:33		10.000			50.00		0.458	
87	11:31		10.000			50.00		0.621	
88	11:34		10.000			50.00		1.353	
89	11:38		20.000			50.00		0.331	
90	11:38		20.000			50.00		0.409	
91	11:45		10.000			50.00		2.557	
92	12:48	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:22	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	18:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:29	1.01	0.742	1.07	1.92	50.00	0.047	1.217	0.04
96	6:32		0.948			50.00		1.462	
97	7:42	1.00	0.875	1.03	81.35	50.00	0.842	0.518	1.63
98	9:58	1.00	0.906	1.01	74.65	50.00	1.918	1.285	1.49
99	11:54	1.00	1.118	0.98	44.79	50.00	0.195	0.218	0.90
100	14:42	1.00	10.000	0.09	117.32	50.00	2.649	1.129	2.35
101	14:52	1.00	0.907	1.00	110.45	50.00	2.262	1.024	2.21

QUANTITATION REPORT FILE: QH037385C06
DATA: QH037385C06.TI
05/11/90 3:20:00
SAMPLE: 1UL CC#337385 ID#73800104 CS#20124 ON 6
CONDS.: EXTRACTED 5/10/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 917

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

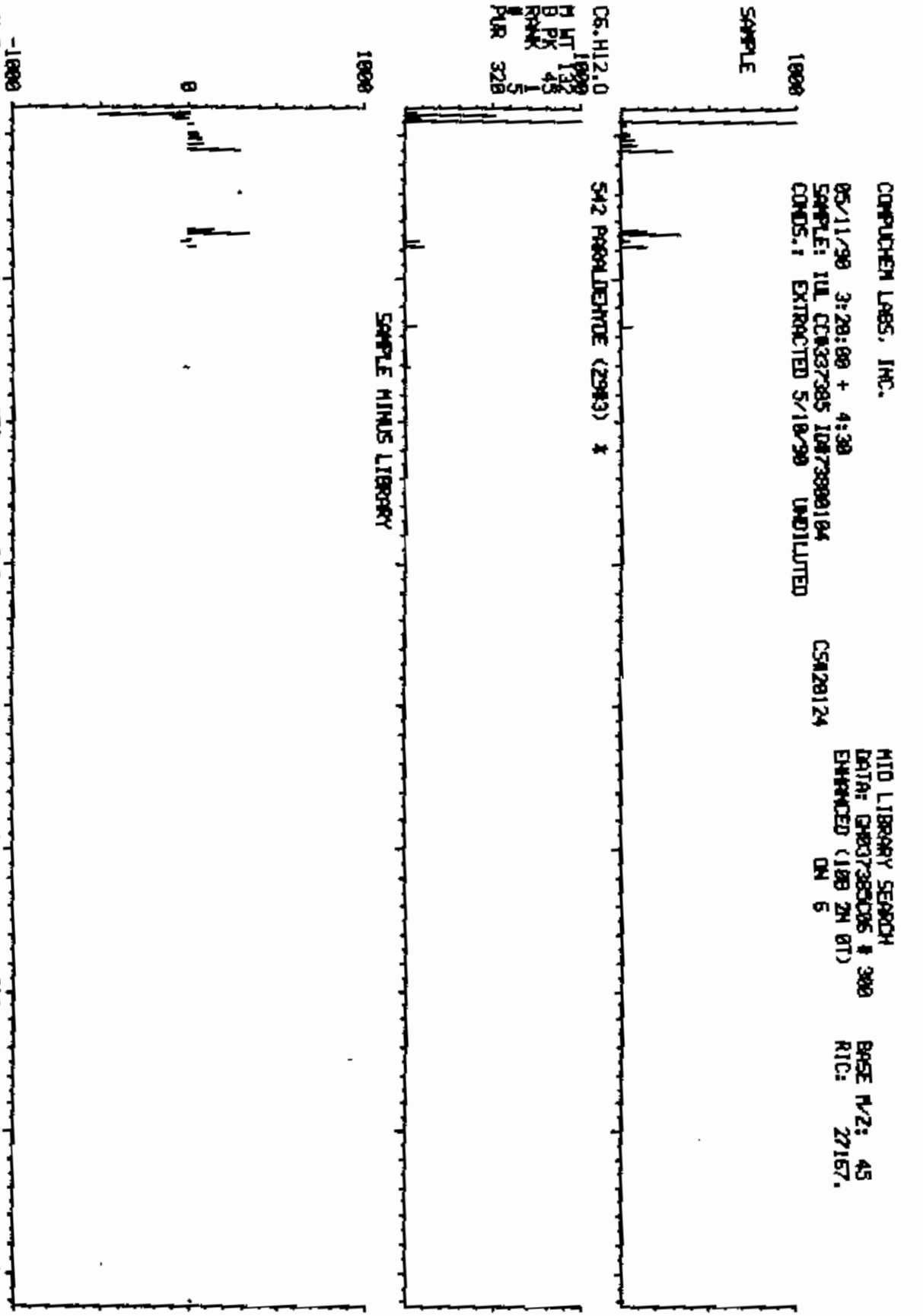
NO	NAME
1	*467 D10-PHENANTHRENE (IS04)
2	604 4,6-DINITRO-2-METHYLPHENOL (G402) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G403) <86-30-6>
4	567 DIPHENYLAMINE (F303)
5	508 1,3,5-TRINITROBENZENE (Z9041)
6	539 PHENACETIN (Z9042) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G404) <101-55-3>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9044)
10	433 HEXACHLOROBENZENE (G405) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9045)
12	522 PRONAMIDE (Z9046)
13	609 PENTACHLOROPHENOL (G406) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9047)
15	444 PHENANTHRENE (G407) <85-01-8>
16	403 ANTHRACENE (G408) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G409) <84-74-2>
18	516 METHAPYRILENE (Z9048)
19	549 CYCLOPHOSPHAMIDE (Z9049)
20	431 FLUORANTHENE (G4010) <206-44-0>
21	*459 D12-CHRYSENE (IS05)
22	404 BENZIDINE (G502) <92-87-5>
23	445 PYRENE (G503) <129-00-0>
24	530 ARAMITE (Z9050) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9051)
26	523 CHLOROBENZILATE (Z9052)
27	545 3,3'-DIMETHYLBENZIDINE (Z9053)
28	415 BUTYLBENZYL PHTHALATE (G504) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F542)
30	489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9054)
31	423 3,3'-DICHLOROBENZIDINE (G505) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9057)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (G507) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G506) <56-55-3>
35	418 CHRYSENE (G508) <218-01-9>
36	*497 D12-PERYLENE
37	429 DI-N-OCTYL PHTHALATE (G602) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G603) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9055)
40	409 BENZO(K)FLUORANTHENE (G604) <207-08-9>
41	406 BENZO(A)PYRENE (G605) <50-32-8>
42	565 3-METHYLCHLORANTHRENE (F602)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G606) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G607) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (S608) <191-24-2>

NO	NAME
47	576 DIALLATE (CIS ISOMER)

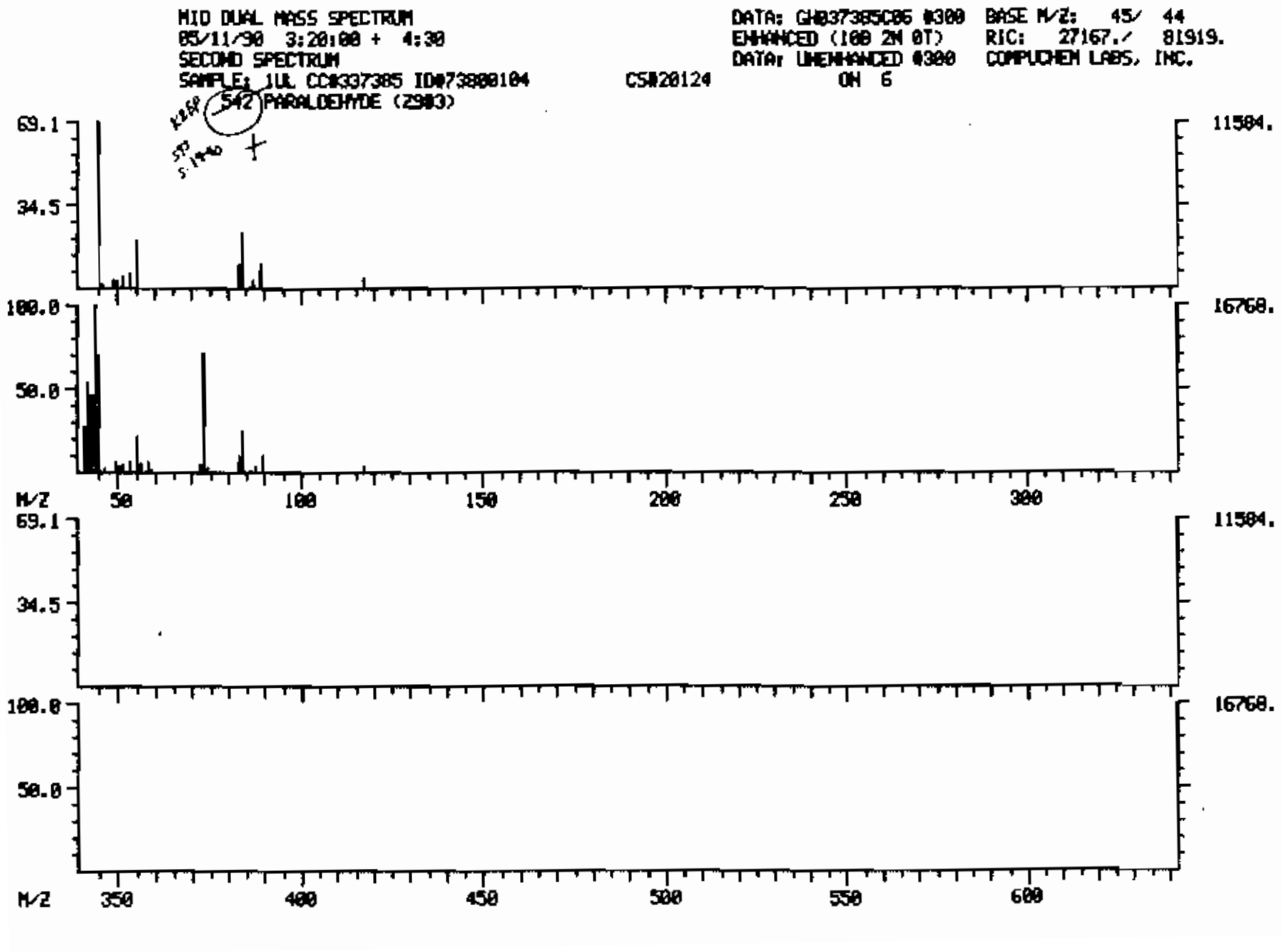
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	854	12:49	1	1.000	A BB	506712.	40.000	NO	32.30
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1091	16:22	21	1.000	A BB	337192.	40.000	NO	32.30
22	184	NOT FOUND								
23	202	NOT FOUND								
24	189	992	14:53	21	0.909	A BB	2684.	1.737	NO	1.40 NO
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	1084	16:16	21	0.994	A BB	22176.	2.102	NO	1.70 Y
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1255	18:50	36	1.000	A BB	276212.	40.000	NO	32.30
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:48	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:40		30.000			50.00		0.160	
3	11:42		10.000			100.00		0.649	
4	11:42		10.000			100.00		0.649	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
5	12:06		20.000			90.00		0.113	
6	12:06		10.000			50.00		0.514	
7	12:09		10.000			90.00		0.252	
8	12:05		10.000			25.00		0.161	
9	12:23		10.000			50.00		0.165	
10	12:23		10.000			50.00		0.353	
11	12:32		10.000			50.00		0.608	
12	12:34		10.000			50.00		0.458	
13	12:36		20.000			50.00		0.203	
14	12:42		10.000			50.00		0.133	
15	12:50		10.000			50.00		1.182	
16	12:53		10.000			50.00		1.149	
17	13:30		10.000			50.00		1.761	
18	13:56		20.000			50.00		0.369	
19	14:15		50.000			200.00		0.025	
20	14:25		10.000			50.00		1.160	
21	16:22	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:33		10.000			50.00		0.076	
23	14:44		10.000			50.00		1.332	
24	14:54	1.00	20.000	0.05	1.74	50.00	0.006	0.183	0.03
25	15:05		10.000			50.00		0.243	
26	15:06		10.000			50.00		0.792	
27	15:32		20.000			50.00		0.446	
28	15:31		10.000			50.00		0.903	
29	15:54		10.000			50.00		0.460	
30	16:15		10.000			50.00		0.201	
31	16:17		10.000			50.00		0.305	
32	16:13		10.000			50.00		0.170	
33	16:15	1.00	10.000	0.10	2.10	50.00	0.053	1.252	0.04
34	16:20		10.000			50.00		1.151	
35	16:24		10.000			50.00		1.044	
36	18:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:07		10.000			50.00		2.730	
38	18:03		10.000			100.00		0.967	
39	18:04		10.000			50.00		0.589	
40	18:03		10.000			100.00		0.967	
41	18:42		10.000			50.00		1.091	
42	19:30		10.000			50.00		0.656	
43	21:00		10.000			90.00		0.961	
44	21:38		10.000			50.00		1.384	
45	21:38		10.000			90.00		1.189	
46	22:29		10.000			50.00		1.086	
47	12:12		10.000			25.00		0.221	

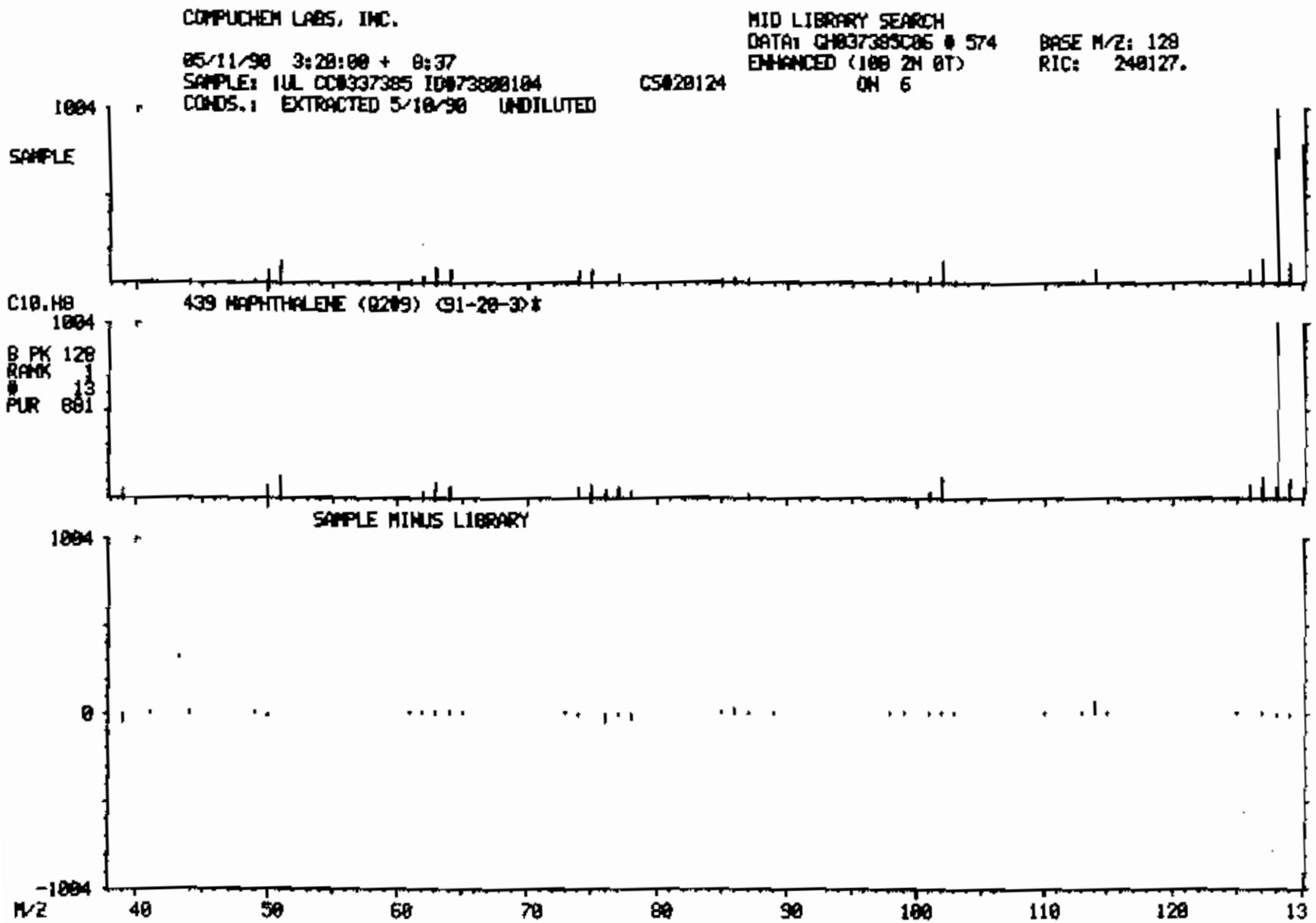


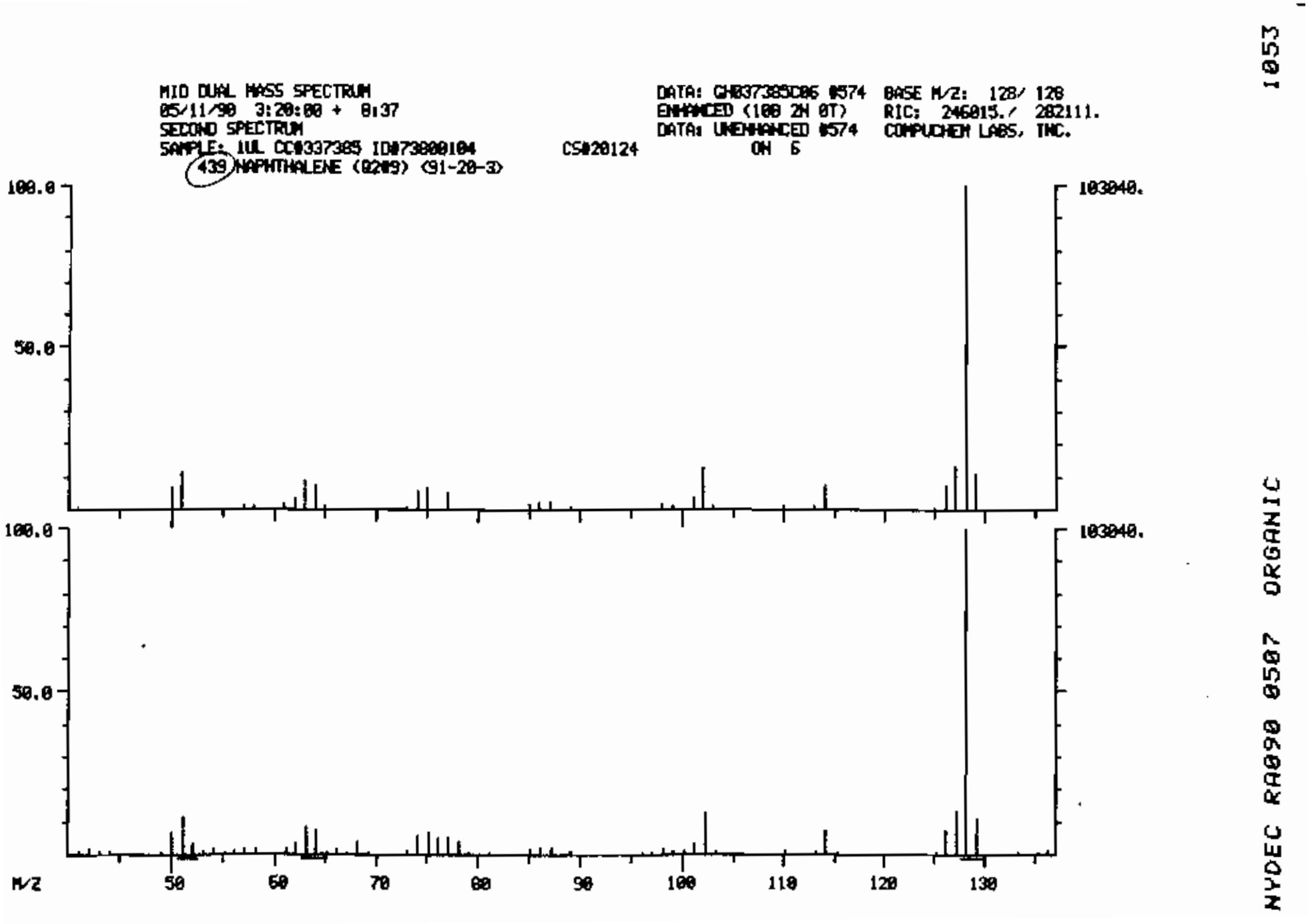
NYDEC RA090 0507 ORGANIC

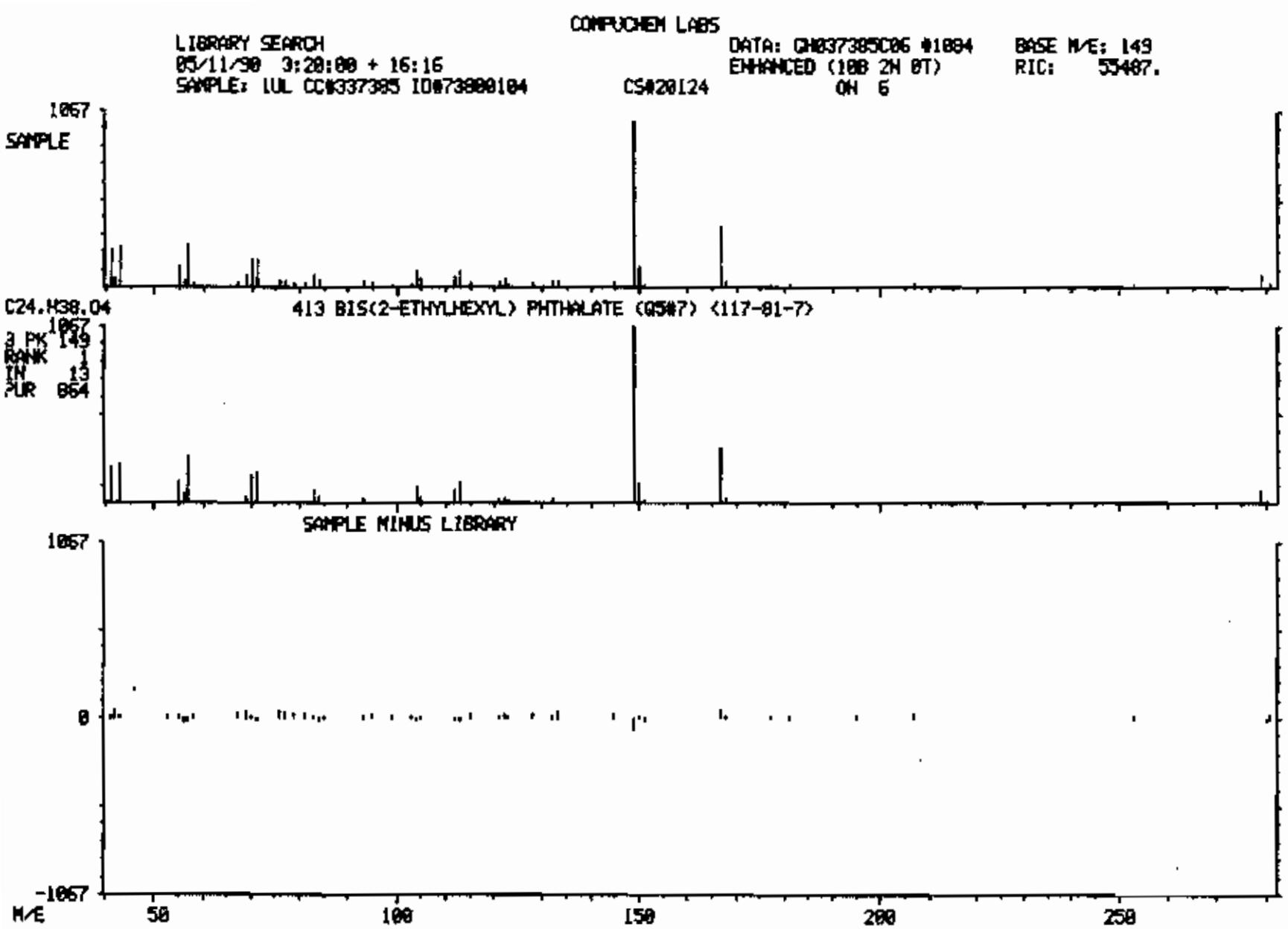


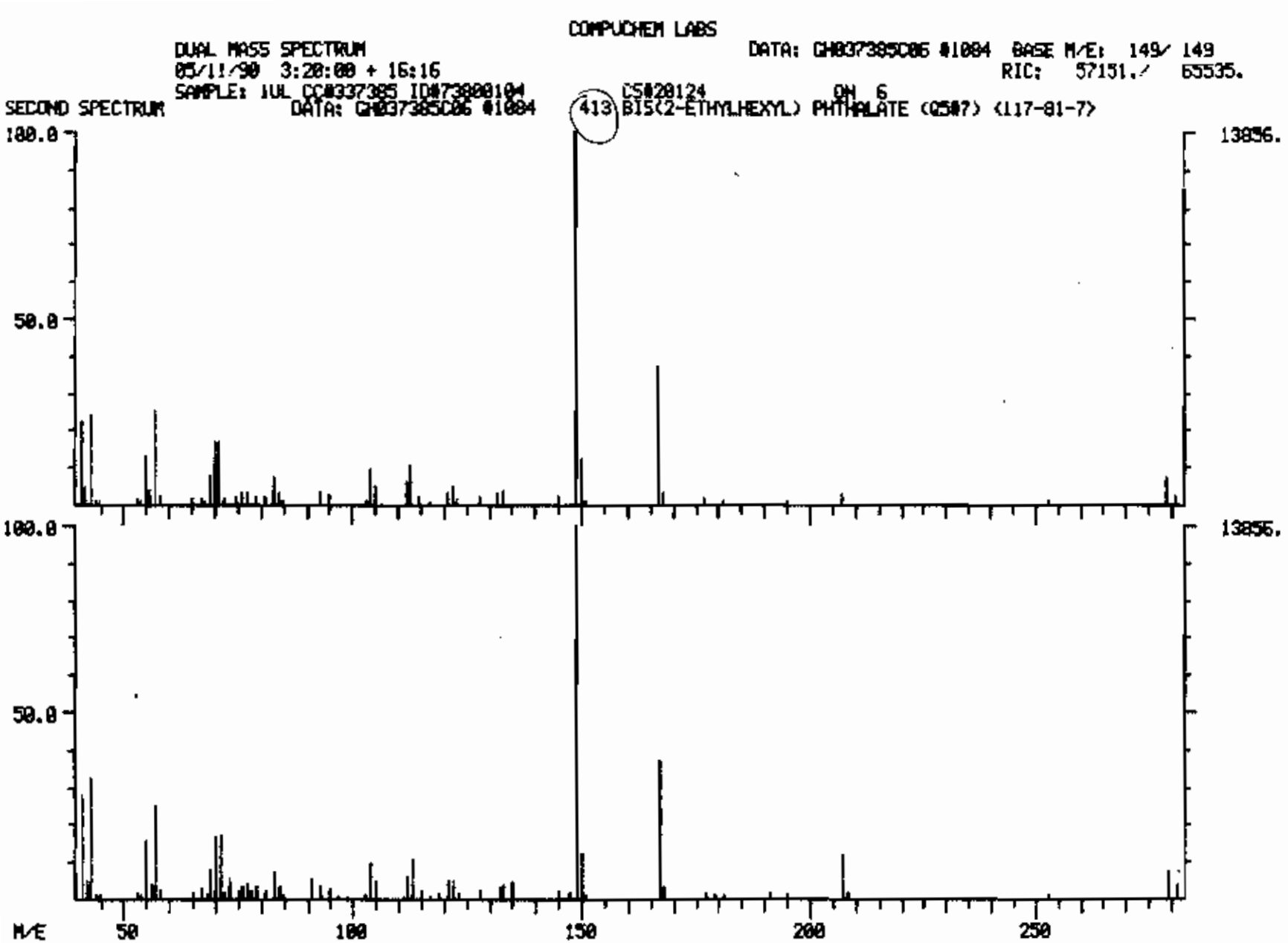
1055

NYDEC RA090 0507 ORGANIC


COMPUCHEM LABS, INC.
05/11/90 3:28:00 + 0:37
SAMPLE: 1UL CC#337385 ID#73000104
CONDS.: EXTRACTED 5/10/90 UNDILUTED
C5#20124
MID LIBRARY SEARCH
DATA: CH#37385C05 # 574
ENHANCED (100 2N 0T)
ON 6
BASE M/Z: 128
RIC: 240127.
1004
SAMPLE
C10.H8
439 NAPHTHALENE (0209) (91-20-3)*
1004
B PK 128
RANK 1
13
PUR 881
SAMPLE MINUS LIBRARY
1004
0
-1004
M/Z
40
50
60
70
80
90
100
110
120
13







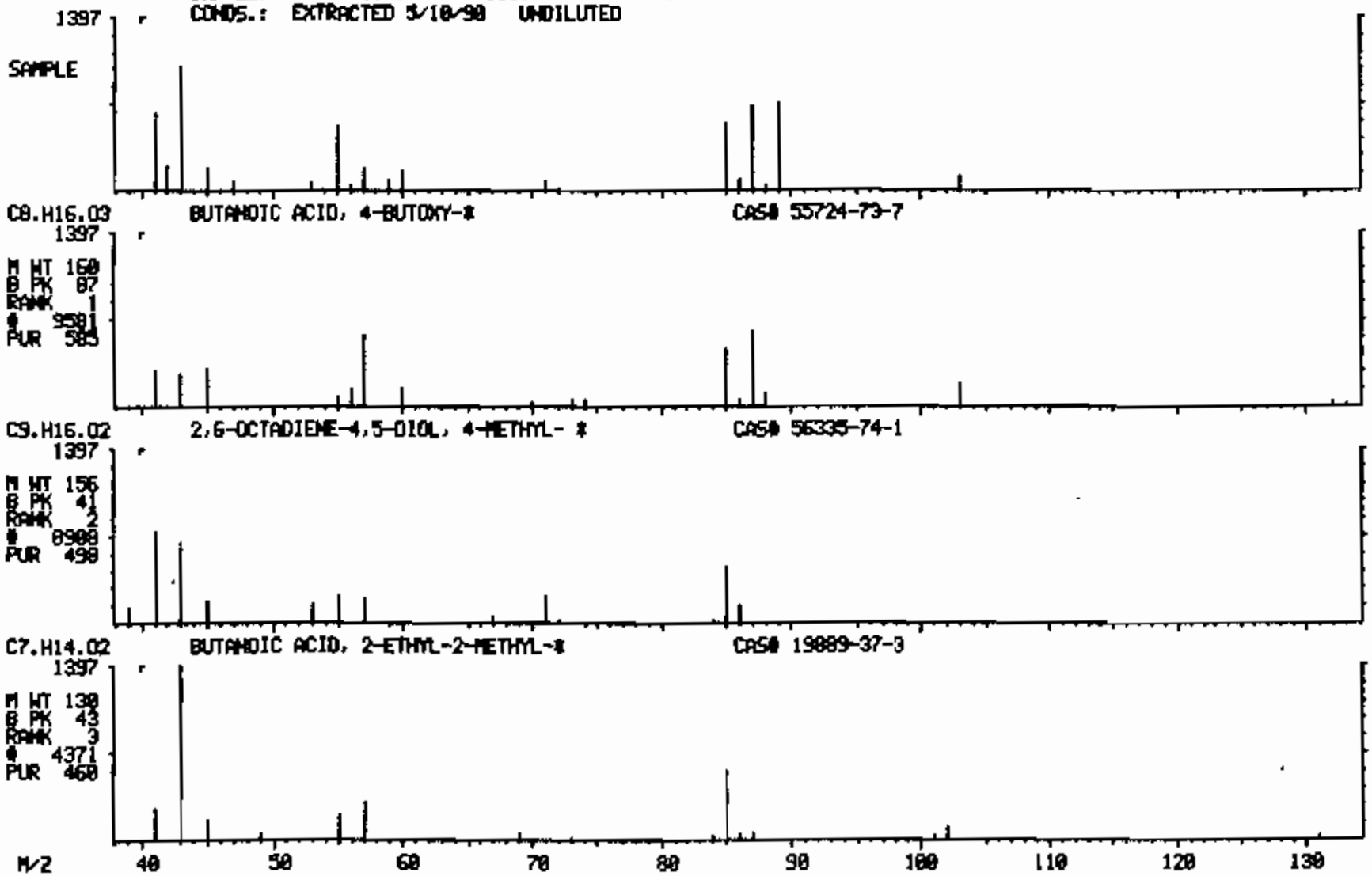
1051

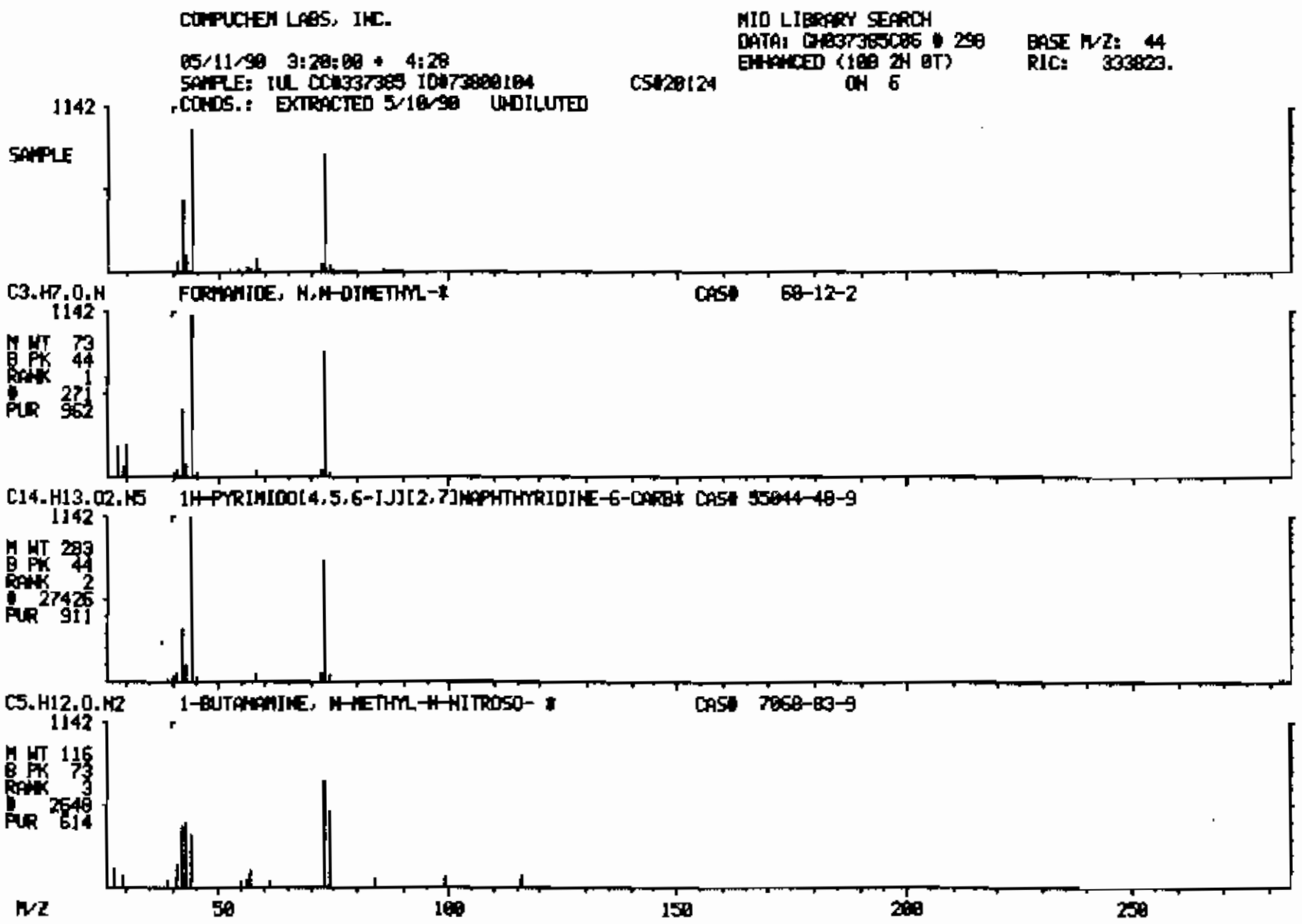
NYDEC RA090 0507 ORGANIC

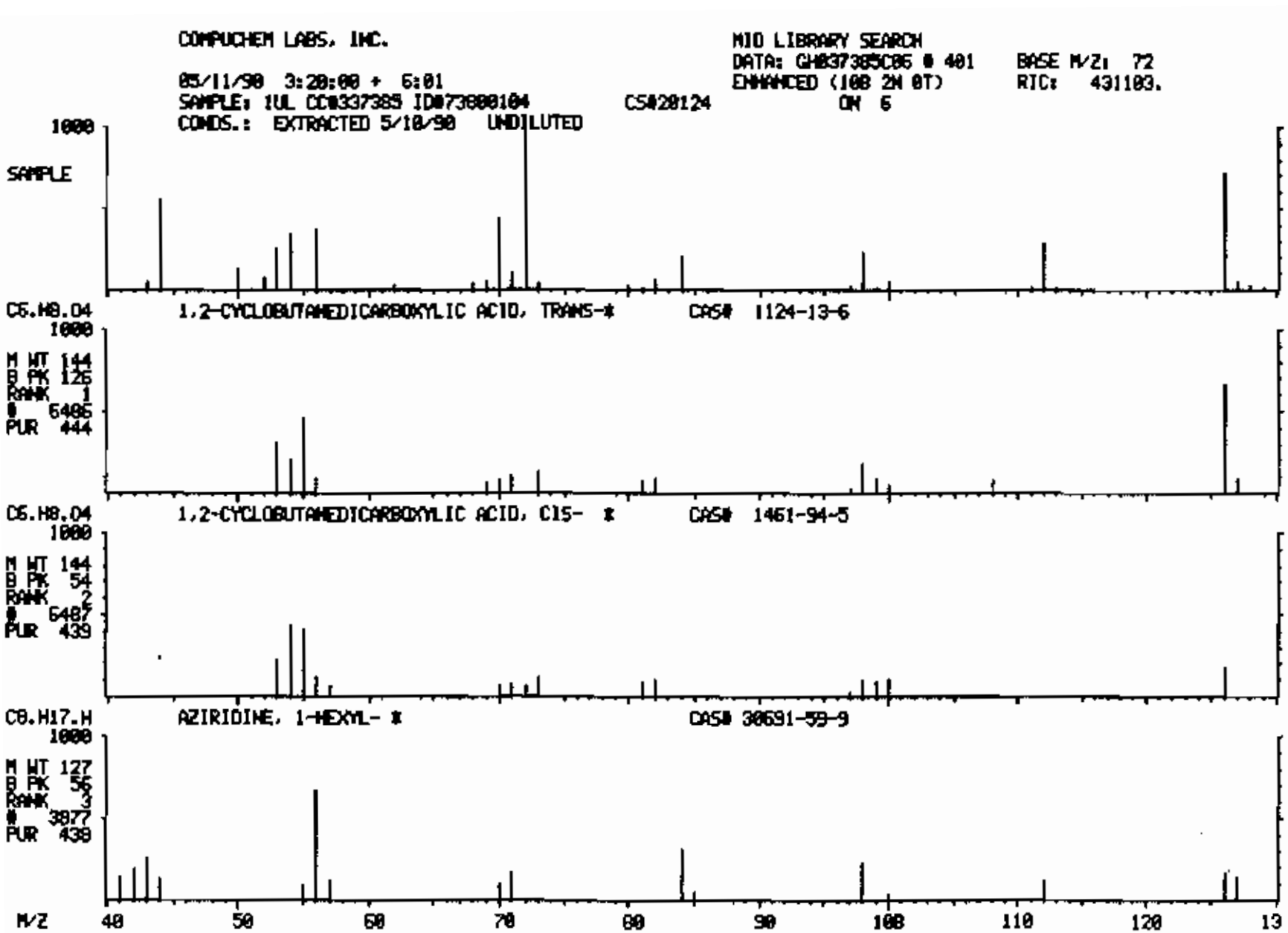
COMPUCHEM LABS, INC.

05/11/90 3:20:00 + 4:09
SAMPLE: 1UL CC#337385 ID#73000104 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GH037385C06 # 277 BASE M/Z: 43
ENHANCED (100 2H 0T) RIC: 62015.
ON 6




COMPUCHEM LABS, INC.
05/11/90 3:20:00 • 4:20
SAMPLE: 1UL CC#337385 ID#73000104
CONDS.: EXTRACTED 5/10/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: CH#37385C06 @ 290
ENHANCED (100 2N 0T)
ON 6
BASE M/Z: 44
RIC: 333823.
1142
SAMPLE
C3.H7.O.N FORMAMIDE, N,N-DIMETHYL-* CAS# 68-12-2
M WT 73
B PK 44
RANK 1
271
PUR 962
C14.H13.O2.N5 1H-PYRIMIDO[4,5,6-IJ][2,7]NAPHTHYRIDINE-6-CARB* CAS# 55044-48-9
M WT 283
B PK 44
RANK 2
27426
PUR 911
C5.H12.O.N2 1-BUTANAMINE, N-METHYL-N-NITROSO- * CAS# 7068-83-9
M WT 116
B PK 73
RANK 3
2648
PUR 614
M/Z
50
100
150
200
250

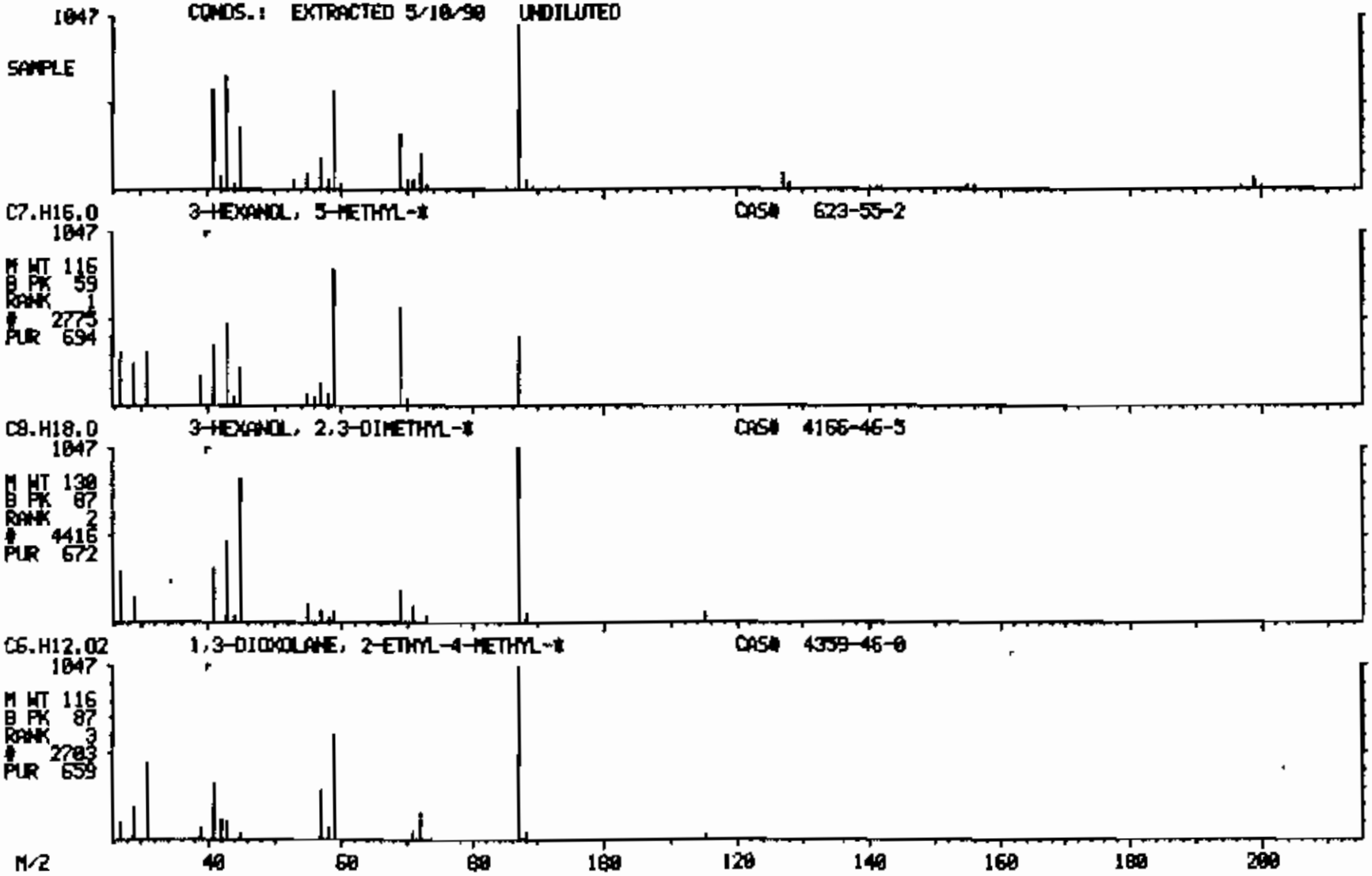


NYDEC RA090 0507 ORGANIC 10

COMPUCHEM LABS, INC.

05/11/90 3:20:00 + 6:41
SAMPLE: 1UL CC#337385 ID#73000104 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED

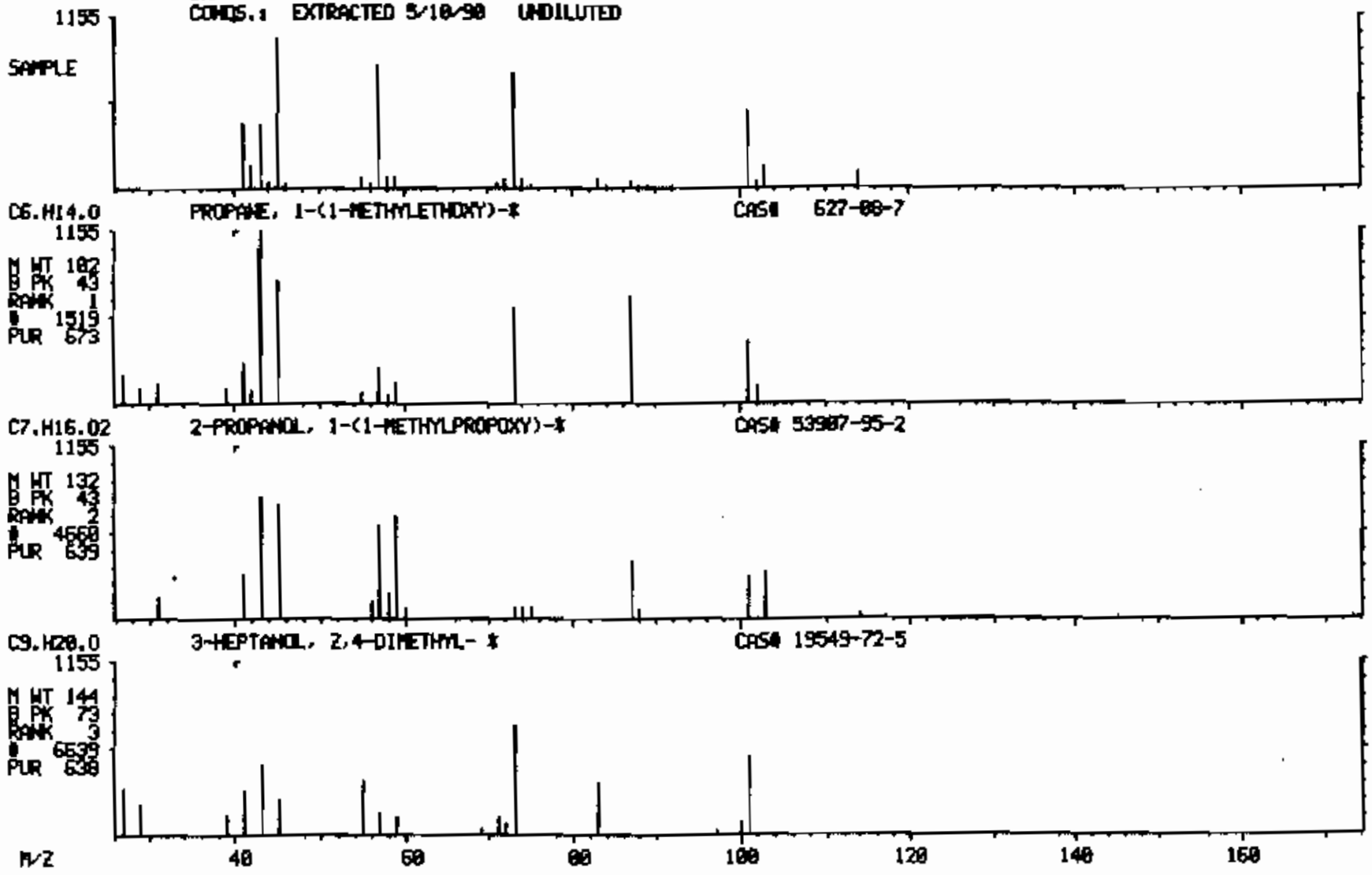
MID LIBRARY SEARCH
DATA: GH037385C06 # 446 BASE M/Z: 87
ENHANCED (100 2N 0T) RIC: 894975.
ON 6



COMPUCHEM LABS, INC.

05/11/90 3:20:00 + 6:55
SAMPLE: 1UL CC#037385 ID#073000104 CS#20124
COMDS.: EXTRACTED 5/10/90 UNDILUTED

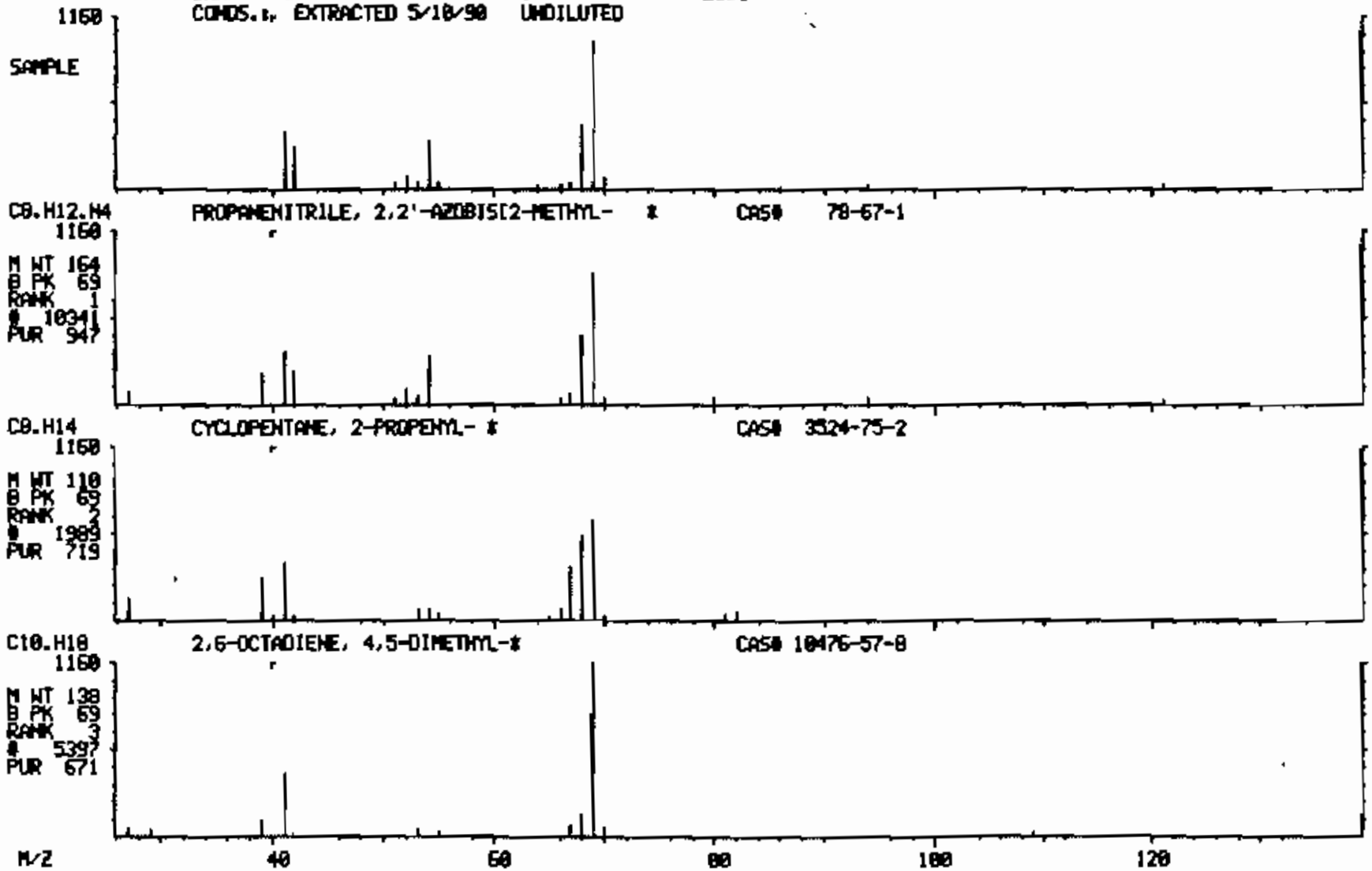
MIO LIBRARY SEARCH
DATA: GH037385C06 # 461 BASE M/Z: 45
ENHANCED (100 2N 0T) RIC: 207871.
ON 6



COMPUCHEM LABS, INC.

05/11/90 3:20:00 + 7:00
SAMPLE: 1UL CC#337385 ID#73000104 CS#20124
COMDS.i, EXTRACTED 5/10/90 UNDILUTED

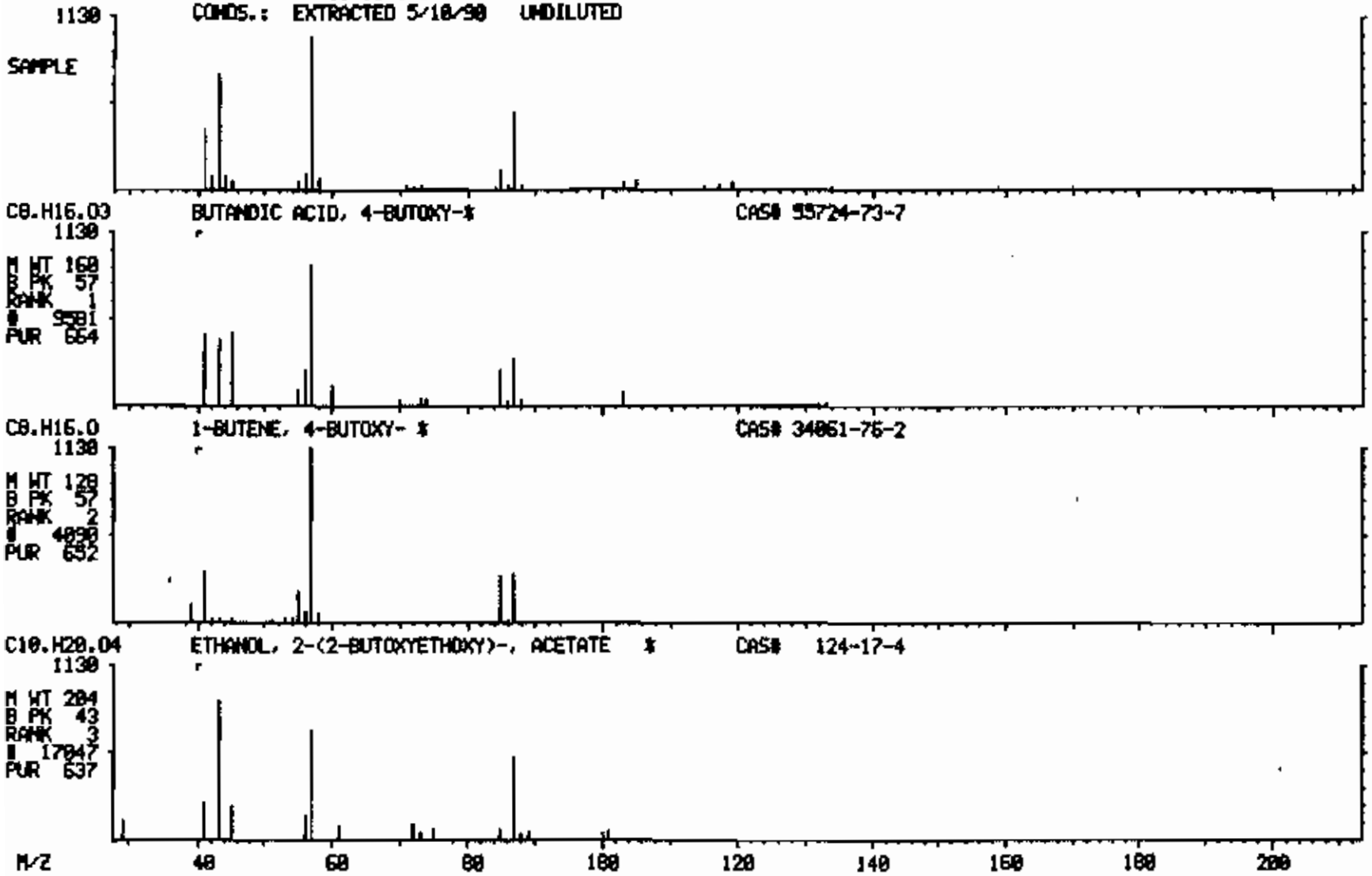
MID LIBRARY SEARCH
DATA: GH037385C06 # 476 BASE M/Z: 69
ENHANCED (100 2H 0T) RIC: 55999.
OH 6



COMPUCHEM LABS, INC.

05/11/90 3:20:00 + 7:17
SAMPLE: JUL CC#337385 ID#73000104 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED

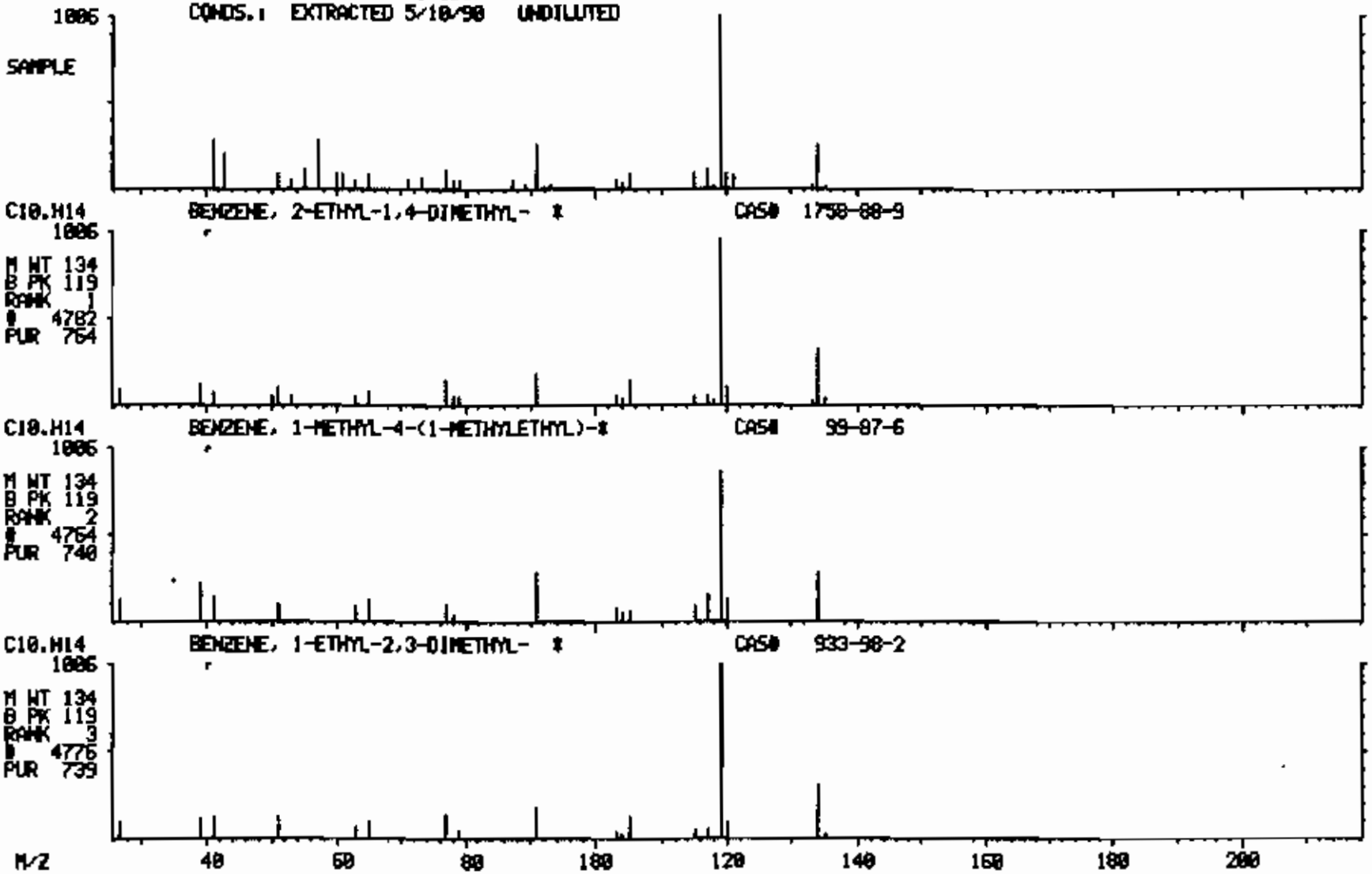
MID LIBRARY SEARCH
DATA: GH037385C06 # 486 BASE M/Z: 57
ENHANCED (100 2H 0T) RIC: 72063.
OH 6



COMPUCHEM LABS, INC.

05/11/90 3:20:00 + 7:38
SAMPLE: 1UL CC#337385 ID#73800104
CONDS.: EXTRACTED 5/10/90 UNDILUTED

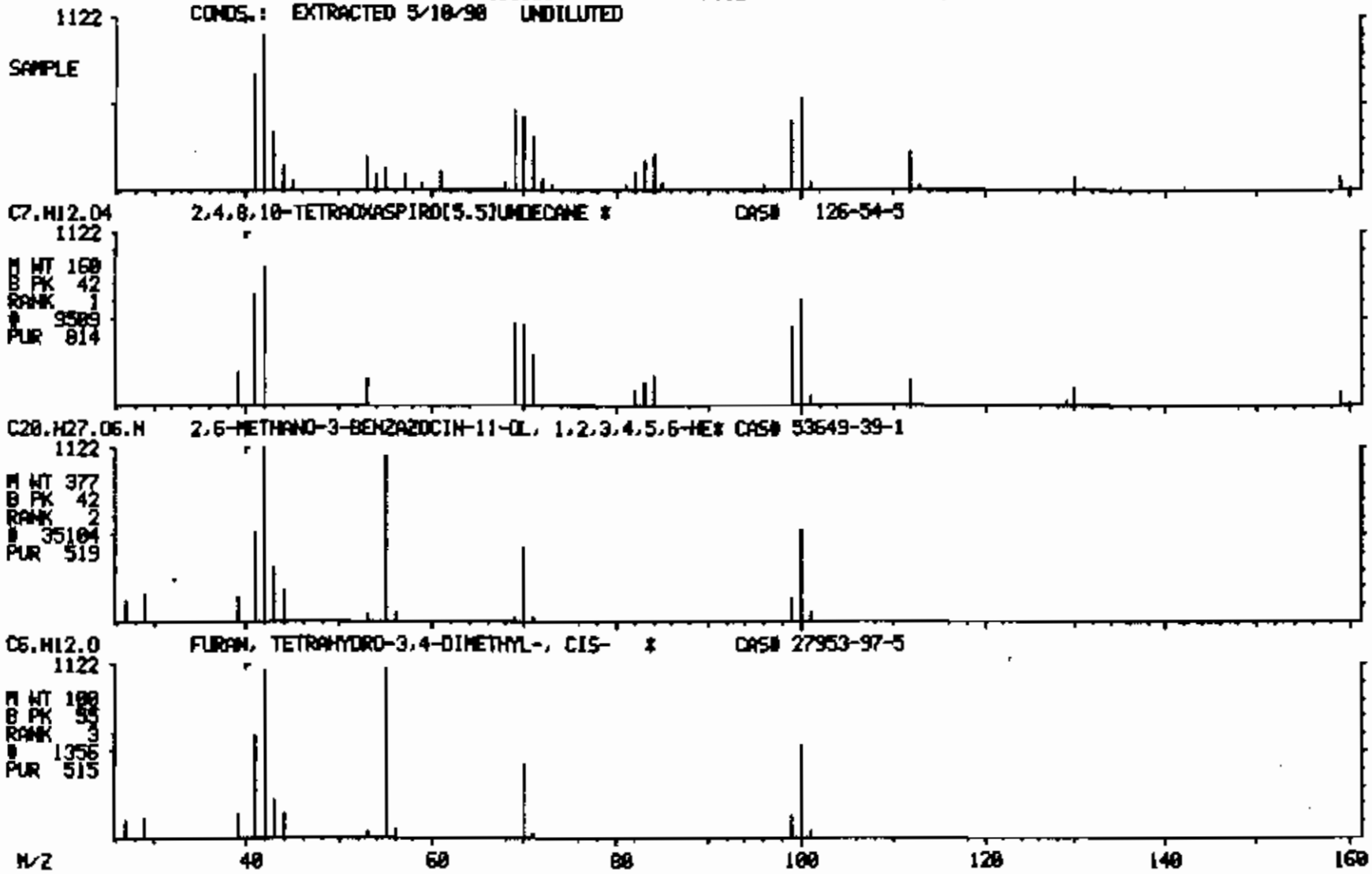
MID LIBRARY SEARCH
DATA: GH#37385C86 # 509 BASE M/Z: 119
ENHANCED (100 2M 0T) RIC: 75775.
CS#20124 OM 6



COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037385C06 @ 582 BASE M/Z: 42
ENHANCED (100 2M 0T) RIC: 366591.
ON 6

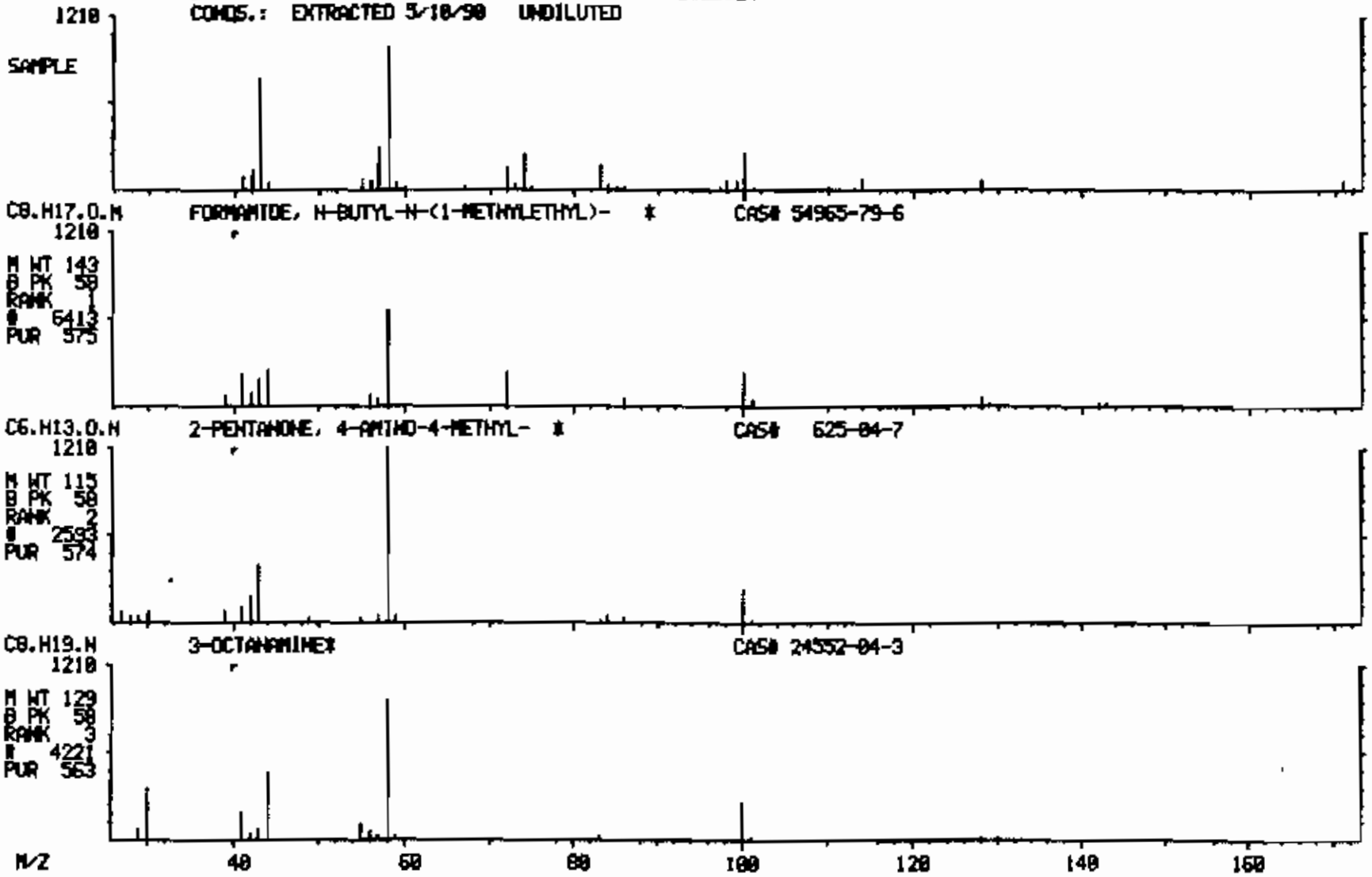
05/11/90 3:20:00 + 0:44
SAMPLE: 1UL CC0337385 ID073000104 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED

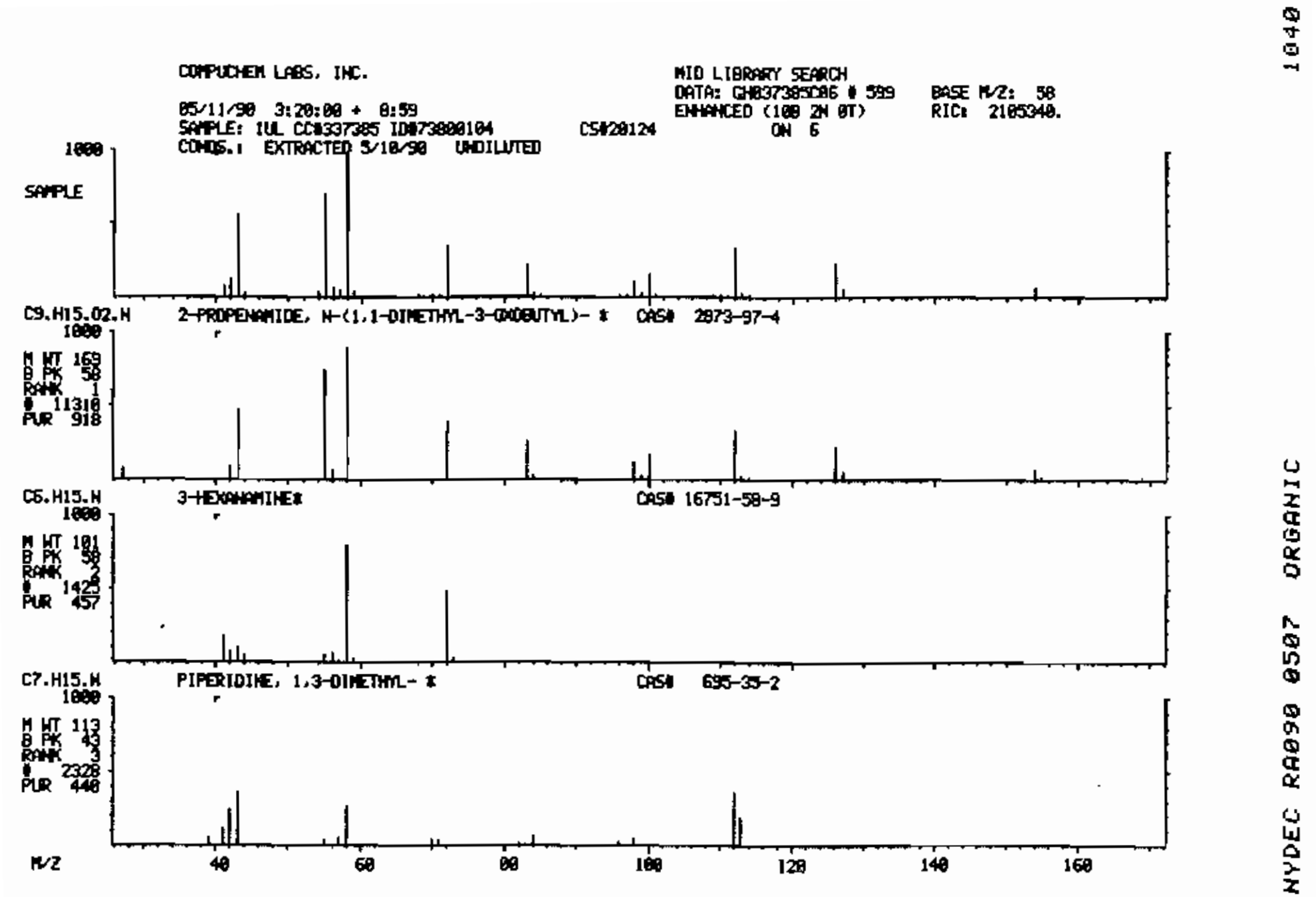


COMPUCHEM LABS, INC.

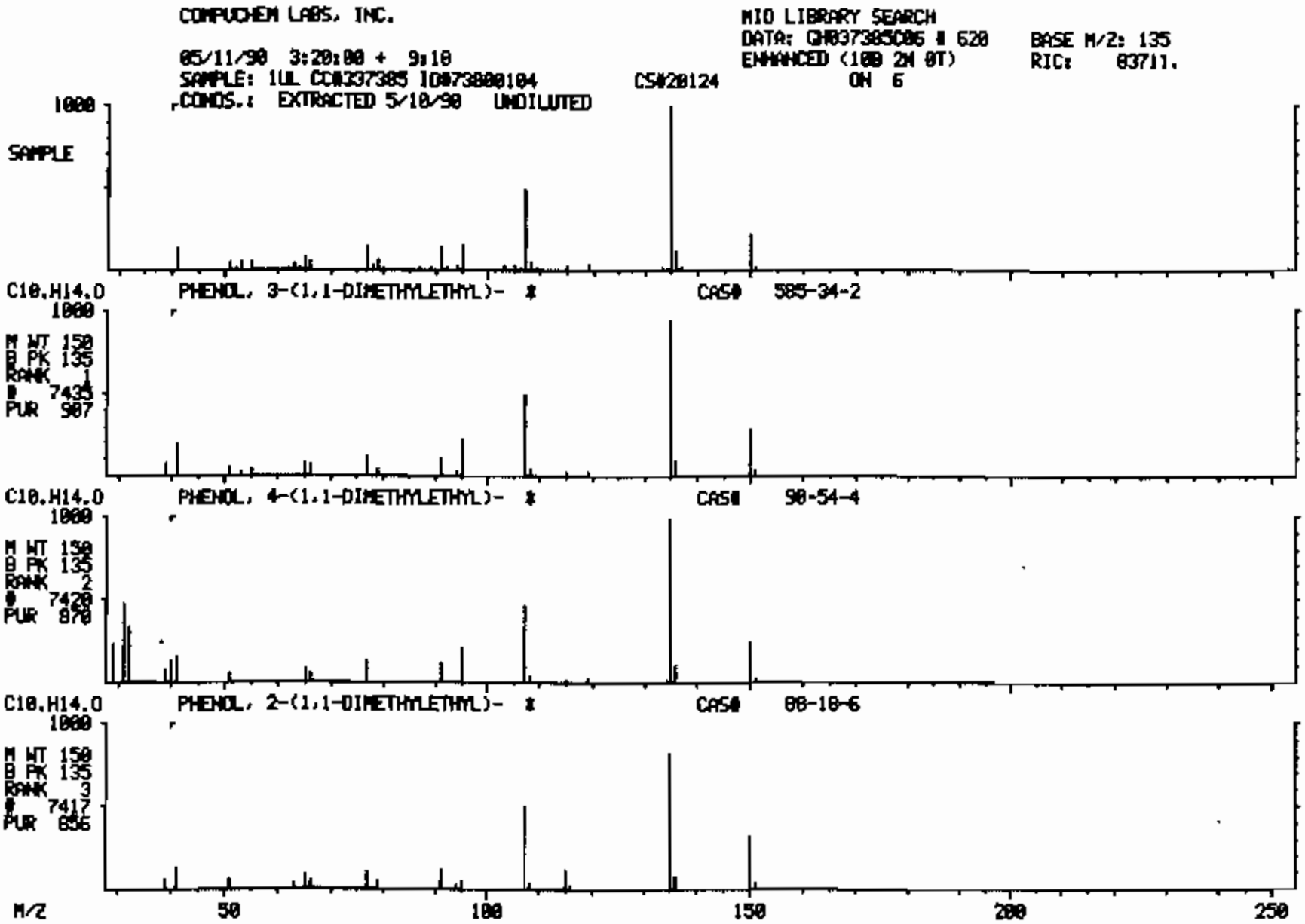
05/11/90 3:20:00 + 0:53
SAMPLE: IUL CC#337385 ID#73000104 CS#20124
COMDS.: EXTRACTED 5/10/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GH037385C06 # 592 BASE M/Z: 58
ENHANCED (100 2M 0T) RIC: 257279.
ON 6




COMPUCHEM LABS, INC.
05/11/90 3:20:00 + 0:59
SAMPLE: 1UL CC#337385 ID#73000104
CONDS.: EXTRACTED 5/10/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GH#37385C86 # 599
ENHANCED (100 2N 0T)
BASE M/Z: 58
RIC: 2105340.
ON 6
1040
NYDEC RA090 0507 ORGANIC
SAMPLE
C9.H15.02.N 2-PROPENAMIDE, N-(1,1-DIMETHYL-3-OXOBUTYL)- * CAS# 2873-97-4
M WT 169
B PK 58
RANK 1
11310
PUR 918
C6.H15.N 3-HEXANAMINE* CAS# 16751-58-9
M WT 101
B PK 58
RANK 2
1425
PUR 457
C7.H15.N PIPERIDINE, 1,3-DIMETHYL- * CAS# 695-35-2
M WT 113
B PK 43
RANK 3
2328
PUR 440
M/Z
40
60
80
100
120
140
160

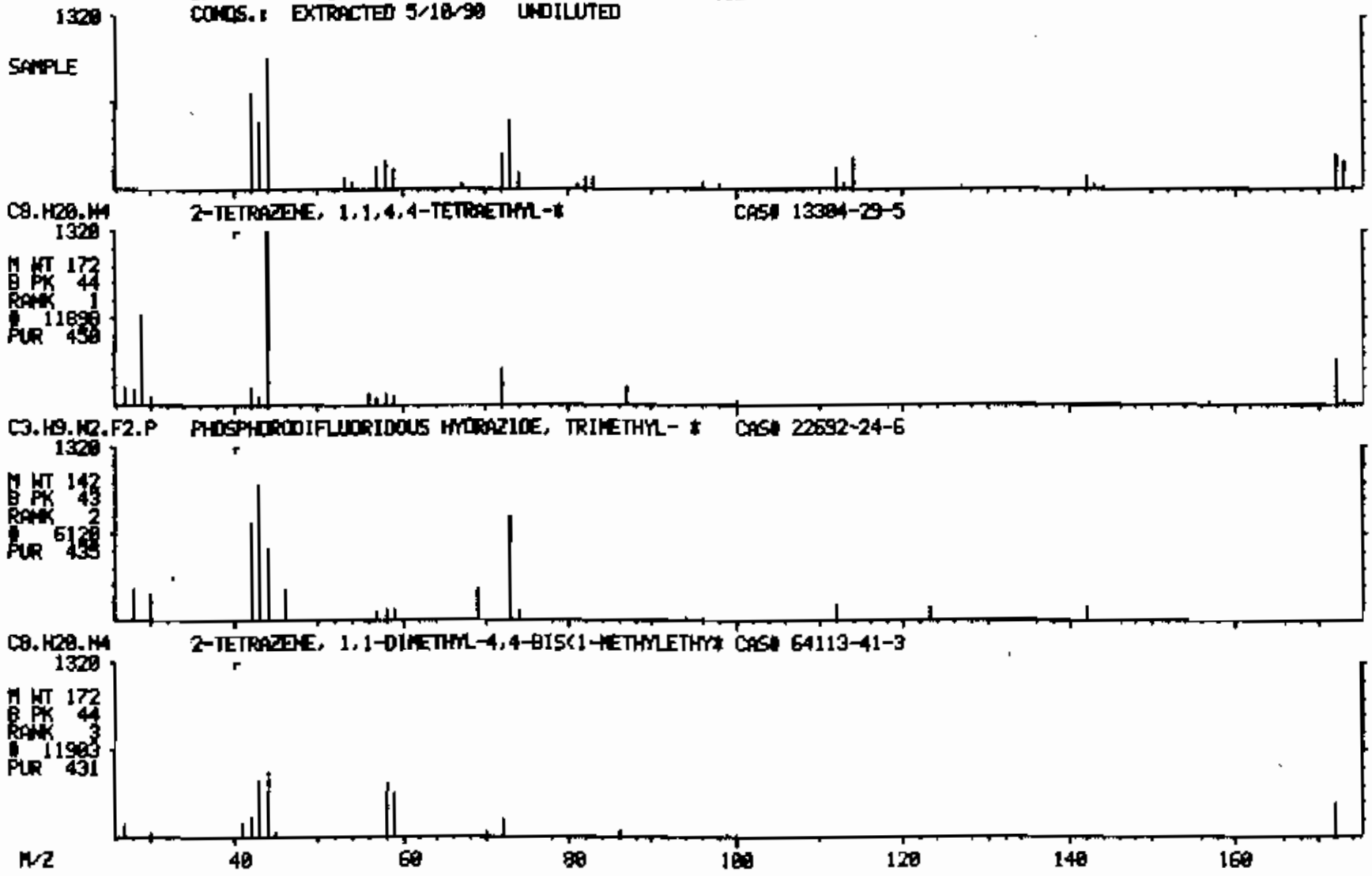
COMPUCHEM LABS, INC.
MID LIBRARY SEARCH
05/11/90 3:20:00 + 9:07
SAMPLE: 1UL CDK37385 ID#7388104
CONDS.: EXTRACTED 5/10/90 UNDILUTED
CSN20124
DATA: CHK37385205 # 688
ENHANCED (100 2N 0T)
ON 6
BASE M/Z: 107
RIC: 81151.
SAMPLE
1033
C10.H14.0
1033
PHENOL, 2-(1,1-DIMETHYLETHYL)- *
CAS# 88-18-6
M.WT 150
B.PK 107
RANK 1
* PUR 717
* PUR 870
C10.H14.0
1033
PHENOL, 3-(1,1-DIMETHYLETHYL)- *
CAS# 585-34-2
M.WT 150
B.PK 135
RANK 2
* PUR 743
* PUR 816
C10.H14.0
1033
PHENOL, 4-(1,1-DIMETHYLETHYL)- *
CAS# 98-54-4
M.WT 150
B.PK 135
RANK 3
* PUR 742
* PUR 720
M/Z
40
60
80
100
120
140
160


COMPUCHEM LABS, INC.
05/11/90 3:20:00 + 9:10
SAMPLE: 1UL CC#337385 ID#73000104
CONDS.: EXTRACTED 5/10/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: QH037385C06 # 620
ENHANCED (100 2M 0T)
ON 6
BASE M/Z: 135
RIC: 83711.
1000
SAMPLE
C10.H14.0 PHENOL, 3-(1,1-DIMETHYLETHYL)- * CAS# 585-34-2
M WT 150
B PK 135
RANK 1
7435
PUR 907
C10.H14.0 PHENOL, 4-(1,1-DIMETHYLETHYL)- * CAS# 98-54-4
M WT 150
B PK 135
RANK 2
7420
PUR 870
C10.H14.0 PHENOL, 2-(1,1-DIMETHYLETHYL)- * CAS# 88-18-6
M WT 150
B PK 135
RANK 3
7417
PUR 856
M/Z
50
100
150
200
250

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037385C06 @ 635 BASE M/Z: 44
ENHANCED (100 2H 0T) RIC: 86271.
ON 6

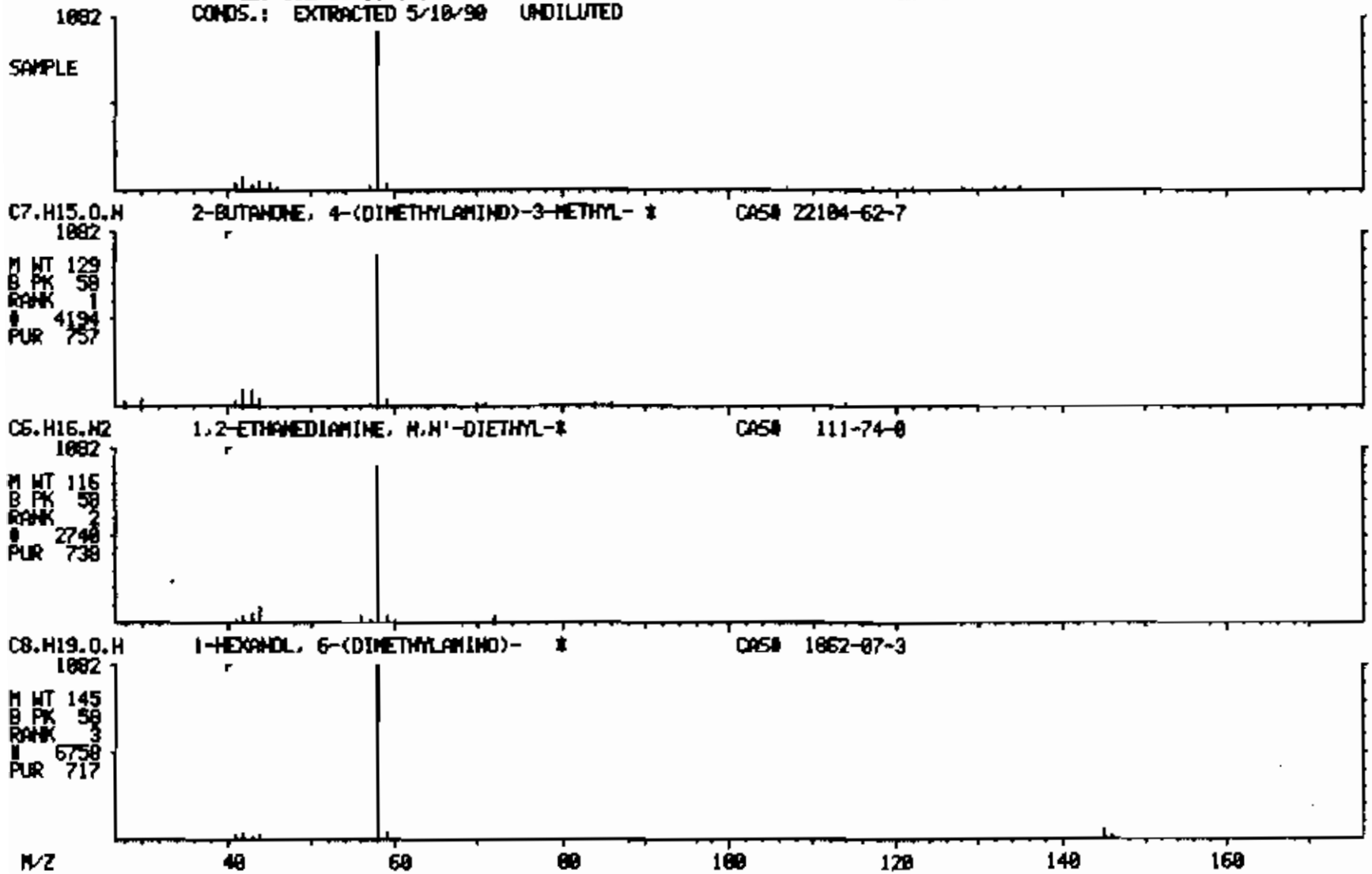
05/11/90 3:20:00 + 9:32
SAMPLE: 1UL CC#337385 ID#73800104 CS#20124
COMDS.: EXTRACTED 5/10/90 UNDILUTED



COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037385D06 @ 647 BASE M/Z: 58
ENHANCED (10B 2N 0T) RIC: 138239.
ON 6

05/11/90 3:20:00 + 9:42
SAMPLE: 1UL CC#337385 ID#73000104 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED



COMPUCHEM LABS, INC.

05/11/90 3:20:00 + 10:13
SAMPLE: 1UL CC#337385 ID#73000104 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GH037385C06 @ 681 BASE M/Z: 70
ENHANCED (100 2H 0T) RIC: 503295.
ON 6

1411

SAMPLE

C20.H27.06.N 2,6-METHANO-3-BENZAZOCIN-11-OL, 1,2,3,4,5,6-HEX CAS# 53649-39-1

1411

M WT 377
B PK 55
RANK 1
35104
PUR 515

C10.H20.02 BUTANOIC ACID, 3-METHYL-, 3-METHYLBUTYL ESTER * CAS# 659-70-1

1411

M WT 172
B PK 70
RANK 2
1171
PUR 502

C5.H12.O FURAN, TETRAHYDRO-3,4-DIMETHYL-, CIS- * CAS# 27953-97-5

1411

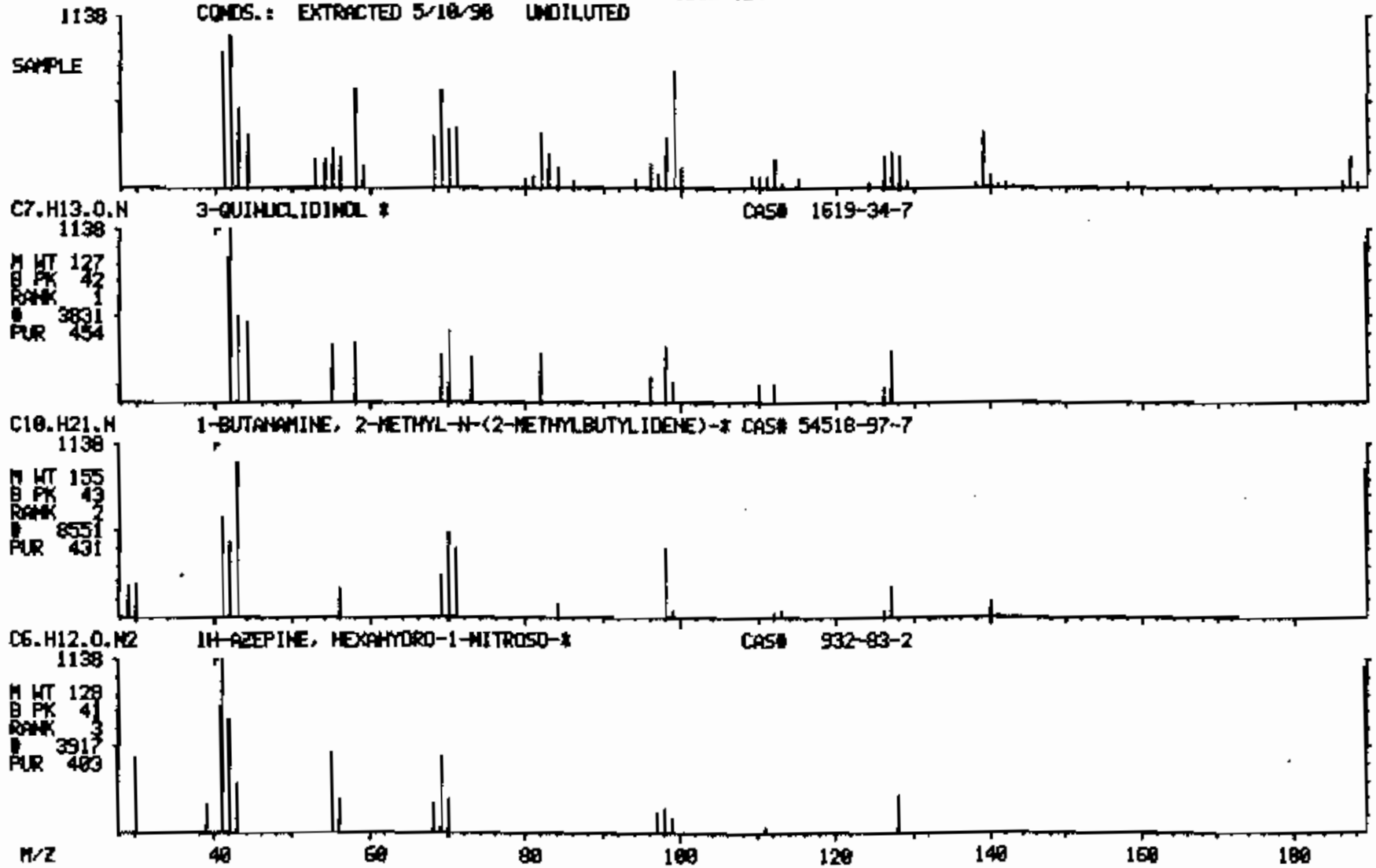
M WT 100
B PK 55
RANK 3
1356
PUR 499

M/Z 40 60 80 100 120 140 160

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037385C06 @ 778 BASE M/Z: 42
ENHANCED (100 2N 8T) RIC: 593919.
ON 6

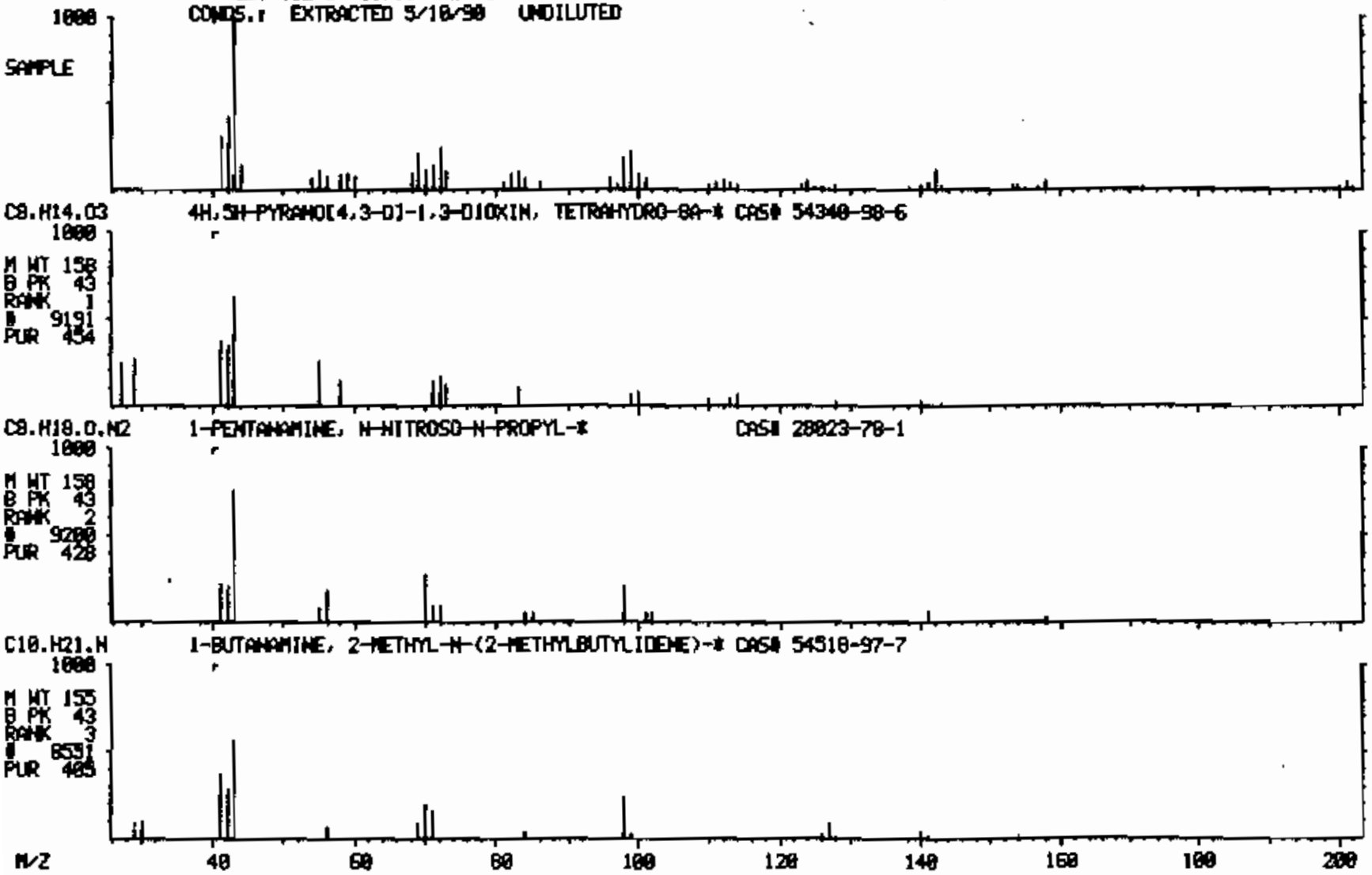
05/11/98 3:20:00 + 11:40
SAMPLE: 1UL CC#337385 ID#73808104 CS#20124
CONDS.: EXTRACTED 5/10/98 UNDILUTED



COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: CH037385C06 # 000 BASE M/Z: 43
ENHANCED (100 2N 0T) RIC: 683711.
ON 6

05/11/90 3:20:00 + 12:00
SAMPLE: 1UL CC#337385 ID#73900104 CS#20124
COMDS.r EXTRACTED 5/10/90 UNDILUTED



LAB INSTRUCTIONS: PPS#: _____

CASE#RA090 SDG# 0507

MAST5-6

RECEIPT DATE: 05/08/90 CASE#: 20124

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 337385

J1[ ] J3[ ] D1[ ] [:1)

2J[ ] J4[ ] D2[ ] [:1)

GC/MS; FULL LIST S-V; WATER; 3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800104

GC/MS ANALYSIS

Volumes mixed: BN _____ ul Acid 200 ul

Internal Standard Volume Added 5.0 ul

Mixed Sample Volume Injected 1.0 ul

Date Sample Bottle Analyzed 5/10/90

DFTPP Filename DF900510B06 Disk ( )

Standard Filename HC900510B06 Disk ( )

Sample Filename GH037385C06 Disk ( )

[redacted]

ANALYST(S): Injection 9,7 Work-up 9,7

GC/MS REVIEW

CONDITION CODE AL

Disposition: [✓] Complete

Extraneous Peak Search Results:

[ ] Reinjection required

# of Peaks Found: 18

[ ] Reextraction required

# of Hits: 3

[ ] Dilute (:1)

# of Surrogate Outliers: 2

[ ] Reinject Neat

Quality Assurance Notice(s):

[ ] Send to QA

Notices Required 0

COMMENTS:

#GC/MS Review [signature] Date 5/11/90 Auditor [signature] Date 5/21/90

REPORT INTEGRATION Total # of Injections: _____

Final Reportable Package(s): GR037385C07 / GH037385C06

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW Initials_____ Date___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: A.S.D. Annetta Downing

DATE ASSIGNED 5/10/90

EMP ID NUMBER 1733

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOLUME SV B/N	FINAL EXTRACT VOLUME ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337386	-079	20124		SS	337383	283	500ml	1.0ml		13	1	500/477 Use 500ml sample volume for SS only
2	337387				SS	337383	283	500ml	1.0ml		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337388				BS			1,000ml	1.0ml		13	1	Conc. to 0.5ml final volume
4	337381			738 00101			183	1,000ml	1.0ml		13	1	* add 1.0 ml validation spike to BS only
5	337382			73800 102			283	1,000ml	1.0ml		13	1	use 337381 as MS for QC
6	337383			73800 103			183	1,000ml	1.0ml		13	1	
7	337385		↓	73800 104			283	1,000ml	1.0ml		13	1	
8	337311		20071	GKIS			183	1,000ml	1.0ml		13	1	
9	337312		↓	EPED			283	1,000ml	1.0ml		13	1	
10	335591R		20015	RCB-P DRAIN			#2	1,000ml	1.0ml		13	1	
11													
12													
13	337915			SBLK 7U	B1			1,000ml	1.0ml		13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0ml				
	LOT	3922				
						valid
SPIKE	NO.		3012	2021		spike
	AMT.		1.0ml	1.0ml		#2028 1.0
	LOT		31880	31881		31338

MANUAL COUNTER 510/886

FINAL VOLUME VERIFIED Annetta S. Downing

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY C. Lauda 5/10

SURROGATE & SPIKE ADDED CORRECTLY DP 5/10/90 (INT / DATE)

ISSUED BY:

1733 10

1031

HYDEC RA090 0507 ORGANIC

COMPUCHEM # 037389 FILE: GH037385C06 COMPOUND LIST 170 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	465	159000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G10				BDL	1(
481	79		PYRIDINE (Z901)				BDL	1(
509	69		ETHYLMATHACRYLATE (Z902)			KEEP	BDL	1(
542	89		PARALDEHYDE (Z903)			2.0	2J BDL	1(
510	93		2-PICOLINE (Z9056)				BDL	2(
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1(
543	80		METHYL METHANE SULFONATE (Z				BDL	1(
499	102		N-NITROSODIETHYLAMINE (Z906				BDL	1(
514	109		ETHYL METHANESULFONATE (Z90				BDL	1(
610	94		PHENOL (G103)				BDL	1(
473	93		ANILINE (G104)				BDL	1(
505	167		PENTACHLOROETHANE (Z908)				BDL	1(
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	2(
601	128		2-CHLOROPHENOL (G106)				BDL	1(
421	146		1,3-DICHLOROBENZENE (G107)				BDL	1(
506	91		BENZYL CHLORIDE (Z909)				BDL	1(
422	146		1,4-DICHLOROBENZENE (G108)				BDL	1(
474	108		BENZYL ALCOHOL (G109)				BDL	1(
420	146		1,2-DICHLOROBENZENE (G1010)				BDL	1(
620	108		2-METHYLPHENOL (G1011)				BDL	1(
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	1(
621	108		3-METHYLPHENOL (F102)				BDL	1(
622	108		4-METHYLPHENOL (G1013)				BDL	1(
528	100		N-NITROSOPYRROLIDINE (Z9010				BDL	1(
544	116		N-NITROSOMORPHOLINE (Z9012)				BDL	1(
500	105		ACETOPHENONE (Z9011)				BDL	1(
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	1(
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	1(
436	117		HEXACHLOROETHANE (G1015)			1.0	1J BDL	1(
460	136	I	D8-NAPHTHALENE (IS02)	572	497000	40.0		
440	77		NITROBENZENE (G1016)				BDL	1(
502	114		N-NITROSODIPIPERIDINE (Z901				BDL	1(
438	82		ISOPHORONE (G202)				BDL	1(
603	107		2,4-DIMETHYLPHENOL (G204)				BDL	1(
606	139		2-NITROPHENOL (G203)				BDL	1(
451	180		1,3,5-TRICHLOROBENZENE (Z90				BDL	1(
518	125		BENZAL CHLORIDE (Z9016)				BDL	1(
625	122		BENZOIC ACID (G205)				BDL	10(
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	1(
602	162		2,4-DICHLOROPHENOL (G207)				BDL	1(
446	180		1,2,4-TRICHLOROBENZENE (G20				BDL	1(
439	128		NAPHTHALENE (G209)			9.4	9J	1(

CORRECTED/REVIEWED BY _____
(QC/MB DATA REVIEWER)

DATE 5-19-88

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (Q2#10)				BDL	1
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	2
524	108		O-PHENYLENEDIAMINE (T9#19)			~~47.2~~	~~47~~ BDL	1
919	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	1
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	1
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	1
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	1
534	139		BENZOTRICHLORIDE (Z9#23)				BDL	2
536	84		N-NITROSO-DI-N-BUTYLAMINE (			~~6.6~~	~~75~~ BDL	1
608	107		P-CHLORO-M-CRESOL (Q2#12)			~~2.7~~	~~40~~	1
526	108		P-PHENYLENEDIAMINE (Z9#20)			~~2.0~~	~~30~~	1
303	162		SAFROLE (Z9#27)				BDL	1
525	108		M-PHENYLENEDIAMINE (Z9#26)			~~60.6~~	~~61~~ BDL	1
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	1
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	1
495	164	I	DIO-ACENAPHTHENE (IS#3)	726	339000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	1
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	1
435	236		HEXACHLOROCYCLOPENTADIENE (				BDL	1
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	2
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	2
527	162		ISOSAFROLE (Z9#30)				BDL	2
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	1
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	1
436	216		1,2,3,4-TETRACHLOROBENZENE				BDL	1
478	65		2-NITROANILINE (Q3#6)				BDL	1
504	158		1,4-NAPTHOQUINONE (Z9#32)				#DL	2
491	168		1,4-DINITROBENZENE (F3#2)				#DL	2
425	163		DIMETHYL PHTHALATE (Q3#7)				BDL	1
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	1
402	152		ACENAPHTHYLENE (Q3#8)				BDL	1
479	138		3-NITROANILINE (Q3#9)				#DL	2
401	153		ACENAPHTHENE (Q3#10)				BDL	1
605	184		2,4-DINITROPHENOL (Q3#11)				BDL	4
607	109		4-NITROPHENOL (Q3#12)			~~9.7~~	~~30~~ BDL	1
427	165		2,4-DINITROTOLUENE (Q3#14)				BDL	1
476	168		DIBENZOFURAN (Q3#13)				BDL	1
507	250		PENTACHLOROBENZENE (Z9#33)				#DL	1
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	2
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	2
630	231		2,3,4,6-TETRACHLOROPHENOL (				BDL	2
424	149		DIETHYL PHTHALATE (Q3#16)				#DL	1
519	97		ZINOPHOS (Z9#38)				BDL	1

CORRECTED/REVIEWED BY S. Hewitt
(QC/MS DATA REVIEWER)

DATE 5-19-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1
432	166		FLUORENE (G3#18)				BDL	1
480	138		4-NITROANILINE (G3#19)				BDL	2
498	152		5-NITRO-O-TOLUIDINE (I9#34)				BDL	2
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	1
467	188	I	D10-PHENANTHRENE (IS#4)	854	507000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1091	337000	40.0		
497	264	I	D12-PERYLENE	1255	276000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			1.9	1.%	
612	99	S	D5-PHENOL (SS#2)			0.0	0.%	
447	82	S	D5-NITROBENZENE (SS#3)			81.3	81.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			74.7	75.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			44.8	22.%	
471	212	S	D10-PYRENE			117.0	117.%	
496	244	S	D14-TERPHENYL (SS#6)			110.0	110.%	
CHECKSUMS:								
14268.				4963	2111000.	809.1		140.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	1.9	200.0	1.	21-100	
96	612	D5-PHENOL (SS#2)	NOT FOUND			10- 94	
97	447	D5-NITROBENZENE (SS#3)	81.3	100.0	81.	35-114	X
98	448	2-FLUOROBIPHENYL (SS#4)	74.7	100.0	75.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	44.8	200.0	22.	10-123	X
*1	471	D10-PYRENE	117.0	100.0	117.	40-130*	X
*1	496	D14-TERPHENYL (SS#6)	110.0	100.0	110.	33-141	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

2 ✓

CORRECTION FACTOR CALCULATION:

$$\frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\text{ML}}{1000.\text{ML}} \times 1.0\text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{1000\ \text{UL}} \times 1.0\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hunt
(QC/MS DATA REVIEWER)

DATE 5-19-90

COMPUCHEM # 037385 FILE: GH037385C06 COMPOUND LIST 173 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS04)	854	307000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3(
443	169		N-NITROSODIPHENYLAMINE (G40				BDL	1(
567	169		DIPHENYLAMINE (F303)				BDL	1(
508	213		1,3,5-TRINITROBENZENE (Z904				BDL	2(
539	108		PHENACETIN (Z9042)				BDL	1(
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1(
577	234		DIALLATE (TRANS ISOMER)				BDL	1(
541	125		DIMETHOATE (Z9044)				BDL	1(
433	284		HEXACHLOROBENZENE (G405)				BDL	1(
485	169		4-AMINOBIPHENYL (Z9045)				BDL	1(
522	173		PRONAMIDE (Z9046)				BDL	1(
609	266		PENTACHLOROPHENOL (G406)				BDL	2(
493	236		PENTACHLORONITROBENZENE (Z9				BDL	1(
444	178		PHENANTHRENE (G407)				BDL	1(
403	178		ANTHRACENE (G408)				BDL	1(
426	149		DI-N-BUTYL PHTHALATE (G409)				BDL	1(
516	97		METHAPYRILENE (Z9048)				BDL	2(
549	211		CYCLOPHOSPHAMIDE (Z9049)				BDL	5(
431	202		FLUORANTHENE (G4010)				BDL	1(
499	240	I	D12-CHRYSENE (IS05)	1091	337000	40.0		
404	184		BENZIDINE (G502)				BDL	1(
445	202		PYRENE (G503)				BDL	1(
530	185		ARAMITE (Z9050)			1.7	2J BDL	2(
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1(
523	139		CHLOROBENZILATE (Z9052)				BDL	1(
545	212		3,3'-DIMETHYLBENZIDINE (Z90				BDL	2(
415	149		BUTYLBENZYL PHTHALATE (G504				BDL	1(
488	181		2-ACETYLAMINO FLUORENE (F50				BDL	1(
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1(
423	252		3,3'-DICHLOROBENZIDINE (G50				BDL	1(
533	244		DINETHOXYBENZIDINE (Z9057)				BDL	1(
413	149		BIS(2-ETHYLHEXYL) PHTHALATE			2.1	2J	1(
409	228		BENZO(A)ANTHRACENE (G506)				BDL	1(
418	228		CHRYSENE (G508)				BDL	1(
497	264	I	D12-PERYLENE	1255	276000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G602)				BDL	1(
407	252		BENZO(B)FLUORANTHENE (G603)				BDL	1(
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1(
409	252		BENZO(K)FLUORANTHENE (G604)				BDL	1(
406	252		BENZO(A)PYRENE (G605)				BDL	1(
569	268		3-METHYLCHLORANTHRENE (F602				BDL	1(
566	279		DIBENZO(A,J)ACRIDINE				BDL	1(

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	1
419	278		DIBENZO(A,H)ANTHRACENE (G68				BDL	1
408	276		BENZO(G,H,I)PERYLENE (G688)				BDL	1
576	234		DIALLATE (CIS ISOMER)				BDL	1
531	234		DIALLATE (TOTAL)				BDL	1
CHECKSUMS:								
10114.				3200	1120000.	123. B		4.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hamill
(QC/MB DATA REVIEWER)

DATE 5-19-90

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800104RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337385

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037385C07

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/16/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	10	U
123-63-7	Paraldehyde	1	J
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	100	U
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	5	J
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800104RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Caee No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (eoil/water) WATER Lab Sample ID: 337385

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037385C07

Level: (low/med) LOW Date Received: 05/08/90

% Molsture: not dec. ____ dec. ____ Date Extracted: 05/16/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0---------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0---------Pyrene	10	U
140-57-8---------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6---------Chlorobenzilate	10	U
119-93-7---------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4---------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4---------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9---------Benzo(K)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0---------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800104RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337385

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037385C07

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/16/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 0.50

Number TICs found: 9

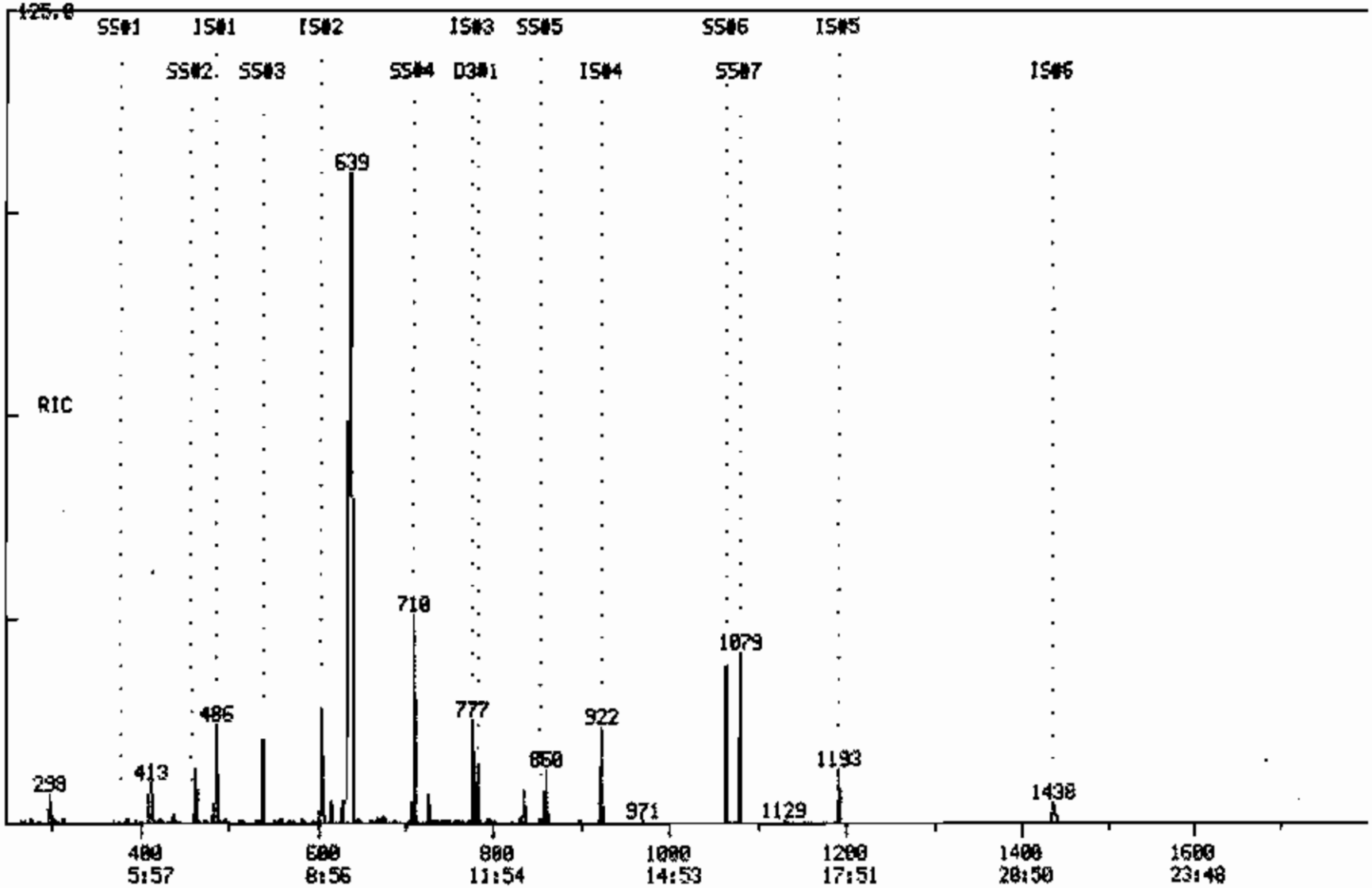
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.47	15	J
2.		UNKNOWN	6.18	32	J
3.		UNKNOWN	6.93	24	J
4.	126-54-5	2,4,8,10-TETRAOXASPIRO[5.5]U	9.24	8.0	J
5.		UNKNOWN	9.42	8.0	J
6.	2873-97-4	2-PROPENAMIDE, N-(1,1-DIMETH	9.59	600	J
7.		UNKNOWN	10.92	18	J
8.		UNKNOWN	12.52	15	J
9.		UNKNOWN	12.90	22	J

COMPUCHEM LABS

RIC
05/18/90 3:54:00
SAMPLE: 1UL CC#337385 ID#73800104 RE CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

COMPUCHEM DATA: GR037385C07 SCANS 248 TO 1798
OUT OF 248 TO 1933
ON 7



COMPUCHEM LABS

RIC
05/18/90 3:54:00
SAMPLE: IUL CC#337385 ID#738000104 RL [illegible] CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

COMPUCHEM DATA: GR037385C07 SCANS 1798 TO 1933
OUT OF 240 TO 1933
ON 7

9730238.

SCAN
TIME

NYDEC RA090 0507 ORGANIC 1017

QUANTITATION REPORT FILE: GR037385C07
DATA: GR037385C07.TI
05/18/90 3:54:00
SAMPLE: 1UL CC#337385 ID#73800104 RE [illegible] CS#20124 DN 7
CONDS.: EXTRACTED 5/16/90 UNDILUTED
SUBMITTED BY: 7 ANALYST: 917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETNYLAMINE (Q1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMETHACRYLATE (T1#4)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (Q1#3) <108-95-2>
12	473 ANILINE (Q1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
15	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
19	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
21	620 2-METHYLPHENOL (Q1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (Q1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (Q1B15) <67-72-1>
31	*460 D8-NAPHTHALENE (IS#2)
32	440 NITROBENZENE (Q1#16) <98-95-3>
33	502 N-NITROSODIPIPERIDINE (Z9#14)
34	438 ISOPHORONE (Q2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
36	606 2-NITROPHENOL (Q2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (Q2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
43	439 NAPHTHALENE (Q2#9) <91-20-3>
44	475 4-CHLOROANILINE (Q2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (Q3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
74	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
75	479 3-NITROANILINE (Q3#9) <99-09-2>
76	401 ACENAPHTHENE (Q3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (Q3#11) <51-28-4>
78	607 4-NITROPHENOL (Q3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
80	476 DIBENZOFURAN (Q3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>
88	432 FLUORENE (Q3#18) <86-73-7>
89	480 4-NITROANILINE (Q3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	#467 D10-PHENANTHRENE (IS#4)
93	#459 D12-CHRYSENE (IS#5)
94	#497 D12-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	486	7:14	1	1.000	A BB	282552.	40.000	NG	6.49
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	303	4:30	-1	0.623	A BB	2776.	1.467	NG	0.24 Y
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	605	9:00	31	1.000	A BB	872128.	40.000	NG	6.49
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	607	9:02	31	1.003	A BB	127476.	4.782	NG	0.78 Y
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	605	9:00	31	1.000	A BB	119388.	42.009	NG	6.82 No
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	777	11:33	59	1.000	A BB	448448.	40.000	NG	6.49
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	759	11:17	59	0.977	A BB	5764.	1.541	NG	0.25 NO
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	922	13:43	92	1.000	A BB	643788.	40.000	NG	6.49
93	240	1193	17:45	93	1.000	A BB	472052.	40.000	NG	6.49
94	264	1438	21:23	94	1.000	A BB	373136.	40.000	NG.	6.49
95	112	NOT FOUND								
96	99	NOT FOUND								
97	82	539	8:01	31	0.891	A BB	652264.	64.838	NG	10.52
98	172	710	10:34	59	0.914	A BB	1076570.	73.707	NG	11.96
99	330	855	12:43	59	1.100	A BB	7332.	4.254	NG	0.69
100	212	1064	15:50	93	0.892	A BV	1350390.	91.286	NG	14.82
101	244	1079	16:03	93	0.904	A VB	1171720.	92.311	NG	14.98

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:52		10.000			50.00		0.632	
3	3:52		10.000			50.00		1.218	
4	4:28		10.000			50.00		1.061	
5	4:29	1.01	10.000	0.06	1.47	50.00	0.008	0.268	0.03
6	4:51		20.000			50.00		1.218	
7	5:02		10.000			200.00		0.277	
8	5:25		10.000			50.00		0.838	
9	5:54		10.000			50.00		0.628	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:17		10.000			50.00		0.687	
11	6:47		10.000			50.00		1.825	
12	6:50		10.000			50.00		2.076	
13	6:50		10.000			50.00		0.985	
14	6:53		20.000			50.00		1.388	
15	6:59		10.000			50.00		1.508	
16	7:10		10.000			50.00		1.602	
17	7:15		10.000			50.00		2.729	
18	7:14		10.000			50.00		1.828	
19	7:24		10.000			50.00		0.809	
20	7:29		10.000			50.00		1.905	
21	7:34		10.000			50.00		1.217	
22	7:38		10.000			50.00		1.073	
23	7:46		10.000			100.00		1.335	
24	7:46		10.000			100.00		1.335	
25	7:47		10.000			50.00		0.682	
26	7:48		10.000			50.00		0.363	
27	7:47		10.000			50.00		2.018	
28	7:49		10.000			50.00		0.988	
29	7:50		10.000			50.00		1.293	
30	7:55		10.000			50.00		0.766	
31	8:59	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	8:01		10.000			50.00		0.482	
33	8:14		10.000			50.00		0.212	
34	8:21		10.000			50.00		0.889	
35	8:30		10.000			50.00		0.498	
36	8:28		10.000			50.00		0.283	
37	8:29		10.000			50.00		0.426	
38	8:31		10.000			50.00		0.769	
39	8:37		100.000			50.00		0.218	
40	8:39		10.000			50.00		0.467	
41	8:47		10.000			50.00		0.318	
42	8:55		10.000			50.00		0.373	
43	9:01	1.00	10.000	0.10	4.78	50.00	0.117	1.223	0.10
44	9:06		10.000			50.00		0.499	
45	9:07		20.000			50.00		0.364	
46	8:59	1.00	10.000	0.10	42.01	50.00	0.110	0.130	0.84
47	9:16		10.000			50.00		0.078	
48	9:11		10.000			50.00		0.231	
49	9:15		10.000			50.00		0.222	
50	9:16		10.000			50.00		0.376	
51	9:21		20.000			50.00		0.469	
52	9:36		10.000			50.00		0.161	
53	9:46		10.000			50.00		0.413	
54	9:46		10.000			50.00		0.033	
55	9:53		10.000			50.00		0.281	
56	9:53		10.000			50.00		0.001	
57	10:00		10.000			50.00		1.003	
58	10:10		10.000			50.00		0.524	
59	11:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	10:18		10.000			100.00		0.643	
61	10:18		10.000			100.00		0.643	
62	10:19		10.000			50.00		0.326	
63	10:26		20.000			50.00		0.425	
64	10:29		20.000			50.00		0.385	
65	10:36		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:43		10.000			50.00		1.638	
67	10:45		10.000			50.00		0.926	
68	10:44		10.000			50.00		0.630	
69	10:53		10.000			50.00		0.404	
70	10:58		20.000			50.00		0.456	
71	11:03		20.000			50.00		0.250	
72	11:11		10.000			50.00		1.398	
73	11:17	1.00	10.000	0.10	1.54	50.00	0.010	0.334	0.03
74	11:20		10.000			50.00		1.851	
75	11:29		20.000			50.00		0.370	
76	11:36		10.000			90.00		1.264	
77	11:38		40.000			90.00		0.171	
78	11:42		10.000			50.00		0.204	
79	11:51		10.000			50.00		0.504	
80	11:50		10.000			90.00		1.640	
81	11:51		10.000			90.00		0.535	
82	11:57		20.000			50.00		0.664	
83	12:03		20.000			50.00		0.732	
84	12:03		20.000			50.00		0.277	
85	12:13		10.000			50.00		1.570	
86	12:21		10.000			90.00		0.407	
87	12:19		10.000			90.00		0.569	
88	12:20		10.000			50.00		1.452	
89	12:23		20.000			50.00		0.366	
90	12:23		20.000			50.00		0.404	
91	12:33		10.000			50.00		1.744	
92	13:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	17:45	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	21:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:36		0.742			90.00		1.307	
96	6:46		0.948			50.00		1.476	
97	8:00	1.00	0.875	1.02	64.84	50.00	0.598	0.461	1.30
98	10:33	1.00	0.906	1.01	73.71	90.00	1.921	1.303	1.47
99	12:42	1.00	1.118	0.98	4.25	90.00	0.013	0.134	0.09
100	15:50	1.00	10.000	0.09	91.29	50.00	2.289	1.234	1.83
101	16:02	1.00	0.907	1.00	92.31	50.00	1.986	1.076	1.85

QUANTITATION REPORT   FILE: QR037385C07
DATA: QR037385C07.TI
05/18/90 3:54:00
SAMPLE: 1UL CC#337385 ID#73800104 [illegible] CS#20124   DN 7
CONDS.: EXTRACTED 5/16/90 UNDILUTED
SUBMITTED BY: 7   ANALYST: 917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*467 D10-PHENANTHRENE (IS#4)
2	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
4	567 DIPHENYLAMINE (F3#3)
5	508 1,3,5-TRINITROBENZENE (Z9#41)
6	539 PHENACETIN (Z9#42) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9#44)
10	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9#45)
12	522 PRONAMIDE (Z9#46)
13	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9#47)
15	444 PHENANTHRENE (G4#7) <85-01-8>
16	403 ANTHRACENE (G4#8) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
18	516 METHAPYRILENE (Z9#48)
19	549 CYCLOPHOSPHAMIDE (Z9#49)
20	431 FLUORANTHENE (G4#10) <206-44-0>
21	*459 D12-CHRYSENE (IS#5)
22	404 BENZIDINE (G5#2) <92-87-5>
23	445 PYRENE (G5#3) <129-00-0>
24	530 ARAMITE (Z9#50) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
26	523 CHLOROBENZILATE (Z9#52)
27	545 3,3'-DIMETHYLBENZIDINE (Z9#53)
28	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F5#2)
30	489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
31	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9#57)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
35	418 CHRYSENE (G5#8) <218-01-9>
36	*497 D12-PERYLENE (IS#6)
37	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
40	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
41	406 BENZO(A)PYRENE (G6#5) <50-32-8>
42	565 3-METHYLCHLORANTHRENE (F6#2)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTDT
1	188	922	13:43	1	1.000	A BB	643788.	40.000	NG	32.91
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1193	17:45	21	1.000	A BB	472052.	40.000	NG	32.91
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	1079	16:03	21	0.904	A BB	2388.	1.935	NG	1.26 NO
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1438	21:23	36	1.000	A BB	373136.	40.000	NG.	32.91
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

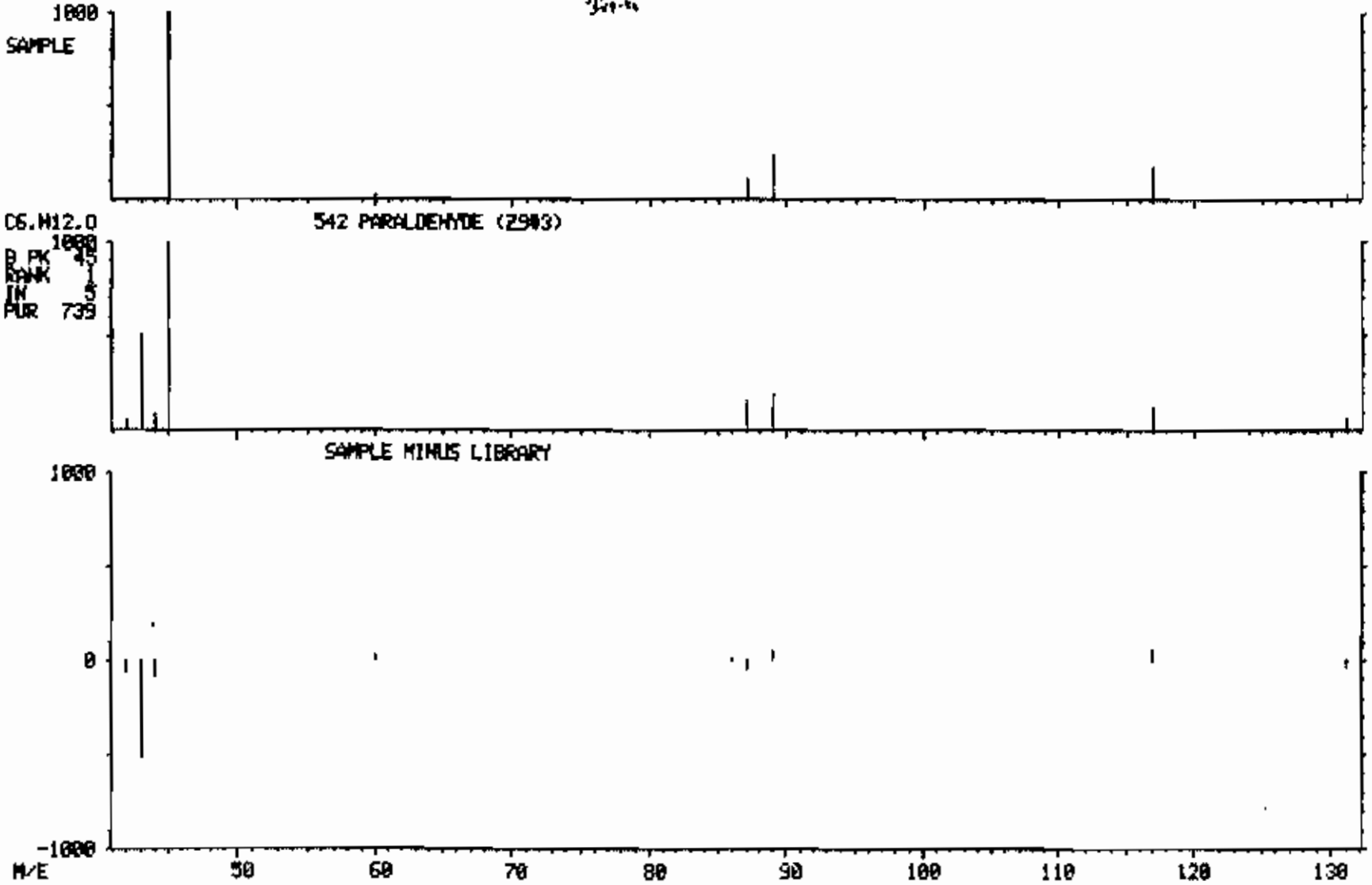
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	13:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	12:27		30.000			50.00		0.163	
3	12:30		10.000			100.00		0.772	
4	12:30		10.000			100.00		0.772	

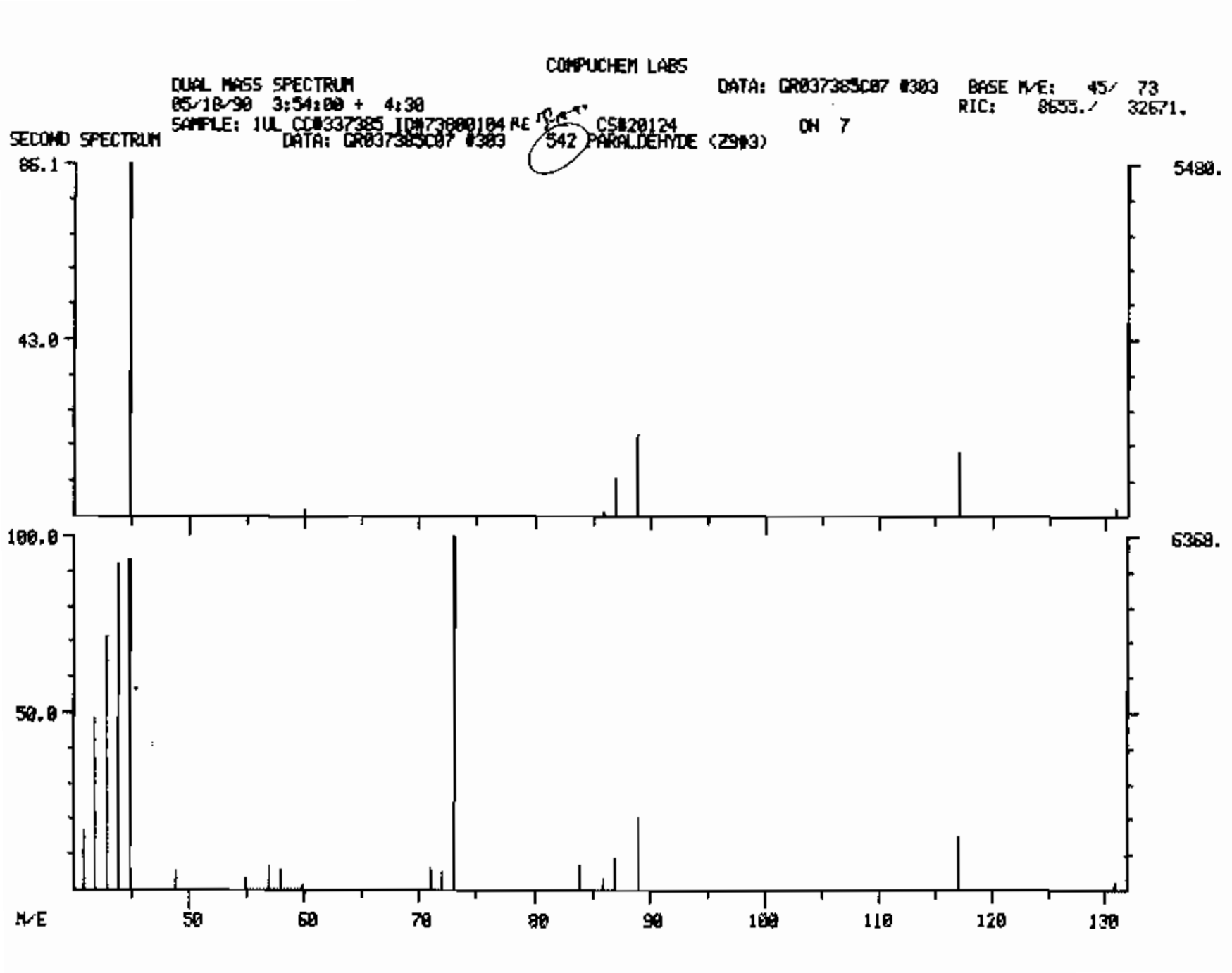
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
5	12:56		20.000			50.00		0.101	
6	12:58		10.000			50.00		0.485	
7	13:02		10.000			50.00		0.233	
8	13:05		10.000			25.00		0.171	
9	13:14		10.000			50.00		0.168	
10	13:15		10.000			50.00		0.291	
11	13:25		10.000			50.00		0.608	
12	13:32		10.000			50.00		0.397	
13	13:30		20.000			50.00		0.191	
14	13:38		10.000			50.00		0.104	
15	13:45		10.000			50.00		1.312	
16	13:49		10.000			50.00		1.158	
17	14:35		10.000			50.00		1.644	
18	15:02		20.000			50.00		0.284	
19	15:20		90.000			200.00		0.048	
20	15:31		10.000			50.00		1.074	
21	17:45	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	15:41		10.000			50.00		0.157	
23	15:51		10.000			50.00		1.451	
24	16:00	1.00	20.000	0.05	1.54	50.00	0.004	0.132	0.03
25	16:16		10.000			50.00		0.248	
26	16:20		10.000			50.00		0.766	
27	16:45		20.000			50.00		0.490	
28	16:47		10.000			50.00		0.889	
29	17:10		10.000			50.00		0.540	
30	17:38		10.000			50.00		0.209	
31	17:39		10.000			50.00		0.300	
32	17:36		10.000			50.00		0.162	
33	17:44		10.000			50.00		1.361	
34	17:43		10.000			50.00		1.251	
35	17:47		10.000			50.00		0.961	
36	21:24	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	19:02		10.000			50.00		2.016	
38	20:14		10.000			50.00		1.241	
39	20:16		10.000			50.00		0.421	
40	20:17		10.000			50.00		0.433	
41	21:14		10.000			50.00		0.976	
42	22:33		10.000			50.00		0.614	
43	24:58		10.000			50.00		0.939	
44	25:50		10.000			50.00		1.295	
45	29:57		10.000			90.00		1.078	
46	27:12		10.000			50.00		1.020	
47	13:05		10.000			25.00		0.171	

COMPUCHEM LABS

LIBRARY SEARCH
05/10/90 3:54:00 + 4:30
SAMPLE: 1UL CC#337385 ID#73800104 RE CS#20124

DATA: GR037385C07 # 303 BASE M/E: 45
ENHANCED (100 2N 0T) RIC: 8655.
ON 7



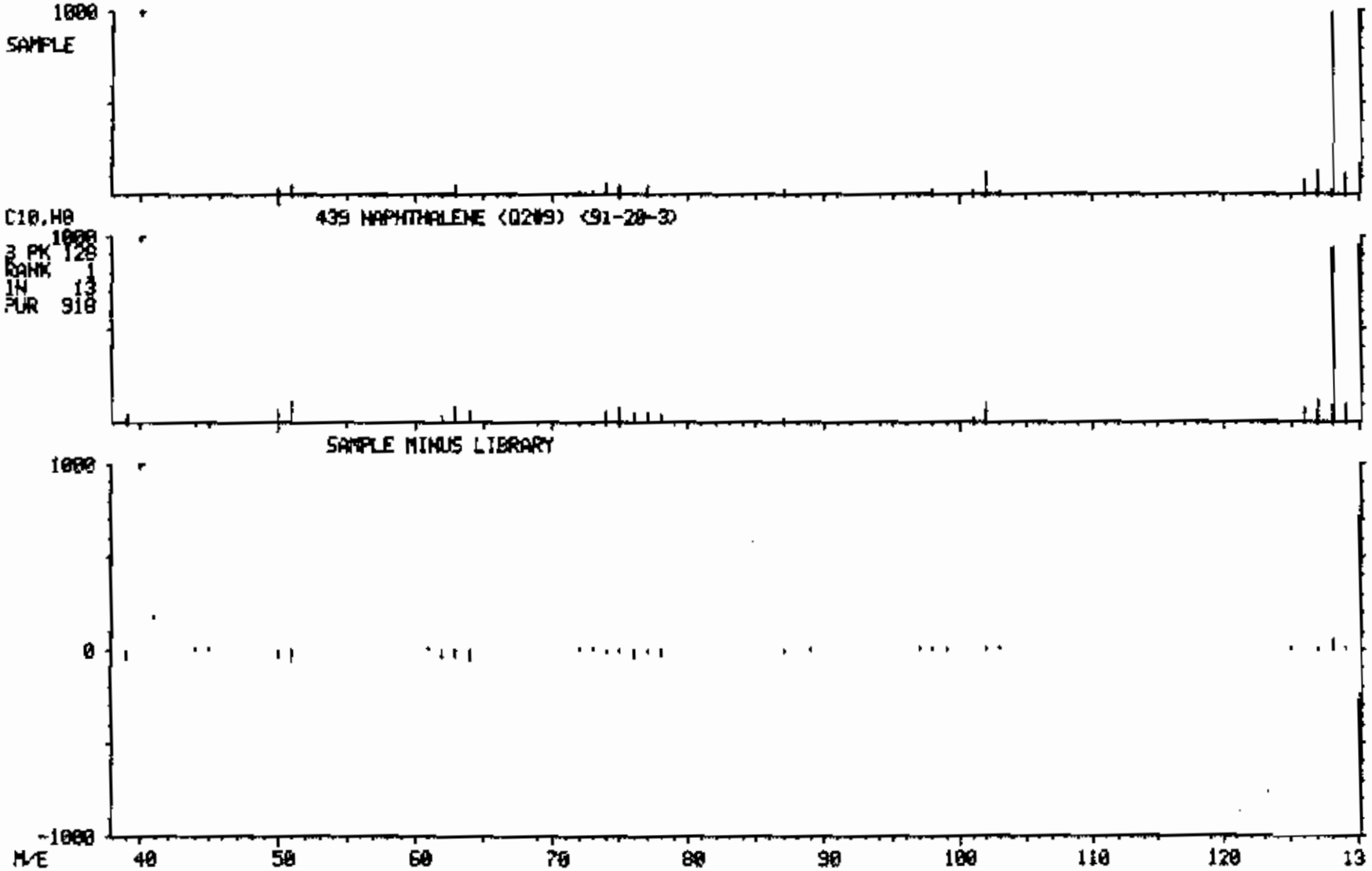


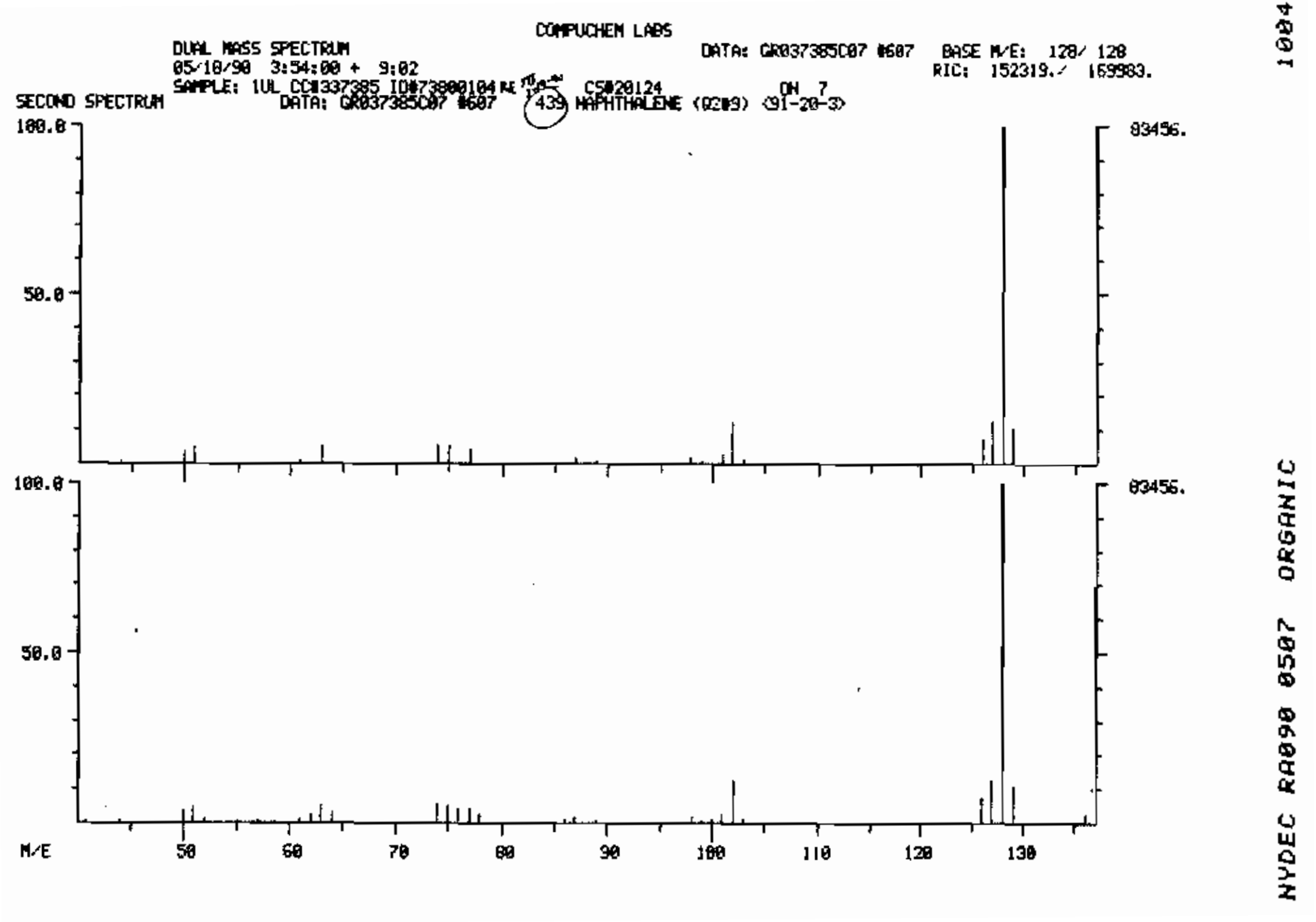
COMPUCHEM LABS

LIBRARY SEARCH
05/18/90 3:54:00 + 9:02
SAMPLE: 1UL CC#337385 ID#73000104 RE CS#20124

DATA: GR037385C07 @ 607
ENHANCED (100 2M 0T)
ON 7

BASE M/E: 128
RIC: 152319.



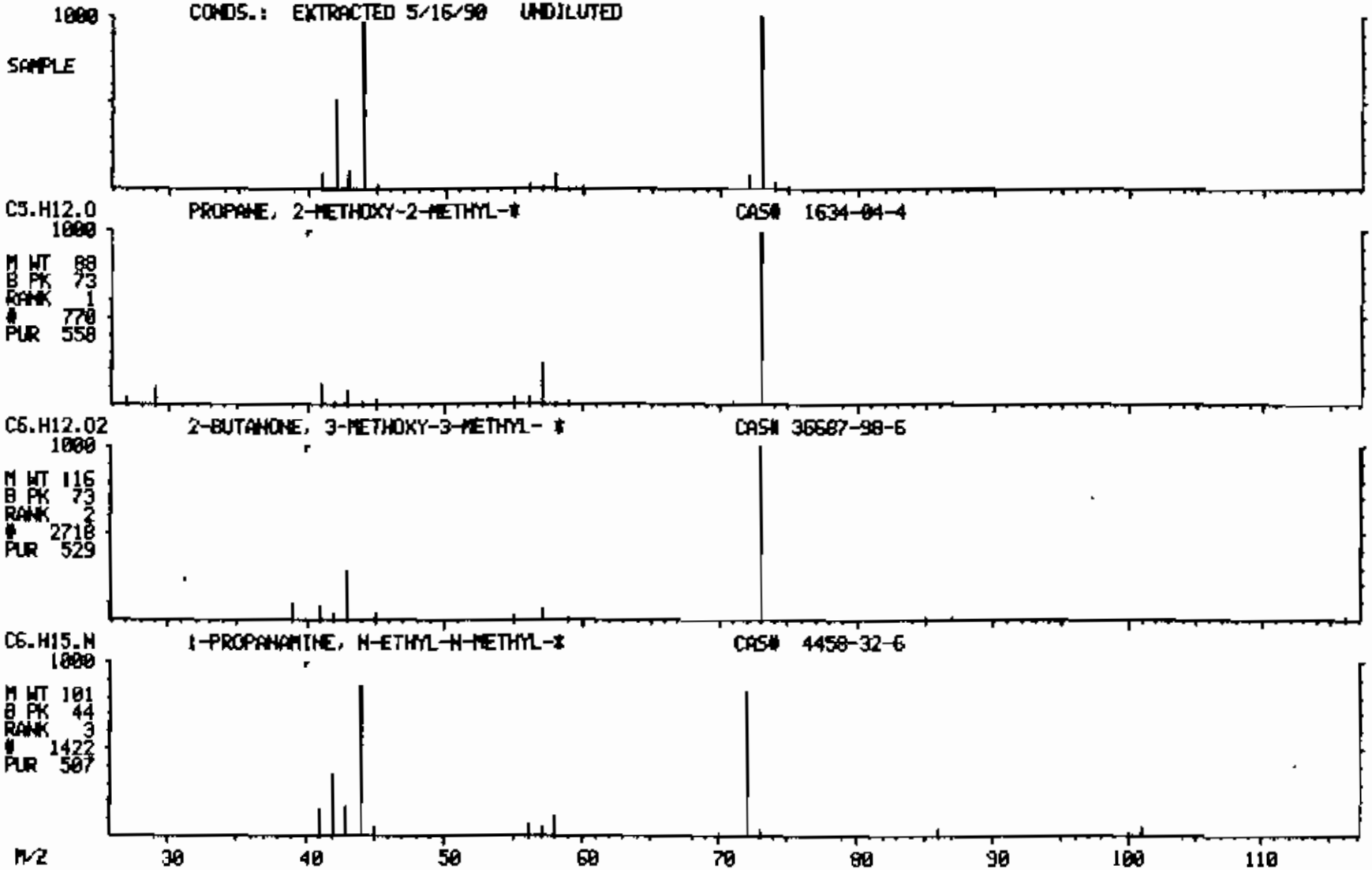


NYDEC RA090 0507 ORGANIC 1004

COMPUCHEM LABS, INC.

05/16/90 3:54:00 + 4:26
SAMPLE: 1UL CC#337385 ID#73000104 RC 5/19-TT CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

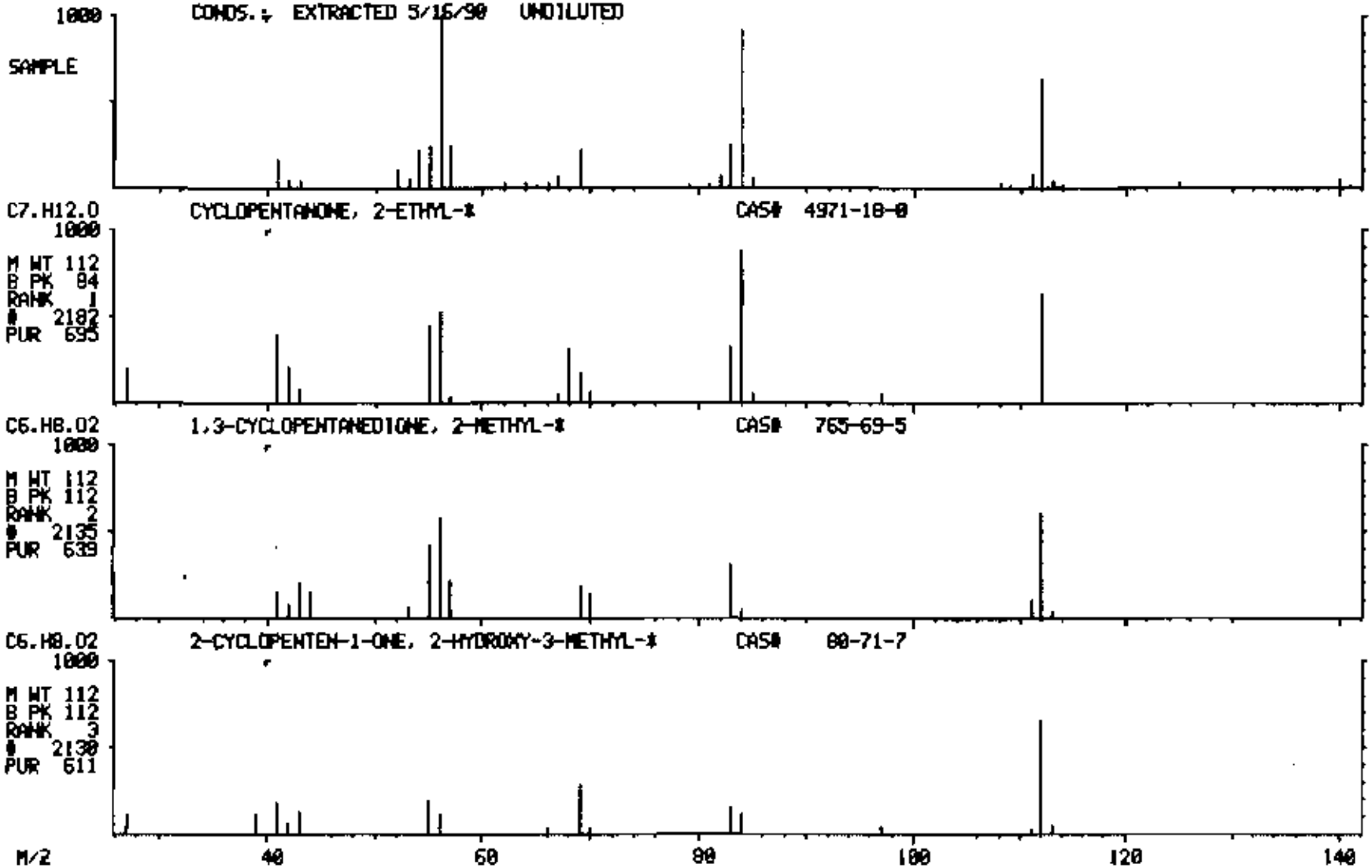
MID LIBRARY SEARCH
DATA: GR037385C07 # 290 BASE M/Z: 73
ENHANCED (100 2N 0T) RIC: 319999.
ON 7

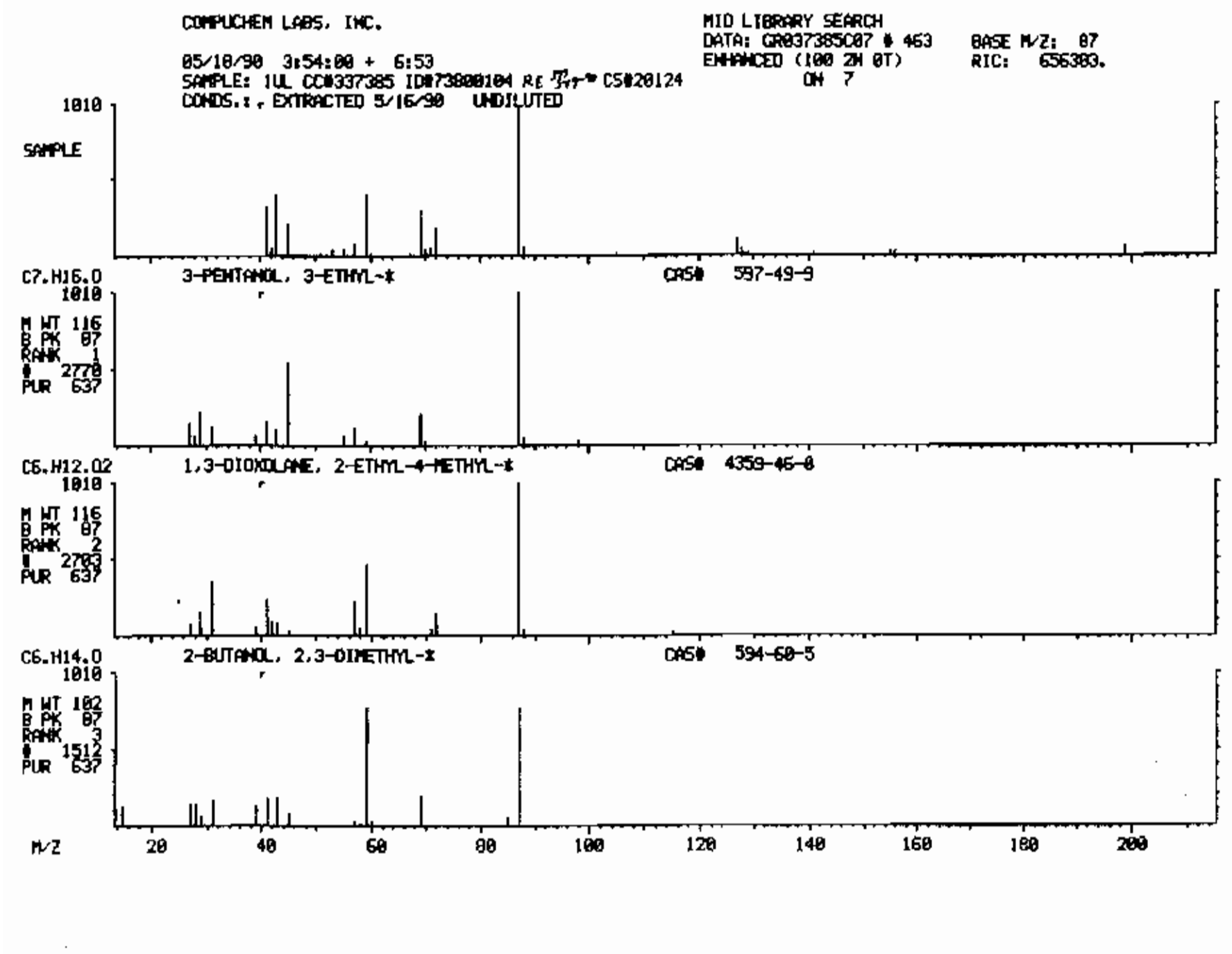


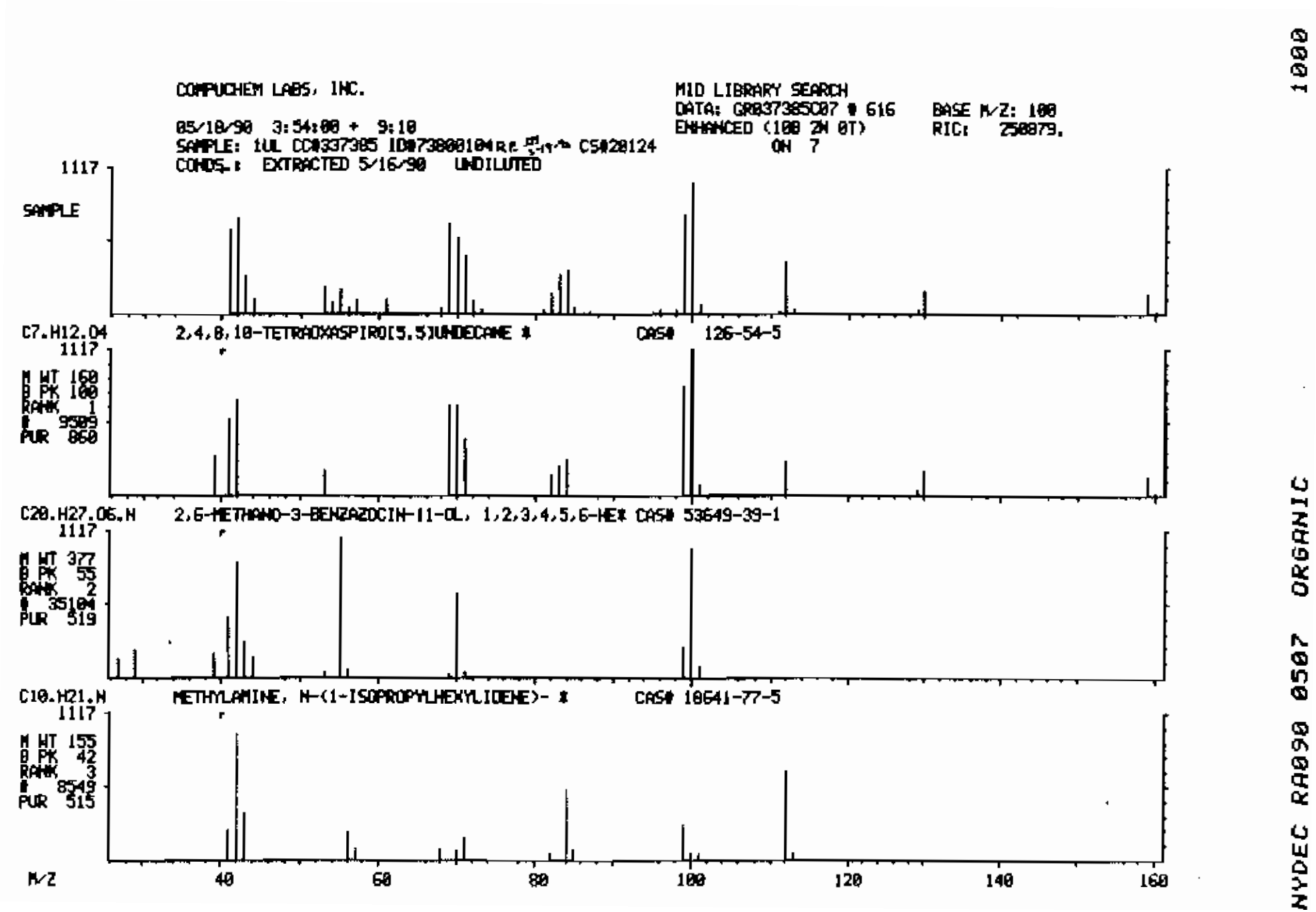
COMPUCHEM LABS, INC.

05/10/90 3:54:00 + 6:09
SAMPLE: 1UL CC#337385 ID#73000104 RE [illegible] CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

NIO LIBRARY SEARCH
DATA: GR037385C07 # 413 BASE M/Z: 56
ENHANCED (100 2N 0T) RIC: 449023.
ON 7




COMPUCHEM LABS, INC.
05/10/90 3:54:00 + 6:53
SAMPLE: 1UL CC#337385 ID#73000104 RE CS#20124
CONDS.: , EXTRACTED 5/16/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037385C07 # 463 BASE M/Z: 87
ENHANCED (100 2M 0T) RIC: 656380.
ON 7
1010
SAMPLE
C7.H16.O 3-PENTANOL, 3-ETHYL-* CAS# 597-49-9
M WT 116
B PK 87
RANK 1
2770
PUR 637
C6.H12.O2 1,3-DIOXOLANE, 2-ETHYL-4-METHYL-* CAS# 4359-46-0
M WT 116
B PK 87
RANK 2
2703
PUR 637
C6.H14.O 2-BUTANOL, 2,3-DIMETHYL-* CAS# 594-60-5
M WT 102
B PK 87
RANK 3
1512
PUR 637
M/Z
20
40
60
80
100
120
140
160
180
200


COMPUCHEM LABS, INC.
05/10/90 3:54:00 + 9:10
SAMPLE: 1UL CC#337385 ID#7300104 RF CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037385C07 # 616
ENHANCED (100 2M 0T)
ON 7
BASE M/Z: 100
RIC: 250879.
1117
SAMPLE
C7.H12.O4 2,4,8,10-TETRAOXASPIRO[5.5]UNDECANE * CAS# 126-54-5
M WT 160
B PK 100
RANK 1
9589
PUR 860
C20.H27.O6.N 2,6-METHANO-3-BENZAZOCIN-11-OL, 1,2,3,4,5,6-HE* CAS# 53649-39-1
M WT 377
B PK 55
RANK 2
35104
PUR 519
C10.H21.N METHYLAMINE, N-(1-ISOPROPYLHEXYLIDENE)- * CAS# 10641-77-5
M WT 155
B PK 42
RANK 3
8549
PUR 515
M/Z
40
60
80
100
120
140
160
1000
NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

05/18/90 3:54:00 + 9:21
SAMPLE: 1UL CC#337385 ID073000104 RE [illegible] CS#20124
COMDS.: EXTRACTED 5/16/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037385C07 # 628 BASE M/Z: 58
ENHANCED (100 2N 0T) RIC: 150015.
ON 7

1061

SAMPLE

C8.H17.O.N FORMAMIDE, N-BUTYL-N-(1-METHYLETHYL)- # CAS# 54965-79-6

1061

M WT 143
B PK 58
RANK 1
6413
PUR 506

C6.H13.O.N 2-PENTANONE, 4-AMINO-4-METHYL- # CAS# 625-04-7

1061

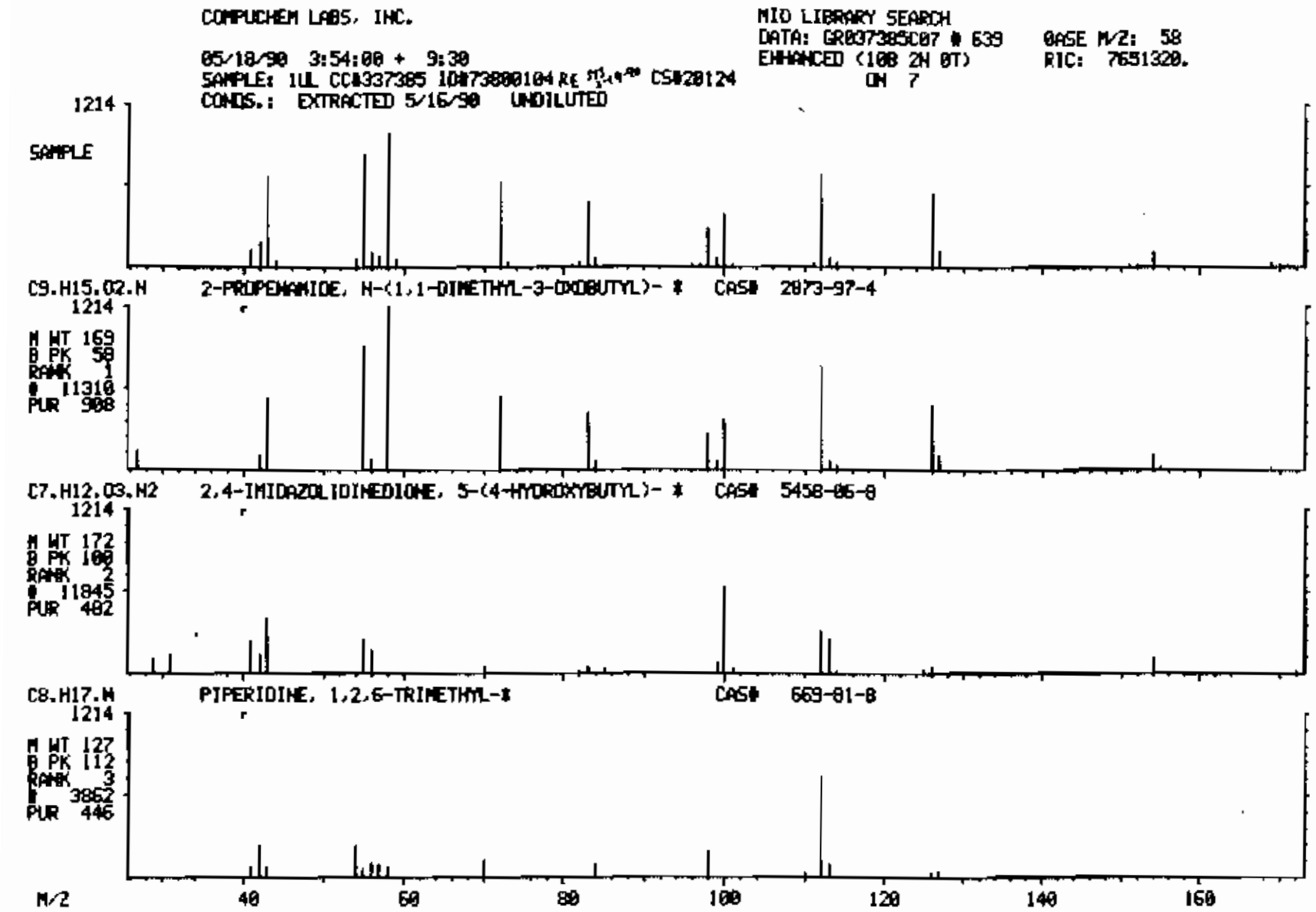
M WT 115
B PK 58
RANK 2
2593
PUR 458

C7.H17.N 2-PROPANAMINE, N-METHYL-N-(1-METHYLETHYL)-# CAS# 10342-97-9

1061

M WT 115
B PK 58
RANK 3
2612
PUR 454

M/Z 40 60 80 100 120 140 160

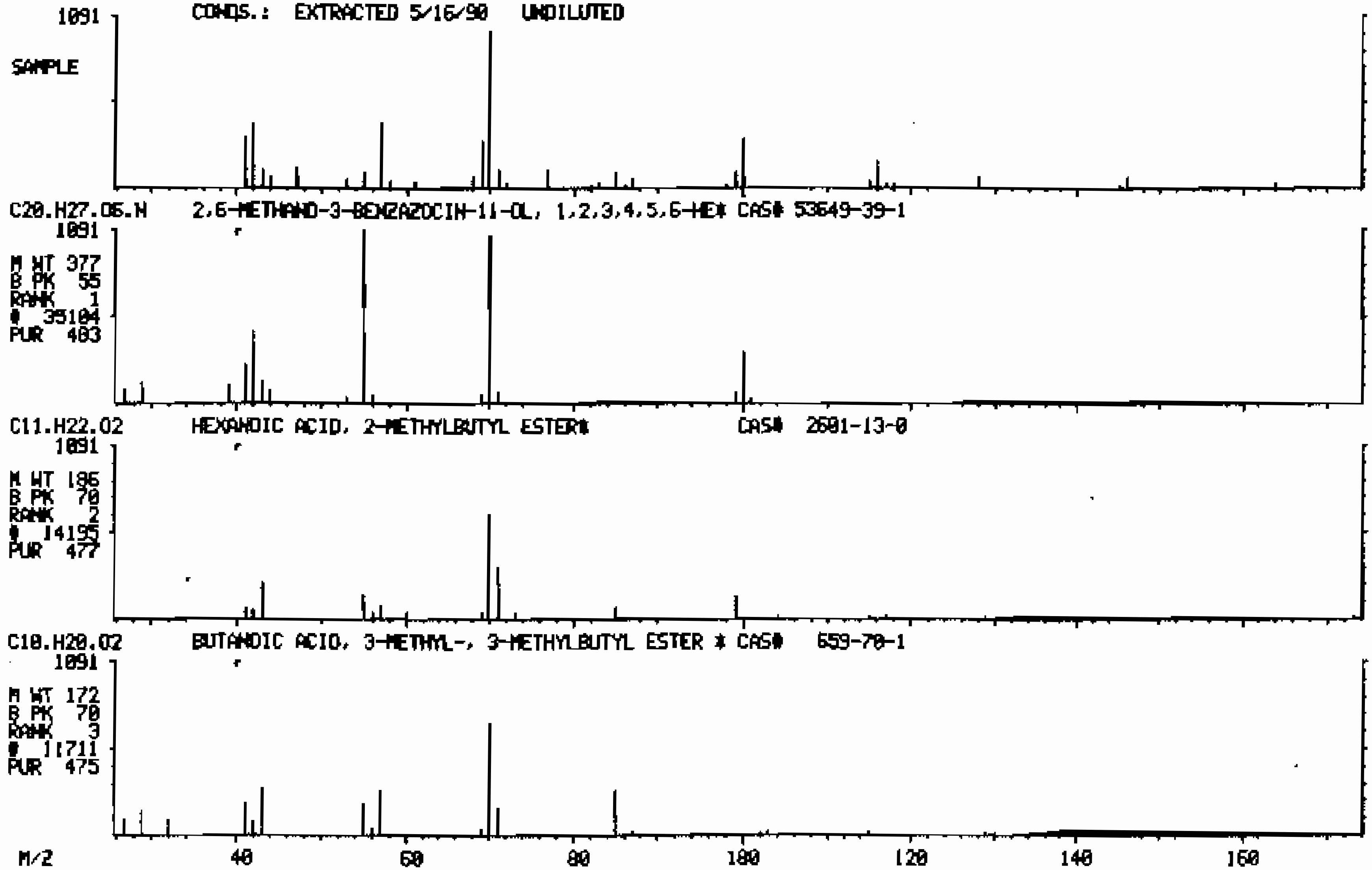

COMPUCHEM LABS, INC.
05/18/90 3:54:00 + 9:30
SAMPLE: 1UL CC#337385 ID#73000104 RE CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037385C07 # 639 BASE M/Z: 58
ENHANCED (100 2N 0T) RIC: 7651320.
ON 7
1214
SAMPLE
C9.H15.02.N 2-PROPENAMIDE, N-(1,1-DIMETHYL-3-OXOBUTYL)- * CAS# 2873-97-4
M WT 169
B PK 58
RANK 1
11310
PUR 908
C7.H12.03.N2 2,4-IMIDAZOLIDINEDIONE, 5-(4-HYDROXYBUTYL)- * CAS# 5458-06-8
M WT 172
B PK 100
RANK 2
11845
PUR 402
C8.H17.N PIPERIDINE, 1,2,6-TRIMETHYL-* CAS# 669-81-8
M WT 127
B PK 112
RANK 3
3862
PUR 446
M/Z
40
60
80
100
120
140
160

COMPUCHEM LABS, INC.

05/18/90 3:54:00 + 10:50
SAMPLE: 1UL CC#337385 ID#73880104 ... CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

MIO LIBRARY SEARCH
DATA: GR037385C07 # 728
ENHANCED (100 2N 0T)
ON 7

BASE M/Z: 70
RIC: 329215.

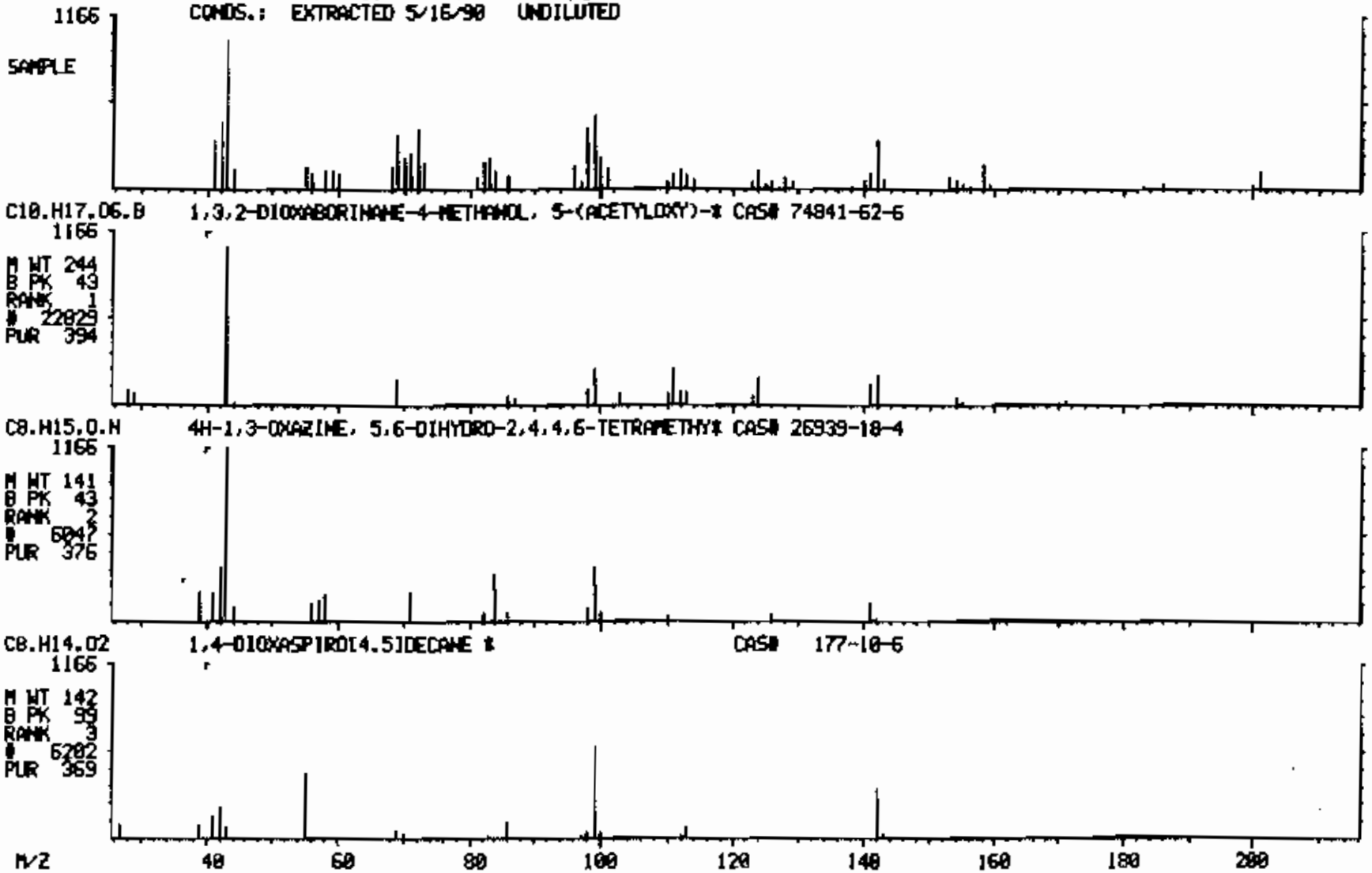


COMPUCHEM LABS, INC.
MID LIBRARY SEARCH
05/18/90 3:54:00 + 12:25
DATA: DR037305007 # 835
BASE M/Z: 99
SAMPLE: 1UL CO#337305 ID#738001D4 AC
CS#20124
ENHANCED (10B 2N 0T)
RIC: 359653.
CONDS.: EXTRACTED 5/16/90 UNDILUTED
ON 7
SAMPLE
C7.H13.O.N
3-QUINUCLIDINOL *
CAS# 1619-34-7
C10.H21.N
1-BUTANAMINE, 2-METHYL-N-(2-METHYLBUTYLIDENE)-* CAS# 54518-97-7
C7.H13.O.N
2H-AZEPIN-2-ONE, HEXAHYDRO-3-METHYL-* CAS# 2073-32-7
M/Z

COMPUCHEM LABS, INC.

05/10/90 3:54:00 + 12:40
SAMPLE: 1UL CC#337385 ID#73000104 CS#20124
CONDS.: EXTRACTED 5/16/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037385C07 @ 860 BASE M/Z: 43
ENHANCED (100 2N 0T) RIC: 500607.
ON 7



MAST 5-6

LAB INSTRUCTIONS:

CASE#: 20124 DUE DATE:

GC/MS WORKSHEET COMPUCHEM#: 337385R J[ ] R[X] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

SEMI-VOA + L.S. 3rd Ed SW-846, METHOD 8270
S-V EXTRACTION, EPA/METHOD 3510
LOW LEVEL LIQUID [redacted]

15 PEAK LIBRARY SEARCH REQUIRED

Sample Prep Code---079
Instrument Code----280
Compound List------379
Surrogate Std------393
Internal Std-------035

SAF#: EPA#: 73000104 RE [illegible]

GC/MS ANALYSIS
Volumes mixed: BN ___200___ ul Acid ________ ul
Internal Standard Volume Added ___50___ ul
Mixed Sample Volume Injected ___1.0___ ul
Date of Sample Bottle Analyzed ___5/16/90___
DFTPP Filename ___DF[illegible]___ Disk ( )
Standard Filename ___[illegible]___ Disk ( )
Sample Filename ___[illegible]___ Disk ( )

ANALYST(S): Injection ___917 [illegible]___ Work-up ___917___

RECEIVED MAY 21 1990

GC/MS REVIEW

CONDITION CODE: ES

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,HL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS ED,IF,LA,DI,CO,RN,DW,DA

[illegible] 5/18/90

Extraneous Peak Search Results:

# of Peaks Found: ___9___

# of Hits: ___2___

# of Surrogate Outliers: ___3___

Quality Assurance Notice(s):

Notices Required ___2___

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

GC/MS Review ___[signature]___ Date ___5/19/90___ Auditor ___[signature]___ Date ___5/21/90___

REPORT INTEGRATION Total # of Injections: ________
Final Reportable Package(s): ___6RO37385CO7___ / ___GHO37385COG___

QA COMMENTS:

Initials ________ Date ___/___/___

FINAL REVIEW: Initials ________ Date ___/___/___

AC516 (06/87)

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: Carl Hatke / Annette Dunaway

DATE ASSIGNED 5/16/90

EMP ID NUMBER 1787

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL(ml) SV B/N	FINAL EXTRACT VOL(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337362R	-079	20124	73100102		3/3→		500	.5	—	13	1	Use 500ml sample volume for BS only (DUP sample)
2	337365R		↓	73100104		1/3→		500	.5	—	13	1	Add 0.5ml surr. Add 0.5ml spike.
3	335510R		19688	PO50 51000		3/3→		500	.5	—	13	1	Conc. to 0.5ml final volume
4													valid / not validation spike for BS only
5													
6													
7													
8													
9													
10													
11													
12													
13	339998			SBLK 15	B1			500	.5	—	13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	0.5ml				
	LOT	31900				
						valid
SPIKE	NO.		3012	2021		spike
	AMT.					
	LOT					

MANUAL COUNTER 510/995

FINAL VOLUME VERIFIED Carl A Hatke

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY

SURROGATE & SPIKE ADDED CORRECTLY INT 5/16/90 DATE

ISSUED BY:

993

NYDEC RA090 0507 ORGANIC

COMPUCHEM # 037385 FILE: QR037385C07 COMPOUND LIST 170 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	486	283000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	1(
481	79		PYRIDINE (Z9#1)				BDL	1(
509	69		ETHYLMETHACRYLATE (T1#4)				BDL	1(
542	89		PARALDEHYDE (Z9#3)			1.5	2J	1(
510	93		2-PICOLINE (Z9#36)				BDL	2(
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1(
543	80		METHYL METHANE SULFONATE (Z				BDL	1(
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	1(
514	109		ETHYL METHANESULFONATE (Z9#				BDL	1(
610	94		PHENOL (G1#3)				BDL	1(
473	93		ANILINE (G1#4)				BDL	1(
505	167		PENTACHLOROETHANE (Z9#8)				BDL	1(
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	2(
601	128		2-CHLOROPHENOL (G1#6)				BDL	1(
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	1(
506	91		BENZYL CHLORIDE (Z9#9)				BDL	1(
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	1(
474	108		BENZYL ALCOHOL (G1#9)				BDL	1(
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	10
620	108		2-METHYLPHENOL (G1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (G1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLOROETHANE (G1#15)				BDL	10
460	136	I	D8-NAPHTHALENE (IS#2)	605	872000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	10
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	10
438	82		ISOPHORONE (G2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	10
606	139		2-NITROPHENOL (G2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (G2#5)				#DL	100
410	93		#IB(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	10
439	128		NAPHTHALENE (G2#9)			4.8	5J	10

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-19-90

COMPUCHEM # 037385 FILE: GR037385C07 COMPOUND LIST 170 PAGE

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (Q2#10)				BDL	1
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	2
524	108		O-PHENYLENEDIAMINE (Z9#19)			42.0	42 BDL	1
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	1
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	1
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	1
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	1
534	199		BENZOTRICHLORIDE (Z9#23)				BDL	2
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	1
608	107		P-CHLORO-M-CRESOL (G2#12)				BDL	1
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	1
503	162		SAFROLE (Z9#27)				BDL	1
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	1
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	1
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	1
495	164	I	D10-ACENAPHTHENE (I5#3)	777	448000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	1
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	1
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	1
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	2
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	2
527	162		ISOSAFROLE (Z9#30)				BDL	2
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	1
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	1
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	1
478	65		2-NITROANILINE (G3#6)				BDL	1
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	2
491	168		1,4-DINITROBENZENE (F3#2)				BDL	2
425	163		DIMETHYL PHTHALATE (G3#7)				BDL	1
428	165		2,6-DINITROTOLUENE (G3#15)			1.5	2 BDL	1
402	152		ACENAPHTHYLENE (G3#8)				BDL	1
479	138		3-NITROANILINE (G3#9)				BDL	2
401	153		ACENAPHTHENE (G3#10)				BDL	1
605	184		2,4-DINITROPHENOL (G3#11)				BDL	4
607	109		4-NITROPHENOL (G3#12)				BDL	1
427	165		2,4-DINITROTOLUENE (G3#14)				BDL	1
476	168		DIBENZOFURAN (G3#13)				BDL	1
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	1
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	2
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	2
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	2
424	149		DIETHYL PHTHALATE (G3#16)				BDL	1
519	97		ZINOPHOS (Z9#38)				BDL	1

CORRECTED/REVIEWED BY S. Hewitt
(QC/MS DATA REVIEWER)

DATE 5-19-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1(
432	166		FLUORENE (B3#18)				BDL	1(
480	138		4-NITROANILINE (B3#19)				BDL	2(
498	152		5-NITRO-O-TOLUIDINE (I9#34)				BDL	2(
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	1(
467	188	I	D10-PHENANTHRENE (IS#4)	922	644000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1193	472000	40.0		
497	264	I	D12-PERYLENE (IS#6)	1438	373000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			0.0	0.%	
612	99	S	D5-PHENOL (SS#2)			0.0	0.%	
447	82	S	D5-NITROBENZENE (SS#3)			64.8	65.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			73.7	74.%	
628	329	S	2,4,6-TRIBROMOPHENOL (SS#5)			4.3	2.%	
471	212	S	D10-PYRENE (SS#6)			91.3	91.%	
496	244	S	D14-TERPHENYL (SS#7)			92.3	92.%	
CHECKSUMS:								
14269.				5421	3092000.	616.2		51.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	NOT FOUND			21-100	
96	612	D5-PHENOL (SS#2)	NOT FOUND			10- 94	
97	447	D5-NITROBENZENE (SS#3)	64.6	100.0	65.	35-114	X
98	448	2-FLUOROBIPHENYL (SS#4)	73.7	100.0	74.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	4.3	200.0	2.	10-123	
*1	471	D10-PYRENE (SS#6)	91.3	100.0	91.	40-130*	X
*1	496	D14-TERPHENYL (SS#7)	92.3	100.0	92.	33-141	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORY VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ ML}{500.\ ML} \times 0.5ML \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ UL}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000\ UL}{500\ UL} \times 0.5ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hunt
(QC/MS DATA REVIEWER)

DATE 5-19-92

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (I804)	922	644000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3(
443	169		N-NITROSODIPHENYLAMINE (G48				BDL	1(
567	169		DIPHENYLAMINE (P383)				BDL	1(
508	213		1,3,5-TRINITROBENZENE (Z984				BDL	2(
539	108		PHENACETIN (Z9842)				BDL	1(
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1(
577	234		DIALLATE (TRANS ISOMER)				BDL	1(
541	125		DIMETHOATE (Z9844)				BDL	1(
433	284		HEXACHLOROBENZENE (G485)				BDL	1(
485	169		4-AMINOBIPHENYL (Z9845)				BDL	1(
522	173		PRONAMIDE (Z9846)				BDL	1(
609	266		PENTACHLOROPHENOL (G486)				BDL	2(
453	237		PENTACHLORONITROBENZENE (Z9				BDL	1(
444	178		PHENANTHRENE (G487)				BDL	1(
403	178		ANTHRACENE (G488)				BDL	1(
426	149		DI-N-BUTYL PHTHALATE (G489)				BDL	1(
516	97		METHAPYRILENE (Z9848)				BDL	20
549	211		CYCLOPHOSPHAMIDE (Z9849)				BDL	5(
431	202		FLUORANTHENE (G4910)				BDL	1(
459	240	I	D12-CHRYSENE (I805)	1193	472000	40.0		
404	184		BENZIDINE (G502)				BDL	10
445	202		PYRENE (G503)				BDL	10
530	185		ARAMITE (Z9850)			1.5	25 BDL	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
523	139		CHLOROBENZILATE (Z9852)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z98				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G504				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F50				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (G50				BDL	10
533	244		DIMETHOXYBENZIDINE (Z9857)				BDL	10
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	10
405	228		BENZO(A)ANTHRACENE (G506)				BDL	10
418	228		CHRYSENE (G508)				BDL	10
497	264	I	D12-PERYLENE (I806)	1438	373000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G602)				BDL	10
407	252		BENZO(B)FLUORANTHENE (G603)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (G604)				BDL	10
406	252		BENZO(A)PYRENE (G605)				BDL	10
565	268		3-METHYLCHLORANTHRENE (P602				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	1(
417	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	1(
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	1(
576	234		DIALLATE (CIS ISOMER)				BDL	1(
531	234		DIALLATE (TOTAL)				BDL	1(
CHECKSUM:								
10115.				3553	1489000.	121.5	2.	

CORRECTED/REVIEWED BY S. Rowell
(GC/MS DATA REVIEWER)

DATE 5-19-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-19-90

QUALITY ASSURANCE NOTICE

CompuChem # 337385

Client ID # 73800/04

Case 20124

Surrogate recoveries for the SV fraction of this sample fell outside quality control limit in both the original and repeated extractions. Results were comparable between the two analyses. Since all other QC criteria associated with these analyses were met, we have attributed the out-of-control surrogate recoveries to the particular sample matrix, rather than to deficiencies in the laboratory's analytical system.

Under some circumstances, depending on the client's requirements, both sets of data will be reported. When only one report is required, the analyst considers whether or not the reextraction was completed within holding time specification in deciding which set of data to report. If holding times were met for both extractions, the analysis that appears to be least affected by the sample matrix will be reported.

Reviewer's Initials/ID L. Hewell / 1712

Date 5-19-90

QAN35
080200

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800105

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337842

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037842A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/15/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	10	U
123-63-7	Paraldehyde	1	J
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	9	J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	100	U
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800105

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337842

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037842A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/15/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5	Methapyrilene	20	U
50-18-0	Cyclophosphamide	50	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	10	U
129-00-0	Pyrene	10	U
140-57-8	Aramite	20	U
60-11-7	p-Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
53-96-3	2-Acetylaminofluorene	10	U
101-14-4	Methylene-bis(2-chloroaniline	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
106-51-4	3,3'-Dimethoxybenzidine	10	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
57-97-6	7,12-Dimethylbenzanthracene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
56-49-5	3-Methylcholanthrene	10	U
224-42-0	Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

70800105

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337842

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037842A22

Level: (low/med) LOW Date Received: 05/09/90

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

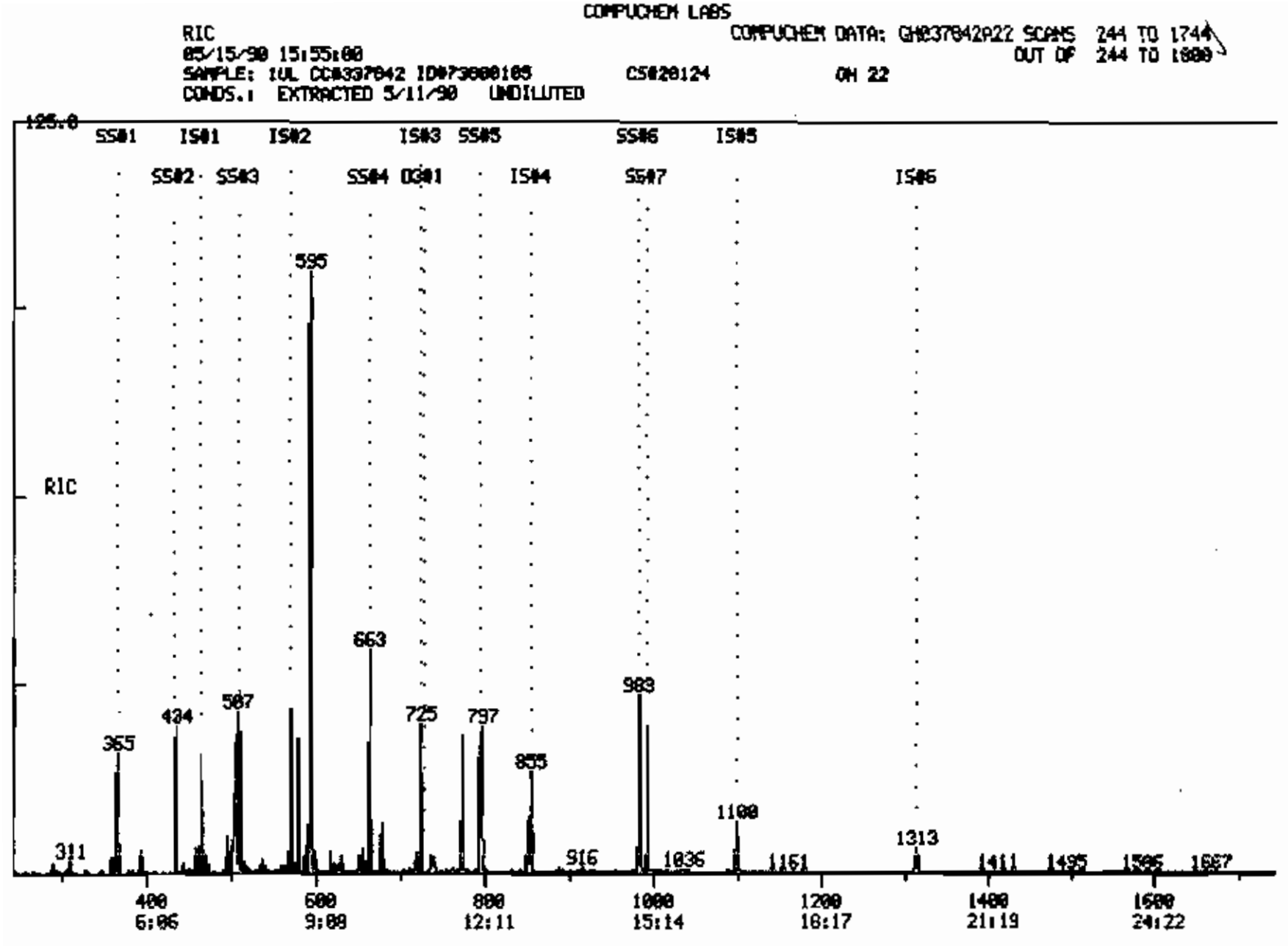
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/15/90

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

Number TICs found: 16

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		VOA TCL	5.38	9.0	J
2.		UNKNOWN	5.90	14	J
3.		UNKNOWN	6.87	8.0	J
4.	78-67-1	PROPANENITRILE, 2,2'-AZOBIS[	7.05	9.0	J
5.		UNKNOWN	7.60	170	J
6.	126-54-5	2,4,8,10-TETRAOXASPIRO[5.5]U	8.69	42	J
7.		UNKNOWN	8.82	8.0	J
8.	2873-97-4	2-PROPENAMIDE, N-(1,1-DIMETH	8.92	280	J
9.		UNKNOWN	9.00	8.0	J
10.		UNKNOWN	9.27	7.0	J
11.		UNKNOWN	9.45	12	J
12.	122-57-6	3-BUTEN-2-ONE, 4-PHENYL-	9.82	12	J
13.		UNKNOWN	10.17	16	J
14.	6265-30-1	4,7-METHANO-1H-ISOINDOLE-1,3	11.05	12	J
15.		UNKNOWN	11.62	37	J
16.		UNKNOWN	11.95	68	J


COMPUCHEM LABS
RIC
05/15/90 15:55:00
SAMPLE: 1UL CC#337842 ID#3000105
CONDS.: EXTRACTED 5/11/90 UNDILUTED
COMPUCHEM DATA: GH037842A22 SCANS 244 TO 1744
OUT OF 244 TO 1800
CS#20124
CH 22
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D#1
IS#4
SS#7
IS#6
RIC
595
663
983
434
507
725
797
365
855
1100
1313
311
916
1036
1161
1411
1495
1585
1667
400
6:06
600
9:09
800
12:11
1000
15:14
1200
18:17
1400
21:19
1600
24:22

COMPUCHEM LABS

COMPUCHEM DATA: CHB37842922 SCANS 1744 TO 1888
OUT OF 244 TO 1888

RIC
05/15/90 15:55:00
SAMPLE: 1UL CCM387842 IDX738888188
COND5.1 EXTRACTED 5-11-90 UNDILUTED

CS838124

ON 22

4388788.

1888
27125

SCAN
TIME

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT	
1	152	464	7:04	1	1.000	A BB	168992.	40.000	NG	4.44	
2	42	NOT FOUND									
3	79	NOT FOUND									
4	69	NOT FOUND									
5	89	295	4:30	1	0.636	A BB	1824.	1.441	NG	0.16	Y
6	93	NOT FOUND									
7	88	NOT FOUND									
8	80	NOT FOUND									
9	102	NOT FOUND									
10	109	NOT FOUND									
11	94	NOT FOUND									
12	93	NOT FOUND									
13	167	NOT FOUND									
14	93	NOT FOUND									
15	128	NOT FOUND									
16	146	NOT FOUND									
17	91	NOT FOUND									
18	146	NOT FOUND									
19	108	NOT FOUND									
20	146	NOT FOUND									
21	108	NOT FOUND									
22	45	NOT FOUND									
23	108	NOT FOUND									
24	108	NOT FOUND									
25	100	NOT FOUND									
26	116	NOT FOUND									
27	105	NOT FOUND									
28	70	NOT FOUND									
29	106	496	7:33	1	1.069	A BB	71884.	8.695	NG	0.97	Y
30	117	NOT FOUND									
31	136	571	8:42	31	1.000	A BB	963008.	40.000	NG	4.44	
32	77	NOT FOUND									
33	114	NOT FOUND									
34	82	NOT FOUND									
35	107	NOT FOUND									
36	139	NOT FOUND									
37	180	NOT FOUND									
38	125	NOT FOUND									
39	122	NOT FOUND									
40	93	NOT FOUND									
41	162	NOT FOUND									
42	180	NOT FOUND									
43	128	NOT FOUND									
44	127	NOT FOUND									
45	162	NOT FOUND									
46	108	571	8:42	31	1.000	A BB	73512.	52.447	NG	5.82	No
47	91	NOT FOUND									
48	213	NOT FOUND									
49	225	NOT FOUND									
50	180	NOT FOUND									
51	159	NOT FOUND									
52	84	NOT FOUND									
53	107	618	9:25	31	1.082	A BB	15472.	2.587	NG	0.29	No
54	108	618	9:25	31	1.082	A BB	1164.	2.542	NG	0.28	No
55	162	NOT FOUND									
56	108	NOT FOUND									

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	725	11:03	59	1.000	A BB	296004.	40.000	NQ	4.44
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	193	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	149	NOT FOUND								
83	149	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	773	11:48	59	1.069	A BB	3612.	1.266	NQ	0.14 ND
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	855	13:01	92	1.000	A BB	388272.	40.000	NQ	4.44
93	240	1100	16:45	93	1.000	A BB	229192.	40.000	NQ	4.44
94	264	1313	20:00	94	1.000	A BB	180200.	40.000	NQ	4.44
95	112	365	5:34	1	0.787	A BB	303324.	71.424	NQ	7.93
96	99	434	6:37	1	0.935	A BB	317016.	61.613	NQ	6.84
97	82	510	7:46	31	0.893	A BV	473544.	70.359	NQ	7.81
98	172	663	10:06	59	0.914	A BB	628700.	70.903	NQ	7.87
99	330	794	12:06	59	1.095	A BB	132060.	152.767	NQ	16.95
100	212	983	14:58	93	0.894	A BV	388673.	81.592	NQ	9.06
101	244	993	15:07	93	0.903	A BB	486156.	83.447	NQ	9.26

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:06	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:59		10.000			50.00		0.786	
3	4:00		10.000			50.00		1.761	
4	4:33		10.000			50.00		1.475	
5	4:32	0.99	10.000	0.06	1.44	50.00	0.009	0.300	0.03
6	4:54		20.000			50.00		1.810	
7	5:03		10.000			200.00		0.426	
8	5:23		10.000			50.00		1.054	
9	5:52		10.000			50.00		0.670	

NYDEC RA090 0507 ORGANIC

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:11		10.000			50.00		0.900	
11	6:39		10.000			50.00		2.249	
12	6:44		10.000			50.00		2.961	
13	6:46		10.000			50.00		0.500	
14	6:46		20.000			50.00		2.097	
15	6:52		10.000			50.00		1.806	
16	7:03		10.000			50.00		1.780	
17	7:07		10.000			50.00		3.143	
18	7:07		10.000			50.00		1.693	
19	7:15		10.000			50.00		1.034	
20	7:21		10.000			50.00		1.704	
21	7:24		10.000			50.00		1.564	
22	7:27		10.000			50.00		1.942	
23	7:34		10.000			100.00		1.520	
24	7:34		10.000			100.00		1.520	
25	7:36		10.000			50.00		0.853	
26	7:36		10.000			50.00		0.449	
27	7:37		10.000			50.00		2.187	
28	7:39		10.000			50.00		1.341	
29	7:40	0.99	10.000	0.11	8.70	50.00	0.340	1.957	0.17
30	7:46		10.000			50.00		0.898	
31	8:45	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:51		10.000			50.00		0.506	
33	8:02		10.000			50.00		0.227	
34	8:08		10.000			50.00		0.989	
35	8:15		10.000			50.00		0.476	
36	8:15		10.000			50.00		0.238	
37	8:16		10.000			50.00		0.302	
38	8:18		10.000			50.00		0.692	
39	8:22		100.000			50.00		0.229	
40	8:23		10.000			50.00		0.514	
41	8:33		10.000			50.00		0.302	
42	8:41		10.000			50.00		0.321	
43	8:46		10.000			50.00		1.225	
44	8:49		10.000			50.00		0.675	
45	8:51		20.000			50.00		0.313	
46	8:45	0.99	10.000	0.10	52.45	50.00	0.104	0.100	1.05
47	9:00		10.000			50.00		0.086	
48	8:55		10.000			50.00		0.154	
49	8:59		10.000			50.00		0.139	
50	9:00		10.000			50.00		0.279	
51	9:05		20.000			50.00		0.400	
52	9:17		10.000			50.00		0.175	
53	9:26	1.00	10.000	0.11	2.59	50.00	0.022	0.425	0.05
54	9:26	1.00	10.000	0.11	2.54	50.00	0.002	0.033	0.05
55	9:32		10.000			50.00		0.270	
56	9:32		10.000			50.00		0.002	
57	9:41		10.000			50.00		1.001	
58	9:49		10.000			50.00		0.536	
59	11:06	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:57		10.000			100.00		0.442	
61	9:57		10.000			100.00		0.442	
62	9:59		10.000			50.00		0.217	
63	10:04		20.000			50.00		0.360	
64	10:07		20.000			50.00		0.349	
65	10:13		20.000			50.00		0.488	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:20		10.000			50.00		1.326	
67	10:23		10.000			50.00		1.121	
68	10:20		10.000			50.00		0.442	
69	10:28		10.000			50.00		0.499	
70	10:33		20.000			50.00		0.463	
71	10:36		20.000			50.00		0.258	
72	10:42		10.000			50.00		1.413	
73	10:49		10.000			50.00		0.334	
74	10:54		10.000			50.00		1.851	
75	11:01		20.000			50.00		0.392	
76	11:09		10.000			50.00		1.172	
77	11:09		40.000			50.00		0.142	
78	11:12		10.000			50.00		0.220	
79	11:21		10.000			50.00		0.434	
80	11:22		10.000			50.00		1.577	
81	11:24		10.000			50.00		0.365	
82	11:28		20.000			50.00		0.860	
83	11:34		20.000			50.00		0.925	
84	11:34		20.000			50.00		0.199	
85	11:39		10.000			50.00		1.536	
86	11:46		10.000			50.00		0.361	
87	11:47		10.000			50.00		0.475	
88	11:50		10.000			50.00		1.243	
89	11:51	1.00	20.000	0.05	1.27	50.00	0.010	0.386	0.03
90	11:50		20.000			50.00		0.424	
91	12:00		10.000			50.00		2.171	
92	13:06	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:51	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	20:13	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:35	0.99	0.742	1.06	71.42	50.00	2.392	1.675	1.43
96	6:38	1.00	0.948	0.99	61.61	50.00	2.448	1.986	1.23
97	7:49	0.99	0.875	1.02	70.36	50.00	0.673	0.478	1.41
98	10:10	0.99	0.906	1.01	70.91	50.00	1.699	1.198	1.42
99	12:10	0.99	1.118	0.98	152.77	50.00	0.357	0.117	3.06
100	15:02	1.00	10.000	0.09	81.99	50.00	2.055	1.259	1.63
101	15:11	1.00	0.907	1.00	83.45	50.00	1.697	1.017	1.67

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QUANTITATION REPORT    FILE: GH037842A22
DATA: GH037842A22.TI
05/15/90 15:55:00
SAMPLE: 1UL CC#337842 ID#73800105          CS#20124              ON 22
CONDS. :  EXTRACTED 5/11/90   UNDILUTED
SUBMITTED BY:      22        ANALYST:       740

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO  NAME
  1  *467 D10-PHENANTHRENE (I8#4)
  2  604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
  3  443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
  4  567 DIPHENYLAMINE (F3#3)
  5  508 1,3,5-TRINITROBENZENE (Z9#41)
  6  539 PHENACETIN (Z9#42) <63-44-2>
  7  414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
  8  577 DIALLATE (TRANS ISOMER)
  9  541 DIMETHOATE (Z9#44)
 10  433 HEXACHLOROBENZENE (G4#5) <118-74-1>
 11  485 4-AMINOBIPHENYL (Z9#45)
 12  522 PRONAMIDE (Z9#46)
 13  609 PENTACHLOROPHENOL (G4#6) <87-86-5>
 14  453 PENTACHLORONITROBENZENE (Z9#47)
 15  444 PHENANTHRENE (G4#7) <85-01-8>
 16  403 ANTHRACENE (G4#8) <120-12-7>
 17  426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
 18  516 METHAPYRILENE (Z9#48)
 19  549 CYCLOPHOSPHAMIDE (Z9#49)
 20  431 FLUORANTHENE (G4#10) <206-44-0>
 21  *459 D12-CHRYSENE (I8#5)
 22  404 BENZIDINE (G5#2) <92-87-5>
 23  445 PYRENE (G5#3) <129-00-0>
 24  530 ARAMITE (Z9#50) <140-57-4>
 25  487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26  523 CHLOROBENZILATE (Z9#52)
 27  545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28  415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
 29  488 2-ACETYLAMINO FLUORENE (F5#2)
 30  489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31  423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
 32  533 DIMETHOXYBENZIDINE (Z9#57)
 33  413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
 34  405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
 35  418 CHRYSENE (G5#8) <218-01-9>
 36  *497 D10-PERYLENE (I8#6)
 37  429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
 38  407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
 39  517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40  409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
 41  406 BENZO(A)PYRENE (G6#5) <50-32-8>
 42  565 3-METHYLCHLORANTHRENE (F6#2)
 43  566 DIBENZO(A,J)ACRIDINE
 44  437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
 45  419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
 46  408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
```

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RAT	METH	AREA(HGHT)	AMOUNT		%TDT
1	188	855	13:01	1	1.000	A BB	388272.	40.000	NQ	32.31
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1100	16:45	21	1.000	A BB	229192.	40.000	NQ	32.31
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	983	14:58	21	0.894	A BB	784.	3.817	NQ	3.08 NO
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1313	20:00	36	1.000	A BB	180200.	40.000	NQ	32.31
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	13:06	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:55		30.000			30.00		0.143	
3	11:56		10.000			100.00		0.693	
4	11:56		10.000			100.00		0.693	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
5	12:17		20.000			50.00		0.090	
6	12:21		10.000			50.00		0.525	
7	12:27		10.000			50.00		0.182	
8	12:21		10.000			25.00		0.114	
9	12:37		10.000	-		50.00		0.156	
10	12:41		10.000			50.00		0.227	
11	12:48		10.000			50.00		0.731	
12	12:52		10.000			50.00		0.379	
13	12:54		20.000			50.00		0.130	
14	13:00		10.000			50.00		0.073	
15	13:08		10.000			50.00		1.244	
16	13:11		10.000			50.00		1.219	
17	13:48		10.000			50.00		1.798	
18	14:15		20.000			50.00		0.448	
19	14:32		50.000			200.00		0.025	
20	14:45		10.000			50.00		1.086	
21	16:51	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:51		10.000			50.00		0.138	
23	15:04		10.000			50.00		1.572	
24	15:03	0.99	20.000	0.04	3.82	50.00	0.003	0.036	0.08
25	15:23		10.000			50.00		0.259	
26	15:26		10.000			50.00		0.923	
27	15:49		20.000			50.00		0.444	
28	15:49		10.000			50.00		1.131	
29	16:15		10.000			50.00		0.572	
30	16:40		10.000			50.00		0.175	
31	16:42		10.000			50.00		0.256	
32	16:38		10.000			50.00		0.164	
33	16:42		10.000			50.00		1.464	
34	16:49		10.000			50.00		1.113	
35	16:54		10.000			50.00		1.072	
36	20:13	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:52		10.000			50.00		2.991	
38	19:10		10.000			100.00		0.947	
39	19:10		10.000			50.00		0.506	
40	19:10		10.000			100.00		0.947	
41	20:03		10.000			50.00		1.167	
42	21:11		10.000			50.00		0.642	
43	23:15		10.000			50.00		0.948	
44	24:07		10.000			50.00		1.317	
45	24:07		10.000			50.00		1.094	
46	25:16		10.000			50.00		1.061	
47	12:28		10.000			25.00		0.149	

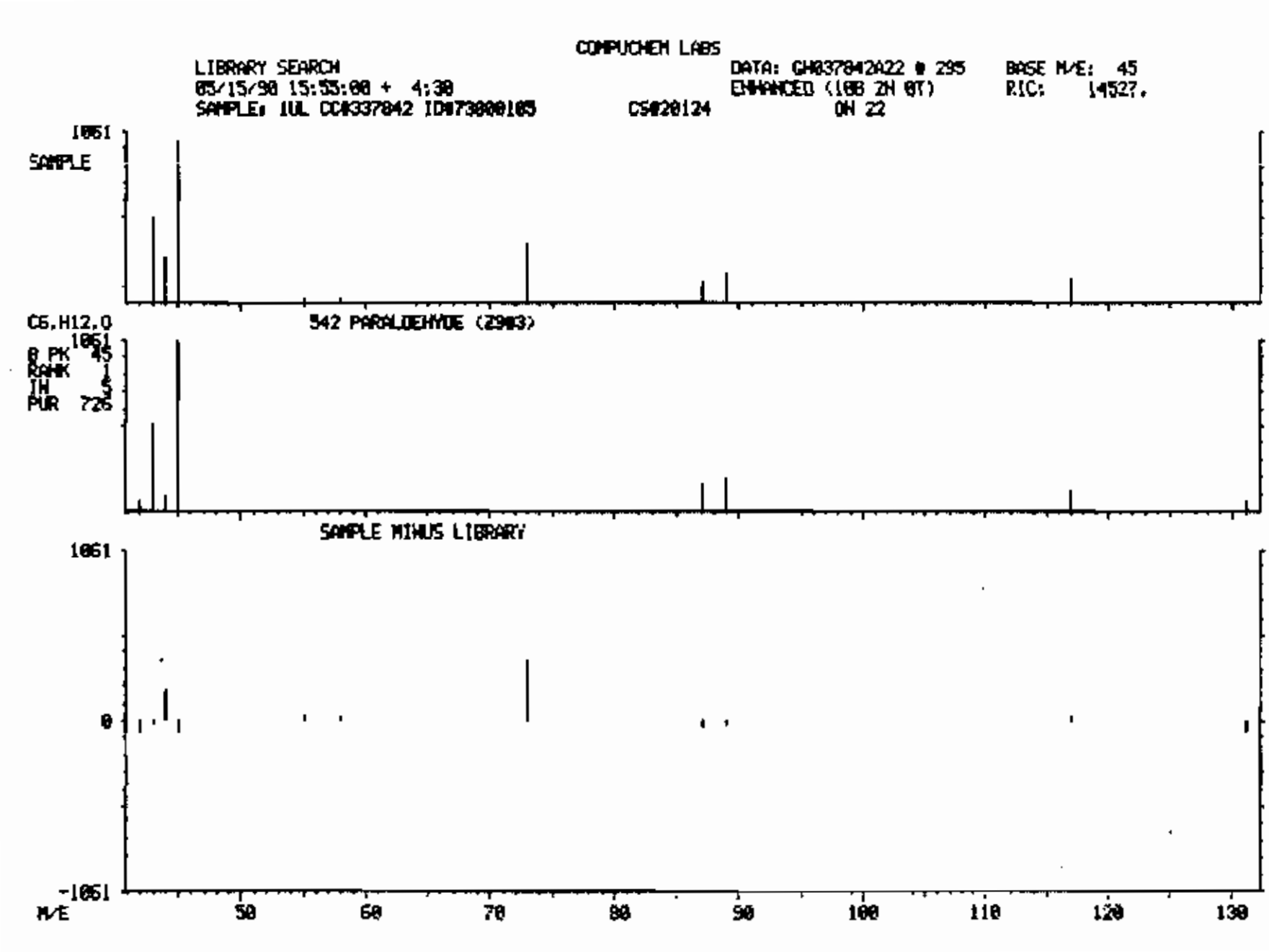
QUANTITATION REPORT FILE: GH037842A22
DATA: GH037842A22.TI
05/15/90 15:55:00
SAMPLE: 1UL CC#037842 ID#73800105 CS#20124 ON 22
CONDS.: EXTRACTED 5/11/90 UNDILUTED
SUBMITTED BY: 22 ANALYST: 740

AMOUNT=AREA * REF.AMNT/(REF.AREA)* REEP.FACT)
REEP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (I8#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (I8#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSOPIPERIDINE
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	475 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	490 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D10-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

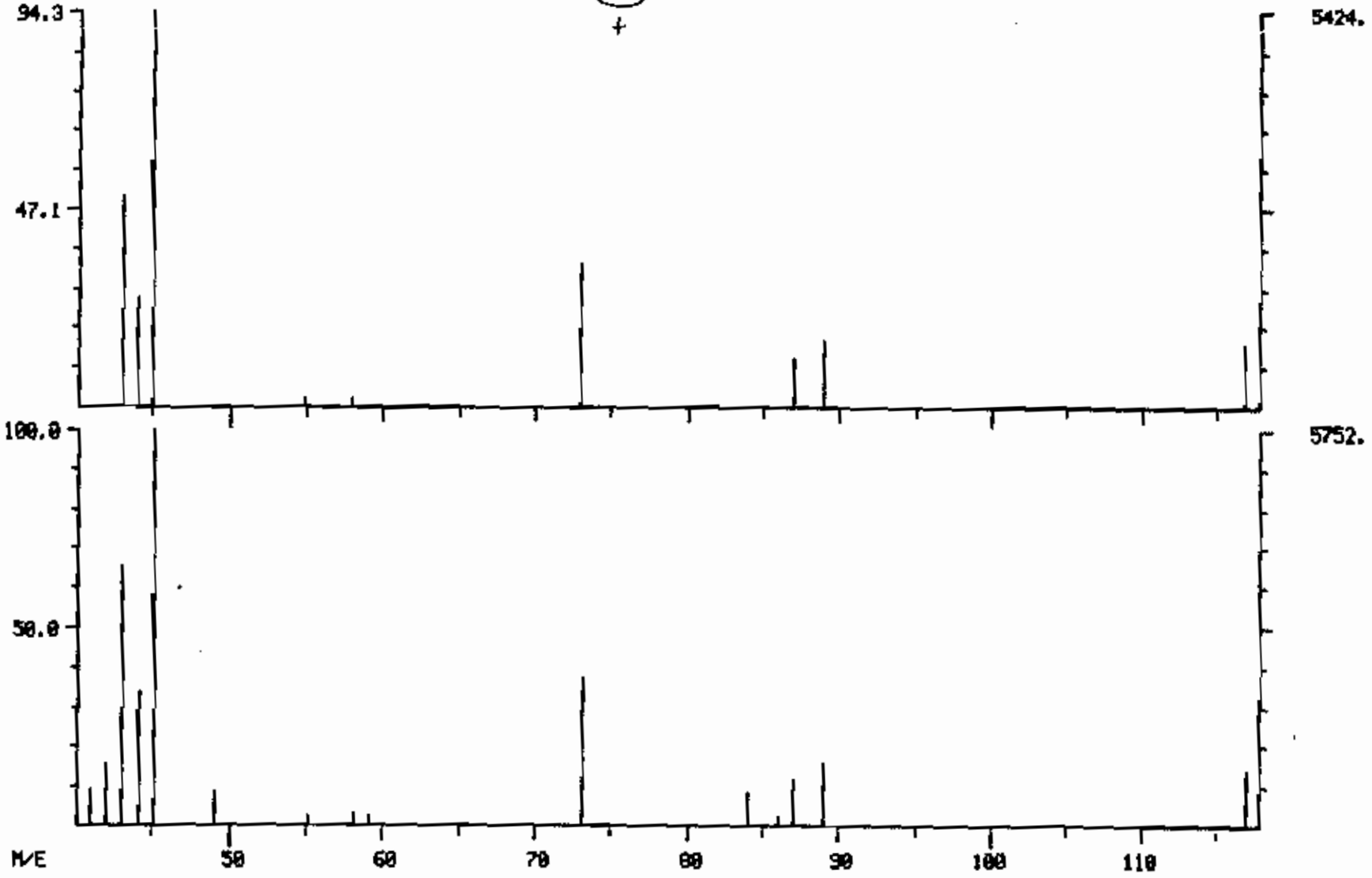
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT



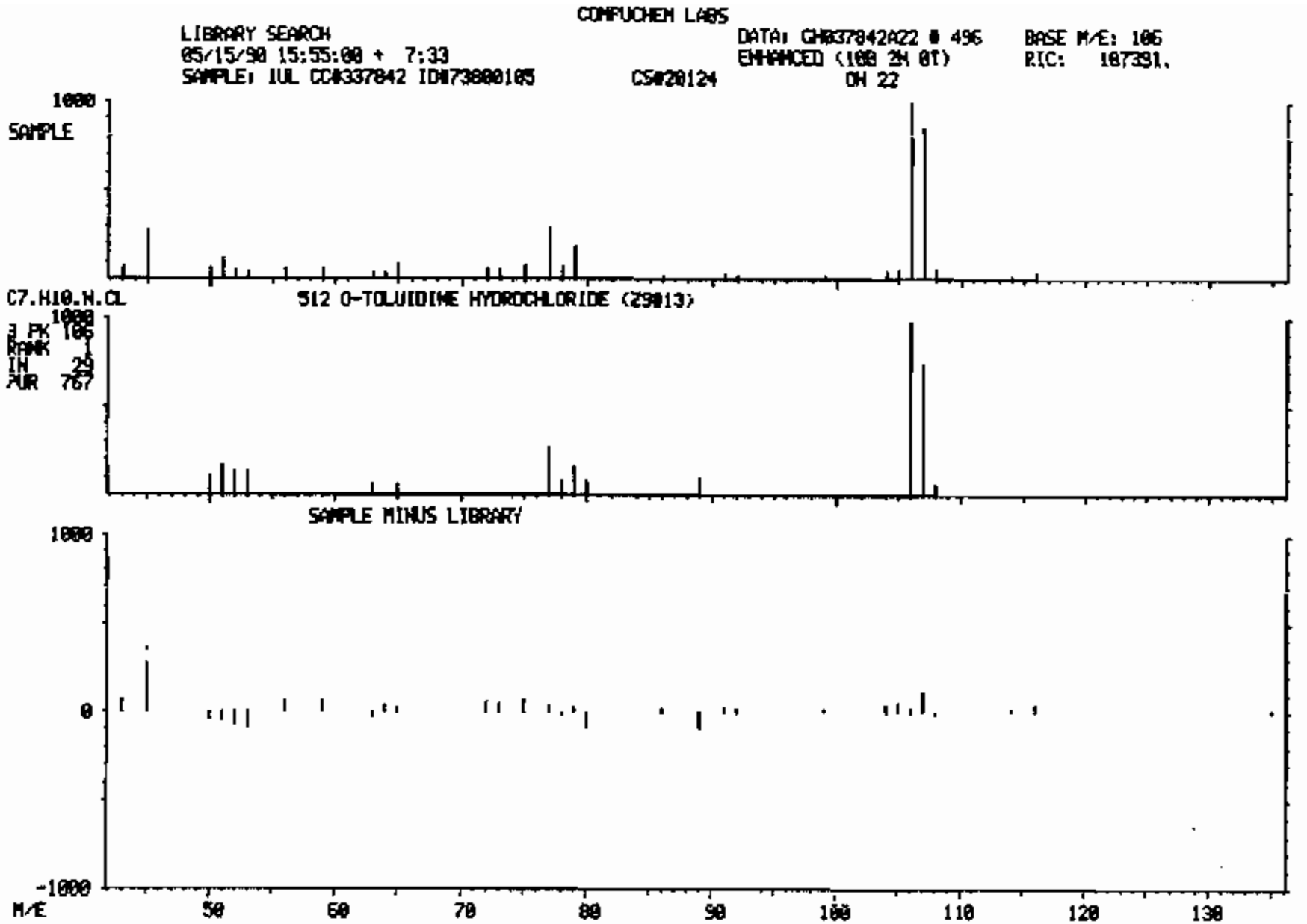
COMPUCHEM LABS

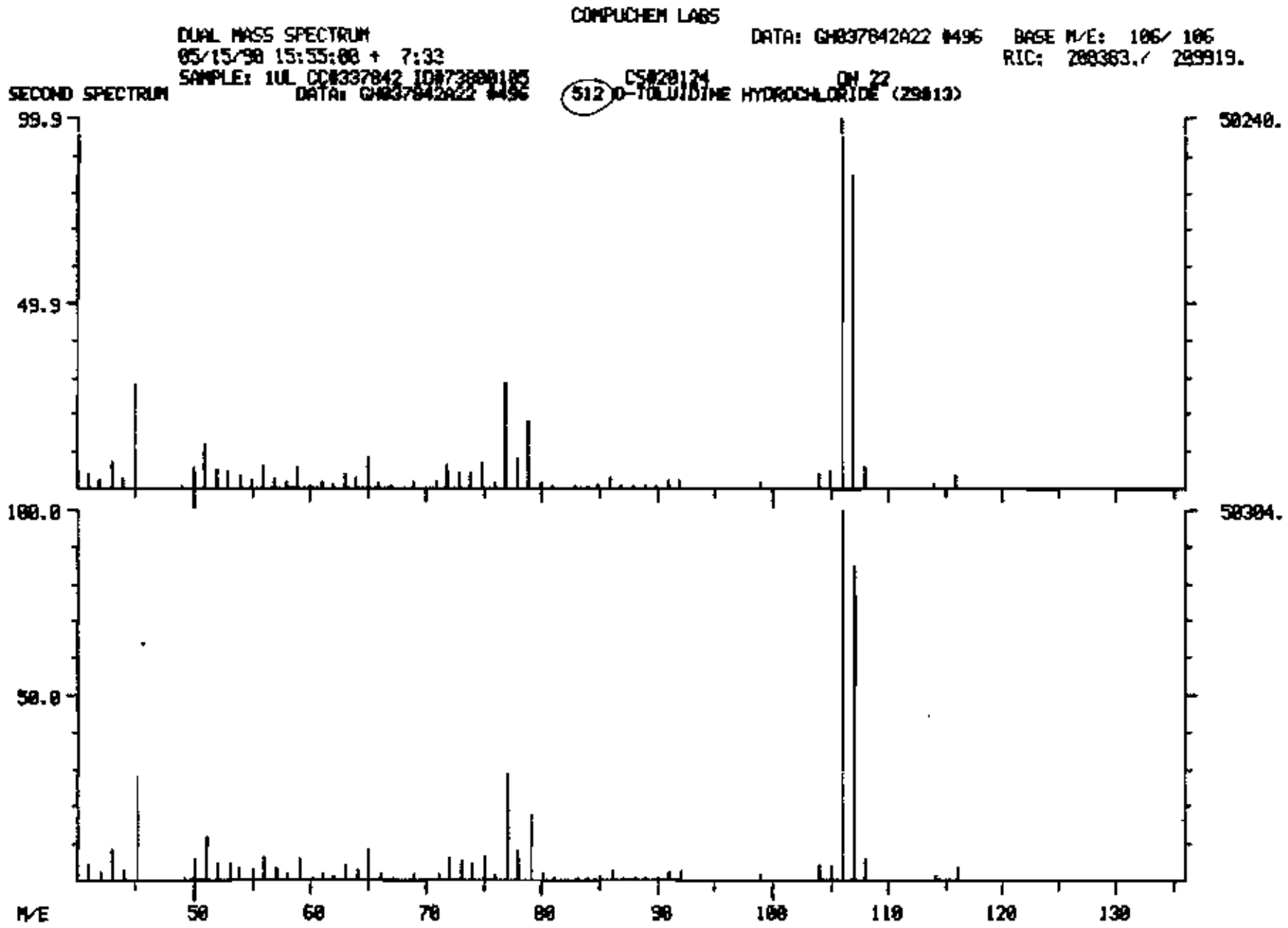
DUAL MASS SPECTRUM
05/13/90 15:55:00 + 4:30
SAMPLE: 1UL CC#337842 ID#230000105 CS020124 OH 22
DATA: GH037842A22 #295 BASE M/E: 45/ 45
RIC: 14527./ 19039.

SECOND SPECTRUM
DATA: GH037842A22 #295
542 PARALDEHYDE (2983)



NYDEC RA090 0507 ORGANIC


COMPUCHEM LABS
LIBRARY SEARCH
05/15/90 15:55:00 + 7:33
SAMPLE: IUL CC#337842 ID#73000105
DATA: GH837842A22 # 496
ENHANCED (100 2N 0T)
CS#20124
BASE M/E: 105
RIC: 107391.
ON 22
1000
SAMPLE
C7.H10.N.CL
512 O-TOLUIDINE HYDROCHLORIDE (29013)
1000
J PK 105
RANK 1
IN 29
AUR 767
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
60
70
80
90
100
110
120
130



964

NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

05/15/90 15:55:00 + 5:28
SAMPLE: IUL CC#337842 ID#73800105 CS#20124
CONDS.: , EXTRACTED 5/11/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GH0337842A22 # 359 BASE M/2: 91
ENHANCED (100 2N 0T) RIC: 91263.
ON 22

1000

SAMPLE

C8.H10 BENZENE, ETHYL- # CAS# 100-41-4

1000

M WT 106
B PK 91
RANK 1
1725
PUR 948

C8.H10 BENZENE, 1,2-DIMETHYL- # CAS# 95-47-6

1000

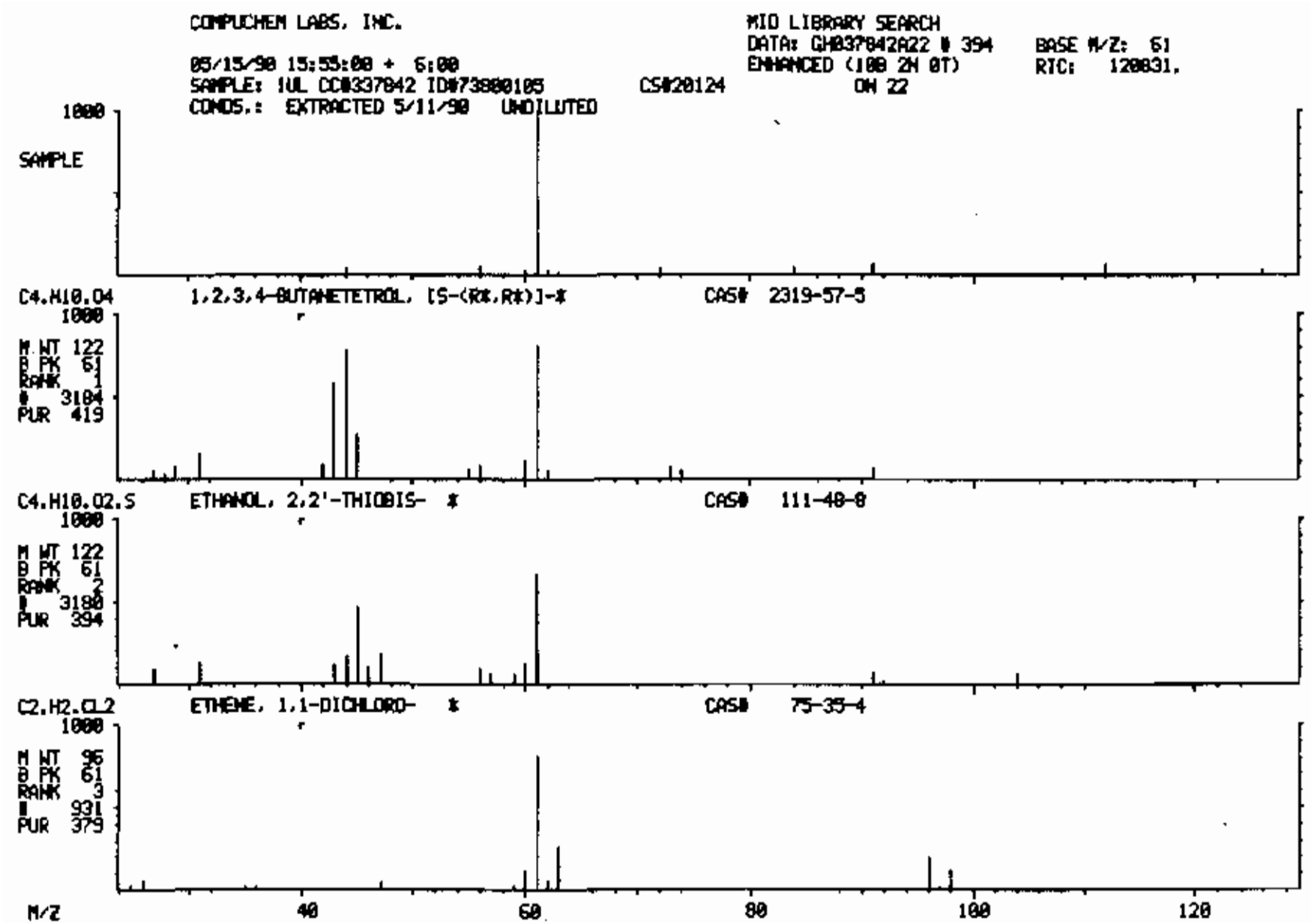
M WT 106
B PK 91
RANK 2
1724
PUR 986

C8.H10 BENZENE, 1,4-DIMETHYL- # CAS# 106-42-3

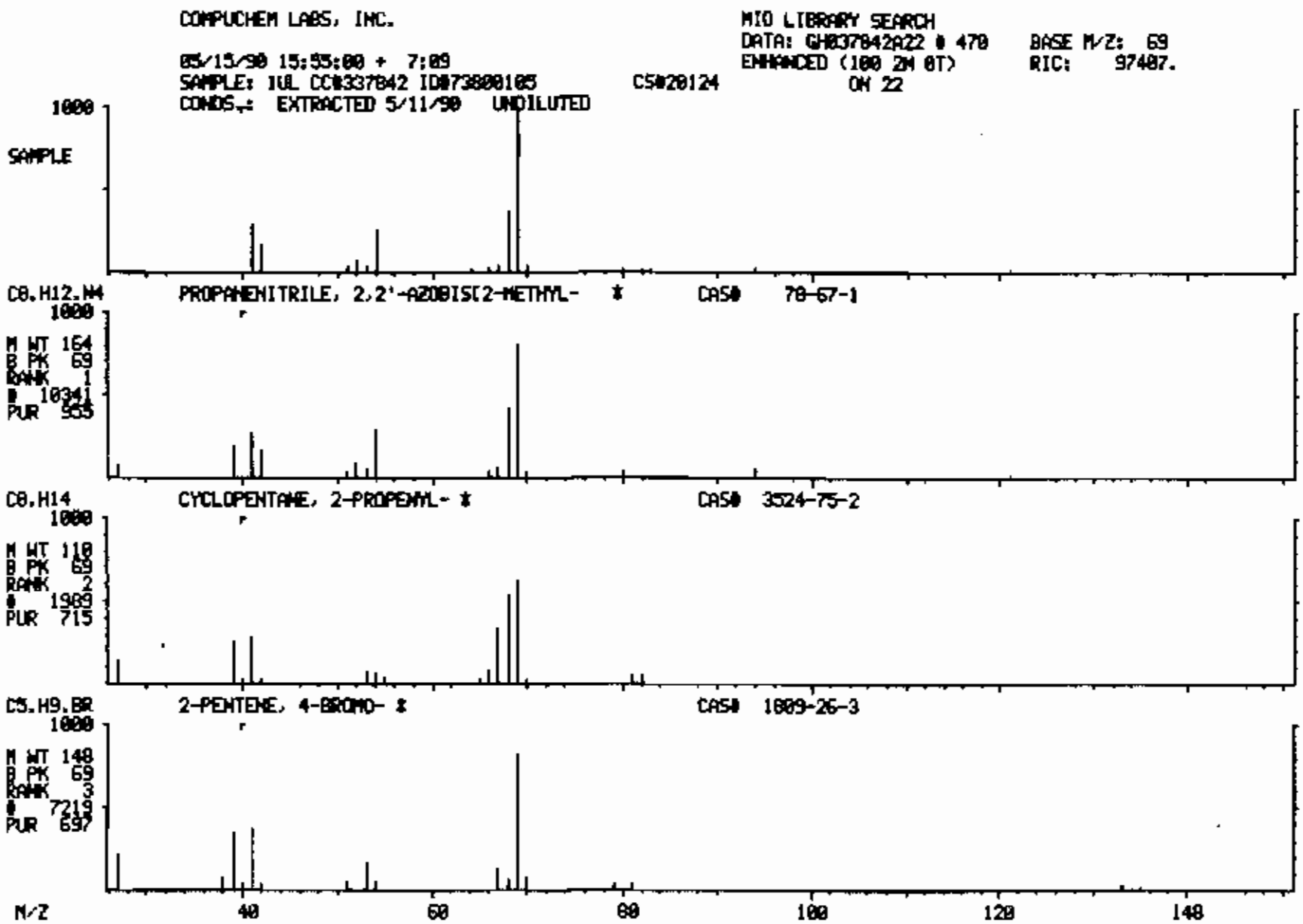
1000

M WT 106
B PK 91
RANK 3
1726
PUR 876

M/Z 40 60 80 100 120

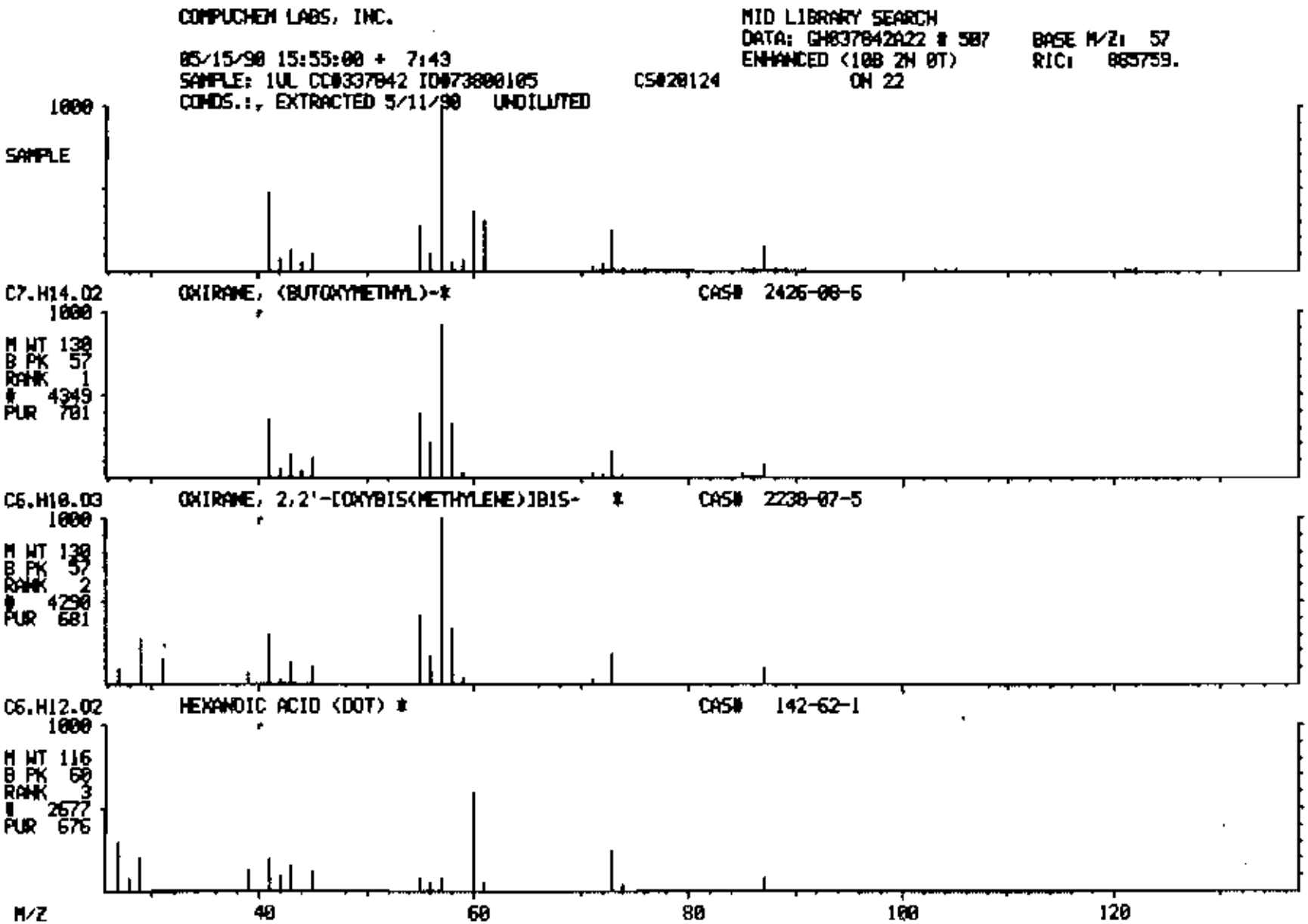

COMPUCHEM LABS, INC.
05/15/90 15:55:00 + 6:00
SAMPLE: 1UL CC#337842 ID#73000105
CONDS.: EXTRACTED 5/11/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GH037842A22 # 394
ENHANCED (100 2N 0T)
ON Z2
BASE M/Z: 61
RIC: 120831.
1000
SAMPLE
C4.H10.04
1,2,3,4-BUTANETETROL, [S-(R*,R*)]-*
CAS# 2319-57-5
M WT 122
B PK 61
RANK 1
3104
PUR 419
C4.H10.02.S
ETHANOL, 2,2'-THIOBIS- *
CAS# 111-48-8
M WT 122
B PK 61
RANK 2
3188
PUR 394
C2.H2.CL2
ETHENE, 1,1-DICHLORO- *
CAS# 75-35-4
M WT 96
B PK 61
RANK 3
931
PUR 379
M/Z
40
60
80
100
120

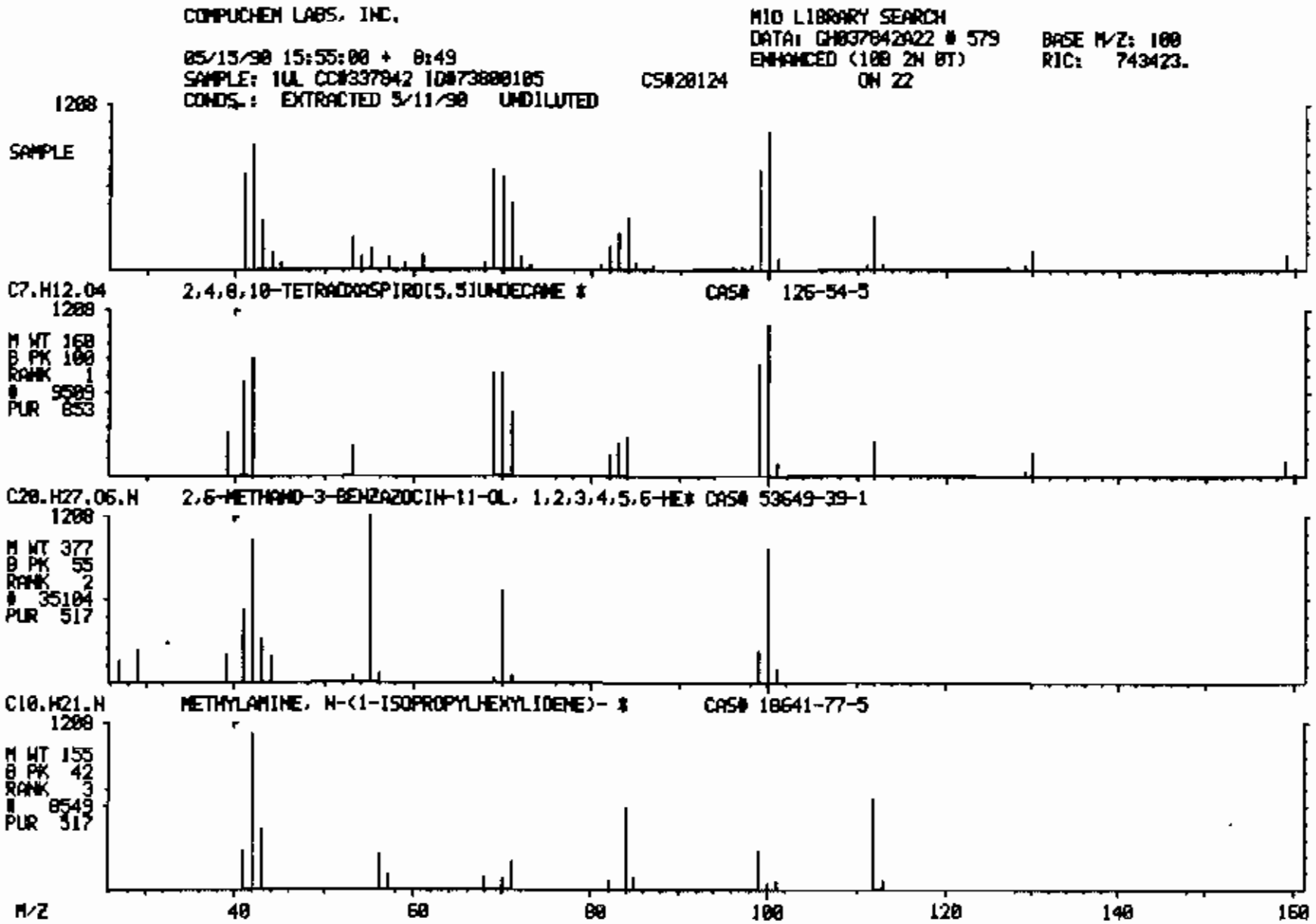
COMPUCHEM LABS, INC.
NIO LIBRARY SEARCH
05/15/90 15:55:00 + 6:59
DATA: GH0378420Z2 # 458
BASE M/Z: 45
SAMPLE: 1UL CC#337842 ID#7380010S
ENHANCED (100 2N 0T)
RIC: 143359.
CONDS.: EXTRACTED 5/11/90 UNDILUTED
CS#20124
ON 22
SAMPLE
1110
C8.H18.0
1110
3-HEPTANOL, 3-METHYL- #
CAS# 5582-82-1
M WT 130
B PK 73
BRK 41
PUR 4420 665
C9.H20.0
1110
3-HEPTANOL, 2,4-DIMETHYL- #
CAS# 19549-72-5
M WT 144
B PK 73
BRK 57
PUR 6629 664
C8.H18.0
1110
3-HEXANOL, 3,5-DIMETHYL-#
CAS# 4209-91-0
M WT 130
B PK 73
BRK 43
PUR 4418 604
M/Z
40
60
80
100
120

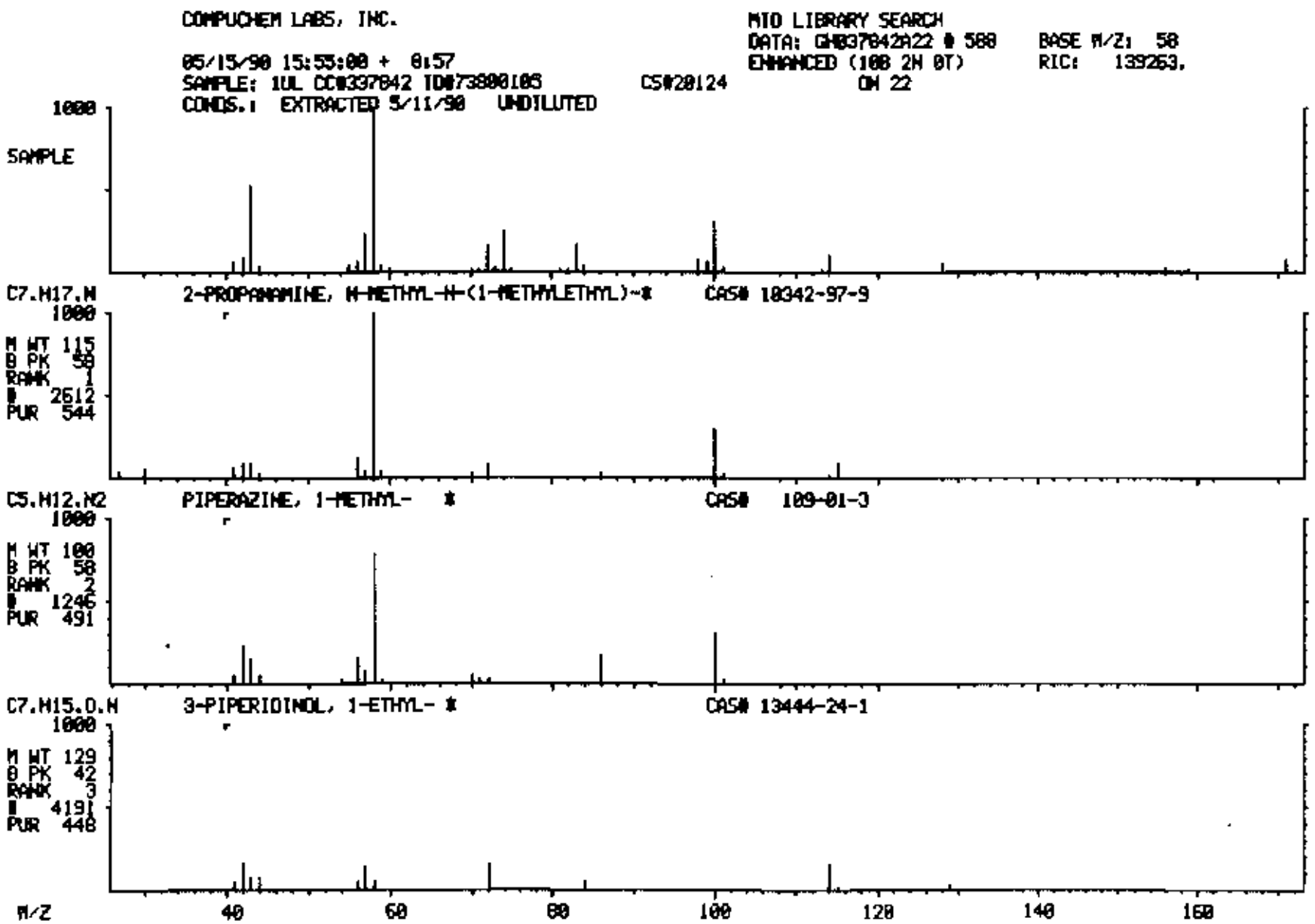


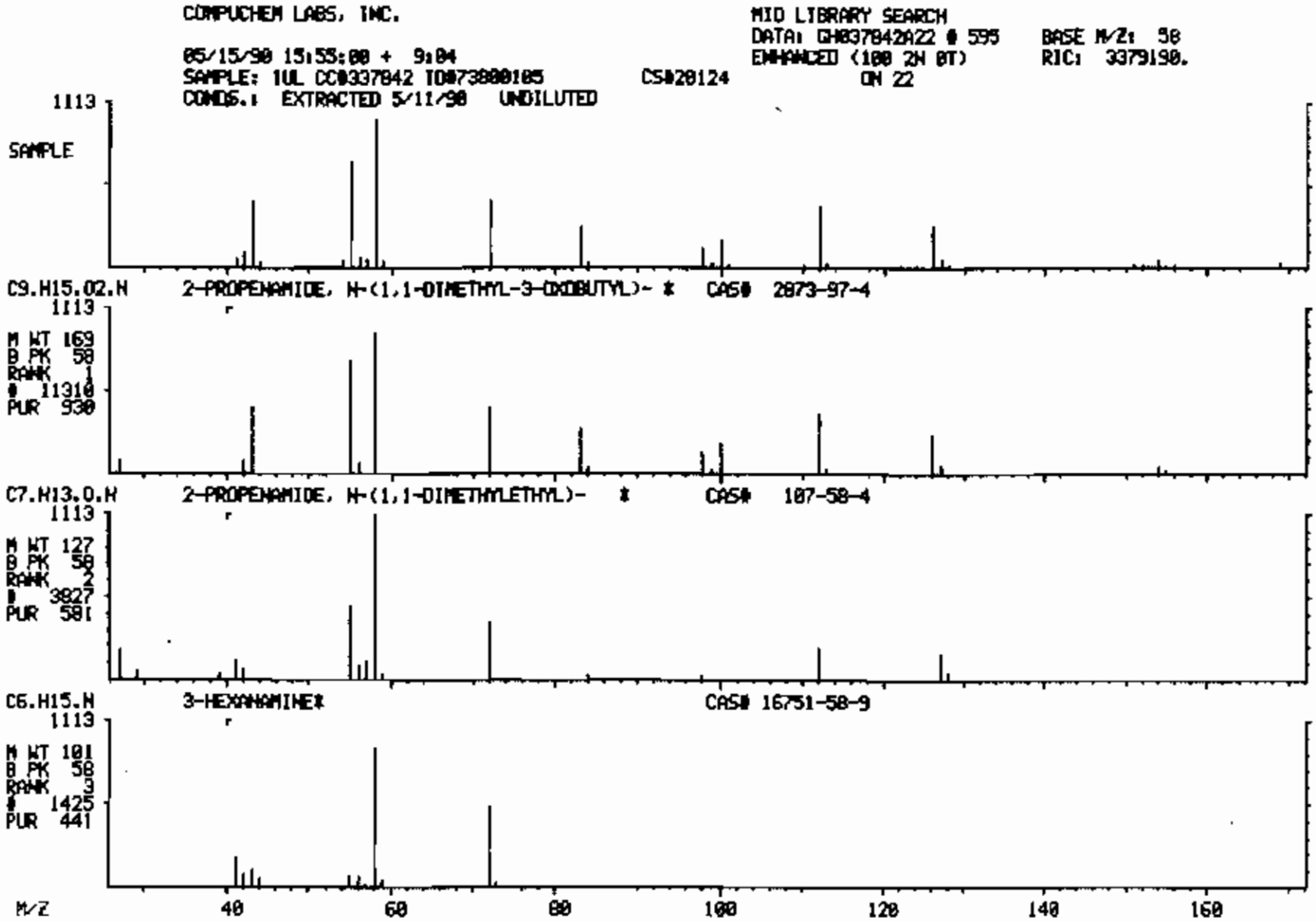
960

NYDEC RA090 0507 ORGANIC

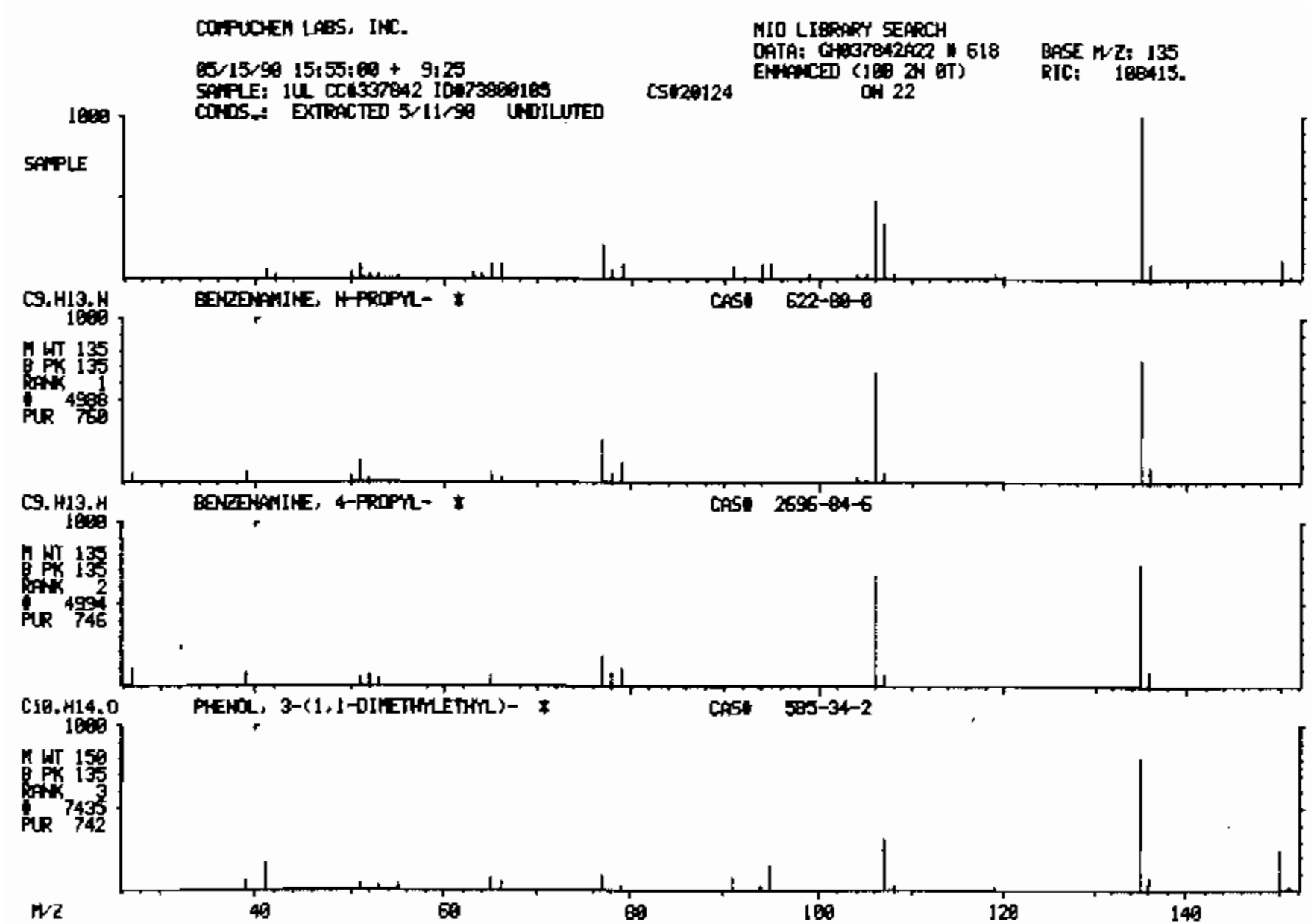

COMPUCHEM LABS, INC.
05/15/90 15:55:00 + 7:43
SAMPLE: 1UL CC#337842 ID#73000105 CS#20124
COMDS.:, EXTRACTED 5/11/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GH#37842A22 # 587 BASE M/Z: 57
ENHANCED (10B 2N 0T) RIC: 885759.
ON 22
1000
SAMPLE
C7.H14.02 OXIRANE, (BUTOXYMETHYL)-* CAS# 2426-08-6
M WT 130
B PK 57
RANK 1
4349
PUR 701
C6.H10.03 OXIRANE, 2,2'-[OXYBIS(METHYLENE)]BIS- * CAS# 2238-07-5
M WT 130
B PK 57
RANK 2
4290
PUR 681
C6.H12.02 HEXANOIC ACID (DOT) * CAS# 142-62-1
M WT 116
B PK 60
RANK 3
2677
PUR 676
M/Z
40
60
80
100
120


COMPUCHEM LABS, INC.
05/15/90 15:55:00 + 0:49
SAMPLE: 1UL CC#337842 ID#73000105
CONDS.: EXTRACTED 5/11/90 UNDILUTED
CS#20124
M10 LIBRARY SEARCH
DATA: GH037842A22 # 579
ENHANCED (100 2N 0T)
ON Z2
BASE M/Z: 100
RIC: 743423.
1200
SAMPLE
C7.H12.04
2,4,8,10-TETRAOXASPIRO[5.5]UNDECANE #
CAS# 126-54-5
M WT 160
B PK 100
RANK 1
9508
PUR 853
C20.H27.O6.N
2,6-METHANO-3-BENZAZOCIN-11-OL, 1,2,3,4,5,6-HE# CAS# 53649-39-1
M WT 377
B PK 55
RANK 2
35104
PUR 517
C10.H21.N
METHYLAMINE, N-(1-ISOPROPYLHEXYLIDENE)- #
CAS# 18641-77-5
M WT 155
B PK 42
RANK 3
8549
PUR 317
M/Z
40
60
80
100
120
140
160

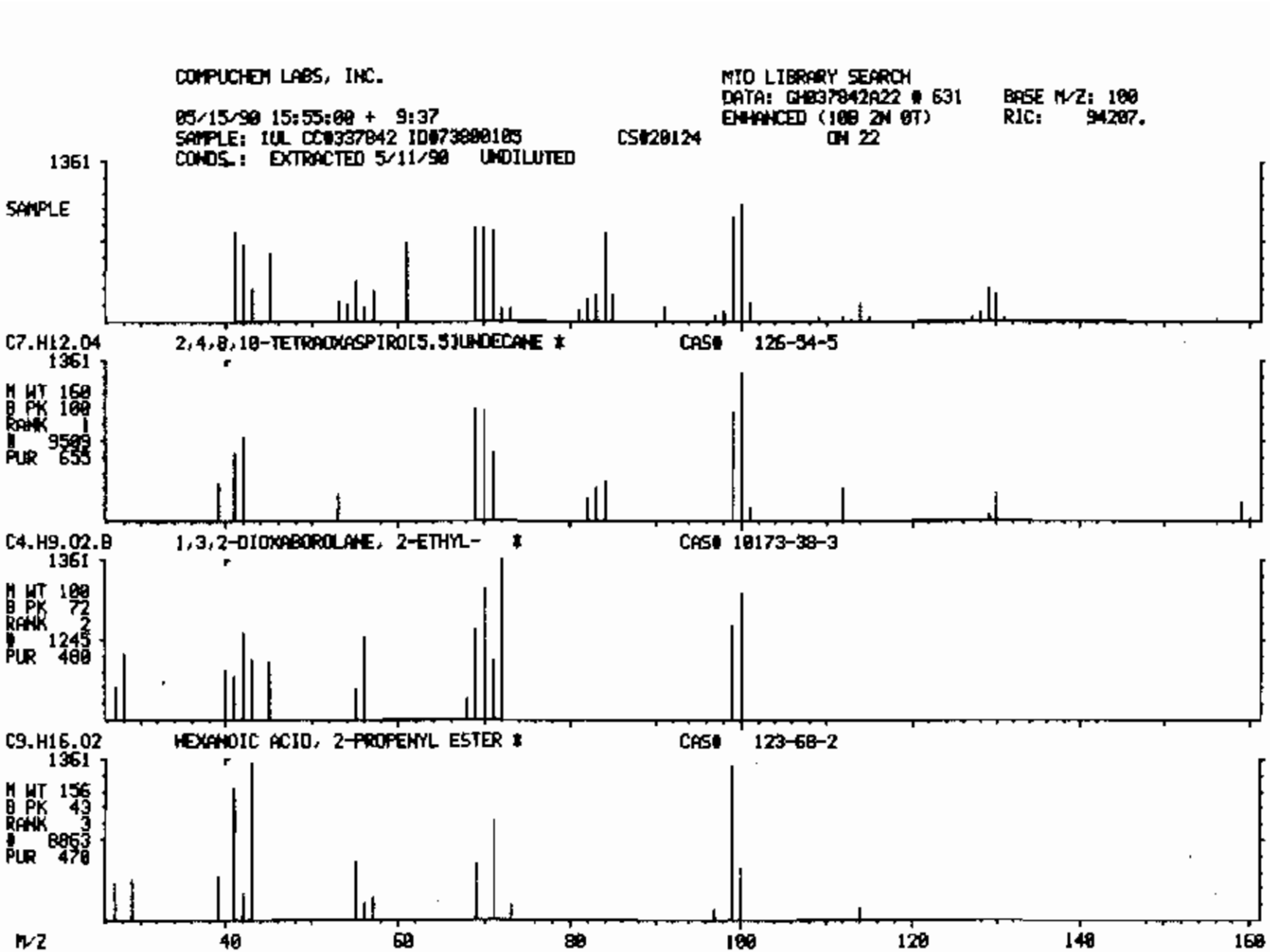

COMPUCHEM LABS, INC.
05/15/90 15:55:00 + 0:57
SAMPLE: 1UL CC#337842 ID#73000105
CONDS.: EXTRACTED 5/11/90 UNDILUTED
CS#20124
NIO LIBRARY SEARCH
DATA: GH#37842A22 # 588
ENHANCED (100 2H 0T)
BASE M/Z: 58
RIC: 139263.
DH 22
SAMPLE
C7.H17.N
2-PROPANAMINE, N-METHYL-N-(1-METHYLETHYL)-*
CAS# 10342-97-9
M WT 115
B PK 58
RANK 1
2612
PUR 544
C5.H12.N2
PIPERAZINE, 1-METHYL- *
CAS# 109-01-3
M WT 100
B PK 58
RANK 2
1246
PUR 491
C7.H15.O.N
3-PIPERIDINOL, 1-ETHYL- *
CAS# 13444-24-1
M WT 129
B PK 42
RANK 3
419
PUR 448
M/Z
40
60
80
100
120
140
160


COMPUCHEM LABS, INC.
05/15/90 15:55:00 + 9:04
SAMPLE: 1UL CC#337842 ID#73000105
COMD6.1 EXTRACTED 5/11/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GH#37842A22 # 595
ENHANCED (100 2N 0T)
ON 22
BASE M/Z: 58
RIC: 3379190.
1113
SAMPLE
C9.H15.02.N 2-PROPENAMIDE, N-(1,1-DIMETHYL-3-OXOBUTYL)- * CAS# 2873-97-4
M WT 169
B.PK 58
RANK 1
11310
PUR 930
C7.H13.O.N 2-PROPENAMIDE, N-(1,1-DIMETHYLETHYL)- * CAS# 107-58-4
M WT 127
B.PK 58
RANK 2
3827
PUR 581
C6.H15.N 3-HEXANAMINE* CAS# 16751-58-9
M WT 101
B.PK 58
RANK 3
1425
PUR 441
M/Z
40
60
80
100
120
140
160

CORPUCHEM LABS, INC.
05/15/90 15:55:00 + 9:00
SAMPLE: 1UL CCM337842 ID#7300105
CONDS.: EXTRACTED 5/11/90 UNDILUTED
MID LIBRARY SEARCH
DATA: CM337842A22 # 500
ENHANCED (100 2W 0T)
CSM20124
ON 22
BASE M/Z: 84
RIC: 107391.
SAMPLE
1167
C6.H12
1167
2-PENTENE, 4-METHYL-, (Z)-#
CAS# 691-38-3
M HT 84
B PK 69
RANK 1
PUR 536
754
C6.H12
1167
CYCLOHEXANE(DOT #
CAS# 110-82-7
M HT 84
B PK 84
RANK 2
526
PUR 687
C8.H14.0
1167
CYCLOBUTANONE, 2,2,3,3-TETRAMETHYL- #
CAS# 4070-14-8
M HT 126
B PK 69
RANK 3
3598
PUR 678
M/Z
40
60
80
100
120
140



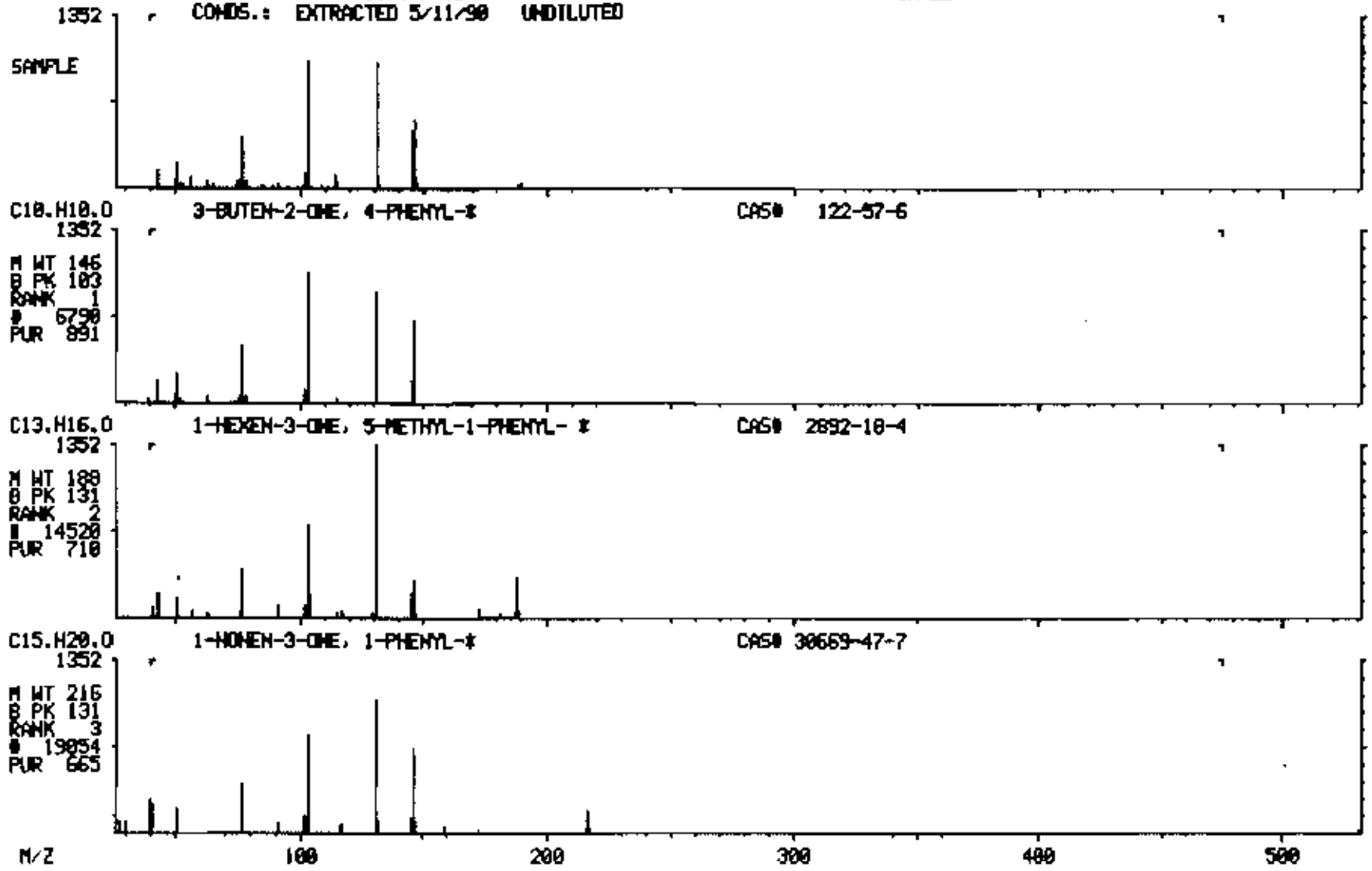
NYDEC RA090 0507 ORGANIC

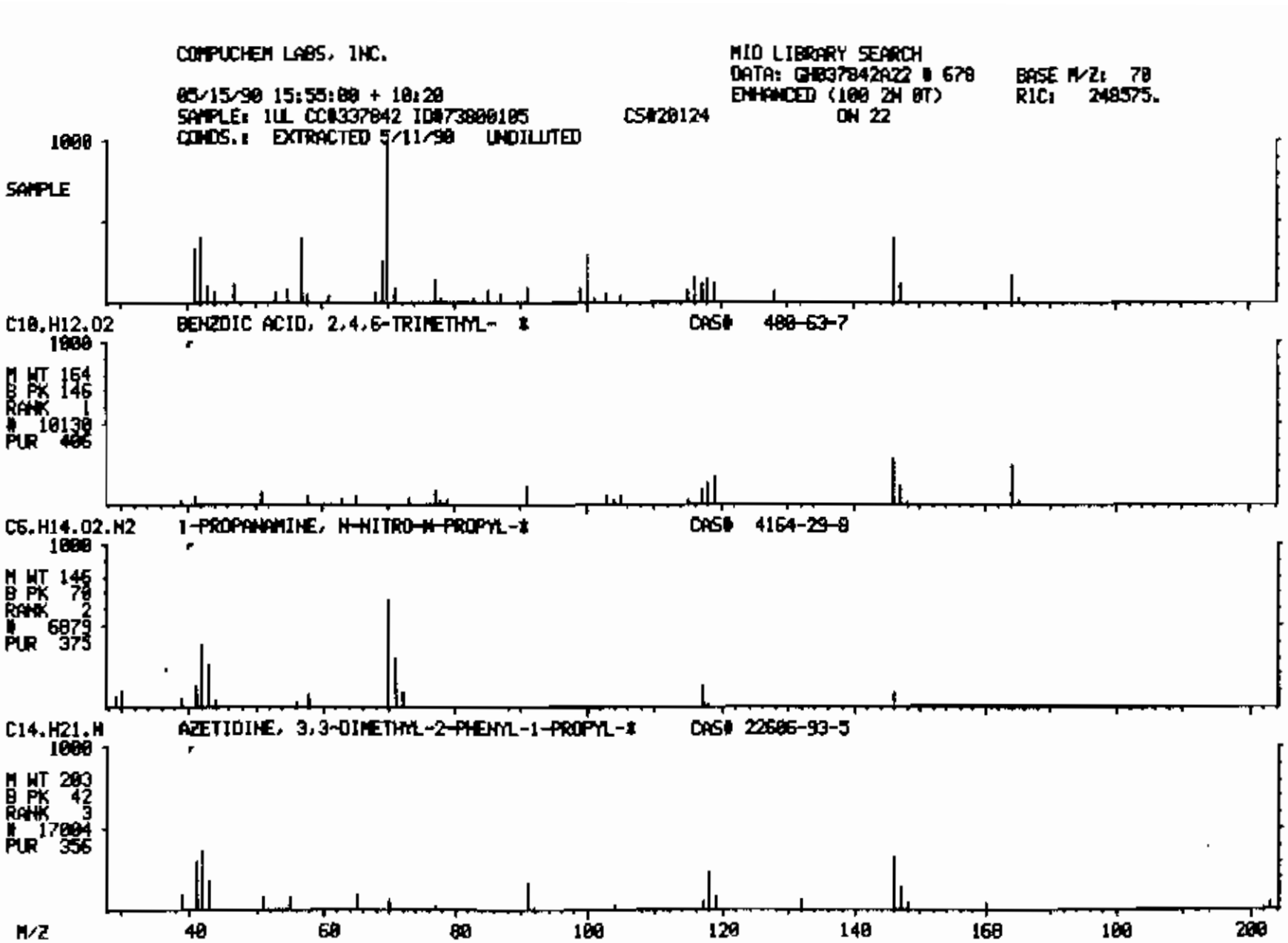

COMPUCHEM LABS, INC.
MIO LIBRARY SEARCH
05/15/90 15:55:00 + 9:37
DATA: GH037842A22 # 631
BASE M/Z: 100
SAMPLE: 1UL CC#337842 ID#73000105
CS#20124
ENHANCED (100 2N 0T)
RIC: 94207.
ON 22
CONDS.: EXTRACTED 5/11/90 UNDILUTED
1361
SAMPLE
C7.H12.04
2,4,8,10-TETRAOXASPIRO[5.5]UNDECANE *
CAS# 126-34-5
M WT 160
B PK 100
RANK 1
PUR 655
C4.H9.02.B
1,3,2-DIOXABOROLANE, 2-ETHYL- *
CAS# 10173-38-3
M WT 100
B PK 72
RANK 2
PUR 480
C9.H16.02
HEXANOIC ACID, 2-PROPENYL ESTER *
CAS# 123-60-2
M WT 156
B PK 43
RANK 3
PUR 470
M/Z
40
60
80
100
120
140
160

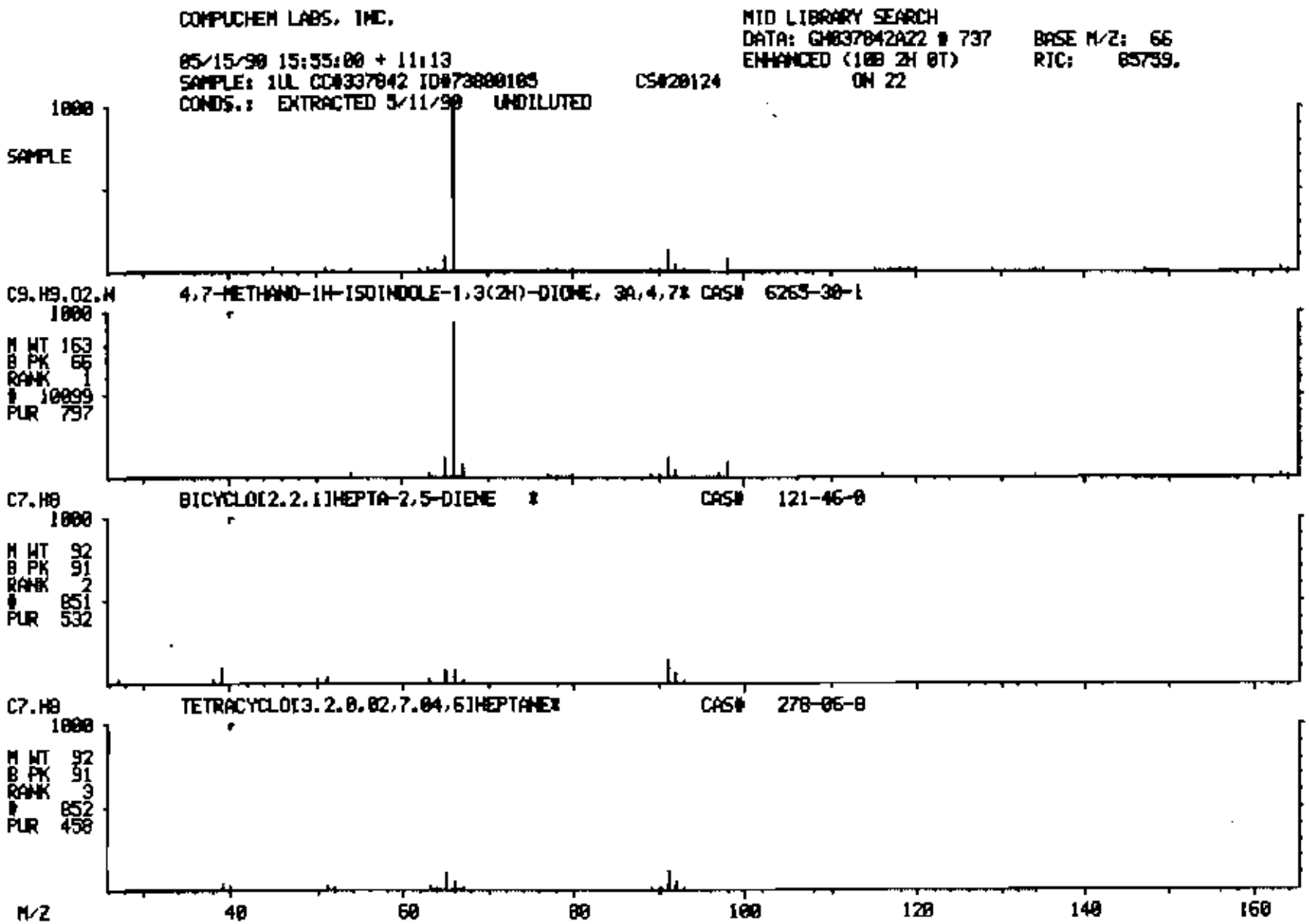
COMPUCHEM LABS, INC.

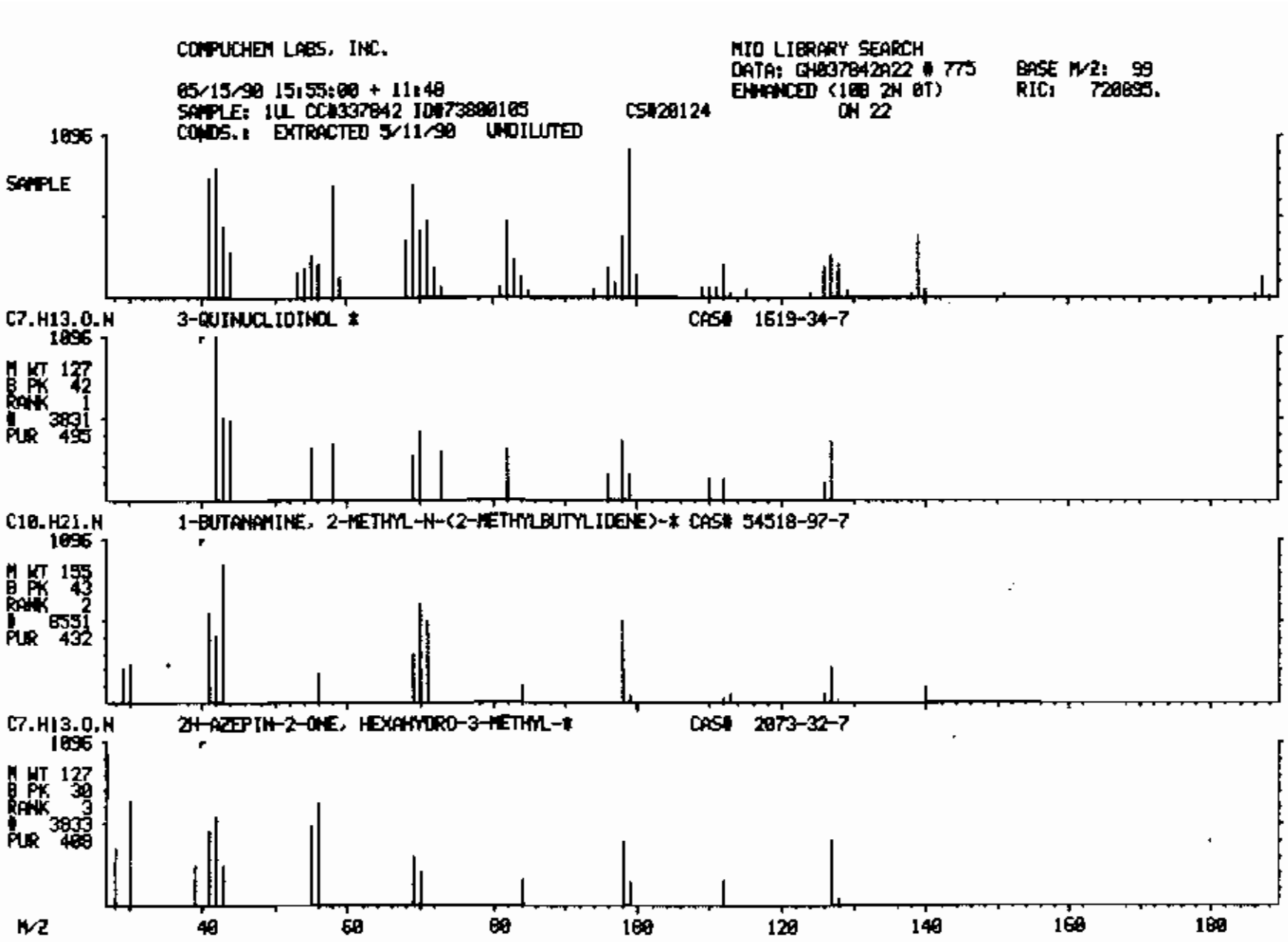
05/15/90 15:55:00 + 9:59
SAMPLE: 1UL CC#337842 ID#73000105 CS#20124
CONDS.: EXTRACTED 5/11/90 UNDILUTED

NID LIBRARY SEARCH
DATA: GH037842A22 # 635 BASE M/Z: 103
ENHANCED (100 2N 0T) RIC: 120767.
ON 22

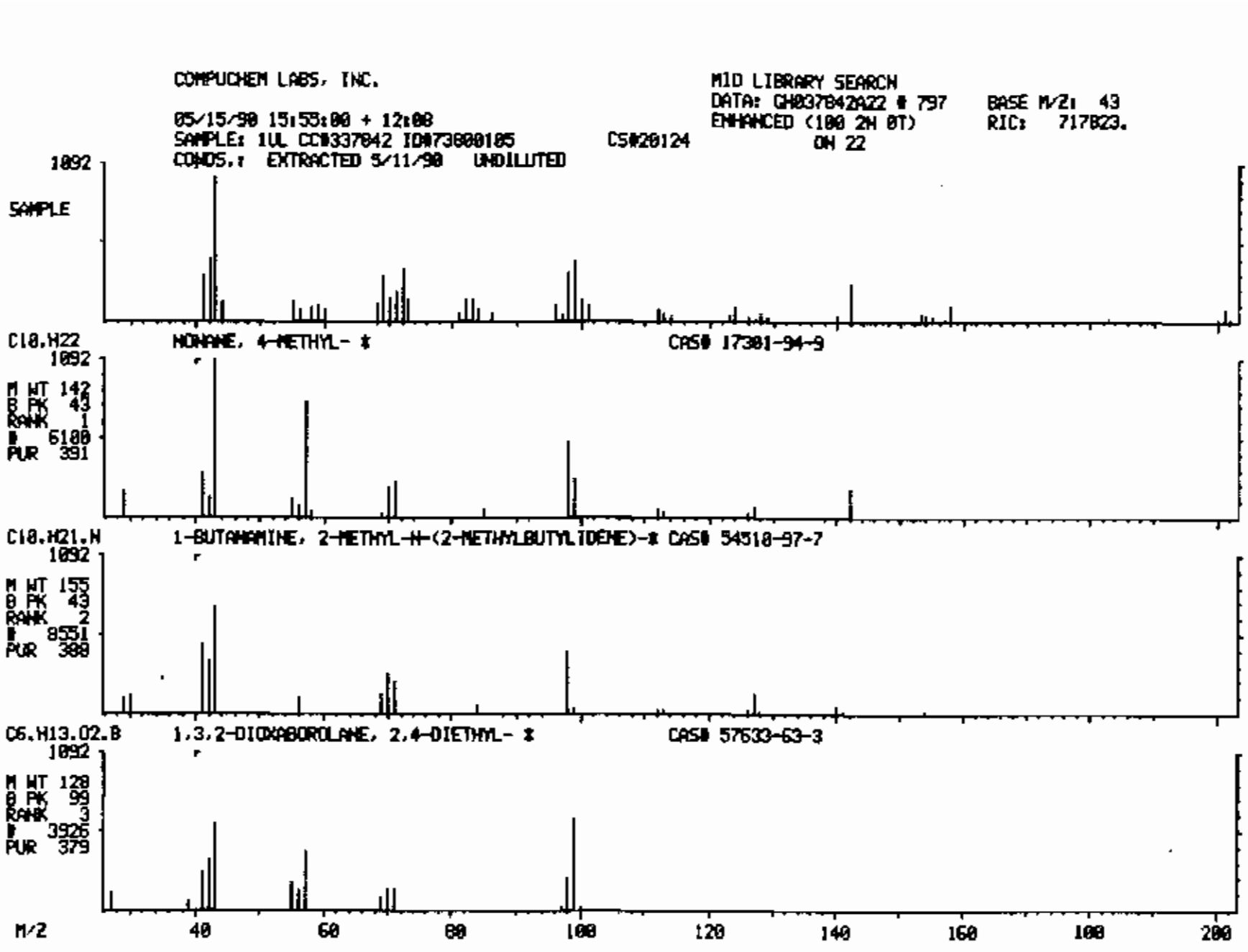





COMPUCHEM LABS, INC.
MID LIBRARY SEARCH
DATA: GM037042A22 # 737 BASE M/Z: 66
ENHANCED (100 2H 0T) RIC: 65759.
05/15/90 15:55:00 + 11:13
SAMPLE: 1UL CC#337042 ID#73000105 CS#20124 ON 22
CONDS.: EXTRACTED 5/11/90 UNDILUTED
1000
SAMPLE
C9.H9.02.N 4,7-METHANO-1H-ISOINDOLE-1,3(2H)-DIONE, 3A,4,7A CAS# 6265-30-1
1000
M WT 163
B PK 66
RANK 1
10099
PUR 797
C7.H8 BICYCLO[2.2.1]HEPTA-2,5-DIENE CAS# 121-46-0
1000
M WT 92
B PK 91
RANK 2
851
PUR 532
C7.H8 TETRACYCLO[3.2.0.02,7.04,6]HEPTANE CAS# 278-06-8
1000
M WT 92
B PK 91
RANK 3
852
PUR 458
M/Z
40
60
80
100
120
140
160



NYDEC RA090 0507 ORGANIC


COMPUCHEM LABS, INC.
05/15/90 15:55:00 + 12:00
SAMPLE: 1UL CC#337842 ID#73000105
COMDS.: EXTRACTED 5/11/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GH037842A22 # 797
ENHANCED (100 2N 0T)
ON 22
BASE M/Z: 43
RIC: 717823.
SAMPLE
C10.H22
NONANE, 4-METHYL- #
CAS# 17301-94-9
M WT 142
B PK 43
RANK 1
6100
PUR 391
C10.H21.N
1-BUTANAMINE, 2-METHYL-N-(2-METHYLBUTYLIDENE)-# CAS# 54518-97-7
M WT 155
B PK 43
RANK 2
8551
PUR 388
C6.H13.O2.B
1,3,2-DIOXABOROLANE, 2,4-DIETHYL- #
CAS# 57633-63-3
M WT 128
B PK 99
RANK 3
3926
PUR 379
M/Z
40
60
80
100
120
140
160
180
200

INSTRUCTIONS:
SEE PPS#407 CASE#RA090 SDG#0507

PPS#: _____

MAST 5-6

ECEIPT DATE: 05/09/90 CASE#: 20124

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 337842

J1[ ] J3[ ] D1[ ] (:1)
EJ[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER;3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800105

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid _____ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date Sample Bottle Analyzed 5/11/90
DFTPP Filename DF910516A22 Disk (30344)
Standard Filename HG910516A22 Disk ( )
Sample Filename GH037842A22 Disk ( )

[redacted]

ANALYST(S): Injection 740 Work-up J.C.Weaver GS

GC/MS REVIEW

CONDITION CODE OK

Extraneous Peak Search Results: 5/16/90

# of Peaks Found: 16

# of Hits: 2

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 1

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

CONMENTS:

#GC/MS Review [signature] Date 5/16/90 Auditor [signature] Date 5/16/90

REPORT INTEGRATION Total # of Injections: _____
Final Reportable Package(s): GH037842Add 1 _____

QA COMMENTS:

Initials_____ Date__/__/__

FINAL REVIEW: Initials_____ Date__/__/__

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

946

ASSIGNED TO: CA Carl Hooker

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1787

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL.(ml) SV B/N	FINAL EXTRACT VOL.(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337842	-079	20124	73580 105			3/3	1000	1.0		13	1	* Use 500ml sample volume for 35 only
2	337843			73580 106			3/3	1000	1.0		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337844			73580 107			3/3	1000	1.0		13	1	Conc. to 0.5ml final volume
4	337845			73580 108			3/3	1000	1.0		13	1	add ml validation spike to B/N only
5	337846			73580 109			1/3	1000	1.0		13	1	
6	337847			73580 112			2/3	1000	1.0		13	1	
7	337848			73580 110			1/3	1000	1.0		13	1	
8	337849			73580 109			2/3	1000	1.0		13	1	
9	337850		↓	73580 113			1/3	1000	1.0		13	1	
10	336-2101R		19698	8020 56000			3/3	1000ml	1.0		13	1	*
11													
12													
13	338347	↓		SBLK 86	B1			1000ml	1.0		13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	0.0 ml				
	LOT	31922				
						valid
SPIKE	NO.		3012	2021		spike
	AMT.					
	LOT					

MANUAL COUNTER 510/889

FINAL VOLUME VERIFIED CaDA Hooker

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5-11-90

SURROGATE & SPIKE ADDED CORRECTLY A.W. 5-11-90 (INT / DATE)

ISSUED BY:

NYDEC RA090 0507 ORGANIC

CMP #	M/E	F	COMPOUND NAME.	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS0	464	169000	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q19				BDL	10
481	79		PYRIDINE (Z901)				BDL	10
309	69		ETHYLMATHACRYLATE (Z902)				BDL	10
342	89		PARALDEHYDE (Z903)			1.4	1J	10
510	93		2-PICOLINE (Z9056)				BDL	20
335	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
343	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z906				BDL	10
514	109		ETHYL METHANESULFONATE (Z90				BDL	10
610	94		PHENOL (Q103)				BDL	10
473	93		ANILINE (Q104)				BDL	10
305	167		PENTACHLOROETHANE (Z908)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20
601	128		2-CHLOROPHENOL (Q106)				BDL	10
421	146		1,3-DICHLOROBENZENE (Q107)				BDL	10
306	91		BENZYL CHLORIDE (Z909)				BDL	10
422	146		1,4-DICHLOROBENZENE (Q108)				BDL	10
474	108		BENZYL ALCOHOL (Q109)				BDL	10
420	146		1,2-DICHLOROBENZENE (Q110)				BDL	10
620	108		2-METHYLPHENOL (Q111)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F102)				BDL	10
622	108		4-METHYLPHENOL (Q113)				BDL	10
328	100		N-NITROSOPYRROLIDINE (Z9810				BDL	10
344	116		N-NITROSOMORPHOLINE (Z9812)				BDL	10
500	105		ACETOPHENONE (Z9811)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (			8.7	9J	10
436	117		HEXACHLOROETHANE (Q115)				BDL	10
460	136	I	D8-NAPHTHALENE (IS02)	971	563000	40.0		
440	77		NITROBENZENE (Q116)				BDL	10
302	114		N-NITROSOPIPERIDINE				BDL	10
438	82		ISOPHORONE (Q202)				BDL	10
603	107		2,4-DIMETHYLPHENOL (Q204)				BDL	10
606	139		2-NITROPHENOL (Q203)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z90				BDL	10
318	125		BENZAL CHLORIDE (Z9816)				BDL	10
625	122		BENZOIC ACID (Q205)				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (Q207)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (Q20				BDL	10
439	128		NAPHTHALENE (Q209)				BDL	10

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-16-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (Q2810)				BDL	10
631	162		2,6-DICHLOROPHENOL (Z9818)				BDL	20
524	108		O-PHENYLENEDIAMINE (Z9819)			~~52.4~~	~~52~~ BDL	10
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	10
537	213		HEXACHLOROPROPENE (Z9821)				BDL	10
434	225		HEXACHLOROBUTADIENE (Q2811)				BDL	10
450	180		1,2,3-TRICHLOROBENZENE (Z98				BDL	10
534	159		BENZOTRICHLORIDE (Z9823)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (Q2812)			~~2.6~~	~~20~~ BDL	10
526	108		P-PHENYLENEDIAMINE (Z9820)			~~2.8~~	~~20~~ BDL	10
503	162		SAFROLE (Z9827)				BDL	10
525	108		M-PHENYLENEDIAMINE (Z9826)				BDL	10
477	142		2-METHYLNAPHTHALENE (Q2813)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2128)				BDL	10
493	164	I	DIO-ACENAPHTHENE (I863)	723	296000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	20
527	162		ISOSAFROLE (Z9830)				BDL	20
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F442)				BDL	10
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	10
478	65		2-NITROANILINE (Q3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (Z9832)				BDL	20
491	168		1,4-DINITROBENZENE (F342)				BDL	20
425	163		DIMETHYL PHTHALATE (Q387)				BDL	10
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	10
402	152		ACENAPHTHYLENE (Q388)				BDL	10
479	138		3-NITROANILINE (Q3#9)				BDL	20
401	153		ACENAPHTHENE (Q3#10)				BDL	10
605	184		2,4-DINITROPHENOL (Q3#11)				BDL	40
607	109		4-NITROPHENOL (Q3#12)				BDL	10
427	165		2,4-DINITROTOLUENE (Q3#14)				BDL	10
476	168		DIBENZOFURAN (Q3#13)				BDL	10
507	290		PENTACHLOROBENZENE (Z9833)				BDL	10
484	143		2-NAPHTHYLAMINE (Z9835)				BDL	20
483	143		1-NAPHTHYLAMINE (Z9836)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (Q3#16)				BDL	10
519	97		2NOPHOS (Z9838)				BDL	10

CORRECTED/REVIEWED BY L. Heath
(QC/MS DATA REVIEWER)

DATE 5-16-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	10
432	166		FLUORENE (G3#18)				BDL	10
480	138		4-NITROANILINE (G3#19)			1.3	1.3 BDL	20
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	20
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	10
467	188	I	D10-PHENANTHRENE (I8#4)	855	388000	40.0		
499	240	I	D12-CHRYSENE (I8#5)	1100	229000	40.0		
497	264	I	D10-PERYLENE (I8#6)	1313	190000	40.0		
619	112	S	2-FLUOROPHENOL (BS#1)			71.4	36.%	
612	99	S	D5-PHENOL (BS#2)			61.6	31.%	
447	82	S	D5-NITROBENIENE (BS#3)			70.4	70.%	
448	172	S	2-FLUOROBIPHENYL (BS#4)			70.9	71.%	
628	330	S	2,4,6-TRIBROMOPHENOL (BS#5)			153.0	76.%	
471	212	S	D10-PYRENE (BS#6)			81.6	82.%	
496	244	S	D14-TERPHENYL (BS#7)			83.4	83.%	
CHECKSUMS:								
14270.				5028	1825000.	901.2		68.

CORRECTED/REVIEWED BY L. Hoult
(GC/MS DATA REVIEWER)

DATE 5-16-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	71.4	200.0	36.	21-100	X	
96	612	D5-PHENOL (SS#2)	61.6	200.0	31.	10- 94	X	
97	447	D5-NITROBENZENE (SS#3)	70.4	100.0	70.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	70.9	100.0	71.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	153.0	200.0	76.	10-123	X	
#1	471	D10-PYRENE (SS#6)	81.6	100.0	82.	40-130*	X	
#1	496	D14-TERPHENYL (SS#7)	83.4	100.0	83.	33-141	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORY VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{1000\ \text{UL}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-10-96

COMPUCHEM # 037842 FILE: GH037842A22 COMPOUND LIST 173 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME.	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (I004)	855	388000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	30
443	169		N-NITROSODIPHENYLAMINE (G40				BDL	10
567	169		DIPHENYLAMINE (F303)				BDL	10
508	213		1,3,5-TRINITROBENZENE (Z904				BDL	20
539	108		PHENACETIN (Z9042)				BDL	10
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	10
977	234		DIALLATE (TRANS ISOMER)				BDL	10
541	125		DIMETHOATE (Z9044)				BDL	10
433	284		HEXACHLOROBENZENE (G405)				BDL	10
485	169		4-AMINOBIPHENYL (Z9045)				BDL	10
522	173		PRONAMIDE (Z9046)				BDL	10
609	266		PENTACHLOROPHENOL (G406)				BDL	20
433	237		PENTACHLORONITROBENZENE (Z9				BDL	10
444	178		PHENANTHRENE (G407)				BDL	10
403	178		ANTHRACENE (G408)				BDL	10
426	149		DI-N-BUTYL PHTHALATE (G409)				BDL	10
516	97		METHAPYRILENE (Z9048)				BDL	20
549	211		CYCLOPHOSPHAMIDE (Z9049)				BDL	50
431	202		FLUORANTHENE (G4010)				BDL	10
459	240	I	D12-CHRYSENE (I005)	1100	229000	40.0		
404	184		BENZIDINE (G502)				BDL	10
445	202		PYRENE (G503)				BDL	10
530	185		ARAMITE (Z9050)			2.6	Not BDL	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
523	139		CHLOROBENZILATE (Z9052)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z9B				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G504				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F50				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (G50				BDL	10
533	244		DIMETHOXYBENZIDINE (Z9057)				BDL	10
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	10
409	228		BENZO(A)ANTHRACENE (G506)				BDL	10
418	228		CHRYSENE (G508)				BDL	10
497	264	I	D10-PERYLENE (I006)	1313	180000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G602)				BDL	10
407	252		BENZO(B)FLUORANTHENE (G603)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (G604)				BDL	10
406	252		BENZO(A)PYRENE (G605)				BDL	10
565	268		3-METHYLCHLORANTHRENE (F602				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY L. Hewell
(GC/MS DATA REVIEWER)

DATE 5-16-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	10
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	10
408	276		BENZO(G,H,I)PERYLENE (G6##)				BDL	10
576	234		DIALLATE (CIS ISOMER)				BDL	10
531	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS:								
10115.				3268	797000.	123.8	4.	

CORRECTED/REVIEWED BY L. Hand
(GC/MS DATA REVIEWER)

DATE 5-16-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ ML}{1000.\ ML} \times 1.0ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY J. Hewell
(QC/MS DATA REVIEWER)

DATE 5-16-90

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800106

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337843

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037843C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	1	J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	100	U
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

71800106

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337843

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037843C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0--------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0--------Pyrene	10	U
140-57-8--------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6--------Chlorobenzilate	10	U
119-93-7--------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4--------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4--------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9--------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0--------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800106

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337843

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037843C22

Level: (low/med) LOW Date Received: 05/09/90

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

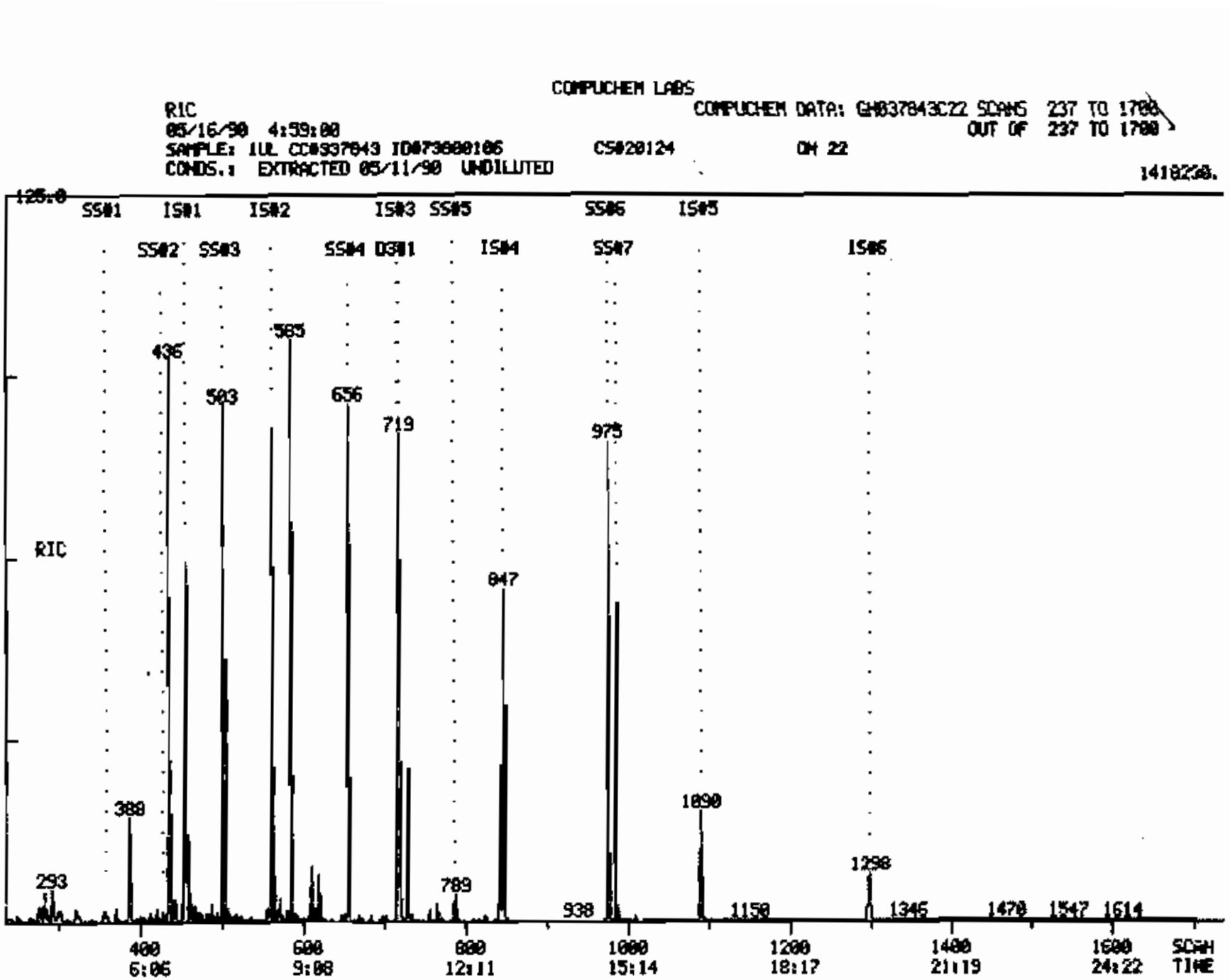
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

Number TICs found: 5

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

	CAS NUMBER	COMPOUHD NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.82	19	J
2.		UNKNOWN	6.53	54	J
3.	2873-97-4	2-PROPENAMIDE, N-(1,1-DIMETH	8.77	50	J
4.		PROPYLBENZENAMINE	9.15	6.0	J
5.	6265-30-1	4,7-METHANO-1H-ISOINDOLE-1,3	10.94	12	J


COMPUCHEM LABS
RIC
05/16/90 4:59:00
SAMPLE: 1UL CC#937843 ID#73000106
CONDS.: EXTRACTED 05/11/90 UNDILUTED
COMPUCHEM DATA: GH037843C22 SCANS 237 TO 1700
OUT OF 237 TO 1700
CS#20124
ON 22
1418230.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
436
585
503
656
719
975
847
388
1090
293
789
938
1298
1150
1345
1470
1547
1614
RIC
400
6:06
600
9:08
800
12:11
1000
15:14
1200
18:17
1400
21:19
1600
24:22
SCAN
TIME

```
QUANTITATION REPORT     FILE: QH037843C22
DATA: QH037843C22.TI
05/16/90  4:59:00
SAMPLE: 1UL CC#337843 ID#73900106          CB#20124              ON 22
CONDS.:  EXTRACTED 05/11/90  UNDILUTED
SUBMITTED BY:      22        ANALYST:       619

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO  NAME
  1  #494 D4-1,4-DICHLOROBENZENE (I#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  481 PYRIDINE (Z9#1)
  4  509 ETHYLMATHACRYLATE (Z9#2)
  5  542 PARALDEHYDE (Z9#3)
  6  510 2-PICOLINE (Z9#56)
  7  535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
  8  543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
  9  499 N-NITROSODIETHYLAMINE (Z9#6)
 10  514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
 11  610 PHENOL (O1#3) <108-95-2>
 12  473 ANILINE (G1#4) <62-53-3>
 13  505 PENTACHLOROETHANE (Z9#8)
 14  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
 15  601 2-CHLOROPHENOL (G1#6) <95-57-8>
 16  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
 17  506 BENZYL CHLORIDE (Z9#9)
 18  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
 19  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 20  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 21  620 2-METHYLPHENOL (G1#11) <95-48-7>
 22  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 23  621 3-METHYLPHENOL (F1#2) <108-39-4>
 24  622 4-METHYLPHENOL (G1#13) <106-44-5>
 25  528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
 26  544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
 27  500 ACETOPHENONE (Z9#11)
 28  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 29  512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
 30  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 31  #460 D8-NAPHTHALENE (I#2)
 32  440 NITROBENZENE (G1#16) <98-95-3>
 33  502 N-NITROSOPIPERIDINE
 34  439 ISOPHORONE (G2#2) <78-59-1>
 35  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 36  604 2-NITROPHENOL (G2#3) <88-75-5>
 37  491 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
 38  518 BENZAL CHLORIDE (Z9#16) <98-87-3>
 39  625 BENZOIC ACID (G2#5) <65-85-0>
 40  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 41  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 42  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 43  439 NAPHTHALENE (G2#9) <91-20-3>
 44  475 4-CHLOROANILINE (G2#10) <106-47-8>
 45  631 2,6-DICHLOROPHENOL (Z9#18)
 46  524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>
```

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (I8#3)
60	497 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	913 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	964 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	@605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	907 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZIMOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (I8#4)
93	*459 D12-CHRYSENE (I8#5)
94	*497 D10-PERYLENE (I8#6)
95	#619 2-FLUOROPHENOL (S8#1)
96	#612 D5-PHENOL (S8#2)
97	#447 D5-NITROBENZENE (S8#3)
98	#448 2-FLUOROBIPHENYL (S8#4)
99	#628 2,4,6-TRIBROMOPHENOL (S8#5)
100	#471 D10-PYRENE (S8#6)
101	#496 D14-TERPHENYL (S8#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	152	456	6:57	1	1.000	A BB	145720.	40.000 NG	6.60
2	42	NOT FOUND							
3	79	NOT FOUND							
4	69	NOT FOUND							
5	89	NOT FOUND							
6	93	NOT FOUND							
7	88	NOT FOUND							
8	80	NOT FOUND							
9	102	NOT FOUND							
10	109	NOT FOUND							
11	94	NOT FOUND							
12	93	NOT FOUND							
13	167	NOT FOUND							
14	93	NOT FOUND							
15	128	NOT FOUND							
16	146	NOT FOUND							
17	91	NOT FOUND							
18	146	NOT FOUND							
19	108	NOT FOUND							
20	146	NOT FOUND							
21	108	NOT FOUND							
22	45	NOT FOUND							
23	108	NOT FOUND							
24	108	NOT FOUND							
25	100	NOT FOUND							
26	116	NOT FOUND							
27	105	NOT FOUND							
28	70	NOT FOUND							
29	106	488	7:26	1	1.070	A BB	9652.	1.282 NG	0.21 STD 1-21-91 NO YES
30	117	NOT FOUND							
31	136	563	8:34	31	1.000	A BB	511264.	40.000 NG	6.60
32	77	NOT FOUND							
33	114	NOT FOUND							
34	82	NOT FOUND							
35	107	NOT FOUND							
36	139	NOT FOUND							
37	180	NOT FOUND							
38	125	NOT FOUND							
39	122	NOT FOUND							
40	93	NOT FOUND							
41	162	NOT FOUND							
42	180	NOT FOUND							
43	128	NOT FOUND							
44	127	NOT FOUND							
45	162	NOT FOUND							
46	108	563	8:34	31	1.000	A BB	83960.	51.738 NG	8.54 NO
47	91	NOT FOUND							
48	213	NOT FOUND							
49	225	NOT FOUND							
50	180	NOT FOUND							
51	159	NOT FOUND							
52	84	NOT FOUND							
53	107	NOT FOUND							
54	108	NOT FOUND							
55	162	NOT FOUND							
56	108	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		ZTOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	717	10:55	59	1.000	A BB	248964.	40.000	NQ	6.60
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	139	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	847	12:54	92	1.000	A BB	322108.	40.000	NQ	6.60
93	240	1090	16:36	93	1.000	A BV	160396.	40.000	NQ	6.60
94	264	1298	19:46	94	1.000	A BB	99576.	40.000	NQ	6.60
95	112	358	5:27	1	0.785	A BB	9588.	1.407	NQ	0.23
96	99	NOT FOUND								
97	82	503	7:40	31	0.893	A BB	548244.	67.183	NQ	11.09
98	172	655	9:59	59	0.914	A BB	554672.	69.696	NQ	11.50
99	330	786	11:38	59	1.096	A BB	4464.	8.591	NQ	1.42
100	212	975	14:51	93	0.894	A BV	498226.	83.384	NQ	13.76
101	244	985	15:00	93	0.904	A BV	390212.	82.783	NQ	13.66

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.348 ✓	
3	3:52		10.000			50.00		1.942	
4	4:25		10.000			50.00		1.888	
5	4:25		10.000			50.00		0.370	
6	4:47		20.000			50.00		2.081	
7	4:55		10.000			200.00		0.439	
8	5:15		10.000			50.00		1.569	
9	5:44		10.000			50.00		0.983	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:03		10.000			50.00		1.052	
11	6:31		10.000			50.00		2.859	
12	6:35		10.000			50.00		3.199	
13	6:37		10.000			50.00		0.329	
14	6:38		20.000			50.00		2.281	
15	6:44		10.000			50.00		1.882	
16	6:55		10.000			50.00		1.946	
17	6:59		10.000			50.00		4.277	
18	6:59		10.000			50.00		1.947	
19	7:07		10.000			50.00		1.211	
20	7:12		10.000			50.00		1.777	
21	7:15		10.000			50.00		1.716	
22	7:19		10.000			50.00		2.437	
23	7:25		10.000			100.00		1.814	
24	7:25		10.000			100.00		1.814	
25	7:26		10.000			50.00		0.932	
26	7:27		10.000			50.00		0.453	
27	7:28		10.000			50.00		2.822	
28	7:29		10.000			50.00		1.698	
29	7:31	0.99	10.000	0.11	1.28	50.00	0.053	2.067	0.03
30	7:37		10.000			50.00		1.040	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:41		10.000			50.00		0.590	
33	7:52		10.000			50.00		0.205	
34	7:58		10.000			50.00		1.121	
35	8:06		10.000			50.00		0.532	
36	8:09		10.000			50.00		0.228	
37	8:07		10.000			50.00		0.284	
38	8:08		10.000			50.00		0.784	
39	8:12		100.000			50.00		0.189	
40	8:13		10.000			50.00		0.558	
41	8:23		10.000			50.00		0.270	
42	8:31		10.000			50.00		0.296	
43	8:36		10.000			50.00		1.306	
44	8:39		10.000			50.00		0.643	
45	8:41		20.000			50.00		0.307	
46	8:34	1.00	10.000	0.10	51.74	50.00	0.131	0.127	1.03
47	8:47		10.000			50.00		0.071	
48	8:45		10.000			50.00		0.141	
49	8:49		10.000			50.00		0.130	
50	8:50		10.000			50.00		0.261	
51	8:55		20.000			50.00		0.419	
52	9:06		10.000			50.00		0.193	
53	9:15		10.000			50.00		0.451	
54	9:15		10.000			50.00		0.030	
55	9:21		10.000			50.00		0.262	
56	9:21		10.000			50.00		0.001	
57	9:29		10.000			50.00		0.982	
58	9:38		10.000			50.00		0.520	
59	10:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:46		10.000			100.00		0.449	
61	9:46		10.000			100.00		0.449	
62	9:48		10.000			50.00		0.182	
63	9:53		20.000			50.00		0.330	
64	9:56		20.000			50.00		0.325	
65	10:01		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:09		10.000			50.00		1.495	
67	10:11		10.000			50.00		1.104	
68	10:10		10.000			50.00		0.427	
69	10:17		10.000			50.00		0.583	
70	10:21		20.000			50.00		0.433	
71	10:24		20.000			50.00		0.204	
72	10:31		10.000			50.00		1.495	
73	10:38		10.000			50.00		0.307	
74	10:42		10.000			50.00		1.917	
75	10:49		20.000			50.00		0.348	
76	10:57		10.000			50.00		1.317	
77	10:57		40.000			50.00		0.108	
78	11:00		10.000			50.00		0.319	
79	11:09		10.000			50.00		0.429	
80	11:10		10.000			50.00		1.693	
81	11:12		10.000			50.00		0.341	
82	11:15		20.000			50.00		0.818	
83	11:21		20.000			50.00		0.887	
84	11:22		20.000			50.00		0.174	
85	11:27		10.000			50.00		1.719	
86	11:35		10.000			50.00		0.436	
87	11:35		10.000			50.00		0.438	
88	11:37		10.000			50.00		1.334	
89	11:38		20.000			50.00		0.354	
90	11:38		20.000			50.00		0.383	
91	11:48		10.000			50.00		2.253	
92	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:40	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:27	1.00	0.742	1.06	1.41	50.00	0.053	1.870	0.03
96	6:30		0.948			50.00		2.258	
97	7:40	1.00	0.875	1.02	67.18	50.00	0.858	0.638	1.34
98	9:59	1.00	0.906	1.01	69.70	50.00	1.782	1.279	1.39
99	11:57	1.00	1.118	0.98	8.59	50.00	0.014	0.083	0.17
100	14:49	1.00	10.000	0.09	83.38	50.00	2.485	1.490	1.67
101	14:58	1.00	0.907	1.00	82.78	50.00	1.946	1.176	1.66

QUANTITATION REPORT FILE: QH037843C22
DATA: QH037843C22.TI
05/16/90 4:59:00
SAMPLE: 1UL CC#337843 ID#73900106 CS#20124 ON 22
CONDS.: EXTRACTED 05/11/90 UNDILUTED
SUBMITTED BY: 22 ANALYST: 619

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

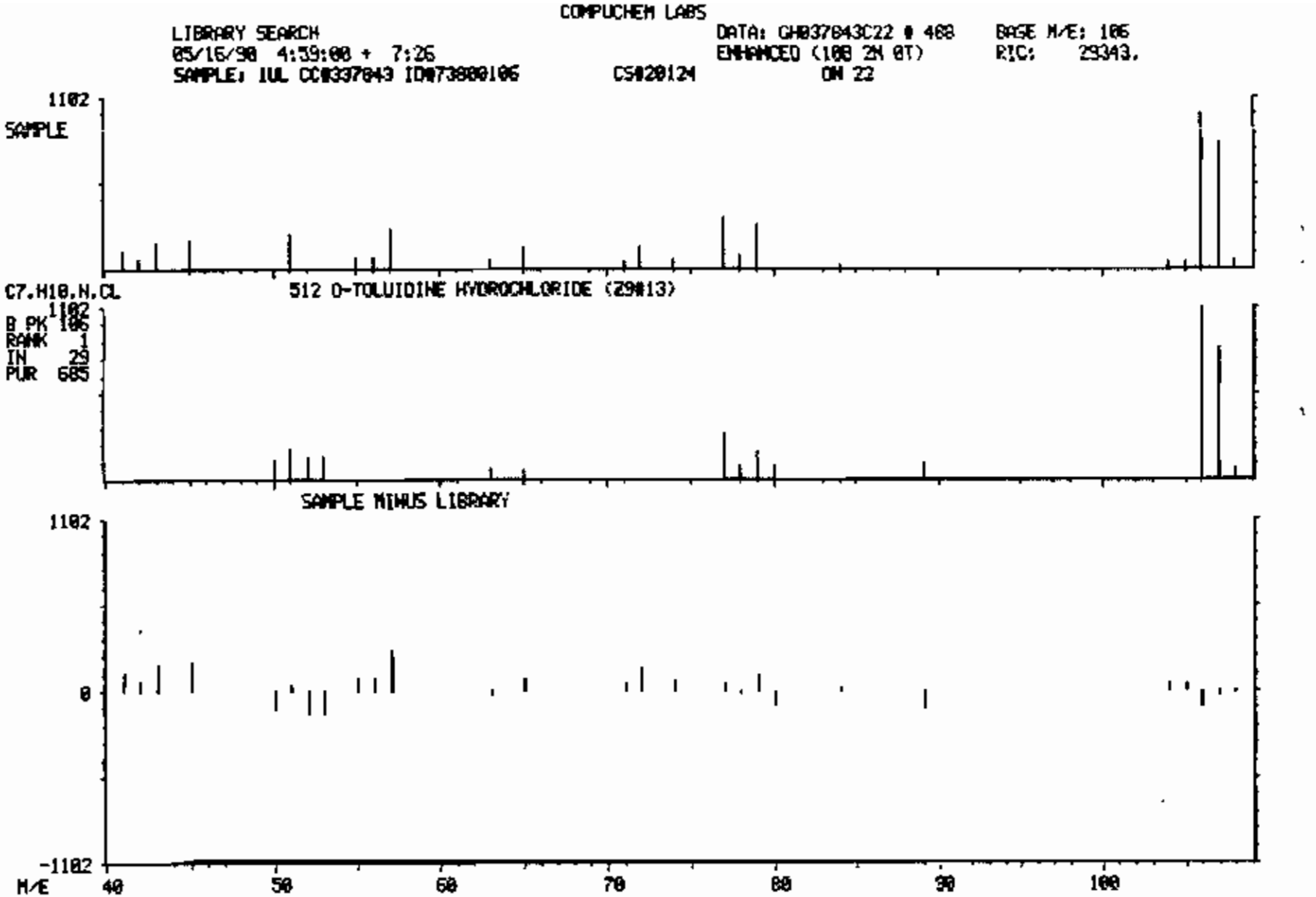
NO	NAME
1	*467 D10-PHENANTHRENE (IS#4)
2	604 4,6-DINITRO-2-METHYLPHENOL (B4#2) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
4	567 DIPHENYLAMINE (F3#3)
5	509 1,3,5-TRINITROBENZENE (Z9#41)
6	539 PHENACETIN (Z9#42) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9#44)
10	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9#45)
12	522 PRONAMIDE (Z9#46)
13	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9#47)
15	444 PHENANTHRENE (G4#7) <85-01-8>
16	403 ANTHRACENE (G4#8) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
18	516 METHAPYRILENE (Z9#48)
19	549 CYCLOPHOSPHAMIDE (Z9#49)
20	431 FLUORANTHENE (G4#10) <206-44-0>
21	*459 D12-CHRYSENE (IS#5)
22	404 BENZIDINE (G5#2) <92-87-5>
23	445 PYRENE (G5#3) <129-00-0>
24	530 ARAMITE (Z9#50) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
26	523 CHLOROBENZILATE (Z9#52)
27	545 3,3'-DIMETHYLBENZIDINE (Z9#53)
28	415 BUTYLBENZYL PHTHALATE (B5#4) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F5#2)
30	489 4,4'-METHYLENE-BIS(2-CHLORDANILINE) (Z9#54)
31	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9#57)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (B5#7) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
35	418 CHRYSENE (G5#8) <218-01-9>
36	*497 D10-PERYLENE (IS#6)
37	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
40	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
41	406 BENZO(A)PYRENE (G6#5) <50-32-8>
42	565 3-METHYLCHLORANTHRENE (F6#2)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
1	188	847	12:54	1	1.000	A BB	322108.	40.000	NG	32.53
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1090	16:36	21	1.000	A BV	160396.	40.000	NG	32.53
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	975	14:51	21	0.894	A BB	480.	3.009	NG	2.45 NO
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	226	NOT FOUND								
36	264	1298	19:46	36	1.000	A BB	99576.	40.000	NG	32.53
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
A1	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
A6	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:43		30.000			50.00		0.111	
3	11:45		10.000			100.00		0.815	
4	11:45		10.000			100.00		0.815	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.060	
6	12:08		10.000			50.00		0.642	
7	12:14		10.000			50.00		0.165	
8	12:09		10.000			25.00		0.106	
9	12:25		10.000			50.00		0.180	
10	12:28		10.000			50.00		0.197	
11	12:35		10.000			50.00		0.749	
12	12:40		10.000			50.00		0.412	
13	12:41		20.000			50.00		0.104	
14	12:48		10.000			50.00		0.078	
15	12:55		10.000			50.00		1.304	
16	12:59		10.000			50.00		1.311	
17	13:36		10.000			50.00		1.997	
18	14:03		20.000			50.00		0.408	
19	14:19		50.000			200.00		0.024	
20	14:32		10.000			50.00		1.024	
21	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:38		10.000			50.00		0.134	
23	14:51		10.000			50.00		2.070	
24	14:49	1.00	20.000	0.04	3.01	50.00	0.002	0.040	0.06
25	15:10		10.000			50.00		0.271	
26	15:13		10.000			50.00		1.379	
27	15:37		20.000			50.00		0.509	
28	15:36		10.000			50.00		1.321	
29	16:00		10.000			50.00		0.619	
30	16:23		10.000			50.00		0.179	
31	16:25		10.000			50.00		0.242	
32	16:21		10.000			50.00		0.147	
33	16:25		10.000			50.00		1.809	
34	16:32		10.000			50.00		1.166	
35	16:36		10.000			50.00		1.114	
36	19:40	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:30		10.000			50.00		2.896	
38	18:41		10.000			100.00		1.002	
39	18:41		10.000			50.00		0.487	
40	18:41		10.000			100.00		1.002	
41	19:31		10.000			50.00		1.192	
42	20:32		10.000			50.00		0.582	
43	22:25		10.000			50.00		0.886	
44	22:12		10.000			50.00		1.334	
45	23:12		10.000			50.00		1.100	
46	24:15		10.000			50.00		1.065	
47	12:17		10.000			25.00		0.135	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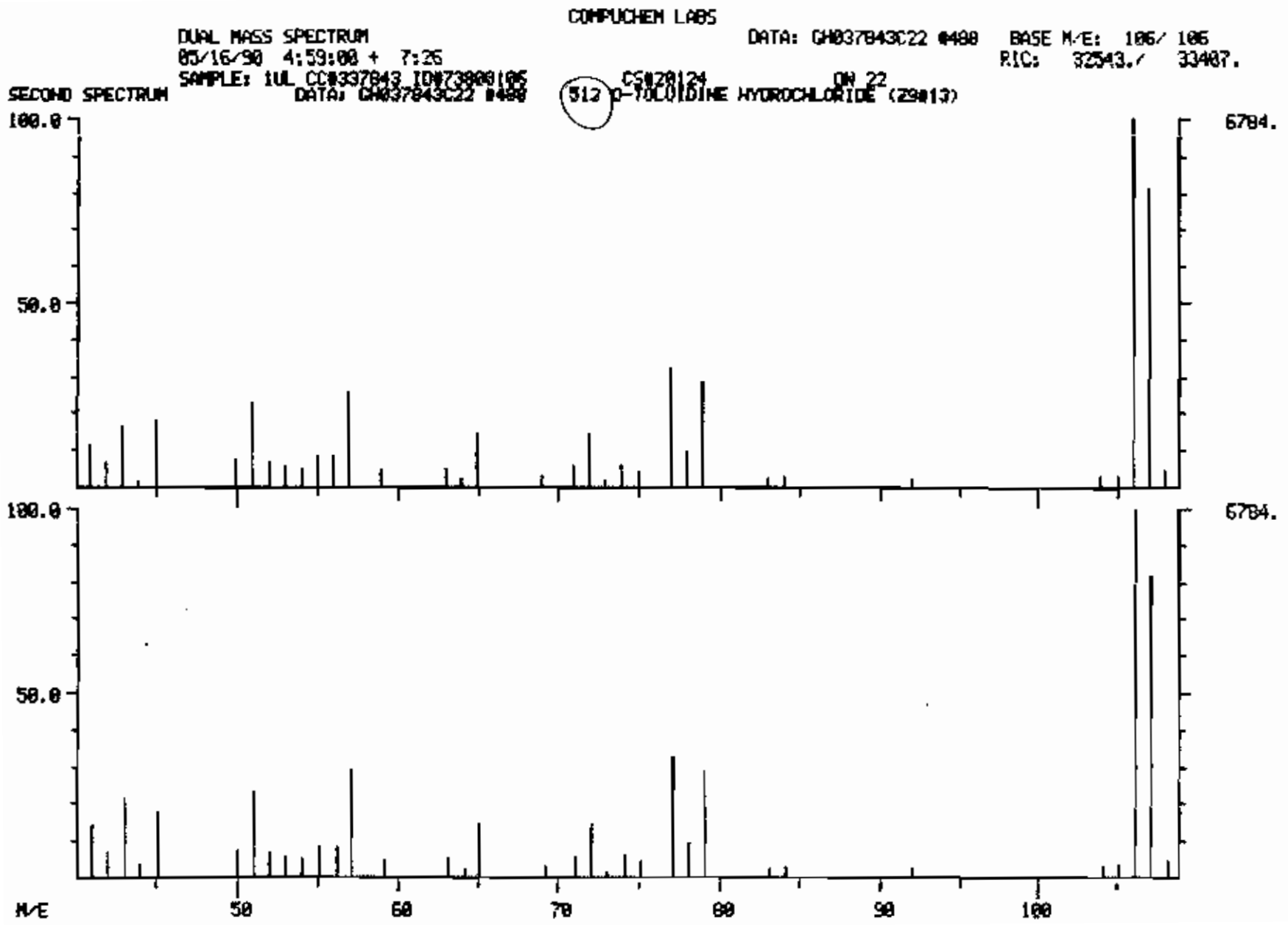
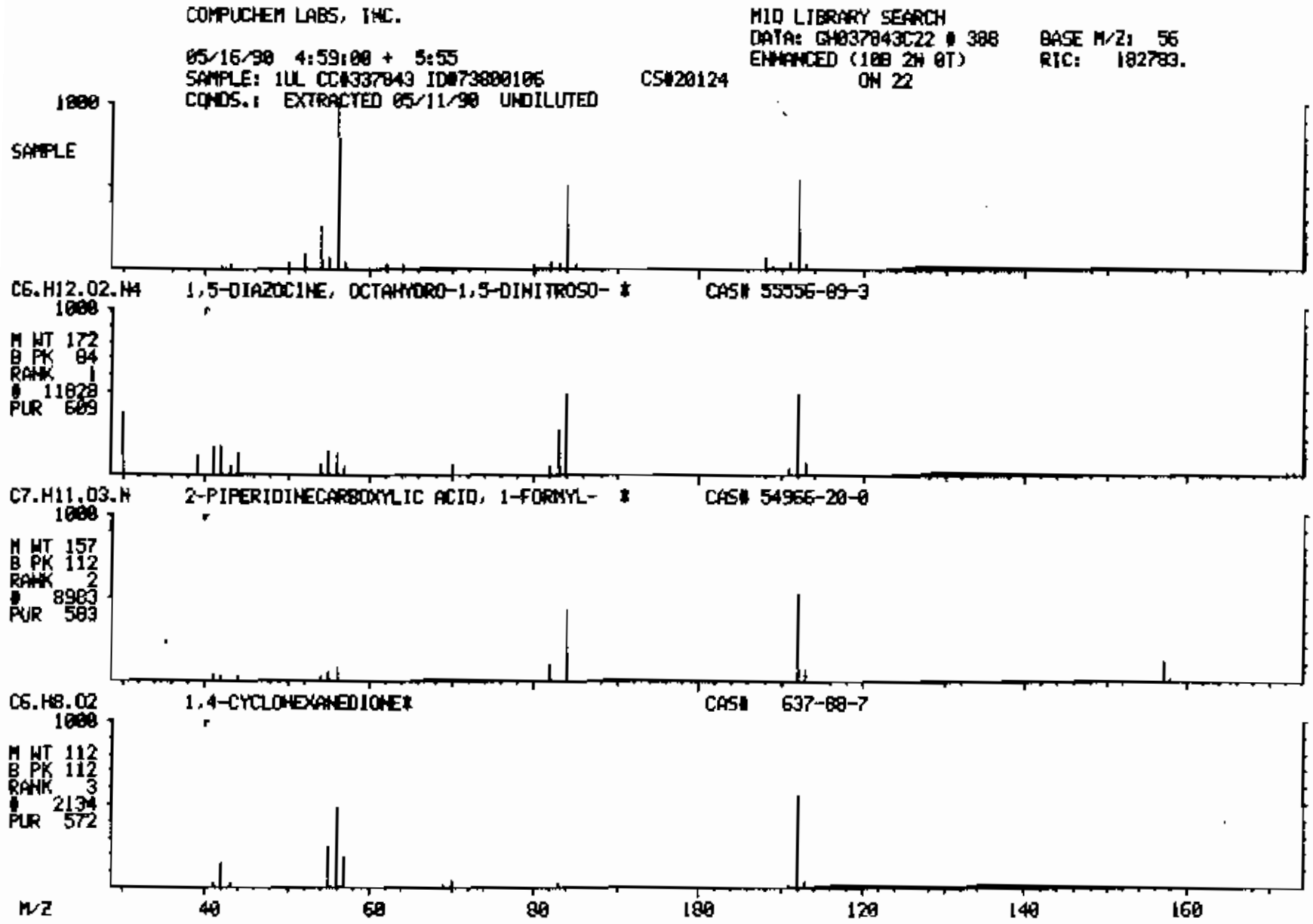
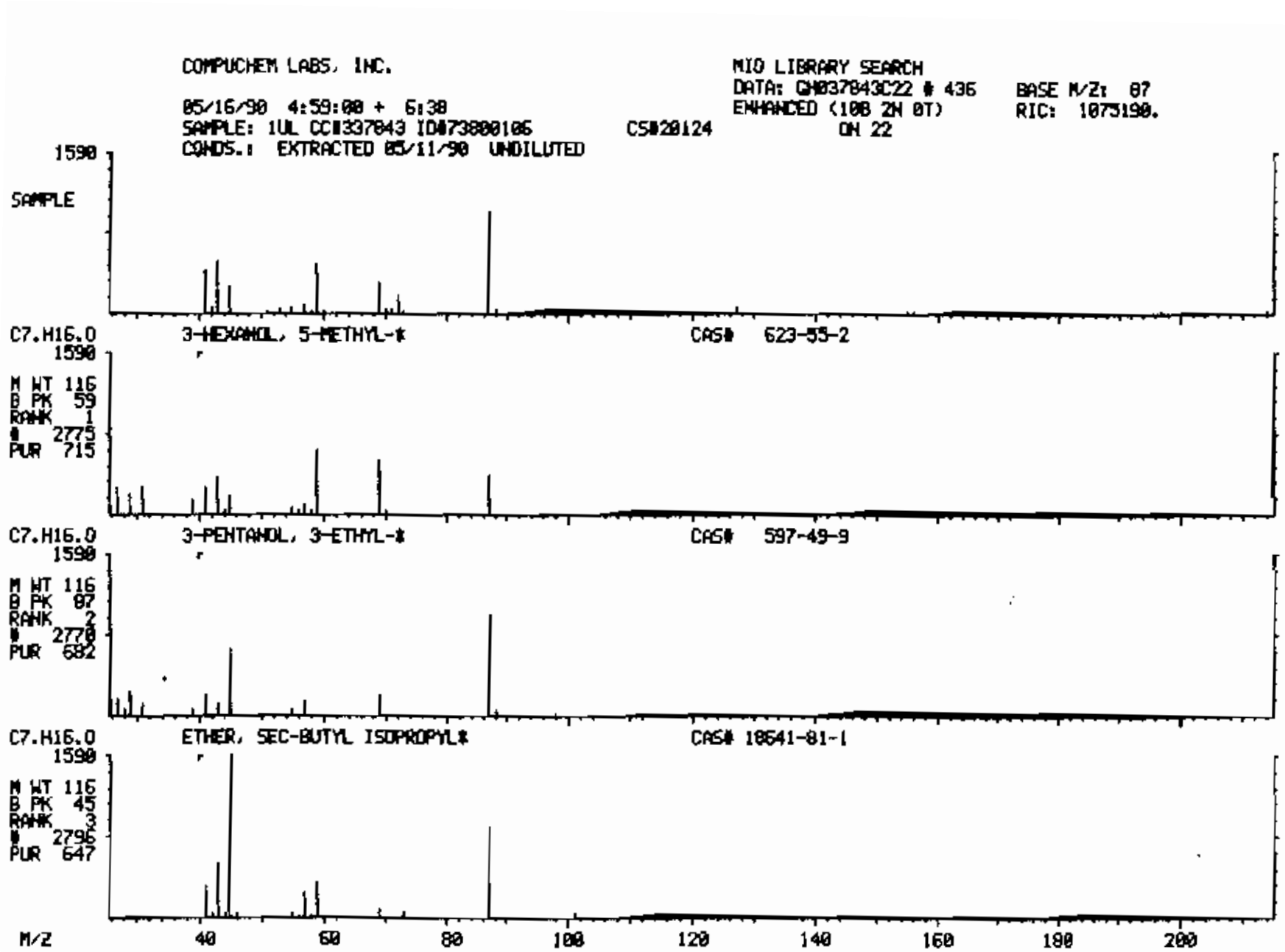
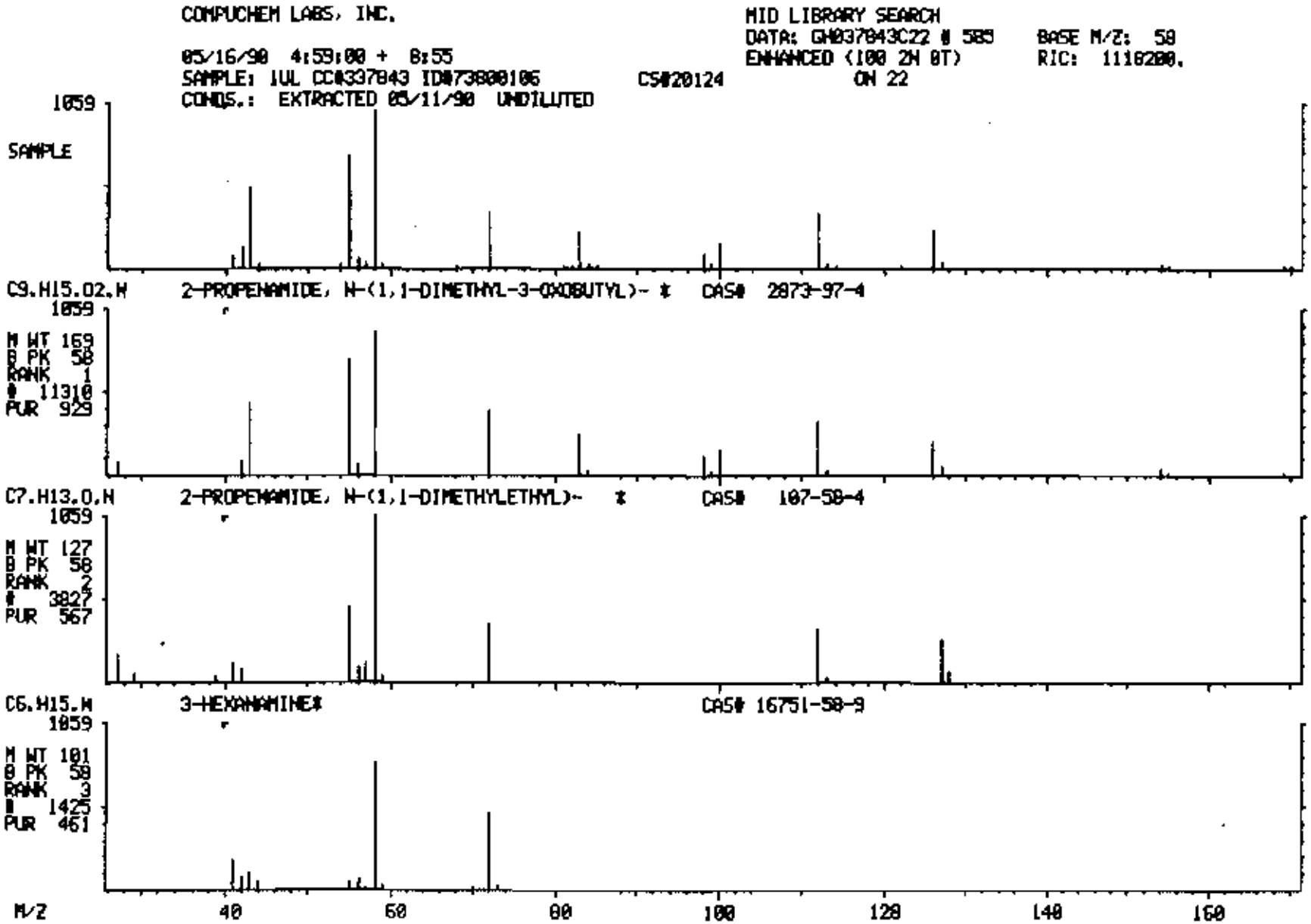
LIBRARY SEARCH
05/16/90 4:39:00 + 7:26
SAMPLE: IUL CC#337843 ID#73000106
CS#20124
DATA: GH#37843C22 # 488
ENHANCED (100 2N 0T)
ON 22
BASE M/E: 106
RIC: 29343.
1102
SAMPLE
C7.H10.N.CL
512 O-TOLUIDINE HYDROCHLORIDE (29#13)
1102
B PK 106
RANK 1
IN 29
PUR 685
SAMPLE MINUS LIBRARY
1102
0
-1102
M/E
40
50
60
70
80
90
100

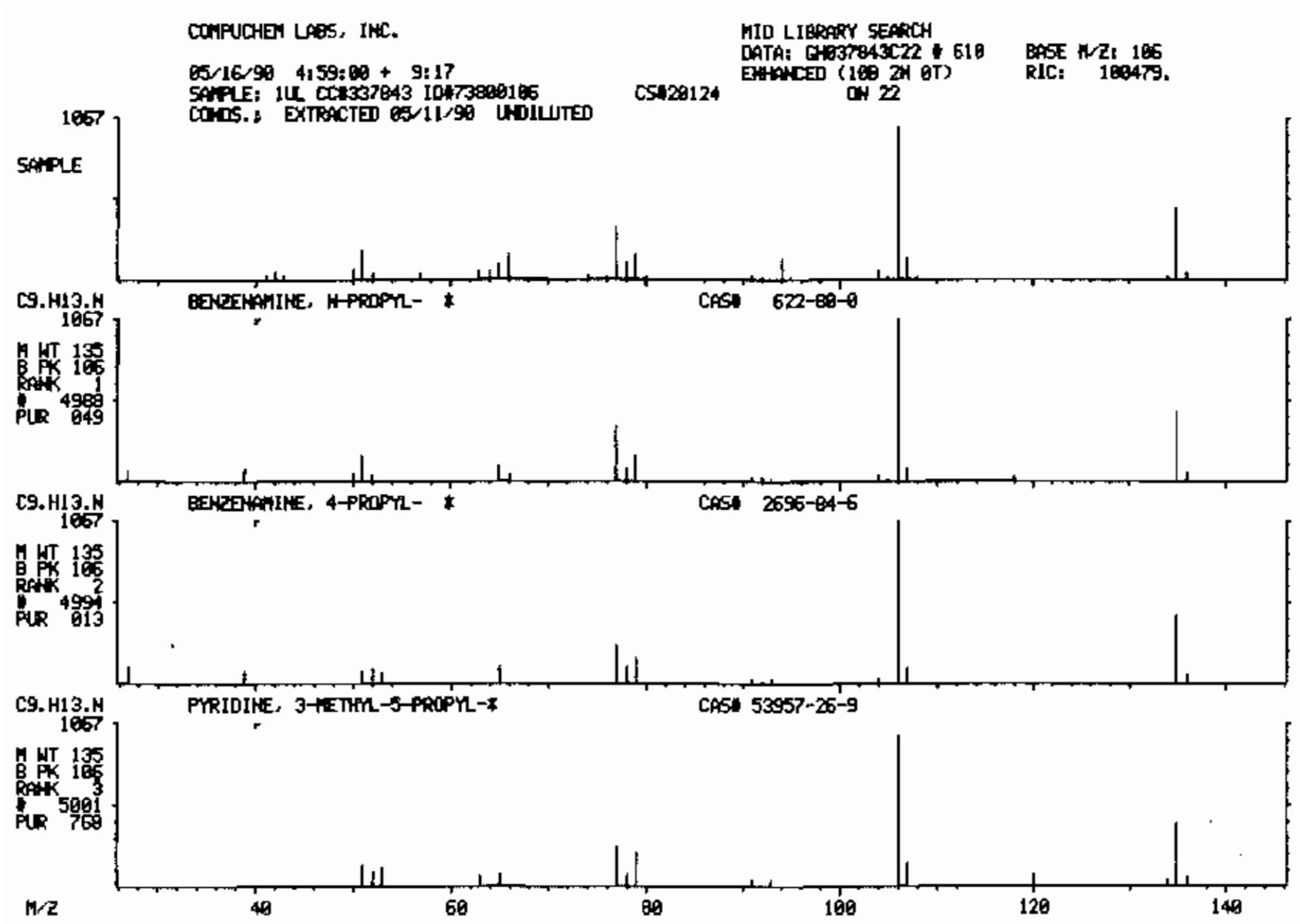

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/16/90 4:59:00 + 7:25
SAMPLE: 1UL CC#337843 ID#73000105
DATA: GH037843C22 #490
DATA: GH037843C22 #490 BASE M/E: 106/ 106
RIC: 32543./ 33407.
CS#20124 ON 22
SECOND SPECTRUM
512 O-TOLIDINE HYDROCHLORIDE (29013)
100.0
50.0
6784.
100.0
50.0
6784.
M/E
50
60
70
80
90
100





NYDEC RA090 0507 ORGANIC

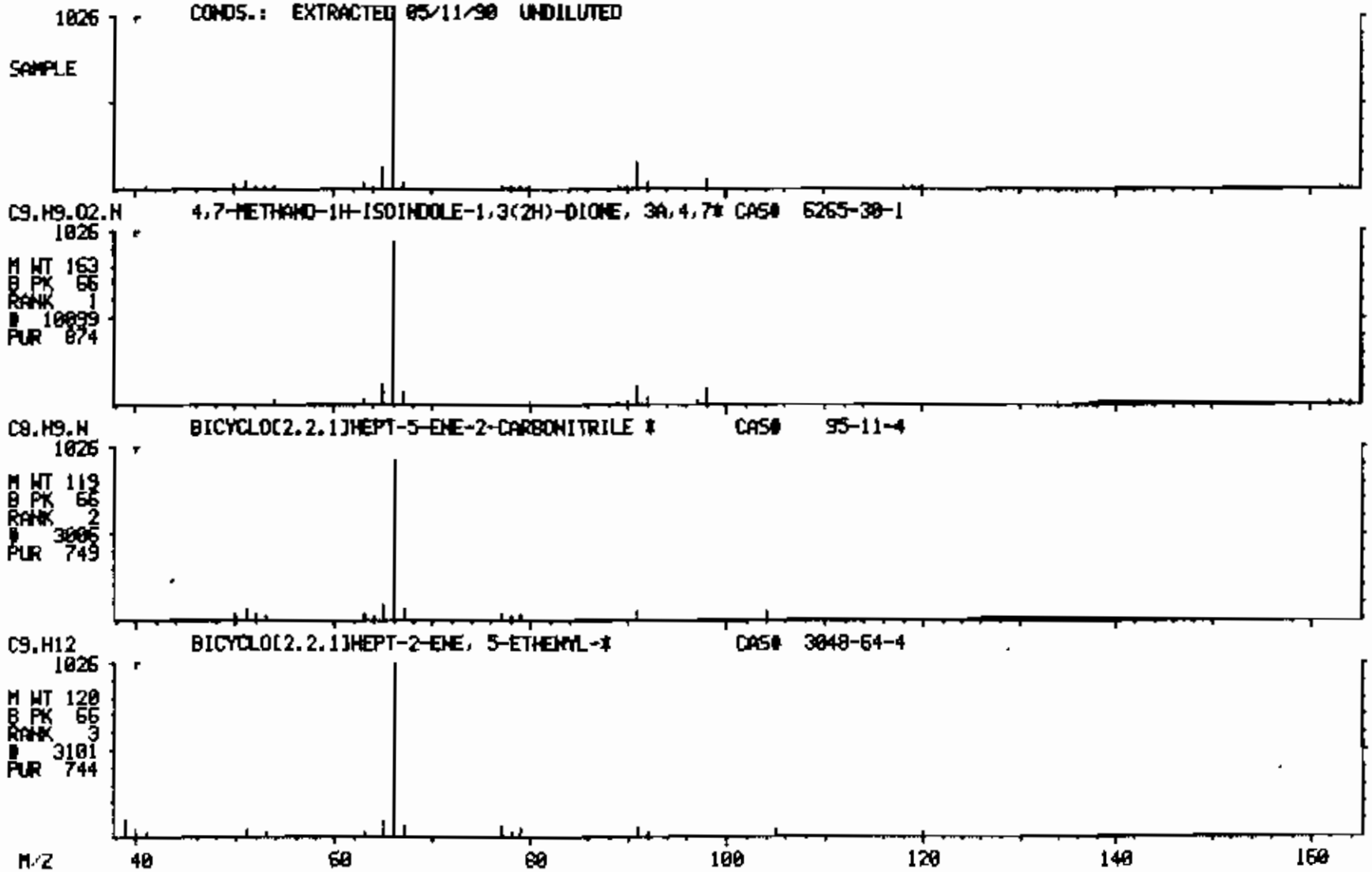

COMPUCHEM LABS, INC.
05/16/90 4:59:00 + 8:55
SAMPLE: IUL CC#337843 ID#73000106
CONDS.: EXTRACTED 05/11/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GH037843C22 # 585
ENHANCED (100 2N 0T)
ON 22
BASE M/Z: 58
RIC: 1116200.
1059
SAMPLE
C9.H15.02.N
2-PROPENAMIDE, N-(1,1-DIMETHYL-3-OXOBUTYL)- *
CAS# 2873-97-4
M WT 169
B PK 58
RANK 1
11310
PUR 929
C7.H13.O.N
2-PROPENAMIDE, N-(1,1-DIMETHYLETHYL)- *
CAS# 107-58-4
M WT 127
B PK 58
RANK 2
3827
PUR 567
C6.H15.N
3-HEXANAMINE*
CAS# 16751-58-9
M WT 101
B PK 58
RANK 3
1425
PUR 461
M/Z
40
60
80
100
120
140
160


COMPUCHEM LABS, INC.
05/16/90 4:59:00 + 9:17
SAMPLE: 1UL CC#337043 ID#73000106
COMDS.; EXTRACTED 05/11/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GH037043C22 # 610
ENHANCED (100 2M 0T)
ON 22
BASE M/Z: 106
RIC: 100479.
1067
SAMPLE
C9.H13.N
BENZENAMINE, N-PROPYL- *
CAS# 622-80-0
M WT 135
B PK 106
RANK 1
4988
PUR 049
C9.H13.N
BENZENAMINE, 4-PROPYL- *
CAS# 2696-84-6
M WT 135
B PK 106
RANK 2
4994
PUR 013
C9.H13.N
PYRIDINE, 3-METHYL-5-PROPYL-*
CAS# 53957-26-9
M WT 135
B PK 106
RANK 3
5001
PUR 769
M/Z
40
60
80
100
120
140

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037043C22 # 729 BASE M/Z: 66
ENHANCED (100 2N 0T) RIC: 279039.

05/16/90 4:59:00 + 11:06
SAMPLE: 1UL CC#337043 ID#73000106 CS#20124 ON 22
CONDS.: EXTRACTED 05/11/90 UNDILUTED



LAB INSTRUCTIONS:
SEE PPS#407 CASE#RA090 SDG#0507

PPS#: _____

MAST S-6

RECEIPT DATE: 05/09/90 CASE#: 20124

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 337843

J[ ] J3[ ] D[ ] (:1)
2J[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER;3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800106

GC/MS ANALYSIS -200-
Volumes mixed: BN _____ ul Acid _____ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date Sample Bottle Analyzed 5/11/90
DFTPP Filename DH90051UC22 Disk (90510)
Standard Filename DH90051UC22 Disk (/)
Sample Filename GH037843C22 Disk (/)

[redacted]

ANALYST(S): Injection WP Work-up 1545 1/11/91

GC/MS REVIEW

CONDITION CODE: AL

Disposition: [✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 5

# of Hits: 1

# of Surrogate Outliers: 3

Quality Assurance Notice(s):

Notices Required 0

COMMENTS:

#GC/MS Review [signature] Date 5/21/90 Auditor [signature] Date 5/21/90

REPORT INTEGRATION Total # of Injections: _____
Final Reportable Package(s): GR037843C22A06 / GH037843C22

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: CA Carl Hooker

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1787

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL.(ml) SV B/N	FINAL EXTRACT VOL.(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337842	-079	20124	73780 105			3/3	1000	1.0		13	1	* Use 500ml sample volume for 35 only
2	337843			73780 106			3/3	1000	1.0		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337844			73780 107			3/3	1000	1.0		13	1	Conc. to 0.5ml final volume
4	337845			73780 108			3/3	1000	1.0		13	1	add ml validation spike to B/N only
5	337846			73780 111			1/3	1000	1.0		13	1	
6	337847			73780 112			7/9	1000	1.0		13	1	
7	337848			73780 110			1/3	1000	1.0		13	1	
8	337849			73780 109			2/3	1000	1.0		13	1	
9	337850		↓	73780 113			1/3	1000	1.0		13	1	
10	336310R		19698	8080 56000			3/3	1000ml	1.0		13	1	*
11													
12													
13	338347	↓		SBLK 86	B1			1000ml	1.0		13	1	

		B-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0 ml				
	LOT	31922				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

MANUAL COUNTER 510/889

FINAL VOLUME VERIFIED Ca.DA Hooker

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5-11-90

SURROGATE & SPIKE ADDED CORRECTLY A.W. 5-11-90 (INT / DATE)

ISSUED BY:

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IB#4)	847	322000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	30
443	169		N-NITROSODIPHENYLAMINE (G4B				BDL	10
967	169		DIPHENYLAMINE (F3#3)				BDL	10
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	20
539	108		PHENACETIN (Z9#42)				BDL	10
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	10
577	234		DIALLATE (TRANS ISOMER)				BDL	10
541	125		DIMETHOATE (Z9#44)				BDL	10
433	284		HEXACHLOROBENZENE (G4#5)				BDL	10
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	10
522	173		PRONAMIDE (Z9#46)				BDL	10
609	266		PENTACHLOROPHENOL (G4#6)				BDL	20
453	237		PENTACHLORONITROBENZENE (Z9				BDL	10
444	178		PHENANTHRENE (G4#7)				BDL	10
403	178		ANTHRACENE (G4#8)				BDL	10
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	10
316	97		METHAPYRILENE (Z9#48)				BDL	20
349	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	50
431	202		FLUORANTHENE (G4B10)				BDL	10
459	240	I	D12-CHRYSENE (IB#5)	1090	160000	40.0		
404	184		BENZIDINE (G5#2)				BDL	10
445	202		PYRENE (G5#3)				BDL	10
530	185		ARAMITE (Z9#50)			30	30 BDL	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
323	139		CHLOROBENZILATE (Z9#52)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (G5B				BDL	10
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	10
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	10
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	10
418	228		CHRYSENE (G5#8)				BDL	10
497	264	I	D10-PERYLENE (IB#6)	1298	99600	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	10
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	10
406	252		BENZO(A)PYRENE (G6#5)				BDL	10
565	268		3-METHYLCHLORANTHRENE (P6#2				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-21-96

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	10
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	10
408	276		BENZO(G,H,I)PERYLENE (G6#B)				BDL	10
576	234		DIALLATE (CIS ISOMER)				BDL	10
531	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS:								
10115.				3235	591600.	123.0		3.

CORRECTED/REVIEWED BY _____
(QC/MB DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ ML}{1000.\ ML} \times 1.0ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-21-90

COMPUCHEM # 037843 FILE: GH037843C22 COMPOUND LIST 170 PAGE 1

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (1B0	456	146000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	10
481	79		PYRIDINE (Z9#1)				BDL	10
509	69		ETHYLMATHACRYLATE (Z9#2)				BDL	10
542	89		PARALDEHYDE (Z9#3)				BDL	10
510	93		2-PICOLINE (Z9#56)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (G1#3)				BDL	10
473	93		ANILINE (G1#4)				BDL	10
505	167		PENTACHLOROETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20
601	128		2-CHLOROPHENOL (G1#6)				BDL	10
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	10
474	108		BENZYL ALCOHOL (G1#9)				BDL	10
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	10
620	108		2-METHYLPHENOL (G1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (G1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (			1.3	1J	10
436	117		HEXACHLOROETHANE (G1#15)				BDL	10
460	136	I	DB-NAPHTHALENE (1B#2)	563	511000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	10
502	114		N-NITROSOPIPERIDINE				BDL	10
438	82		ISOPHORONE (G2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	10
606	139		2-NITROPHENOL (G2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (G2#5)				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	10
439	128		NAPHTHALENE (G2#9)				BDL	10

CORRECTED/REVIEWED BY L. Hall
(QC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (G2#10)				BDL	10
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	20
524	108		O-PHENYLENEDIAMINE (Z9#19)			31.7	~~BDL~~ 31.7	10
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	10
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	10
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	10
450	180		1,2,3-TRICHLOROBENZIENE (Z9#				BDL	10
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (G2#12)				BDL	10
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	10
503	162		SAFROLE (Z9#27)				BDL	10
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	10
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	10
495	164	I	D10-ACENAPHTHENE (IS#3)	717	249000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
435	237		HEXACHLORDCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	20
527	162		ISOSAFROLE (Z9#30)				BDL	20
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	10
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	10
478	65		2-NITROANILINE (G3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (Z9B32)				BDL	20
491	168		1,4-DINITROBENZENE (F3#2)				BDL	20
425	163		DIMETHYL PHTHALATE (G3#7)				BDL	10
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	10
402	152		ACENAPHTHYLENE (G3#8)				BDL	10
479	138		3-NITROANILINE (G3#9)				BDL	20
401	153		ACENAPHTHENE (G3B10)				BDL	10
605	184		2,4-DINITROPHENOL (G3#11)				BDL	40
607	109		4-NITROPHENOL (G3#12)				BDL	10
427	165		2,4-DINITROTOLUENE (G3#14)				BDL	10
476	168		DIBENZOFURAN (G3#13)				BDL	10
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	10
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	20
493	143		1-NAPHTHYLAMINE (Z9#36)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (G3#16)				BDL	10
919	97		ZINOPHOS (Z9#38)				BDL	10

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	10
432	166		FLUORENE (G3#18)				BDL	10
480	138		4-NITROANILINE (G3#19)				BDL	20
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	20
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	10
467	188	I	D10-PHENANTHRENE (I8#4)	847	322000	40.0		
459	240	I	D12-CHRYSENE (I8#5)	1090	160000	40.0		
497	264	I	D10-PERYLENE (I8#6)	1298	99600	40.0		
619	112	B	2-FLUOROPHENOL (BS#1)			1.4	1.%	
612	99	B	D5-PHENOL (SS#2)			0.0	0.%	
447	82	B	D5-NITROBENZENE (SS#3)			67.2	67.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			69.7	70.%	
628	330	B	2,4,6-TRIBROMOPHENOL (SS#5)			8.6	4.%	
471	212	S	D10-PYRENE (SS#6)			83.4	83.%	
496	244	S	D14-TERPHENYL (SS#7)			82.8	83.%	
CHECKSUMS:								
	14270.			4971	1487600.	606.1		53.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	1.4	200.0	1.	21-100		X
96	612	D5-PHENOL (SS#2)	NOT FOUND			10- 94		X
97	447	D5-NITROBENZENE (SS#3)	67.2	100.0	67.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	69.7	100.0	70.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	8.6	200.0	4.	10-123		X
*1	471	D10-PYRENE (SS#6)	83.4	100.0	83.	40-130*	X	
*1	496	D14-TERPHENYL (SS#7)	82.8	100.0	83.	33-141	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ ML}{1000.\ ML} \times 1.0ML \times 1.0 \times 1 = 1.000$$

GUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ UL}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000\ UL}{1000\ UL} \times 1.0ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY S. Hewett
(QC/MS DATA REVIEWER)

DATE 5-21-90

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800106RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337843

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR017843A06

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	4	J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	11	J
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800106RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337843

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037843A06

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0---------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0---------Pyrene	10	U
140-57-8---------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6---------Chlorobenzilate	10	U
119-93-7---------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4---------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4---------3,3'-Dimethoxybenzidine	10	U
56-55-3---------Benzo(a)Anthracene	10	U
218-01-9---------Chrysene	10	U
117-81-7---------bis(2-Ethylhexyl)Phthalate	1	J
117-84-0---------Di-n-Octyl Phthalate	10	U
205-99-2---------Benzo(b)Fluoranthene	10	U
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9---------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0---------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800106RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Caee No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337843

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037843A06

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/17/90

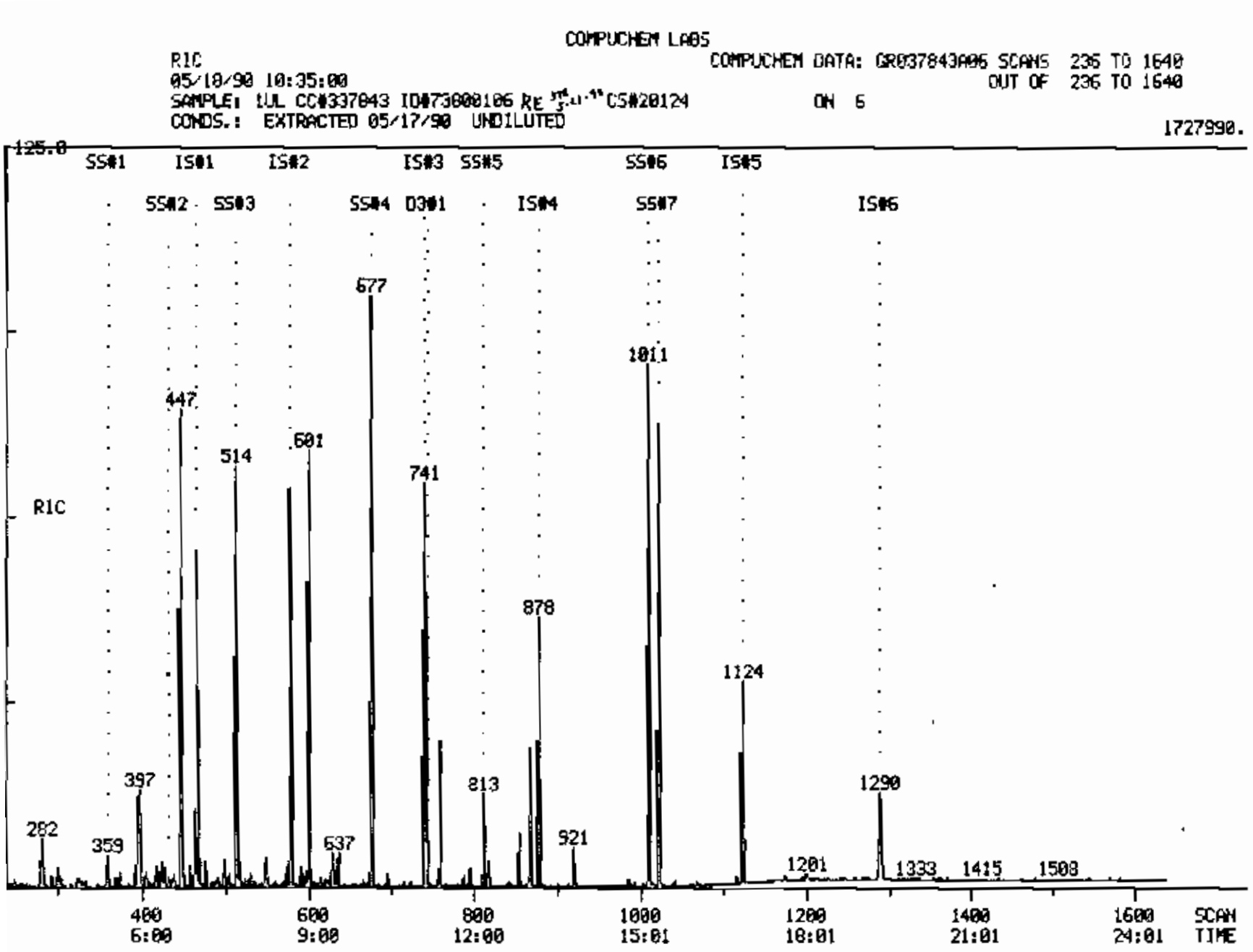
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 7

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.22	8.0	J
2.		UNKNOWN	5.95	26	J
3.		UNKNOWN	6.70	55	J
4.	6265-30-1	4,7-METHANO-1H-ISOINDOLE-1,3	11.40	10	J
5.		UNKNOWN	12.82	6.0	J
6.		UNKNOWN	13.02	28	J
7.	57-10-3	HEXADECANOIC ACID	13.80	4.0	J



NYDEC RA090 0507 ORGANIC

901

QUANTITATION REPORT FILE: GR037843A06
DATA: GR037843A06.TI
05/18/90 10:35:00
SAMPLE: 1UL CC#337843 IO#73800106 RE 30 ug/ml CS#20124 ON 6
CONDS.: EXTRACTED 05/17/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 1591

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (Q1#3) <108-95-2>
12	473 ANILINE (Q1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) C111-44-4>
15	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
19	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
21	620 2-METHYLPHENOL (Q1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (Q1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (I8#2)
32	440 NITROBENZENE (Q1#16) <98-95-3>
33	502 N-NITROSODIPIPERIDINE (Z9#14)
34	430 ISOPHORONE (Q2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
36	606 2-NITROPHENOL (Q2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (Q2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
43	439 NAPHTHALENE (Q2#9) <91-20-3>
44	475 4-CHLOROANILINE (Q2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA, ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	606 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (Q3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
74	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
75	479 3-NITROANILINE (Q3#9) <99-09-2>
76	401 ACENAPHTHENE (Q3#10) <83-32-9>
77	@605 2,4-DINITROPHENOL (Q3#11) <51-28-4>
78	607 4-NITROPHENOL (Q3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
80	476 DIBENZOFURAN (Q3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>
88	432 FLUORENE (Q3#18) <86-73-7>
89	480 4-NITROANILINE (Q3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D12-PERYLENE
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE
101	#496 D14-TERPHENYL (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	467	7:01	1	1.000	A BB	168036.	40.000 NG	6.04
2	42	NOT FOUND							
3	79	NOT FOUND							
4	69	NOT FOUND							
5	89	NOT FOUND							
6	93	NOT FOUND							
7	88	NOT FOUND							
8	80	NOT FOUND							
9	102	NOT FOUND							
10	109	NOT FOUND							
11	94	NOT FOUND							
12	93	NOT FOUND							
13	167	NOT FOUND							
14	93	NOT FOUND							
15	128	447	6:43	1	0.957	A BB	18792.	2.423 NG	0.37 NO
16	146	NOT FOUND							
17	91	NOT FOUND							
18	146	NOT FOUND							
19	108	NOT FOUND							
20	146	NOT FOUND							
21	108	NOT FOUND							
22	45	NOT FOUND							
23	108	NOT FOUND							
24	108	NOT FOUND							
25	100	NOT FOUND							
26	116	NOT FOUND							
27	105	NOT FOUND							
28	70	NOT FOUND							
29	106	499	7:29	1	1.069	A BB	34708.	4.193 NG	0.63 Y
30	117	NOT FOUND							
31	136	579	8:41	31	1.000	A BB	544172.	40.000 NG	6.04
32	77	NOT FOUND							
33	114	NOT FOUND							
34	82	NOT FOUND							
35	107	NOT FOUND							
36	139	NOT FOUND							
37	160	NOT FOUND							
38	125	NOT FOUND							
39	122	549	8:14	31	0.948	A BB	31788.	10.741 NG	1.62 Y
40	93	NOT FOUND							
41	162	NOT FOUND							
42	180	NOT FOUND							
43	128	NOT FOUND							
44	127	NOT FOUND							
45	162	NOT FOUND							
46	108	579	8:41	31	1.000	A BB	77872.	50.078 NG	7.56 NO
47	91	NOT FOUND							
48	213	NOT FOUND							
49	225	NOT FOUND							
50	180	NOT FOUND							
51	159	NOT FOUND							
52	84	614	9:13	31	1.060	A*BB	11412.	4.191 NG	0.63 NO
53	107	NOT FOUND							
54	108	NOT FOUND							
55	162	NOT FOUND							
56	108	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	741	11:07	59	1.000	A BB	270776.	40.000	NG	6.04
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	158	678	13:11	92	1.000	A BB	372520.	40.000	NG	6.04
93	240	1124	16:52	93	1.000	A BB	261896.	40.000	NG	6.04
94	264	1290	19:22	94	1.000	A BB	194228.	40.000	NG	6.04
95	112	359	5:23	1	0.769	A BB	21120.	3.021	NG	0.46
96	99	432	6:29	1	0.925	A BB	17668.	2.254	NG	0.34
97	82	514	7:43	31	0.886	A BB	499680.	68.025	NG	10.27
98	172	677	10:10	59	0.914	A BB	663312.	78.326	NG	11.83
99	330	813	12:12	59	1.097	A BB	29304.	19.615	NG	2.96
100	212	1011	15:10	93	0.899	A BV	775515.	88.384	NG	13.34
101	244	1023	15:21	93	0.910	A BB	602288.	91.154	NG	13.76

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:02	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:47		10.000			50.00		0.739	
3	3:48		10.000			50.00		1.387	
4	4:21		10.000			50.00		1.417	
5	4:19		10.000			50.00		0.347	
6	4:45		20.000			50.00		1.494	
7	4:53		10.000			50.00		1.576	
8	5:13		10.000			50.00		0.953	
9	5:42		10.000			50.00		0.828	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:04		10.000			50.00		0.919	
11	6:33		10.000			50.00		2.028	
12	6:37		10.000			50.00		2.460	
13	6:42		10.000			50.00		0.625	
14	6:41		20.000			50.00		1.874	
15	6:46	0.99	10.000	0.10	2.42	50.00	0.089	1.846	0.05
16	6:59		10.000			50.00		1.839	
17	7:02		10.000			50.00		3.265	
18	7:04		10.000			50.00		1.761	
19	7:11		10.000			50.00		0.996	
20	7:16		10.000			50.00		1.755	
21	7:19		10.000			50.00		1.459	
22	7:22		10.000			50.00		1.748	
23	7:31		10.000			100.00		1.260	
24	7:31		10.000			100.00		1.260	
25	7:32		10.000			50.00		0.821	
26	7:35		10.000			50.00		0.476	
27	7:33		10.000			50.00		2.221	
28	7:33		10.000			50.00		1.166	
29	7:36	0.99	10.000	0.11	4.19	50.00	0.165	1.970	0.08
30	7:43		10.000			50.00		1.036	
31	8:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:47		10.000			50.00		0.534	
33	7:59		10.000			50.00		0.225	
34	8:05		10.000			50.00		0.944	
35	8:14		10.000			50.00		0.440	
36	8:12		10.000			50.00		0.239	
37	8:13		10.000			50.00		0.339	
38	8:15		10.000			50.00		0.727	
39	8:20	0.99	100.000	0.01	10.74	50.00	0.047	0.218	0.21
40	8:22		10.000			50.00		0.559	
41	8:31		10.000			50.00		0.315	
42	8:38		10.000			50.00		0.341	
43	8:45		10.000			50.00		1.218	
44	8:48		10.000			50.00		0.661	
45	8:49		20.000			50.00		0.334	
46	8:43	1.00	10.000	0.10	50.08	50.00	0.114	0.114	1.00
47	9:06		10.000			50.00		0.057	
48	8:52		10.000			50.00		0.198	
49	8:54		10.000			50.00		0.190	
50	8:57		10.000			50.00		0.326	
51	9:01		20.000			50.00		0.426	
52	9:14	1.00	10.000	0.11	4.19	50.00	0.017	0.200	0.08
53	9:26		10.000			50.00		0.435	
54	9:26		10.000			50.00		0.038	
55	9:33		10.000			50.00		0.253	
56	9:33		10.000			50.00		0.003	
57	9:42		10.000			50.00		0.853	
58	9:50		10.000			50.00		0.502	
59	11:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:55		10.000			100.00		0.601	
61	9:55		10.000			100.00		0.601	
62	9:54		10.000			50.00		0.339	
63	10:03		20.000			50.00		0.415	
64	10:07		20.000			50.00		0.417	
65	10:16		20.000			50.00		0.514	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:22		10.000			50.00		1.441	
67	10:25		10.000			50.00		1.170	
68	10:19		10.000			50.00		0.594	
69	10:29		10.000			50.00		0.545	
70	10:37		20.000			50.00		0.513	
71	10:40		20.000			50.00		0.278	
72	10:43		10.000			50.00		1.552	
73	10:49		10.000			50.00		0.393	
74	10:57		10.000			50.00		1.901	
75	11:04		20.000			50.00		0.424	
76	11:12		10.000			50.00		1.153	
77	11:13		40.000			50.00		0.149	
78	11:15		10.000			50.00		0.304	
79	11:23		10.000			50.00		0.478	
80	11:26		10.000			50.00		1.679	
81	11:29		10.000			50.00		0.527	
82	11:33		20.000			50.00		0.825	
83	11:39		20.000			50.00		0.870	
84	11:35		20.000			50.00		0.270	
85	11:42		10.000			50.00		1.776	
86	11:49		10.000			50.00		0.524	
87	11:52		10.000			50.00		0.511	
88	11:54		10.000			50.00		1.196	
89	11:55		20.000			50.00		0.406	
90	11:54		20.000			50.00		0.453	
91	12:07		10.000			50.00		2.581	
92	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:25	0.99	0.742	1.04	3.02	50.00	0.101	1.664	0.06
96	6:32	0.99	0.948	0.98	2.25	50.00	0.084	1.866	0.05
97	7:46	0.99	0.875	1.01	68.02	50.00	0.735	0.540	1.36
98	10:11	1.00	0.906	1.01	78.33	50.00	1.960	1.251	1.57
99	12:14	1.00	1.118	0.98	19.61	50.00	0.087	0.221	0.39
100	15:12	1.00	10.000	0.09	88.38	50.00	2.369	1.340	1.77
101	15:20	1.00	0.907	1.00	91.15	50.00	1.840	1.009	1.82

```
QUANTITATION REPORT     FILE: GR037843A06
DATA: GR037843A06.TI
05/18/90 10:35:00
SAMPLE: 1UL CC#337843 ID#738001D6 AE 7/7/90  CS#20124              ON  6
CONDS.:   EXTRACTED 05/17/90  UNDILUTED
SUBMITTED BY:       6        ANALYST:      1591

AMOUNT=AREA * REF. AMNT/(REF. ARE4)* RESP. FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 ND   NAME
  1   *467 D10-PHENANTHRENE (IS#4)
  2   604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
  3   440 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
  4   567 DIPHENYLAMINE (F3#3)
  5   508 1,3,5-TRINITROBENZENE (Z9#41)
  6   539 PHENACETIN (Z9#42) <63-44-2>
  7   414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
  8   577 DIALLATE (TRANS ISOMER)
  9   541 OIMETHOATE (Z9#44)
 10   433 HEXACHLOROBENZENE (D4#5) <118-74-1>
 11   485 4-AMINOBIPHENYL (Z9#45)
 12   522 PRONAMIDE (Z9#46)
 13   609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
 14   453 PENTACHLORONITROBENZENE (Z9#47)
 15   444 PHENANTHRENE (Q4#7) <85-01-8>
 16   403 ANTHRACENE (Q4#8) <120-12-7>
 17   426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
 18   516 METHAPYRILENE (Z9#48)
 19   549 CYCLOPHOSPHAMIDE (Z9#49)
 20   431 FLUORANTHENE (Q4#10) <206-44-0>
 21   *459 D12-CHRYSENE (IS#5)
 22   404 BENZIDINE (Q5#2) <92-87-5>
 23   445 PYRENE (Q5#3) <129-00-0>
 24   530 ARAMITE (Z9#50) <140-57-4>
 25   487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26   523 CHLOROBENZILATE (Z9#52)
 27   545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28   415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
 29   488 2-ACETYLAMINO FLUORENE (F5#2)
 30   489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31   423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
 32   533 DIMETHOXYBENZIDINE (Z9#57)
 33   413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
 34   405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
 35   416 CHRYSENE (Q5#8) <218-01-9>
 36   *497 D12-PERYLENE
 37   429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
 38   407 BENZO(B)FLUORANTHENE (D6#3) <205-99-2>
 39   517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40   409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
 41   406 BENZO(A)PYRENE (Q6#5) <50-32-8>
 42   565 3-METHYLCHLORANTHRENE (F6#2)
 43   566 DIBENZO(A,J)ACRIDINE
 44   437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
 45   419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
 46   408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
```

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	188	878	13:11	1	1.000	A BB	372520.	40.000 NG	33.04
2	198	NOT FOUND							
3	169	NOT FOUND							
4	169	NOT FOUND							
5	213	NOT FOUND							
6	108	NOT FOUND							
7	248	NOT FOUND							
8	234	NOT FOUND							
9	125	NOT FOUND							
10	264	NOT FOUND							
11	169	NOT FOUND							
12	173	NOT FOUND							
13	266	NOT FOUND							
14	237	NOT FOUND							
15	178	NOT FOUND							
16	178	NOT FOUND							
17	149	NOT FOUND							
18	97	NOT FOUND							
19	211	NOT FOUND							
20	202	NOT FOUND							
21	240	1124	16:52	21	1.000	A BB	261896.	40.000 NG	33.04
22	184	NOT FOUND							
23	202	NOT FOUND							
24	185	NOT FOUND							
25	225	NOT FOUND							
26	139	NOT FOUND							
27	212	NOT FOUND							
28	149	NOT FOUND							
29	181	NOT FOUND							
30	231	NOT FOUND							
31	252	NOT FOUND							
32	244	NOT FOUND							
33	149	1117	16:46	21	0.994	A BB	11440.	1.090 NG	0.90 Y
34	228	NOT FOUND							
35	228	NOT FOUND							
36	264	1290	19:22	36	1.000	A BB	194228.	40.000 NG	33.04
37	149	NOT FOUND							
38	252	NOT FOUND							
39	256	NOT FOUND							
40	252	NOT FOUND							
41	252	NOT FOUND							
42	268	NOT FOUND							
43	279	NOT FOUND							
44	276	NOT FOUND							
45	278	NOT FOUND							
46	276	NOT FOUND							
47	234	NOT FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00 ✓
2	11:57		30.000			90.00		0.152 ✓	
3	12:82		10.000			100.00		0.621	
4	12:02		10.000			100.00		0.621	

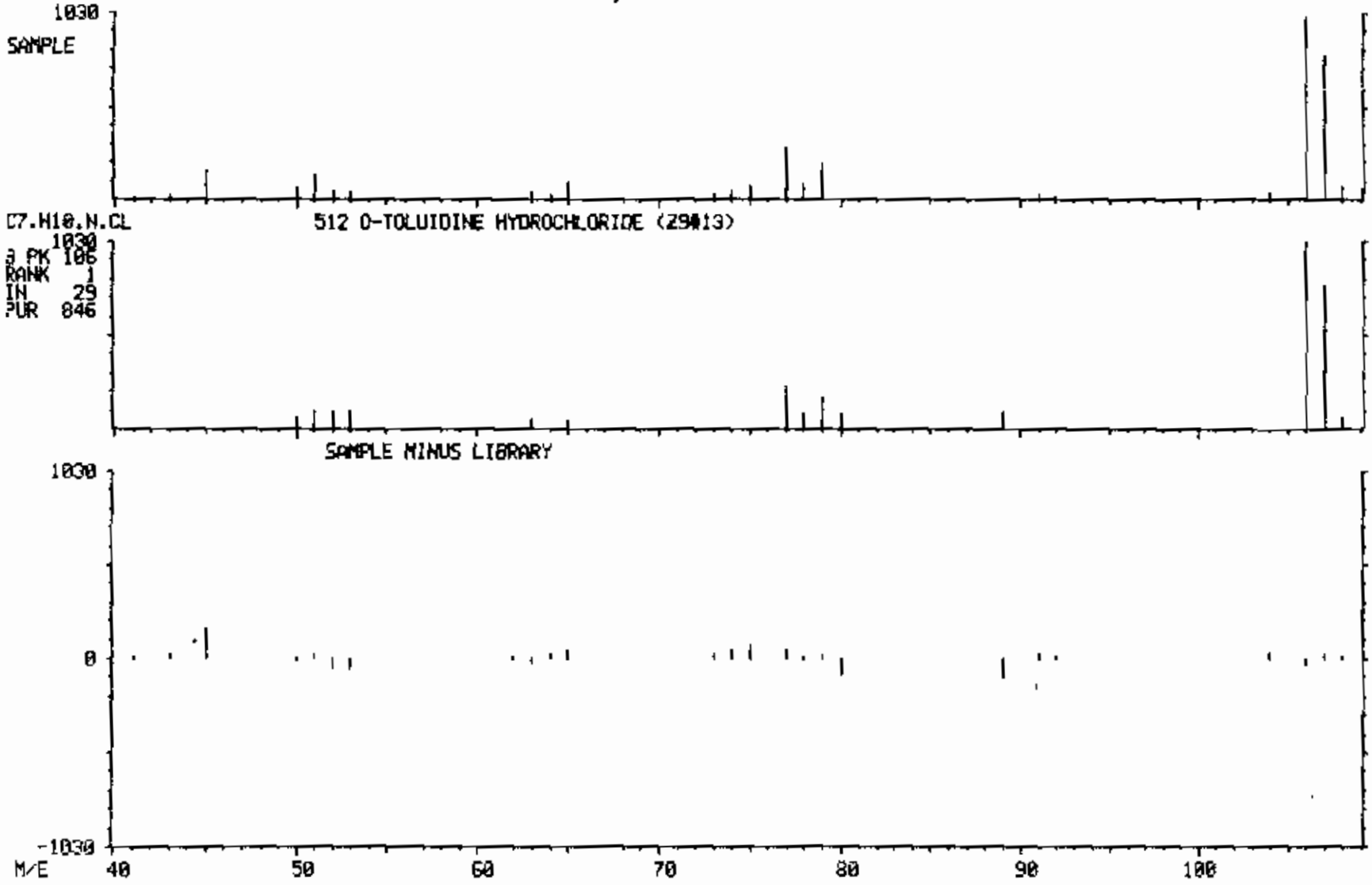
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:23		20.000			50.00		0.106	
6	12:27		10.000			50.00		0.653	
7	12:34		10.000			50.00		0.208	
8	12:25		10.000			25.00		0.123	
9	12:41		10.000			50.00		0.221	
10	12:40		10.000			50.00		0.326	
11	12:55		10.000			50.00		0.723	
12	12:58		10.000			50.00		0.453	
13	12:56		20.000			50.00		0.202	
14	12:57		10.000			50.00		0.113	
15	13:15		10.000			50.00		1.268	
16	13:20		10.000			50.00		1.289	
17	13:56		10.000			50.00		1.963	
18	14:23		20.000			50.00		0.491	
19	14:40		50.000			200.00		0.047	
20	14:54		10.000			50.00		1.185	
21	16:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	15:02		10.000			50.00		0.140	
23	15:14		10.000			50.00		1.461	
24	15:25		20.000			50.00		0.230	
25	15:35		10.000			50.00		0.261	
26	15:37		10.000			50.00		1.028	
27	16:03		20.000			50.00		0.425	
28	16:02		10.000			50.00		1.159	
29	16:25		10.000			50.00		0.527	
30	16:50		10.000			50.00		0.206	
31	16:50		10.000			50.00		0.298	
32	16:45		10.000			50.00		0.144	
33	16:49	1.00	10.000	0.10	1.09	50.00	0.035	1.604	0.02
34	16:55		10.000			50.00		1.162	
35	16:58		10.000			50.00		1.143	
36	19:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:46		10.000			50.00		3.641	
38	18:38		10.000			50.00		1.561	
39	18:36		10.000			50.00		0.545	
40	18:41		10.000			50.00		0.520	
41	19:19		10.000			50.00		1.191	
42	20:05		10.000			50.00		0.659	
43	21:40		10.000			50.00		0.812	
44	22:17		10.000			50.00		1.221	
45	22:19		10.000			50.00		1.110	
46	23:09		10.000			50.00		0.877	
47	12:33		10.000			25.00		0.172	

COMPUCHEM LABS

LIBRARY SEARCH
05/10/90 10:35:00 + 7:29
SAMPLE: 1UL CC#337843 ID#73000106 AE [illegible] CS#20124

DATA: GR037843A06 # 493
ENHANCED (10B 2N 0T)
ON 6

BASE M/E: 106
RIC: 56303.



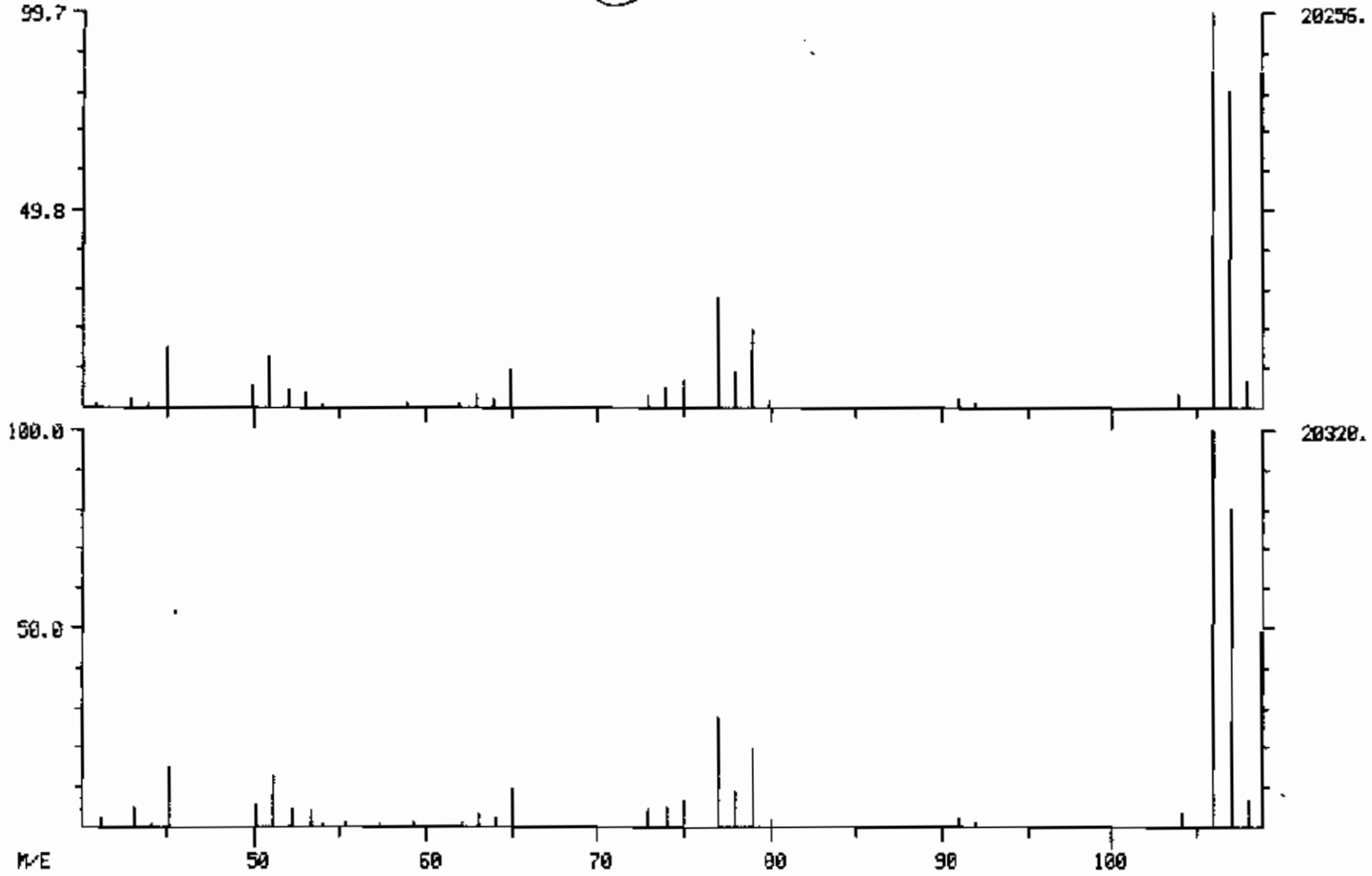
NYDEC RA090 0507 ORGANIC

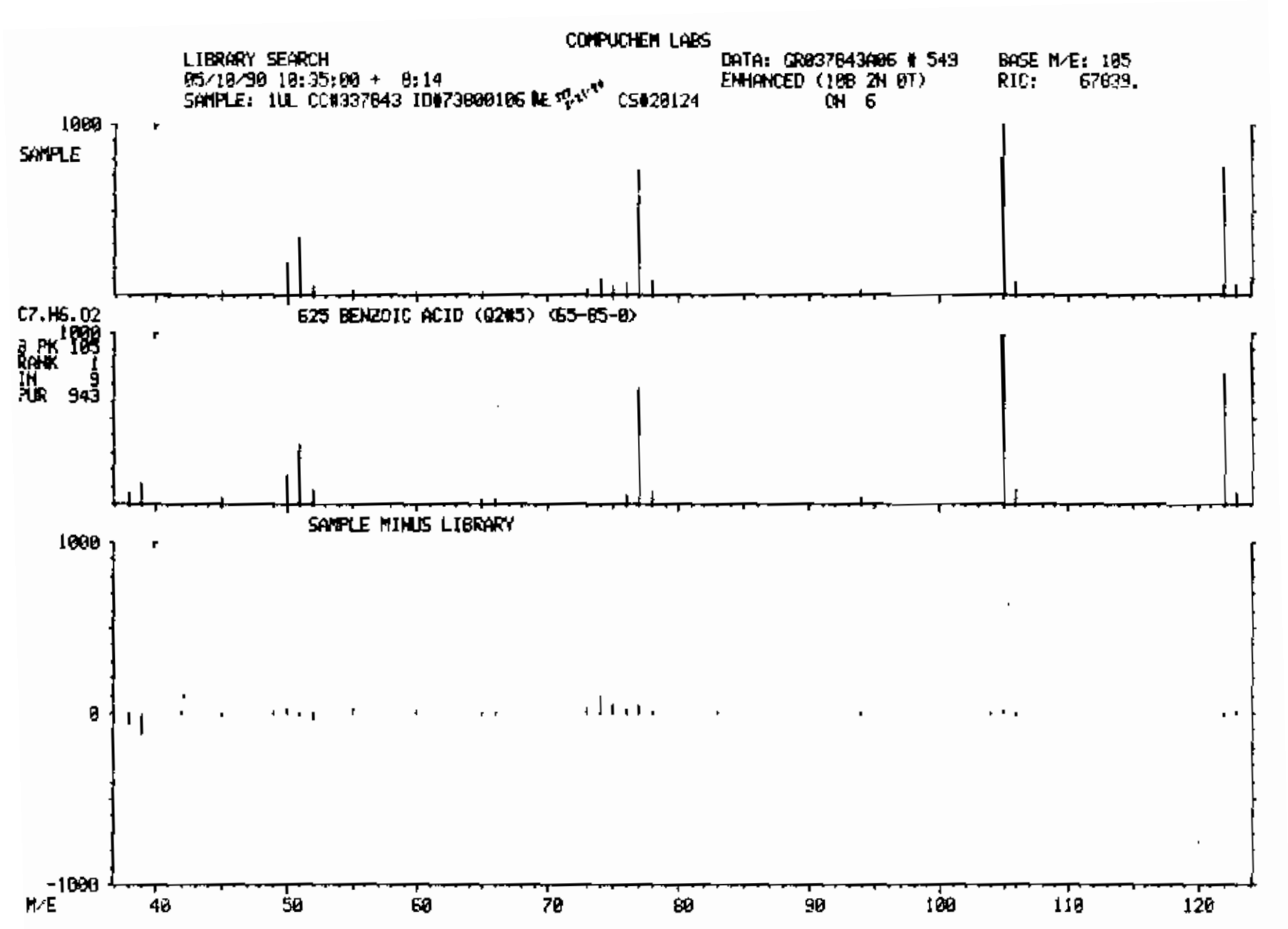
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/18/90 10:35:00 + 7:29
SAMPLE: 1UL CC#337843 ID#73800106 RE
DATA: GR037843A06 #499

DATA: GR037843A06 #499 BASE M/E: 106/ 106
RIC: 67583./ 69119.

SECOND SPECTRUM
CS#20124 ON 6
512 O-TOLUIDINE HYDROCHLORIDE (Z9M13)



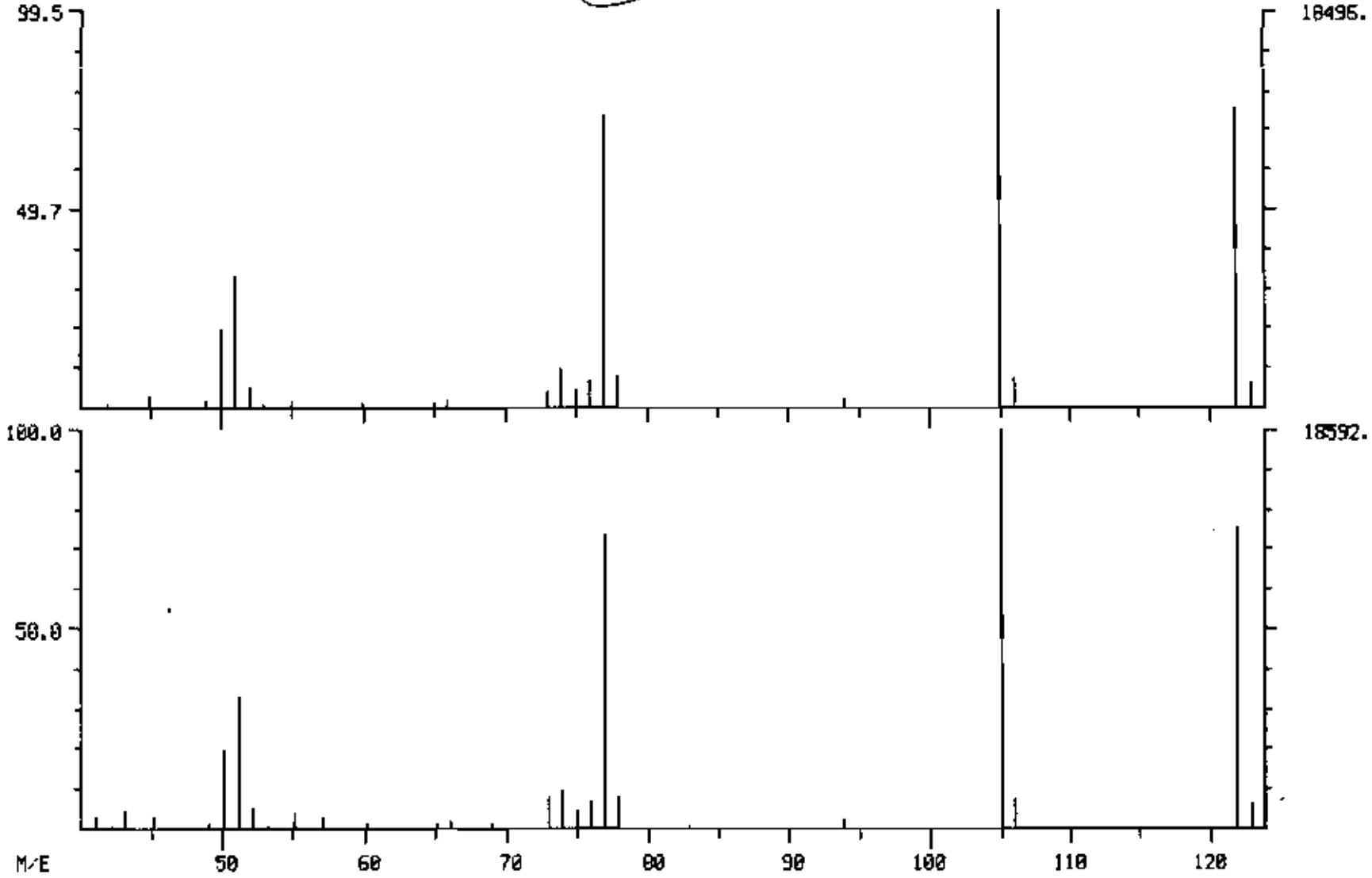

COMPUCHEM LABS
LIBRARY SEARCH
05/10/90 10:35:00 + 8:14
SAMPLE: 1UL CC#337843 ID#73000106
DATA: GR037843A06 # 543
ENHANCED (10B 2N 0T)
ON 6
BASE M/E: 105
RIC: 67639.
CS#20124
1000
SAMPLE
C7.H6.02
625 BENZOIC ACID (02#5) <65-85-0>
1000
PK 105
RANK 1
IN 9
UR 943
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
40
50
60
70
80
90
100
110
120

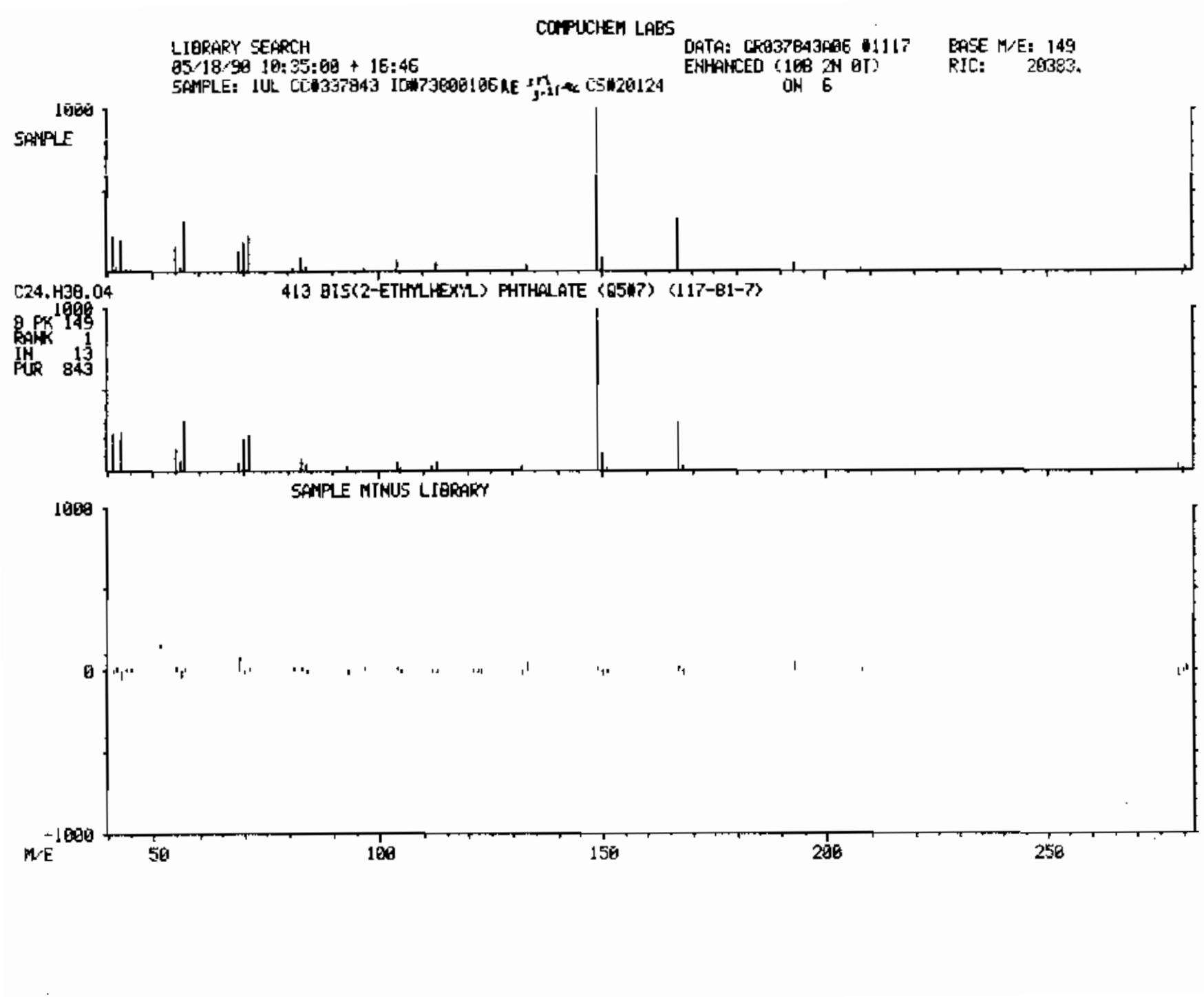
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/18/90 10:35:00 + 8:14
SAMPLE: 1UL CC#337843 ID#73000106 CS#20124 ON 6
DATA: GR037043A06 #549 625 BENZOIC ACID (Q2#5) (65-85-0)

DATA: GR037043A06 #549 BASE M/E: 105/ 105
RIC: 67967./ 71007.

SECOND SPECTRUM

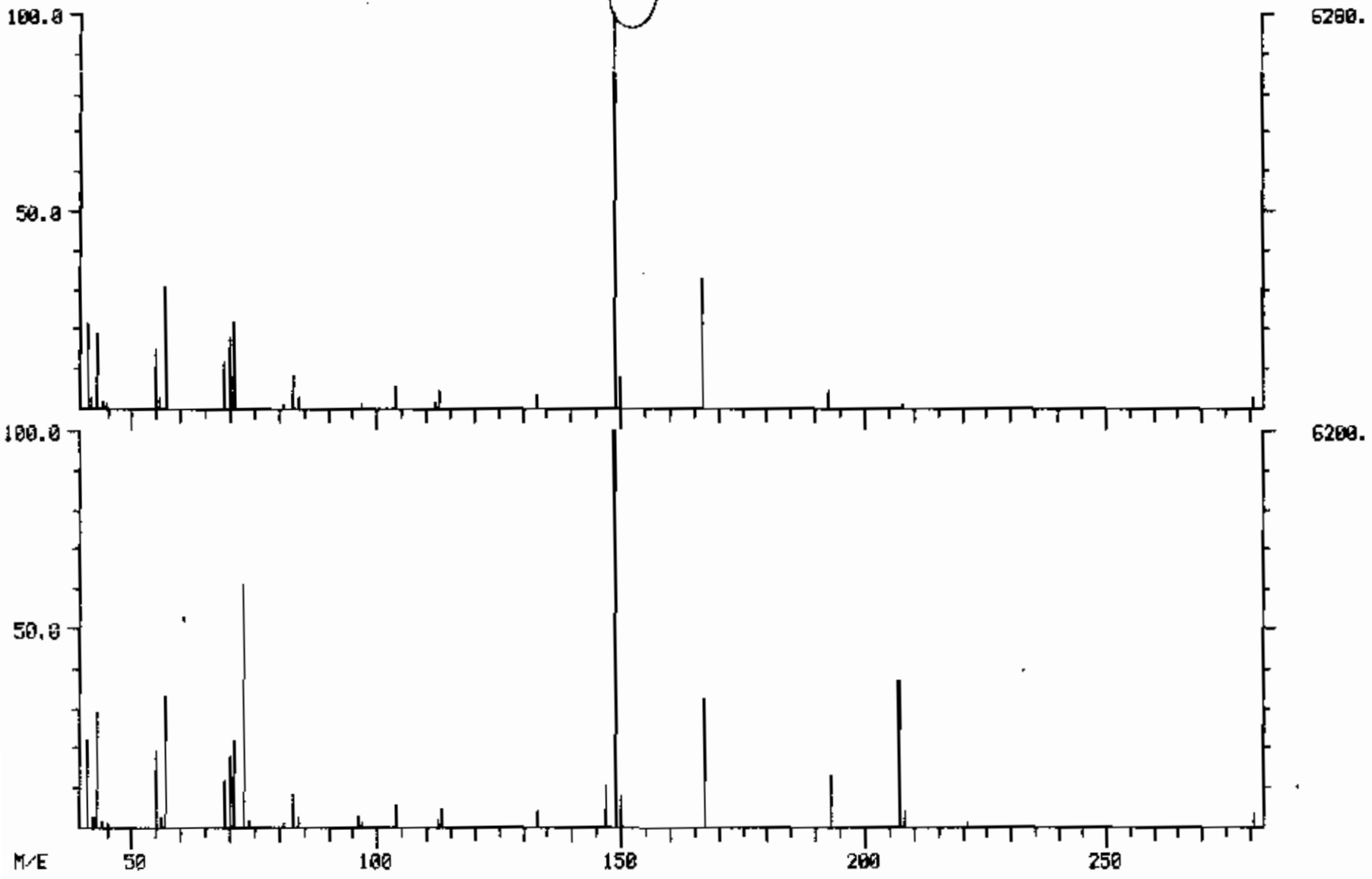



COMPUCHEM LABS
LIBRARY SEARCH
05/18/90 10:35:00 + 16:46
SAMPLE: 1UL CC#337843 ID#73000106
CS#20124
DATA: GR037843A06 #1117
ENHANCED (10B 2N 0T)
ON 6
BASE M/E: 149
RIC: 20383.
1000
SAMPLE
C24.H38.04
413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) (117-81-7)
1000
9 PK 149
RANK 1
IN 13
PUR 843
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250

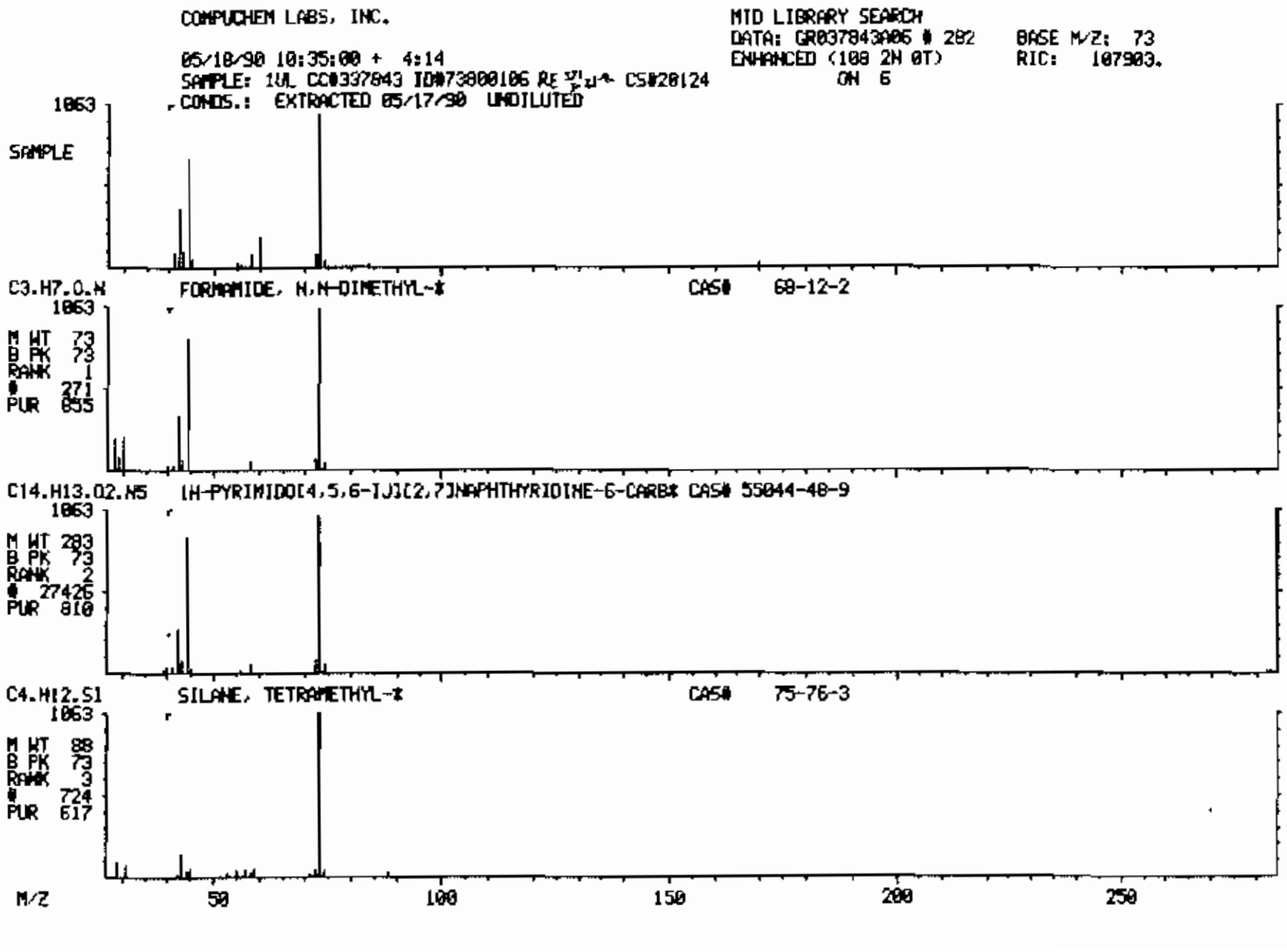
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/18/90 10:35:00 + 16:46
SAMPLE: 1UL CC#337843 ID#73800106 RE CS#20124 DM 6
DATA: GR037843A06 #1117 BASE M/E: 149/ 149
RIC: 20383./ 29471.

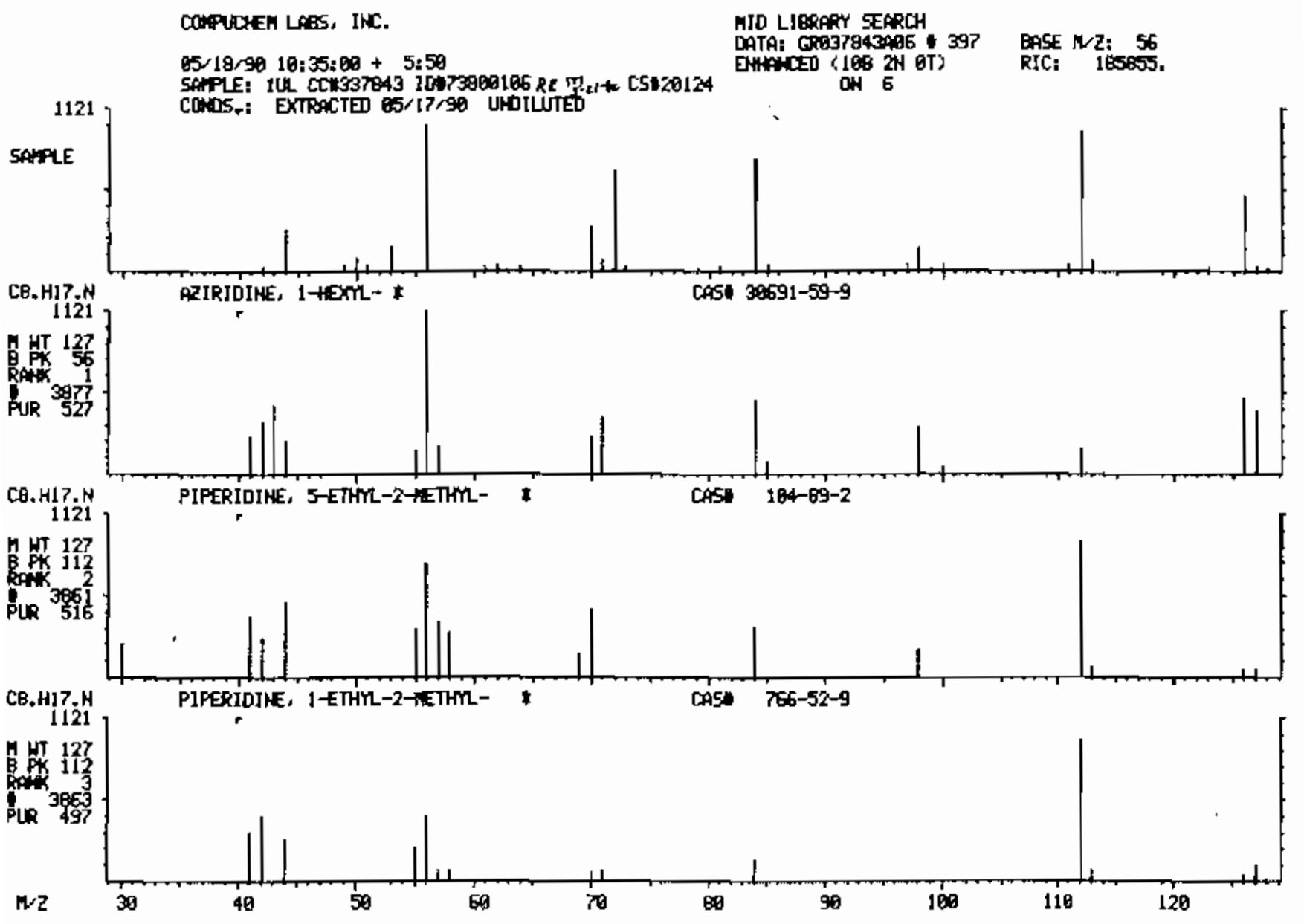
SECOND SPECTRUM
DATA: GR037843A06 #1117
413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) (117-81-7)



NYDEC RA090 0507 ORGANIC



NYDEC RA090 0507 ORGANIC


COMPUCHEM LABS, INC.
05/18/90 10:35:00 + 5:50
SAMPLE: 1UL CC#337843 ID#73000106 Rt 11.14 CS#20124
CONDS,: EXTRACTED 05/17/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037843A06 # 397 BASE M/Z: 56
ENHANCED (10B 2N 0T) RIC: 185855.
ON 6
1121
SAMPLE
CB.H17.N AZIRIDINE, 1-HEXYL- * CAS# 38691-59-9
M WT 127
B PK 56
RANK 1
3977
PUR 527
CB.H17.N PIPERIDINE, 5-ETHYL-2-METHYL- * CAS# 104-69-2
M WT 127
B PK 112
RANK 2
3861
PUR 516
CB.H17.N PIPERIDINE, 1-ETHYL-2-METHYL- * CAS# 766-52-9
M WT 127
B PK 112
RANK 3
3863
PUR 497
M/Z
30
40
50
60
70
80
90
100
110
120

COMPUCHEM LABS, INC.

05/18/90 10:35:00 + 6:43
SAMPLE: 1UL CC#337843 ID#73000106 CS#20124
CONDS.: , EXTRACTED 05/17/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037843A06 # 447 BASE M/Z: 87
ENHANCED (100 2N 0T) RIC: 108953B.
ON 6

1010
SAMPLE

C6.H12.O2 1,3-DIOXOLANE, 2-ETHYL-4-METHYL-* CAS# 4359-46-0
1010
M WT 116
B PK 87
RANK 1
2703
PUR 654

C6.H14.O 2-BUTANOL, 2,3-DIMETHYL-* CAS# 594-60-5
1010
M WT 102
B PK 87
RANK 2
1512
PUR 651

C8.H18.O 3-HEXANOL, 2,3-DIMETHYL-* CAS# 4166-46-5
1010
M WT 130
B PK 87
RANK 3
4416
PUR 648

M/Z 20 40 60 80 100 120 140 160 180 200

COMPUCHEM LABS, INC.

05/18/90 10:35:00 + 11:24
SAMPLE: 1UL CC#337843 ID#73000106 RF [illegible] CS#20124
COMDS.: EXTRACTED 05/17/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR937043A06 # 760 BASE M/Z: 66
ENHANCED (10B 2N 0T) RIC: 322047.
ON 6

1022

SAMPLE

C9.H9.O2.N 4,7-METHANO-1H-ISOINDOLE-1,3(2H)-DIONE, 3A,4,7* CAS# 6265-30-1

1022

M WT 163
B PK 66
RANK 1
10099
PUR 844

C8.H9.N BICYCLO[2.2.1]HEPT-5-ENE-2-CARBONITRILE * CAS# 95-11-4

1022

M WT 119
B PK 66
RANK 2
3006
PUR 697

C7.H8 BICYCLO[2.2.1]HEPTA-2,5-DIENE * CAS# 121-46-0

1022

M WT 92
B PK 91
RANK 3
851
PUR 590

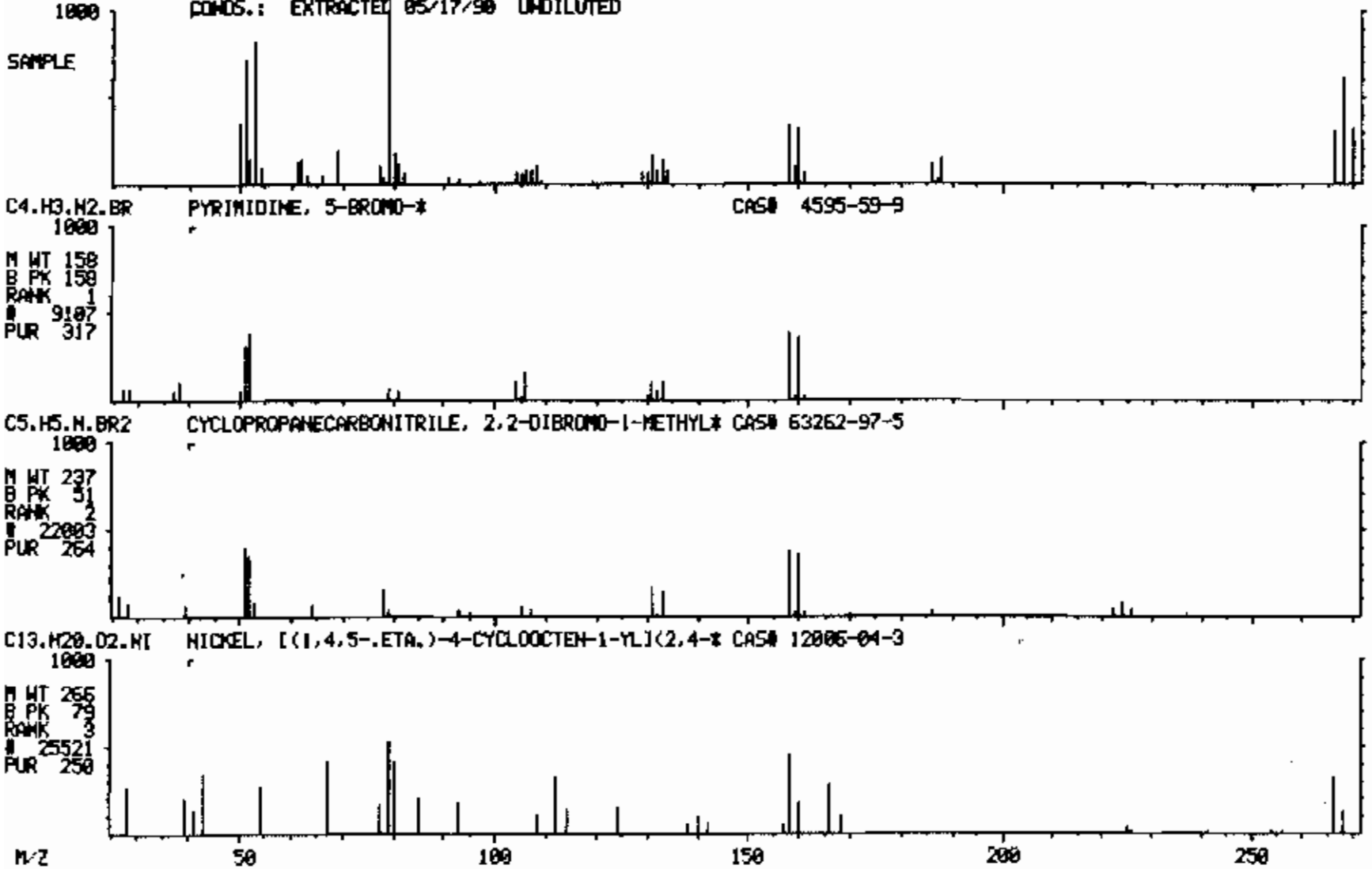
M/Z 40 60 80 100 120 140 160

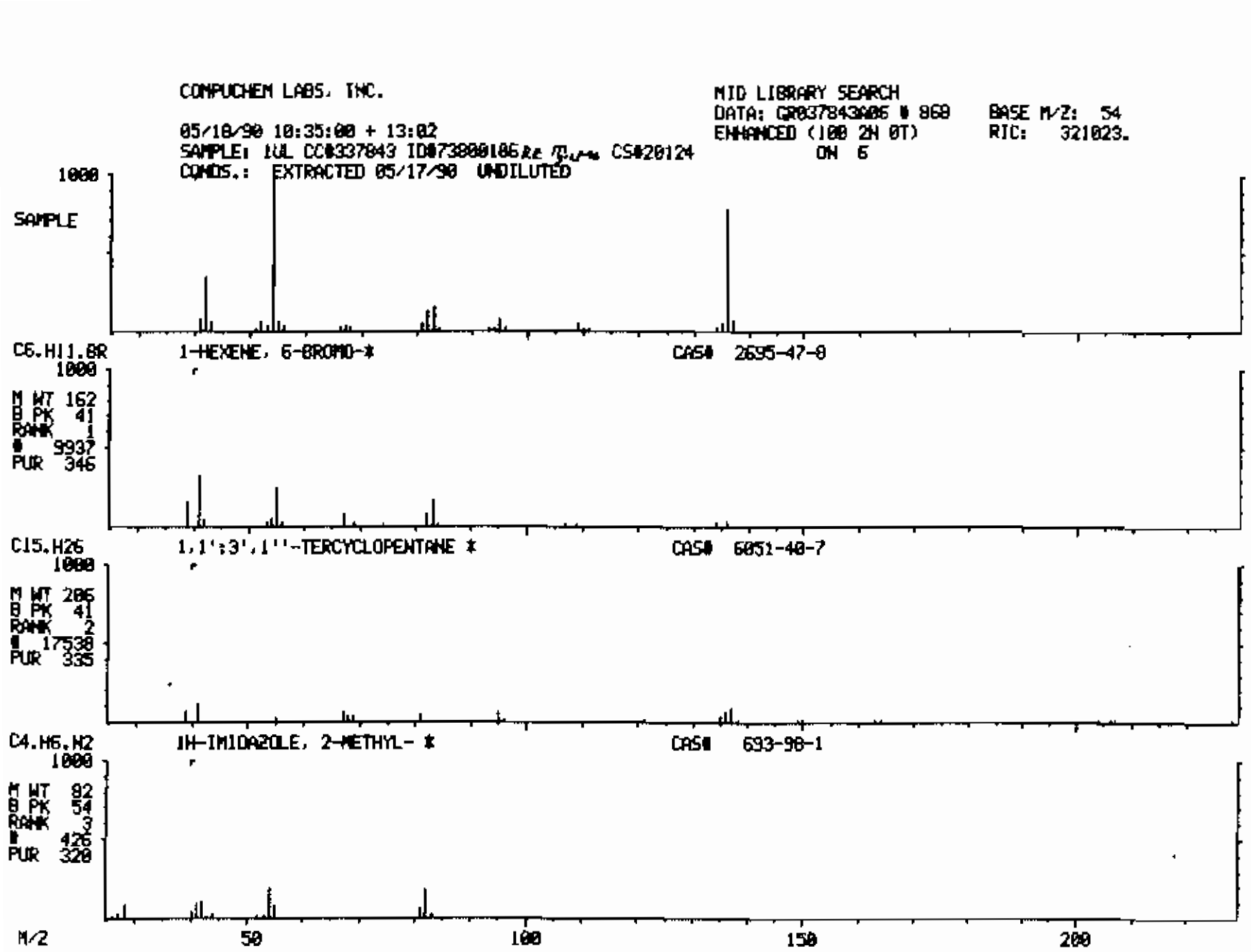
NYDEC RA090 0507 ORGANIC

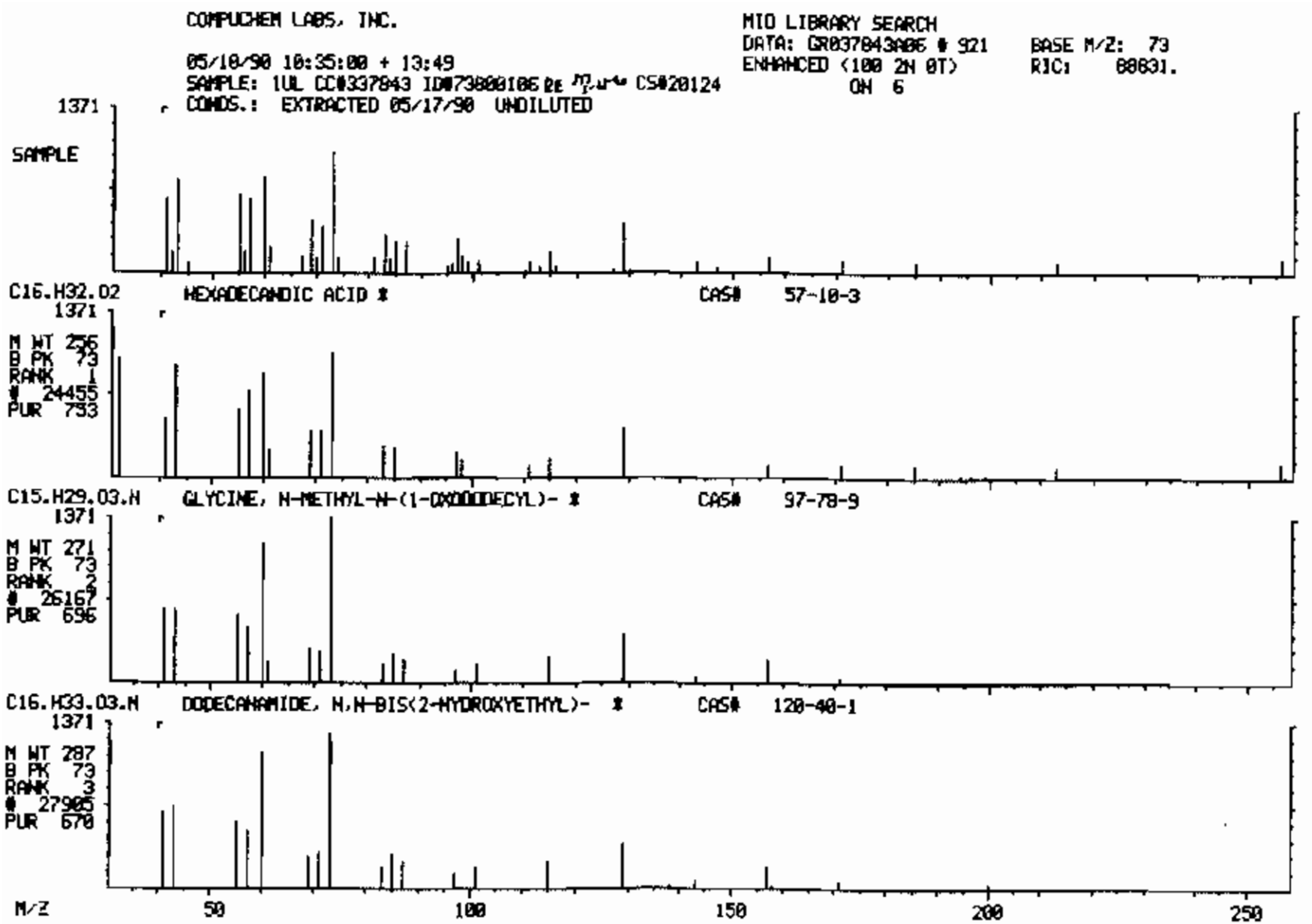
COMPUCHEM LABS, INC.

05/10/90 10:35:00 + 12:50
SAMPLE: 1UL CC#337643 ID#73000105 CS#20124
CONDS.: EXTRACTED 05/17/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037843A06 # 855 BASE M/Z: 79
ENHANCED (100 2N 0T) RIC: 118783.
ON 6




CONPUCHEM LABS, INC.
05/18/90 10:35:00 + 13:02
SAMPLE: 1UL CC#337843 ID#73000186 CS#20124
COMDS.: EXTRACTED 05/17/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037843006 # 868
ENHANCED (100 2N 0T)
ON 6
BASE M/Z: 54
RIC: 321023.
1000
SAMPLE
C6.H11.BR
1-HEXENE, 6-BROMO-*
CAS# 2695-47-8
M WT 162
B PK 41
RANK 1
9937
PUR 346
C15.H26
1,1':3',1''-TERCYCLOPENTANE *
CAS# 6051-40-7
M WT 206
B PK 41
RANK 2
17538
PUR 335
C4.H6.N2
1H-IMIDAZOLE, 2-METHYL- *
CAS# 693-98-1
M WT 82
B PK 54
RANK 3
426
PUR 320
M/Z
50
100
150
200


COMPUCHEM LABS, INC.
05/10/90 10:35:00 + 13:49
SAMPLE: 1UL CC#337843 ID#73000186 CS#20124
COMDS.: EXTRACTED 05/17/90 UNDILUTED
MIO LIBRARY SEARCH
DATA: GR037843A06 # 921
ENHANCED (100 2N 0T)
ON 6
BASE M/Z: 73
RIC: 88631.
1371
SAMPLE
C16.H32.02 HEXADECANDIC ACID * CAS# 57-10-3
M WT 256
B PK 73
RANK 1
24455
PUR 753
C15.H29.03.N GLYCINE, N-METHYL-N-(1-OXODODECYL)- * CAS# 97-78-9
M WT 271
B PK 73
RANK 2
26167
PUR 696
C16.H33.03.N DODECANAMIDE, N,N-BIS(2-HYDROXYETHYL)- * CAS# 120-40-1
M WT 287
B PK 73
RANK 3
27905
PUR 670
M/Z
50
100
150
200
250

MAST5-6

LAB INSTRUCTIONS:

CASE#: 20124 DUE DATE:

GC/MS WORKSHEET COMPUCHEM#: 337843R J[ ] R[X] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

SEMI-VOA + L.S. 3rd Ed SW-846, METHOD 8270
S-V EXTRACTION, EPA/METHOD 3510
LOW LEVEL LIQUID

[redacted]

Sample Prep Code---079
Instrument Code----280
Compound List------379
Surrogate Std------393
Internal Std-------035

15 PEAK LIBRARY SEARCH REQUIRED

SAF#: EPA#: 73800106 RE 5-21-90

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 05/17/90
DFTPP Filename DH900518C06 Disk ( )
Standard Filename HH900518C06 Disk ( )
Sample Filename GR027843A06 Disk ( )

MAY 2 1990

ANALYST(S): Injection 1591 [signature] ~~Work-up~~ 1591

GC/MS REVIEW

complete 5.18.90 (JM)

CONDITION CODE: ES

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SN,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS EO,IF,LA,DI,CO,RN,DW,DA

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 7

# of Hits: 23

# of Surrogate Outliers: 2

Quality Assurance Notice(s):

Notices Required 2

GC/MS Review [signature] Date 5/21/90 Auditor [signature] Date 5/21/90

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): GR027843A06 / GH027843C22

QA COMMENTS:

Initials ____ Date __/__/__

FINAL REVIEW: Initials ____ Date __/__/__

AC516 (06/87)

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: Tammy Lollar

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1289

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL(ml) SV B/N	FINAL EXTRACT VOL(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337843R	079	20124	78800 106			2 of 3	500ml	0.5		13	1	Use 500ml sample volume for BS only
2	337844R			78800 107			2 of 3	500ml	0.5		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337852R		↓	78800 113			2 of 3	500ml	0.5		13	1	Conc. to 0.5ml final volume
4	337846R						—	—	—	—	—	—	add (A) mid-validation spike to BS only
5	337848R						—	—	—	—	—	—	
6	337832R		20016	MW-4			2 of 3	500ml	0.5		13	1	
7	337852R		19698	E0205 1040									out R.E. Sample.
8	337856R		↓	E0205 1024			3 of 3	500ml	0.5		13	1	
9	337857R		19652	MATT 81045			3 of 3						→ CONTINUOUS EXTRACT.
10													
11													
12													
13	340130	↓		SBLK 31	B1		N/A	500ml	0.5	~~0.5~~ 1.0	13	1	

	NO.	S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	0.5ml				
	LOT	32071				
						valid
SPIKE	NO.		3012	2021		spike
	AMT.					
	LOT		N/A	N/A		N/A

MANUAL COUNTER 510/818

FINAL VOLUME VERIFIED (Tammie Williams)

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY

SURROGATE & SPIKE ADDED CORRECTLY BA 5-17-90 (INT / DATE)

ISSUED BY:

RECEIVED 1289 10

COMPUCHEM # 037843 FILE: GR037843A06 COMPOUND LIST 173 PAGE

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	878	373000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	1
567	169		DIPHENYLAMINE (F3#3)				BDL	1
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	2
539	108		PHENACETIN (Z9#42)				BDL	1
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1
577	234		DIALLATE (TRANS ISOMER)				BDL	1
541	125		DIMETHOATE (Z9#44)				BDL	1
433	284		HEXACHLOROBENZENE (G4#5)				BDL	1
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	1
522	173		PRONAMIDE (Z9#46)				BDL	1
609	266		PENTACHLOROPHENOL (G4#6)				BDL	2
453	236		PENTACHLORONITROBENZENE (Z9				BDL	1
444	178		PHENANTHRENE (G4#7)				BDL	1
403	178		ANTHRACENE (G4#8)				BDL	1
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	1
516	97		METHAPYRILENE (Z9#48)				BDL	2
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	5
431	202		FLUORANTHENE (G4#10)				BDL	1
459	240	I	D12-CHRYSENE (IS#5)	1124	262000	40.0		
404	184		BENZIDINE (G5#2)				BDL	1
445	202		PYRENE (G5#3)				BDL	1
530	185		ARAMITE (Z9#50)				BDL	2
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1
523	139		CHLOROBENZILATE (Z9#52)				BDL	1
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	2
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	1
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	1
469	201		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	1
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	1
413	149		BIS(2-ETHYLHEXYL) PHTHALATE			1.1	1J	1
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	1
418	228		CHRYSENE (G5#8)				BDL	1
497	264	I	D12-PERYLENE	1290	194000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	1
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	1
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	1
406	252		BENZO(A)PYRENE (G6#5)				BDL	1
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	1
566	279		DIBENZO(A,J)ACRIDINE				BDL	1

CORRECTED/REVIEWED BY L. Hewett
(GC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	1
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	1
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	1
576	234		DIALLATE (CIS ISOMER)				BDL	1
531	234		DIALLATE (TOTAL)				BDL	1
CHECKSUMS:								
10114.				3292	829000.	121.1		1.

CORRECTED/REVIEWED BY J. Kent
(GC/MS DATA REVIEWER)

DATE 5-24-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hendt
(QC/MS DATA REVIEWER)

DATE 5-21-90

COMPUCHEM # 037843 FILE: GR037843A06 COMPOUND LIST 170 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
474	152	I	D4-1,4-DICHLOROBENZENE (IS#	467	168000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	1
481	79		PYRIDINE (Z9#1)				BDL	1
509	69		ETHTLMATHACRTLATE (Z9#2)				BDL	1
542	89		FARALDEHYDE (Z9#3)				BDL	1
510	93		2-PICOLINE (Z9#56)				BDL	2
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1
543	80		METHYL METHANE SULFONATE (Z				BDL	1
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	1
514	109		ETHYL METHANESULFONATE (Z9#				BDL	1
610	94		PHENOL (G1#3)				BDL	1
A73	93		ANILINE (G1#4)				BDL	1
505	167		PENTACHLOROETHANE (Z9#8)				BDL	1
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	2
601	128		2-CHLOROPHENOL (G1#6)			~~2.4~~	~~2J~~ BDL	1
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	1
506	91		BENZYL CHLORIDE (Z9#9)				BDL	1
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	1
474	108		BENZTL ALCOHOL (G1#9)				BDL	1
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	1
620	108		2-METHTLPHENOL (G1#11)				BDL	1
412	45		BIS(2-CHLOROISOPROPTL)ETHER				BDL	1
621	108		3-METHTLPHENOL (F1#2)				BDL	1
622	108		4-METHYLPHENOL (G1#13)				BDL	1
528	100		N-NITROSOPTRROLIDINE (Z9#10				BDL	1
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	1
500	105		ACETOPHENONE (Z9#11)				BDL	1
442	70		N-NITROSO-DI-N-PROPTLAMINE				BDL	1
512	106		O-TOLUIDINE HTDROCHLORIDE (			4.2	4J	1
436	117		HEXACHLOROETHANE (G1#15)				BDL	1
460	136	I	D8-NAPHTHALENE (IS#2)	579	544000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	1
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	1
438	82		ISOPHORONE (G2#2)				BDL	1
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	1
606	139		2-NITROPHENOL (G2#3)				BDL	1
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	1
518	125		BENZAL CHLORIDE (Z9#16)				BDL	1
625	122		BENZOIC ACID (G2#5)			10.7	11J	10
410	93		BIS(2-CHLORDETHOXY)METHANE				BDL	1
602	162		2,4-DICHLOROPHENOL (O2#7)				BDL	1
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	1
437	128		NAPHTHALENE (G2#9)				BDL	1

CORRECTED/REVIEWED BY L. Hewitt
(QC/MB DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (G2#10)				BDL	1(
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	2(
524	108		O-PHENYLENEDIAMINE (Z9#19)			~~30.1~~	~~50~~ BDL	1(
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	1(
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	1(
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	1(
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	1(
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	2(
536	84		N-NITROSO-DI-N-BUTYLAMINE (			~~4.2~~	~~40~~ BDL	1(
608	107		P-CHLORO-M-CRESOL (G2#12)				BDL	1(
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	1(
503	162		SAFROLE (Z9#27)				BDL	1(
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	1(
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	1(
569	142		1-METHYLNAPHTHALENE (T2#29)				BDL	1(
493	164	I	D10-ACENAPHTHENE (IS#3)	741	271000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	1(
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	1(
435	236		HEXACHLOROCYCLOPENTADIENE (				BDL	1(
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	2(
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	2(
527	162		ISOSAFROLE (Z9#30)				BDL	2(
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	1(
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	1(
456	216		1,2,3,4-TETRACHLORDBENZENE				BDL	1(
478	65		2-NITROANILINE (G3#6)				BDL	1(
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	2(
491	168		1,4-DINITROBENZENE (F3#2)				BDL	2(
425	163		DIMETHYL PHTHALATE (G3#7)				BDL	1(
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	1(
402	152		ACENAPHTHYLENE (G3#8)				BDL	1(
479	138		3-NITROANILINE (G3#9)				BDL	2(
401	153		ACENAPHTHENE (G3#10)				BDL	1(
605	184		2,4-DINITROPHENOL (G3#11)				BDL	4(
607	109		4-NITROPHENOL (G3#12)				BDL	1(
427	165		2,4-DINITROTOLUENE (G3#14)				BDL	1(
476	168		DIBENZOFURAN (G3#13)				BDL	1(
307	250		PENTACHLOROBENZENE (Z9#33)				BDL	1(
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	2(
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	2(
630	231		2,3,4,6-TETRACHLOROPHENOL (				BDL	2(
424	149		DIETHYL PHTHALATE (G3#16)				BDL	1(
519	97		ZINOPHOS (Z9#38)				BDL	1(

CORRECTED/REVIEWED BY L. Mandl
(GC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1
432	166		FLUORENE (G3#18)				BDL	1
480	138		4-NITROANILINE (G3#19)				BDL	2
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	2
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	1
467	188	I	D10-PHENANTHRENE (IS#4)	878	373000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1124	262000	40.0		
497	264	I	D12-PERYLENE	1290	194000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			3.0	1.%	
612	99	S	D5-PHENOL (SS#2)			2.3	1.%	
447	82	S	D5-NITROBENZENE (SS#3)			68.0	68.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			78.3	78.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			19.6	10.%	
471	212	S	D10-PYRENE			88.4	88.%	
496	244	S	D14-TERPHENYL (SS#6)			91.2	91.%	
CHECKSUMS:								
14268.				5079	1812000.	662.4		71.

CORRECTED/REVIEWED BY S. Mendell
(QC/MS DATA REVIEWER)

DATE 5-21-90

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	3.0	200.0	1.	21-100	
96	612	D5-PHENOL (SS#2)	2.3	200.0	1.	10- 94	
97	447	D5-NITROBENZENE (SS#3)	68.0	100.0	68.	35-114	X
9E	448	2-FLUOROBIPHENYL (SS#4)	78.3	100.0	78.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	19.6	200.0	10.	10-123	X
*1	471	D10-PYRENE	88.4	100.0	88.	40-130*	X
*1	496	D14-TERPHENYL (SS#6)	91.2	100.0	91.	33-141	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

2 ✓

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{500\ \text{UL}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Bond
(QC/MS DATA REVIEWER)

DATE 5-21-90

QUALITY ASSURANCE NOTICE

CompuChem # 337843

Client ID # 73800106

Case 20124

Surrogate recoveries for the SV fraction of this sample fall outside quality control limit in both the original and repeated extractions. Results were comparable between the two analyses. Since all other QC criteria associated with these analyses were met, we have attributed the out-of-control surrogate recoveries to the particular sample matrix, rather than to deficiencies in the laboratory's analytical system.

Under some circumstances, depending on the client's requirements, both sets of data will be reported. When only one report is required, the analyst considers whether or not the reextraction was completed within holding time specification in deciding which set of data to report. If holding times were met for both extractions, the analysis that appears to be least affected by the sample matrix will be reported.

Reviewer's Initials/ID L. Blank / 1712

Date 5-21-90

QAN3S
880208

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 73800107

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337844

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037844C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

(1) - Cannot be separated from Diphenylamine

108-70-3--------1,3,5-Trichlorobenzene_____	10	U
98-87-3---------Benzal chloride_____	10	U
65-85-0---------Benzoic Acid_____	100	U
111-91-1--------bis(2-Chloroethoxy)Methane___	10	U
120-83-2--------2,4-Dichlorophenol_____	10	U
120-82-1--------1,2,4-Trichlorobenzene_____	10	U
91-20-3---------Naphthalene_____	10	U
106-47-8--------4-Chloroaniline_____	10	U
87-65-0---------2,6-Dichlorophenol_____	20	U
95-54-5---------o-Phenylenediamine_____	10	U
122-09-8--------dimethylphenylethylamine_____	10	U
1888-71-7-------Hexachloropropene_____	10	U
87-68-3---------Hexachlorobutadiene_____	10	U
87-61-6---------1,2,3-Trichlorobenzene_____	10	U
98-07-7---------Benzotrichloride_____	20	U
924-16-3--------N-Nitroso-di-n-butylamine____	10	U
59-50-7---------4-Chloro-3-Methylphenol_____	10	U
106-50-3--------P-Phenylenediamine_____	10	U
94-59-7---------Safrole_____	10	U
106-50-3--------m-Phenylenediamine_____	10	U
91-57-6---------2-Methylnaphthalene_____	10	U
90-12-0---------1-Methylnaphthalene_____	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene___	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene___	10	U
77-47-4---------Hexachlorocyclopentadiene____	10	U
88-06-2---------2,4,6-Trichlorophenol_____	20	U
95-95-4---------2,4,5-Trichlorophenol_____	20	U
120-58-1--------Isosafrole_____	20	U
91-58-7---------2-Chloronaphthalene_____	10	U
90-13-1---------1-Chloronaphthalene_____	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene___	10	U
88-74-4---------2-Nitroaniline_____	10	U
130-15-4--------1,4-Naphthoquinone_____	20	U
100-25-4--------1,4-Dinitrobenzene_____	20	U
131-11-3--------Dimethyl Phthalate_____	10	U
208-96-8--------Acenaphthylene_____	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800107

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337844

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037844C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0---------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0---------Pyrene	10	U
140-57-8---------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6---------Chlorobenzilate	10	U
119-93-7---------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4---------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4---------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9---------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0---------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGAMICS AMALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

70800107

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337844

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037844C22

Level: (low/med) LOW Date Received: 05/09/90

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

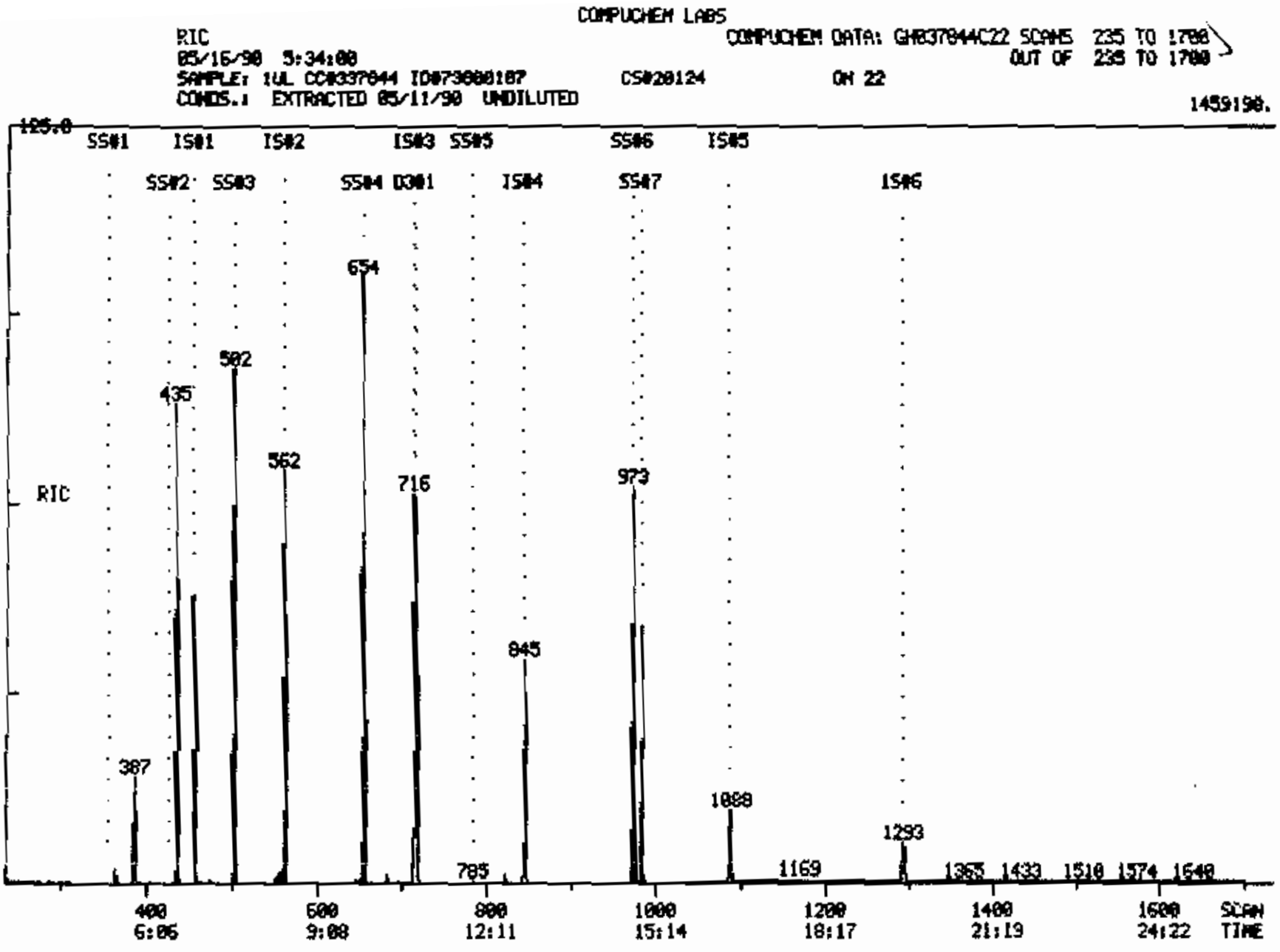
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.80	42	J
2.		UNKNOWN	6.52	110	J


COMPUCHEM LABS
RIC
05/16/90 5:34:00
SAMPLE: 1UL CC#337044 ID#73000187
CONDS.: EXTRACTED 05/11/90 UNDILUTED
CS#20124
ON 22
COMPUCHEM DATA: GH#37044C22 SCANS 235 TO 1700
OUT OF 235 TO 1700
1459190.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D#1
IS#4
SS#7
IS#6
RIC
654
502
435
562
716
973
845
387
1088
1293
785
1169
1355
1433
1510
1574
1640
400
6:05
600
9:08
800
12:11
1000
15:14
1200
18:17
1400
21:19
1600
24:22
SCAN
TIME

QUANTITATION REPORT FILE: GH037844C22
DATA: GH037844C22.TI
05/16/90 5:34:00
SAMPLE: 1UL CC#337844 10#73800107 CB#20134 DN 22
CONDS.: EXTRACTED 05/11/90 UNDILUTED
SUBMITTED BY: 22 ANALYST: 619

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*480 D8-NAPHTHALENE (IS#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSOPIPERIDINE
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	491 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	475 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*499 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	429 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D10-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
1	152	495	6:56	1	1.000	A BB	132428.	40.000	NG	6.45
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	562	8:34	31	1.000	A BB	468248.	40.000	NG	6.45
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	562	8:34	31	1.000	A BB	73412.	49.394	NG	7.96 NO
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	716	10:54	59	1.000	A BB	221688.	40.000	NO	6.45
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	138	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	718	10:56	59	1.003	A BB	5716.	3.235	NO	0.52 NO
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	845	12:52	92	1.000	A BB	278420.	40.000	NO	6.45
93	240	1087	16:33	93	1.000	A BB	118520.	40.000	NO	6.45
94	264	1293	19:42	94	1.000	A BB	83936.	40.000	NO	6.45
95	112	NOT FOUND								
96	99	NOT FOUND								
97	82	502	7:39	31	0.893	A BB	500532.	66.971	NO	10.79
98	172	654	9:58	59	0.913	A BB	554120.	78.193	NO	12.60
99	330	NOT FOUND								
100	212	973	14:49	93	0.895	A BV	418484.	94.784	NO	15.28
101	244	983	14:58	93	0.904	A BB	306580.	88.021	NO	14.19

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.348	
3	3:52		10.000			50.00		1.942	
4	4:25		10.000			50.00		1.888	
5	4:25		10.000			50.00		0.370	
6	4:47		20.000			50.00		2.081	
7	4:55		10.000			200.00		0.439	
8	5:15		10.000			50.00		1.369	
9	5:44		10.000			50.00		0.983	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:03		10.000			50.00		1.052	
11	6:31		10.000			50.00		2.859	
12	6:35		10.000			50.00		3.199	
13	6:37		10.000			50.00		0.329	
14	6:38		20.000			50.00		2.281	
15	6:44		10.000			50.00		1.882	
16	6:55		10.000			50.00		1.946	
17	6:59		10.000			50.00		4.277	
18	6:59		10.000			50.00		1.947	
19	7:07		10.000			50.00		1.211	
20	7:12		10.000			50.00		1.777	
21	7:15		10.000			50.00		1.716	
22	7:19		10.000			50.00		2.437	
23	7:25		10.000			100.00		1.814	
24	7:25		10.000			100.00		1.814	
25	7:26		10.000			50.00		0.932	
26	7:27		10.000			50.00		0.453	
27	7:28		10.000			50.00		2.822	
28	7:29		10.000			50.00		1.698	
29	7:31		10.000			50.00		2.067	
30	7:37		10.000			50.00		1.040	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:41		10.000			50.00		0.590	
33	7:52		10.000			50.00		0.205	
34	7:58		10.000			50.00		1.121	
35	8:06		10.000			50.00		0.532	
36	8:05		10.000			50.00		0.228	
37	8:07		10.000			50.00		0.284	
38	8:08		10.000			50.00		0.784	
39	8:12		100.000			50.00		0.189	
40	8:13		10.000			50.00		0.558	
41	8:23		10.000			50.00		0.270	
42	8:31		10.000			50.00		0.296	
43	8:36		10.000			50.00		1.306	
44	8:39		10.000			50.00		0.643	
45	8:41		20.000			50.00		0.307	
46	8:34	1.00	10.000	0.10	49.39	50.00	0.125	0.127	0.99
47	8:47		10.000			50.00		0.071	
48	8:45		10.000			50.00		0.141	
49	8:49		10.000			50.00		0.130	
50	8:50		10.000			50.00		0.261	
51	8:55		20.000			50.00		0.419	
52	9:06		10.000			50.00		0.193	
53	9:15		10.000			50.00		0.491	
54	9:15		10.000			50.00		0.030	
55	9:21		10.000			50.00		0.262	
56	9:21		10.000			50.00		0.001	
57	9:29		10.000			50.00		0.982	
58	9:38		10.000			50.00		0.520	
59	10:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:46		10.000			100.00		0.449	
61	9:46		10.000			100.00		0.449	
62	9:48		10.000			50.00		0.182	
63	9:53		20.000			50.00		0.330	
64	9:56		20.000			50.00		0.325	
65	10:01		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:09		10.000			50.00		1.495	
67	10:11		10.000			50.00		1.104	
68	10:10		10.000			50.00		0.427	
69	10:17		10.000			50.00		0.583	
70	10:21		20.000			50.00		0.433	
71	10:24		20.000			50.00		0.204	
72	10:31		10.000			50.00		1.495	
73	10:38		10.000			50.00		0.307	
74	10:42		10.000			50.00		1.917	
75	10:49		20.000			50.00		0.348	
76	10:57		10.000			50.00		1.317	
77	10:57		40.000			50.00		0.108	
78	11:00	0.99	10.000	0.10	3.23	50.00	0.021	0.319	0.06
79	11:09		10.000			50.00		0.429	
80	11:10		10.000			50.00		1.693	
81	11:12		10.000			50.00		0.341	
82	11:15		20.000			50.00		0.818	
83	11:21		20.000			50.00		0.887	
84	11:22		20.000			50.00		0.174	
85	11:27		10.000			50.00		1.719	
86	11:35		10.000			50.00		0.436	
87	11:35		10.000			50.00		0.438	
88	11:37		10.000			50.00		1.334	
89	11:38		20.000			50.00		0.354	
90	11:38		20.000			50.00		0.383	
91	11:48		10.000			50.00		2.253	
92	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:27		0.742			50.00		1.870	
96	6:30		0.948			50.00		2.258	
97	7:40	1.00	0.875	1.02	66.97	50.00	0.855	0.638	1.34
98	9:39	1.00	0.906	1.01	78.19	50.00	2.000	1.279	1.56
99	11:57		1.118			50.00		0.083	
100	14:49	1.00	10.000	0.09	94.78	50.00	2.825	1.490	1.90
101	14:58	1.00	0.907	1.00	88.02	50.00	2.069	1.176	1.76

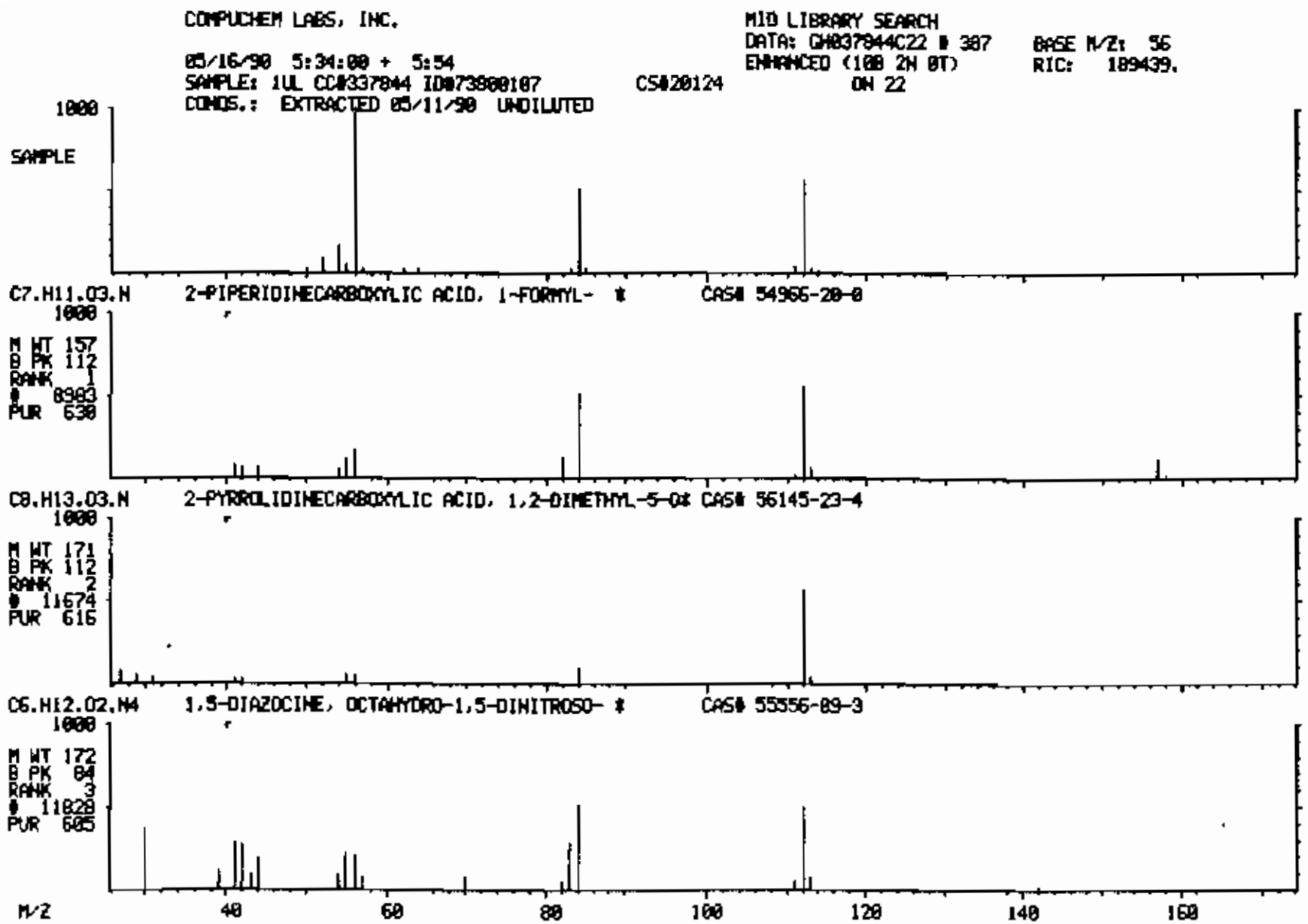
```
QUANTITATION REPORT     FILE: GH037844C22
DATA: GH037844C22.TI
05/16/90  5:34:00
SAMPLE: 1UL CC#337844 ID#73800107          C8#20124              ON 22
COND#.:  EXTRACTED 05/11/90  UNDILUTED
SUBMITTED BY:      22        ANALYST:       619

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  #467 O10-PHENANTHRENE (I8#4)
  2  604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
  3  443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
  4  567 DIPHENYLAMINE (F3#3)
  5  508 1,3,5-TRINITROBENZENE (Z9#41)
  6  539 PHENACETIN (Z9#42) <63-44-2>
  7  414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
  8  577 DIALLATE (TRANS ISOMER)
  9  541 DIMETHOATE (Z9#44)
 10  433 HEXACHLOROBENZENE (G4#5) <118-74-1>
 11  485 4-AMINOBIPHENYL (Z9#45)
 12  522 PRONAMIDE (Z9#46)
 13  609 PENTACHLOROPHENOL (G4#6) <87-86-5>
 14  453 PENTACHLORONITROBENZENE (Z9#47)
 15  444 PHENANTHRENE (G4#7) <85-01-8>
 16  403 ANTHRACENE (G4#8) <120-12-7>
 17  426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
 18  516 METHAPYRILENE (Z9#48)
 19  549 CYCLOPHOSPHAMIDE (Z9#49)
 20  431 FLUORANTHENE (G4#10) <206-44-0>
 21  #459 O12-CHRYSENE (I8#5)
 22  404 BENZIDINE (G5#2) <92-87-5>
 23  445 PYRENE (G5#3) <129-00-0>
 24  530 ARAMITE (Z9#50) <140-57-4>
 25  487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26  523 CHLOROBENZILATE (Z9#52)
 27  545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28  415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
 29  488 2-ACETYLAMINO FLUORENE (F5#2)
 30  489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31  423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
 32  533 DIMETHOXYBENZIDINE (Z9#57)
 33  413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
 34  405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
 35  418 CHRYSENE (G5#8) <218-01-9>
 36  #497 D10-PERYLENE (I8#6)
 37  429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
 38  407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
 39  517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40  409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
 41  406 BENZO(A)PYRENE (G6#5) <50-32-8>
 42  565 3-METHYLCHLORANTHRENE (F6#2)
 43  566 DIBENZO(A,J)ACRIDINE
 44  437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
 45  419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
 46  408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
```

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	845	12:32	1	1.000	A BB	278420.	40.000	NG	32.63
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1087	16:33	21	1.000	A BB	118520.	40.000	NG	32.63
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	973	14:49	21	0.895	A BB	308.	2.613	NG	2.13 *J/O*
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	226	NOT FOUND								
36	264	1293	19:42	36	1.000	A BB	83936.	40.000	NG	32.63
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000 ✓	1.00
2	11:43		30.000			50.00		0.111 ✓	
3	11:45		10.000			100.00		0.815	
4	11:45		10.000			100.00		0.815	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.060	
6	12:08		10.000			50.00		0.642	
7	12:14		10.000			50.00		0.165	
8	12:09		10.000			25.00		0.106	
9	12:25		10.000			50.00		0.180	
10	12:28		10.000			50.00		0.197	
11	12:35		10.000			50.00		0.749	
12	12:40		10.000			50.00		0.412	
13	12:41		20.000			50.00		0.104	
14	12:48		10.000			50.00		0.078	
15	12:55		10.000			50.00		1.304	
16	12:59		10.000			50.00		1.311	
17	13:36		10.000			50.00		1.997	
18	14:03		20.000			50.00		0.408	
19	14:19		50.000			200.00		0.024	
20	14:32		10.000			50.00		1.024	
21	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:38		10.000			50.00		0.134	
23	14:51		10.000			50.00		2.070	
24	14:49	1.00	20.000	0.04	2.61	50.00	0.002	0.040	0.05
25	15:10		10.000			50.00		0.271	
26	15:13		10.000			50.00		1.379	
27	15:37		20.000			50.00		0.509	
28	15:36		10.000			50.00		1.321	
29	16:00		10.000			50.00		0.619	
30	16:23		10.000			50.00		0.179	
31	16:25		10.000			50.00		0.242	
32	16:21		10.000			50.00		0.147	
33	16:25		10.000			50.00		1.809	
34	16:32		10.000			50.00		1.166	
35	16:36		10.000			50.00		1.114	
36	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:30		10.000			50.00		2.696	
38	18:41		10.000			100.00		1.002	
39	18:41		10.000			50.00		0.487	
40	18:41		10.000			100.00		1.002	
41	19:31		10.000			50.00		1.192	
42	20:32		10.000			50.00		0.582	
43	22:25		10.000			50.00		0.886	
44	23:12		10.000			50.00		1.334	
45	23:12		10.000			50.00		1.100	
46	24:15		10.000			50.00		1.065	
47	12:17		10.000			25.00		0.135	



NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

05/16/90 5:34:00 + 6:38
SAMPLE: IUL CC#337044 ID#73000107 CS#20124
CONDS.: EXTRACTED 05/11/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GH#37044C22 # 435 BASE M/Z: 87
ENHANCED (10B 2H 0T) RIC: 907263.
ON 22

1701
SAMPLE

C7.H16.O 3-HEXANOL, 5-METHYL-* CAS# 623-55-2
1701
M WT 116
B PK 59
RANK 1
2775
PUR 723

C7.H16.O 3-PENTANOL, 3-ETHYL-* CAS# 597-49-9
1701
M WT 116
B PK 87
RANK 2
2779
PUR 677

C7.H16.O ETHER, SEC-BUTYL ISOPROPYL* CAS# 10641-01-1
1701
M WT 116
B PK 45
RANK 3
2796
PUR 650

M/Z 40 60 80 100 120 140 160 180 200

LAB INSTRUCTIONS:
SEE PPS#407 CASE#RA090 SDG#0507

PPS#: _____

MAST 5-6

RECEIPT DATE: 05/09/90 CASE#: 20124

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 337844

J[ ] J3[ ] D[ ] (:1)
2J[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER;3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800107

GC/MS ANALYSIS -200 -
Volumes mixed: BN _____ ul Acid _____ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date Sample Bottle Analyzed 5/11/90
DFTPP Filename DH90051102 Disk (90840)
Standard Filename 4H90051102 Disk ( )
Sample Filename GH037844C22 Disk ( )

[redacted]

ANALYST(S): Injection uG Work-up _____

GC/MS REVIEW

CONDITION CODE: AM AL

Disposition: [✓] Complete

Extraneous Peak Search Results:

# of Peaks Found: 2

# of Hits: 0

# of Surrogate Outliers: 3

Quality Assurance Notice(s):

Notices Required 0

[ ] Reinjection required
[ ] Reextraction required 5-21-90 AC 5/16/90
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

COMMENTS:

#GC/MS Review L. Hewitt Date 5/21/90 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: _____
Final Reportable Package(s): GR037844A06 / GH037844C22

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: CR Carl Hooker

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1787

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL.(ml) SV B/N	FINAL EXTRACT VOL.(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337842	-079	20224	73580 105			3/3	1000	1.0		13	1	* Use 500ml sample volume for SS only
2	337843			73580 106			3/3	1000	1.0		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337844			73580 107			3/3	1000	1.0		13	1	Conc. to 0.5ml final volume
4	337845			73580 108			3/3	1000	1.0		13	1	add ____ ml validation spike to BS only
5	337846			73580 111			1/3	1000	1.0		13	1	
6	337847			73580 112			7/9	1000	1.0		13	1	
7	337848			73580 110			1/3	1000	1.0		13	1	
8	337849			73580 109			2/3	1000	1.0		13	1	
9	337850			73580 113			1/3	1000	1.0		13	1	
10	336210R*		19698	8030 56000			3/3	1000ml	1.0		13	1	*
11													
12													
13	338347			SBLK 86	B1			1000ml	1.0		13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0 ml				
	LOT	31922				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

MANUAL COUNTER 510/889

FINAL VOLUME VERIFIED CoDA Hooker

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5-11-90

SURROGATE & SPIKE ADDED CORRECTLY A.W. 5-11-90 (INT / DATE)

ISSUED BY:

849

NYDEC RA090 0507 ORGANIC

CMF #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	04-1,4-DICHLORDBENZENE (IS#	455	132000	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	10
481	79		PYRIDINE (Z9#1)				BDL	10
309	69		ETHYLMATHACRYLATE (Z9#2)				BDL	10
542	89		PARALDEHYDE (Z9#3)				BDL	10
510	93		2-PICOLINE (Z9#56)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (Q1#3)				BDL	10
473	93		ANILINE (Q1#4)				BDL	10
505	167		PENTACHLOROETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20
601	128		2-CHLOROPHENOL (Q1#6)				BDL	10
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLOROBENZENE (Q1#8)				BDL	10
474	108		BENZYL ALCOHOL (Q1#9)				BDL	10
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	10
620	108		2-METHYLPHENOL (Q1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (Q1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLOROETHANE (Q1#15)				BDL	10
460	136	I	D8-NAPHTHALENE (IS#2)	562	468000	40.0		
440	77		NITROBENZENE (Q1#16)				BDL	10
502	114		N-NITROSOPIPERIDINE				BDL	10
438	82		ISOPHORONE (Q2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (Q2#4)				BDL	10
606	139		2-NITROPHENOL (Q2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (Q2#5)				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (Q2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (Q2#				BDL	10
439	128		NAPHTHALENE (Q2#9)				BDL	10

CORRECTED/REVIEWED BY L. Howell
(QC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (B2#10)				BDL	10
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	20
524	108		O-PHENYLENEDIAMINE (Z9#19)			~~59.4~~	~~44~~ BDL	10
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	10
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	10
434	225		HEXACHLOROBUTADIENE (B2#11)				BDL	10
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	10
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (B2#12)				BDL	10
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	10
503	162		SAFROLE (Z9#27)				BDL	10
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	10
477	142		2-METHYLNAPHTHALENE (B2#13)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	10
495	164	I	D10-ACENAPHTHENE (IS#3)	716	222000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
499	237		HEXACHLOROCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (B3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (B3#4				BDL	20
527	162		ISOSAFROLE (Z9#30)				BDL	20
416	162		2-CHLORONAPHTHALENE (B3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	10
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	10
478	65		2-NITROANILINE (B3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	20
491	168		1,4-DINITROBENZENE (F3#2)				BDL	20
423	163		DIMETHYL PHTHALATE (B3#7)				BDL	10
428	165		2,6-DINITROTOLUENE (B3#15)				BDL	10
402	152		ACENAPHTHYLENE (B3#8)				BDL	10
479	138		3-NITROANILINE (B3#9)				BDL	20
401	153		ACENAPHTHENE (B3#10)				BDL	10
603	184		2,4-DINITROPHENOL (B3#11)				BDL	40
607	109		4-NITROPHENOL (B3#12)			~~3.2~~	~~20~~ BDL	10
427	165		2,4-DINITROTOLUENE (B3#14)				BDL	10
476	168		DIBENZOFURAN (B3#13)				BDL	10
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	10
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	20
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (B3#16)				BDL	10
519	97		ZINOPHOS (Z9#38)				BDL	10

CORRECTED/REVIEWED BY L. Hewitt
(QC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL-PHENYL ETHER				BDL	10
432	166		FLUORENE (83#18)				BDL	10
480	138		4-NITROANILINE (83#19)				BDL	20
498	152		5-NITRO-O-TOLUIDINE (I9#34)				BDL	20
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				#DL	10
467	188	I	D10-PHENANTHRENE (IS#4)	845	278000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1087	119000	40.0		
497	264	I	D10-PERYLENE (IS#6)	1293	83900	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			0.0	0.%	
612	99	S	D5-PHENOL (SS#2)			0.0	0.%	
447	82	S	D5-NITROBENZENE (SS#3)			67.0	67.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			78.2	78.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			0.0	0.%	
471	212	S	D10-PYRENE (SS#6)			94.8	95.%	
496	244	S	D14-TERPHENYL (SS#7)			88.0	88.%	
CHECKSUMS:								
14270.				4958	1302900.	620.6		52.

CORRECTED/REVIEWED BY L. Hoult
(GC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	NOT FOUND			21-100		X
96	612	D5-PHENOL (SS#2)	NOT FOUND			10- 94		X
97	447	D5-NITROBENZENE (SS#3)	67.0	100.0	67.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	78.2	100.0	78.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	NOT FOUND			10-123		X
*1	471	D10-PYRENE (SS#6)	94.8	100.0	95.	40-130*	X	
*1	496	D14-TERPHENYL (SS#7)	88.0	100.0	88.	33-141	X	

* ADVISORY SURROGATE ONLY 3
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ ML}{1000.\ ML} \times 1.0ML \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ UL}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ UL}{1000\ UL} \times 1.0ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hoult
(QC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	845	278000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	30
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	10
567	169		DIPHENYLAMINE (F3#3)				BDL	10
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	20
539	108		PHENACETIN (Z9#42)				BDL	10
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	10
577	234		DIALLATE (TRANS ISOMER)				BDL	10
541	125		DIMETHOATE (Z9#44)				BDL	10
433	284		HEXACHLOROBENZENE (G4#5)				BDL	10
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	10
522	173		PRONAMIDE (Z9#46)				BDL	10
609	266		PENTACHLOROPHENOL (G4#6)				BDL	20
453	237		PENTACHLORONITROBENZENE (Z9				BDL	10
444	178		PHENANTHRENE (G4#7)				BDL	10
403	178		ANTHRACENE (G4#8)				BDL	10
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	10
516	97		METHAPYRILENE (Z9#48)				BDL	20
349	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	50
431	202		FLUORANTHENE (G4#10)				BDL	10
459	240	I	D12-CHRYSENE (IS#5)	1087	119000	40.0		
404	184		BENZIDINE (G5#2)				BDL	10
445	202		PYRENE (G5#3)				BDL	10
530	185		ARAMITE (Z9#50)			2.6	3J BDL	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
523	139		CHLOROBENZILATE (Z9#52)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	10
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	10
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	10
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	10
418	228		CHRYSENE (G5#8)				BDL	10
497	264	I	D10-PERYLENE (IS#6)	1293	83900	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	10
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	10
406	252		BENZO(A)PYRENE (G6#5)				BDL	10
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 1-21-90

GEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	10
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	10
408	276		BENZO(G,H,I)PERYLENE (G6##				BDL	10
376	234		DIALLATE (CIS ISOMER)				BDL	10
331	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS: 10115.				3225	480900.	122.6	3.	

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-21-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hent
(QC/MS DATA REVIEWER)

DATE 5-21-90

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800107RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 037844

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037844A06

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

(1) - Cannot be separated from Diphenylamine

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	100	U
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800107RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337844

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR017844A06

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5	Methapyrilene	20	U
50-18-0	Cyclophosphamide	50	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	10	U
129-00-0	Pyrene	10	U
140-57-8	Aramite	20	U
60-11-7	p-Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
53-96-3	2-Acetylaminofluorene	10	U
101-14-4	Methylene-bis(2-chloroaniline	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
106-51-4	3,3'-Dimethoxybenzidine	10	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
57-97-6	7,12-Dimethylbenzanthracene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
56-49-5	3-Methylcholanthrene	10	U
224-42-0	Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 7J800107RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337844

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037844A06

Level: (low/med) LOW Date Received: 05/09/90

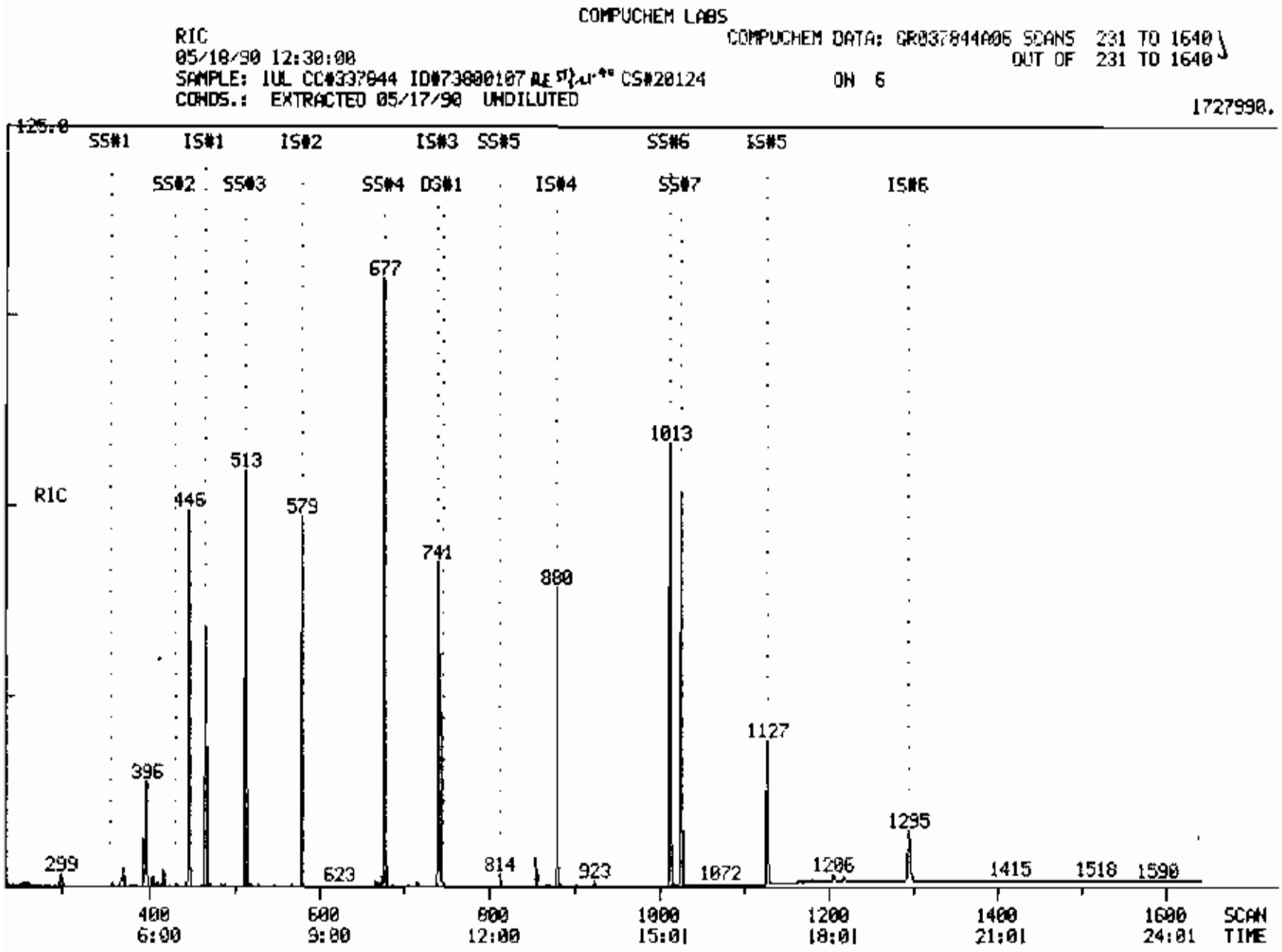
% Moisture: not dec. ____ dec. ____ Date Extracted: 05/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.93	52	J
2.	UNKNOWN	6.68	110	J



836

NYDEC RA090 0507 ORGANIC

QUANTITATION REPORT FILE: GR037844A06
DATA: GR037844A06.TI
05/18/90 12:30:00
SAMPLE: 1UL CC#337844 ID#7380D1D7 RE SD W40 CS#2D124 ON 6
CONDS.: EXTRACTED 05/17/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 1591

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (IS#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSODIPIPERIDINE (Z9#14)
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	475 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (Q3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
74	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
75	479 3-NITROANILINE (Q3#9) <99-09-2>
76	401 ACENAPHTHENE (Q3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (Q3#11) <51-28-4>
78	607 4-NITROPHENOL (Q3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
80	476 DIBENZOFURAN (Q3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>
88	432 FLUORENE (Q3#18) <86-73-7>
89	480 4-NITROANILINE (Q3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D12-PERYLENE
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE
101	#496 D14-TERPHENYL (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	465	6:59	1	1.000	A BB	167388.	40.000	NG	6.17
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	446	6:42	1	0.959	A BB	16540.	2.141	NG	0.33 NO
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	579	8:41	31	1.000	A BB	528000.	40.000	NG	6.17
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	579	8:41	31	1.000	A BB	78368.	51.941	NG	8.01 NO
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	741	11:07	59	1.000	A BB	241088.	40.000	NC	6.17
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	880	13:12	92	1.000	A BB	331268.	40.000	NC	6.17
93	240	1127	16:55	93	1.000	A BB	158660.	40.000	NC	6.17
94	264	1295	19:26	94	1.000	A BB	115752.	40.000	NC	6.17
95	112	NOT FOUND								
96	99	NOT FOUND								
97	82	513	7:42	31	0.886	A BB	489196.	68.637	NC	10.58
98	172	677	10:10	59	0.914	A BB	587140.	77.869	NC	12.00
99	330	814	12:13	59	1.099	A BB	3976.	2.989	NC	0.46
100	212	1013	15:12	93	0.899	A BV	518196.	97.486	NC	15.03
101	244	1025	15:23	93	0.909	A BB	430880.	107.644	NC	16.59

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:02	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:47		10.000			50.00		0.739 ✓	
3	3:48		10.000			50.00		1.387	
4	4:21		10.000			50.00		1.417	
5	4:19		10.000			50.00		0.347	
6	4:45		20.000			50.00		1.494	
7	4:53		10.000			50.00		1.576	
8	5:13		10.000			50.00		0.953	
9	5:42		10.000			50.00		0.828	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:04		10.000			50.00		0.919	
11	6:33		10.000			50.00		2.028	
12	6:37		10.000			50.00		2.460	
13	6:42		10.000			50.00		0.625	
14	6:41		20.000			50.00		1.874	
15	6:46	0.99	10.000	0.10	2.14	50.00	0.079	1.846	0.04
16	6:59		10.000			50.00		1.839	
17	7:02		10.000			50.00		3.265	
18	7:04		10.000			50.00		1.761	
19	7:11		10.000			50.00		0.996	
20	7:16		10.000			50.00		1.755	
21	7:19		10.000			50.00		1.459	
22	7:22		10.000			50.00		1.748	
23	7:31		10.000			100.00		1.260	
24	7:31		10.000			100.00		1.260	
25	7:32		10.000			50.00		0.821	
26	7:35		10.000			50.00		0.476	
27	7:33		10.000			50.00		2.221	
28	7:33		10.000			50.00		1.166	
29	7:36		10.000			50.00		1.970	
30	7:43		10.000			50.00		1.036	
31	8:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:47		10.000			50.00		0.534	
33	7:59		10.000			50.00		0.225	
34	8:05		10.000			50.00		0.944	
35	8:14		10.000			50.00		0.440	
36	8:12		10.000			50.00		0.239	
37	8:13		10.000			50.00		0.339	
38	8:15		10.000			50.00		0.727	
39	8:20		100.000			50.00		0.218	
40	8:22		10.000			50.00		0.559	
41	8:31		10.000			50.00		0.315	
42	8:38		10.000			50.00		0.341	
43	8:45		10.000			50.00		1.218	
44	8:48		10.000			50.00		0.661	
45	8:49		20.000			50.00		0.334	
46	8:43	1.00	10.000	0.10	51.94	50.00	0.119	0.114	1.04
47	9:06		10.000			50.00		0.057	
48	8:52		10.000			50.00		0.198	
49	8:54		10.000			50.00		0.190	
50	8:57		10.000			50.00		0.326	
51	9:01		20.000			50.00		0.426	
52	9:14		10.000			50.00		0.200	
53	9:26		10.000			50.00		0.435	
54	9:26		10.000			50.00		0.038	
55	9:33		10.000			50.00		0.253	
56	9:33		10.000			50.00		0.003	
57	9:42		10.000			50.00		0.853	
58	9:50		10.000			50.00		0.502	
59	11:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:55		10.000			100.00		0.601	
61	9:55		10.000			100.00		0.601	
62	9:54		10.000			50.00		0.339	
63	10:03		20.000			50.00		0.415	
64	10:07		20.000			50.00		0.417	
65	10:16		20.000			50.00		0.514	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:22		10.000			50.00		1.441	
67	10:25		10.000			50.00		1.170	
68	10:19		10.000			50.00		0.594	
69	10:29		10.000			50.00		0.545	
70	10:37		20.000			50.00		0.513	
71	10:40		20.000			50.00		0.278	
72	10:43		10.000			50.00		1.552	
73	10:49		10.000			50.00		0.393	
74	10:57		10.000			50.00		1.901	
75	11:04		20.000			50.00		0.424	
76	11:12		10.000			50.00		1.153	
77	11:13		40.000			50.00		0.149	
78	11:15		10.000			50.00		0.304	
79	11:23		10.000			50.00		0.478	
80	11:26		10.000			50.00		1.679	
81	11:23		10.000			50.00		0.527	
82	11:33		20.000			50.00		0.825	
83	11:39		20.000			50.00		0.873	
84	11:35		20.000			50.00		0.273	
85	11:42		10.000			50.00		1.776	
86	11:49		10.000			50.00		0.524	
87	11:52		10.000			50.00		0.511	
88	11:54		10.000			50.00		1.196	
89	11:55		20.000			50.00		0.406	
90	11:54		20.000			50.00		0.453	
91	12:07		10.000			50.00		2.581	
92	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:25		0.742			50.00		1.664	
96	6:32		0.948			50.00		1.866	
97	7:46	0.99	0.875	1.01	68.64	50.00	0.741	0.540	1.37
98	10:11	1.00	0.906	1.01	77.87	50.00	1.948	1.251	1.56
99	12:14	1.00	1.118	0.98	2.99	50.00	0.013	0.221	0.06
100	15:12	1.00	10.000	0.09	97.49	50.00	2.613	1.340	1.95
101	15:23	1.00	0.907	1.00	107.64	50.00	2.173	1.009	2.15

QUANTITATION REPORT FILE: QR037844A06
DATA: QR037844A06.TI
05/18/90 12:30:00
SAMPLE: 1UL CC#337844 ID#73800107 CS#20124 ON 6
CONDS.: EXTRACTED 05/17/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 1591

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*467 D10-PHENANTHRENE (IS#4)
2	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
4	567 DIPHENYLAMINE (F3#3)
5	508 1,3,5-TRINITROBENZENE (Z9#41)
6	539 PHENACETIN (Z9#42) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9#44)
10	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9#45)
12	522 PRONAMIDE (Z9#46)
13	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9#47)
15	444 PHENANTHRENE (Q4#7) <85-01-8>
16	403 ANTHRACENE (Q4#8) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
18	516 METHAPYRILENE (Z9#48)
19	549 CYCLOPHOSPHAMIDE (Z9#49)
20	431 FLUORANTHENE (Q4#10) <206-44-0>
21	*459 D12-CHRYSENE (IS#5)
22	404 BENZIDINE (Q5#2) <92-87-5>
23	445 PYRENE (Q5#3) <129-00-0>
24	530 ARAMITE (Z9#50) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
26	523 CHLOROBENZILATE (Z9#52)
27	545 3,3'-DIMETHYLBENZIDINE (Z9#53)
28	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F5#2)
30	469 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
31	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9#57)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
34	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
35	418 CHRYSENE (Q5#8) <218-01-9>
36	*497 D12-PERYLENE
37	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
40	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
41	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
42	565 3-METHYLCHLORANTHRENE (F6#2)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
45	419 DIBENZO(A,N)ANTHRACENE (Q6#7) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	880	13:12	1	1.000	A BB	331268.	40.000	NG	33.34
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1127	16:55	21	1.000	A BB	158660.	40.000	NG	33.34
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	NOT FOUND								
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1295	19:26	36	1.000	A BB	115752.	40.000	NG	33.34
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

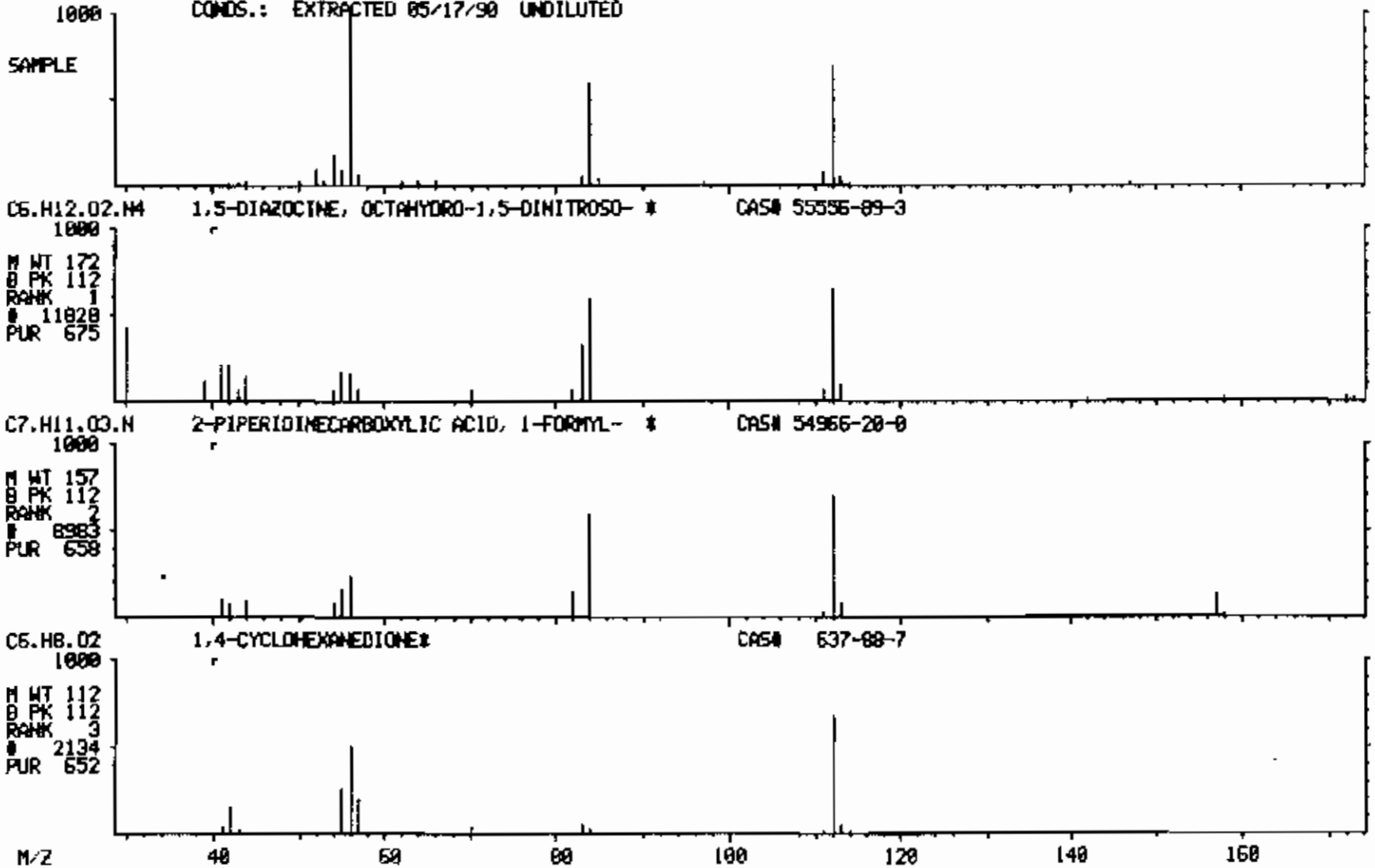
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:57		30.000			50.00		0.152	
3	12:02		10.000			100.00		0.621	
4	12:02		10.000			100.00		0.621	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:23		20.000			50.00		0.106	
6	12:27		10.000			50.00		0.653	
7	12:34		10.000			50.00		0.208	
8	12:25		10.000			25.00		0.123	
9	12:41		10.000			50.00		0.221	
10	12:40		10.000			50.00		0.326	
11	12:55		10.000			50.00		0.723	
12	12:58		10.000			50.00		0.453	
13	12:56		20.000			50.00		0.202	
14	12:57		10.000			50.00		0.113	
15	13:15		10.000			50.00		1.268	
16	13:20		10.000			50.00		1.289	
17	13:56		10.000			50.00		1.963	
18	14:23		20.000			50.00		0.491	
19	14:40		50.000			200.00		0.047	
20	14:54		10.000			50.00		1.185	
21	16:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	15:02		10.000			50.00		0.140	
23	15:14		10.000			50.00		1.461	
24	15:25		20.000			50.00		0.230	
25	15:35		10.000			50.00		0.261	
26	15:37		10.000			50.00		1.028	
27	16:03		20.000			50.00		0.425	
28	16:02		10.000			50.00		1.159	
29	16:25		10.000			50.00		0.527	
30	16:50		10.000			50.00		0.206	
31	16:50		10.000			50.00		0.298	
32	16:45		10.000			50.00		0.144	
33	16:49		10.000			50.00		1.604	
34	16:55		10.000			50.00		1.162	
35	16:58		10.000			50.00		1.143	
36	19.25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:46		10.000			50.00		3.641	
38	18:38		10.000			50.00		1.561	
39	18:36		10.000			50.00		0.545	
40	18:41		10.000			50.00		0.520	
41	19:19		10.000			50.00		1.191	
42	20:05		10.000			50.00		0.659	
43	21:40		10.000			50.00		0.812	
44	22:17		10.000			50.00		1.221	
45	22:19		10.000			50.00		1.110	
46	23:09		10.000			50.00		0.877	
47	12:33		10.000			25.00		0.172	

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GR037044A06 # 396 BASE M/Z: 56
ENHANCED (100 2N 0T) RIC: 226559.
ON 6

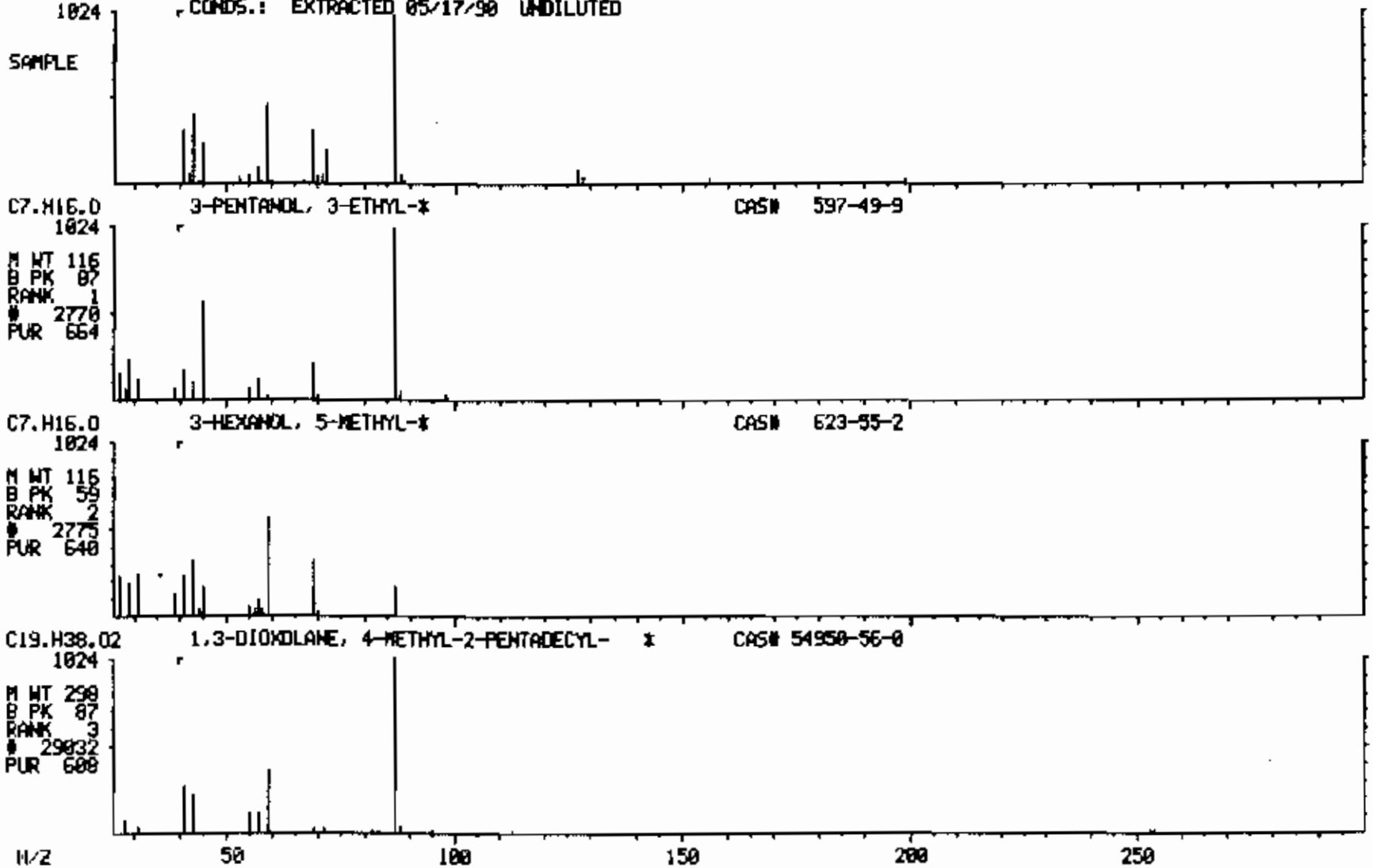
05/18/90 12:30:00 + 5:57
SAMPLE: 1UL CC#337844 ID#73800107 CS#20124
CONDS.: EXTRACTED 05/17/90 UNDILUTED



COMPUCHEM LABS, INC.

05/10/90 12:30:00 + 6:42
SAMPLE: 1UL CC#337044 ID#73800107 RE [illegible] CS#20124
CONDS.: EXTRACTED 05/17/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037044A06 # 446 BASE M/Z: 87
ENHANCED (100 2H 0T) RIC: 838655.
ON 6



MAST5-6

LAB INSTPUCTIONS:

CASE#: 20124 DUE DATE:

GC/MS WORKSHEET COMPUCHEM#: 337844R J1 [ ] R1[X] D1 [ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

SEMI-VOA + L.S. 3rd Ed SW-846, METHOD 8270
S-V EXTRACTION, EPA/METHOD 3510
LOW LEVEL LIQUID

[redacted]

Sample Prep Code---079
Instrument Code----280
Compound List------379
Surrogate Std------393
Internal Std-------035

1S PEAK LIBRARY SEARCH REQUIRED

SAS#: EPA#: 73800107 RE 5th 5-21-90

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 05/17/90
JFTPP Filename DH900518C06 Disk ( )
Standard Filename HH900518C06 Disk ( )
Sample Filename GR037844A06 Disk ( )

RECEIVED
MAY 22 1990

ANALYST(S): Injection [illegible] Work-up ISA

GC/MS REVIEW

CONDITION CODE: ES

complete
5.18.90 (JM)

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,HL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS
ED,IF,LA,DI,CO,RN,DW,DA

Disposition: [✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 2

# of Hits: 0

# of Surrogate Outliers: 3

Quality Assurance Notice(s):

Notices Required 2

GC/MS Review [signature] Date 5/21/90 Auditor [signature] Date 5/21/90

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): GR037844A06 / GH037844C02

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

AC516 (06/87)

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: Tammy Williams

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1289

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL(ml) SV B/N	FINAL EXTRACT VOL(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337543R	-079	20124	73200 106			2 of 3	500ml	0.5		13	1	Use 500ml sample volume for BE only (ALL samples)
2	337544R			73800 107			2 of 3	500ml	0.5		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337552R		↓	74000 108			2 of 3	500ml	0.5		13	1	Conc. to 0.5ml final volume
4	337646R						—	—	—	—	—	—	add (2d) ml validation spike to BE only
(2d) 4/26/5	337648R						—	—	—	—	—	—	
6	337732R[2]		20016	mw-4			2 of 3	500ml	0.5		13	1	
7	337752R[2]		19648	E0205 1040									out R.E. Sample.
8	337564R[2]		↓	E0205 1024			3 of 3	500ml	0.5		13	1	
9	337571R		19652	AFT 5/10/90			3 of 3						→ Continuous Extract.
10													
11													
12													
13	340130	↓		SBLK31	B1		n/a	500ml	0.5	~~0.5~~ 1.0	13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	0.5ml				
	LOT	32071				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT		n/a	n/a		n/a

MANUAL COUNTER 5101 878

FINAL VOLUME YERIFIED Tammie Williams

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5/18/90

SURROGATE & SPIKE ADDED CORRECTLY BA 5-17-90 (INT / DATE)

ISSUED BY:

1289 D

823

NYDEC RA090 0507 ORGANIC

COMPUCHEM # 037844 FILE: GR037844A06 COMPOUND LIST 170 PAGE

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	465	167000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	1
481	79		PYRIDINE (Z9#1)				BDL	1
509	69		ETHYLMATHACRYLATE (Z9#2)				BDL	1
542	89		PARALDEHYDE (Z9#3)				BDL	1
510	93		2-PICOLINE (Z9#56)				BDL	2
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1
543	80		METHYL METHANE SULFONATE (Z				BDL	1
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	1
514	109		ETHYL METHANESULFONATE (Z9#				BDL	1
610	94		PHENOL (G1#3)				BDL	1
473	93		ANILINE (G1#4)				BDL	1
505	167		PENTACHLORDETHANE (Z9#8)				BDL	1
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	2
601	128		2-CHLOROPHENOL (G1#6)			2.1	20 BDL	1
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	1
506	91		BENZYL CHLORIDE (Z9#9)				BDL	1
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	1
474	108		BENZYL ALCOHOL (G1#9)				BDL	1
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	1
620	108		2-METHYLPHENOL (G1#11)				BDL	1
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	1
621	108		3-METHYLPHENOL (P1#2)				BDL	1
622	108		4-METHYLPHENOL (G1#13)				BDL	1
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	1
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	1
500	105		ACETOPHENONE (Z9#11)				BDL	1
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	1
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	1
436	117		HEXACHLOROETHANE (G1#15)				BDL	1
460	136	I	D8-NAPHTHALENE (IS#2)	579	525000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	1
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	1
438	82		ISOPHORONE (G2#2)				BDL	1
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	1
606	139		2-NITROPHENOL (G2#3)				BDL	1
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	1
518	125		BENZAL CHLORIDE (Z9#16)				BDL	1
625	122		BENZOIC ACID (G2#5)				BDL	10
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	1
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	1
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	1
439	128		NAPHTHALENE (G2#9)				BDL	1

CORRECTED/REVIEWED BY L. Hewell
(QC/MS DATA REVIEWER)

DATE 5-21-90

COMPUCHEM # 037844 FILE: GRD37844AD6 COMPOUND LIST 170 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
475	127		4-CHLOROANILINE (G2#1D)				BDL	
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	
524	108		O-PHENYLENEDIAMINE (Z9#19)			31.9	32 BDL	
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	
490	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	
608	107		P-CHLORO-M-CRESOL (G2#12)				BDL	
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	
503	162		SAFROLE (Z9#27)				BDL	
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	
495	164	I	D10-ACENAPHTHENE (IS#3)	741	24100D	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	
435	236		HEXACHLOROCYCLOPENTADIENE (				BDL	
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	
527	162		ISOSAFROLE (Z9#30)				BDL	
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	
478	65		2-NITROANILINE (G3#6)				BDL	
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	
491	168		1,4-DINITROBENZENE (F3#2)				BDL	
425	163		DIMETHYL PHTHALATE (G3#7)				BDL	
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	
402	152		ACENAPHTHYLENE (G3#8)				BDL	
479	138		3-NITROANILINE (G3#9)				BDL	
401	153		ACENAPHTHENE (G3#10)				BDL	
605	184		2,4-DINITROPHENOL (G3#11)				BDL	
607	109		4-NITROPHENOL (G3#12)				BDL	
427	165		2,4-DINITROTOLUENE (G3#14)				BDL	
476	168		DIBENZOFURAN (G3#13)				BDL	
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	
630	231		2,3,4,6-TETRACHLOROPHENOL (				BDL	
424	149		DIETHYL PHTHALATE (G3#16)				BDL	
519	97		ZINOPHOS (Z9#38)				BDL	

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1
432	166		FLUORENE (G3#18)				BDL	1
480	138		4-NITROANILINE (G3#19)				BDL	2
498	132		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	2
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	1
467	188	I	D10-PHENANTHRENE (IS#4)	880	331000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1127	159000	40.0		
497	264	I	D12-PERYLENE	1295	116000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			0.0	0.%	
612	99	S	D5-PHENOL (SS#2)			0.0	0.%	
447	82	S	D5-NITROBENZENE (SS#3)			68.6	69.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			77.9	78.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			3.0	1.%	
471	212	S	D10-PYRENE			97.5	97.%	
496	244	S	D14-TERPHENYL (SS#6)			108.0	108.%	
CHECKSUMS:								
	14268.			5087	1542000.	649.0		54.

CORRECTED/REVIEWED BY L. Brent
(GC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	NOT FOUND			21-100	
96	612	D5-PHENOL (SS#2)	NOT FOUND			10- 94	
97	447	D5-NITROBENZENE (SS#3)	68.6	100.0	69.	35-114	X
98	448	2-FLUOROBIPHENYL (SS#4)	77.9	100.0	78.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	3.0	200.0	1.	10-123	
*1	471	D10-PYRENE	97.5	100.0	97.	40-130*	X
*1	496	D14-TERPHENYL (SS#6)	108.0	100.0	108.	33-141	X

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ ML}{500.\ ML} \times 0.5ML \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ UL}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000\ UL}{500\ UL} \times 0.5ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	880	331000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	1
567	169		DIPHENYLAMINE (FD#3)				BDL	1
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	2
539	108		PHENACETIN (Z9#42)				BDL	1
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1
577	234		DIALLATE (TRANS ISOMER)				BDL	1
541	125		DIMETHOATE (Z9#44)				BDL	1
433	284		HEXACHLOROBENZENE (Q4#5)				BDL	1
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	1
522	173		PRONAMIDE (Z9#46)				BDL	1
609	266		PENTACHLOROPHENOL (Q4#6)				BDL	2
453	236		PENTACHLORONITROBENZENE (Z9				BDL	1
444	178		PHENANTHRENE (Q4#7)				BDL	1
403	178		ANTHRACENE (Q4#8)				BDL	1
426	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL	1
516	97		METHAPYRILENE (Z9#48)				BDL	2
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	5
431	202		FLUORANTHENE (Q4#10)				BDL	1
459	240	I	D12-CHRYSENE (IS#5)	1127	159000	40.0		
404	184		BENZIDINE (Q5#2)				BDL	1
445	202		PYRENE (Q5#3)				BDL	1
530	185		ARAMITE (Z9#50)				BDL	2
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1
523	139		CHLOROBENZILATE (Z9#52)				BDL	1
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	2
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	1
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	1
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	1
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	1
A13	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	1
405	228		BENZO(A)ANTHRACENE (Q5#6)				BDL	1
418	228		CHRYSENE (Q5#8)				BDL	1
497	264	I	D12-PERYLENE	1295	116000	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	1
407	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	1
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1
409	252		BENZO(K)FLUORANYHENE (Q6#4)				BDL	1
406	252		BENZO(A)PYRENE (Q6#5)				BDL	1
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	1
566	279		DIBENZO(A,J)ACRIDINE				BDL	1

CORRECTED/REVIEWED BY S. Rendt
(QC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	1
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	1
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	1
576	234		DIALLATE (CIS ISOMER)				BDL	1
531	234		DIALLATE (TOTAL)				BDL	1
CHECKSUMS:								
10114.				3302	606000.	120.0	0.	

CORRECTED/REVIEWED BY J. Hewett
(QC/MS DATA REVIEWER)

DATE 5-21-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hewitt
(GC/MS DATA REVIEWER)

DATE 5-21-90

QUALITY ASSURANCE NOTICE

CompuChem # 337844

Client ID # 73800197

Case 20124

Surrogate recoveries for the SV fraction of this sample fell outside quality control limit in both the original and repeated extractions. Results were comparable between the two analyses. Since all other QC criteria associated with these analyses were met, we have attributed the out-of-control surrogate recoveries to the particular sample matrix, rather than to deficiencies in the laboratory's analytical system.

Under some circumstances, depending on the client's requirements, both sets of data will be reported. When only one report is required, the analyst considers whether or not the reextraction was completed within holding time specification in deciding which set of data to report. If holding times were met for both extractions, the analysis that appears to be least affected by the sample matrix will be reported.

Reviewer's Initials/ID L. Hamill / 1747

Date 5-11-90

QAN35
880208

COMPUCHEM
LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

70800108

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337845

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037845C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

(1) - Cannot be separated from Diphenylamine

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	100	U
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800108

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337845

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037845C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0--------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0--------Pyrene	10	U
140-57-8--------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6--------Chlorobenzilate	10	U
119-93-7--------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4--------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4--------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9--------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0--------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800108

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337845

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037845C22

Lavel: (low/med) LOW Date Received: 05/09/90

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

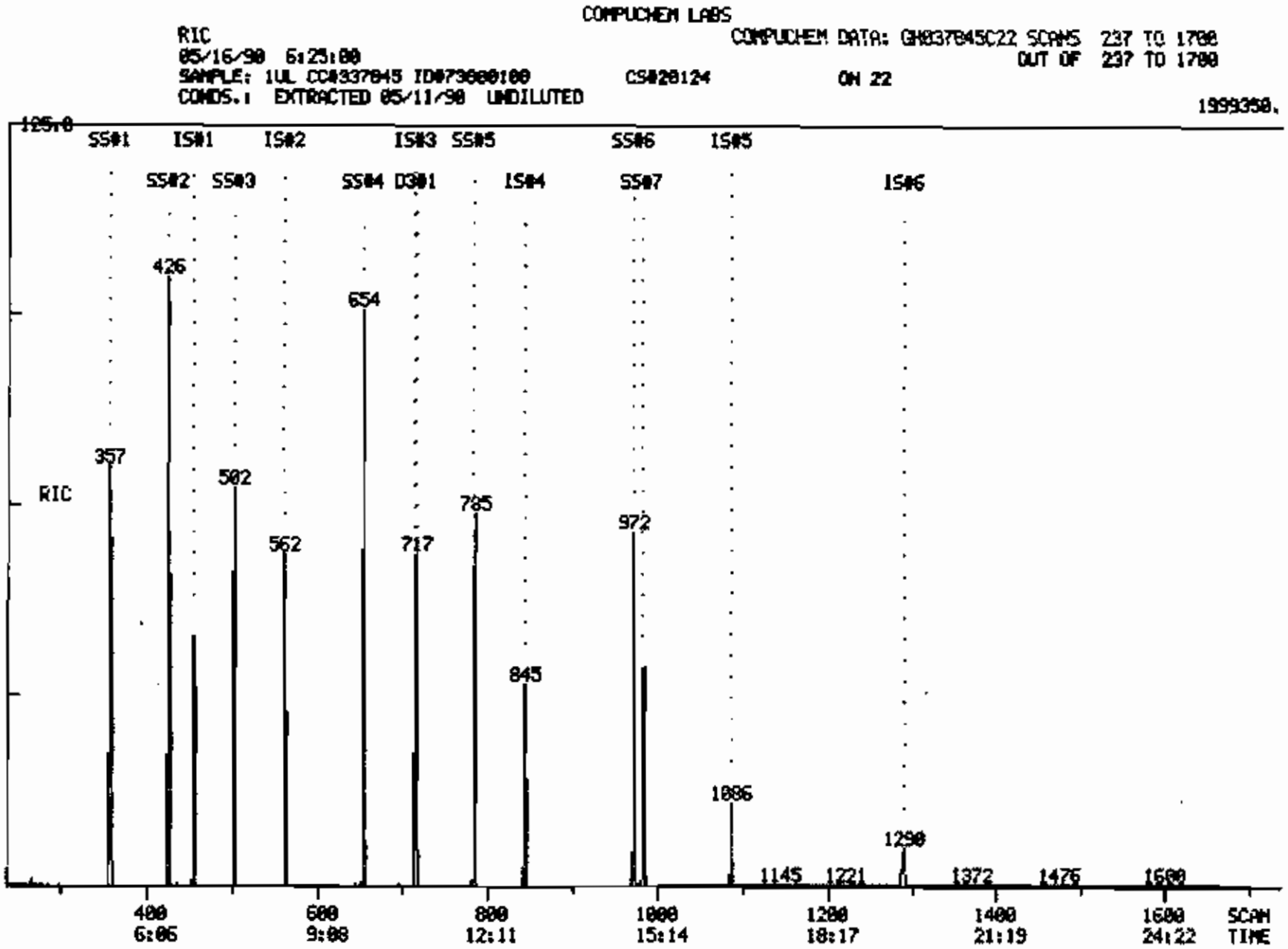
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q


COMPUCHEM LABS
RIC
05/16/90 6:25:00
SAMPLE: 1UL CC#337845 ID#73000100
COMDS.: EXTRACTED 05/11/90 UNDILUTED
CS#20124
ON 22
COMPUCHEM DATA: GM#337845C22 SCANS 237 TO 1700
OUT OF 237 TO 1700
1999350.
125+0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D#1
IS#4
SS#7
IS#6
426
654
357
502
RIC
562
717
785
972
845
1086
1290
1145
1221
1372
1476
1600
400
6:05
600
9:08
800
12:11
1000
15:14
1200
18:17
1400
21:19
1600
24:22
SCAN
TIME

```
QUANTITATION REPORT    FILE: 0H037845C22
DATA: 0H037845C22.TI
05/16/90  6:25:00
SAMPLE: 1UL CC#337845 ID#73800108          CS#20124              ON 22
CONDS.:  EXTRACTED 05/11/90  UNDILUTED
SUBMITTED BY:      22        ANALYST:       619

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  *494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  481 PYRIDINE (Z9#1)
  4  509 ETHYLMATHACRYLATE (Z9#2)
  5  542 PARALDEHYDE (Z9#3)
  6  510 2-PICOLINE (Z9#56)
  7  535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
  8  543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
  9  499 N-NITROSODIETHYLAMINE (Z9#6)
 10  514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
 11  610 PHENOL (G1#3) <108-95-2>
 12  473 ANILINE (G1#4) <62-53-3>
 13  505 PENTACHLOROETHANE (Z9#8)
 14  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
 15  601 2-CHLOROPHENOL (G1#6) <95-57-8>
 16  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
 17  506 BENZYL CHLORIDE (Z9#9)
 18  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
 19  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 20  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 21  620 2-METHYLPHENOL (G1#11) <95-48-7>
 22  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 23  621 3-METHYLPHENOL (P1#2) <108-39-4>
 24  622 4-METHYLPHENOL (G1#13) <106-44-5>
 25  528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
 26  544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
 27  500 ACETOPHENONE (Z9#11)
 28  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 29  512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
 30  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 31  *460 D8-NAPHTHALENE (I8#2)
 32  440 NITROBENZENE (G1#16) <98-95-3>
 33  502 N-NITROSOPIPERIDINE
 34  438 ISOPHORONE (G2#2) <78-59-1>
 35  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 36  606 2-NITROPHENOL (G2#3) <88-75-5>
 37  451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
 38  518 BENZAL CHLORIDE (Z9#16) <98-87-3>
 39  625 BENZOIC ACID (G2#5) <65-85-0>
 40  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 41  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 42  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 43  439 NAPHTHALENE (G2#9) <91-20-3>
 44  479 4-CHLOROANILINE (G2#10) <106-47-8>
 45  631 2,6-DICHLOROPHENOL (Z9#18)
 46  524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>
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NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	439 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D10-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	455	6:56	1	1.000	A BB	154696.	40.000 NG	4.03
2	42	NOT FOUND							
3	79	NOT FOUND							
4	69	NOT FOUND							
5	89	NOT FOUND							
6	93	NOT FOUND							
7	88	NOT FOUND							
8	80	NOT FOUND							
9	102	NOT FOUND							
10	109	NOT FOUND							
11	94	NOT FOUND							
12	93	NOT FOUND							
13	167	NOT FOUND							
14	93	NOT FOUND							
15	128	NOT FOUND							
16	146	NOT FOUND							
17	91	NOT FOUND							
18	146	NOT FOUND							
19	108	NOT FOUND							
20	146	NOT FOUND							
21	108	NOT FOUND							
22	45	NOT FOUND							
23	108	NOT FOUND							
24	108	NOT FOUND							
25	100	NOT FOUND							
26	116	NOT FOUND							
27	105	NOT FOUND							
28	70	NOT FOUND							
29	106	NOT FOUND							
30	117	NOT FOUND							
31	136	562	8:34	31	1.000	A BB	503212.	40.000 NG	4.03
32	77	NOT FOUND							
33	114	NOT FOUND							
34	82	NOT FOUND							
35	107	NOT FOUND							
36	139	NOT FOUND							
37	180	NOT FOUND							
38	125	NOT FOUND							
39	122	NOT FOUND							
40	93	NOT FOUND							
41	162	NOT FOUND							
42	180	NOT FOUND							
43	128	NOT FOUND							
44	127	NOT FOUND							
45	162	NOT FOUND							
46	108	562	8:34	31	1.000	A BB	81312.	50.908 NG	5.13
47	91	NOT FOUND							
48	213	NOT FOUND							
49	225	NOT FOUND							
50	180	NOT FOUND							
51	159	NOT FOUND							
52	84	NOT FOUND							
53	107	NOT FOUND							
54	108	NOT FOUND							
55	162	NOT FOUND							
56	108	NOT FOUND							

NYDEC RA090 0507 ORGANIC

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	715	10:53	59	1.000	A BB	235848.	40.000	NG	4.03
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	845	12:32	92	1.000	A BB	302384.	40.000	NG	4.03
93	240	1086	16:32	93	1.000	A BB	151008.	40.000	NG	4.03
94	264	1290	19:39	94	1.000	A BB	111036.	40.000	NG	4.03
95	112	357	5:26	1	0.785	A BB	712504.	98.521	NG	9.94
96	99	426	6:29	1	0.936	A BB	687976.	78.789	NG	7.95
97	82	502	7:39	31	0.893	A BB	539264.	67.140	NG	6.77
98	172	694	9:58	99	0.915	A BB	995012.	78.922	NG	7.96
99	330	784	11:36	59	1.097	A BB	100688.	204.551	NG	20.63
100	212	972	14:48	93	0.895	A BV	499916.	88.157	NG	8.89
101	244	982	14:57	93	0.904	A BV	375168.	84.540	NG	8.53

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:91		10.000			50.00		1.348	
3	3:52		10.000			50.00		1.942	
4	4:25		10.000			50.00		1.888	
5	4:25		10.000			50.00		0.370	
6	4:47		20.000			50.00		2.081	
7	4:55		10.000			200.00		0.439	
8	5:15		10.000			90.00		1.569	
9	5:44		10.000			90.00		0.983	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:03		10.000			50.00		1.052	
11	6:31		10.000			50.00		2.859	
12	6:35		10.000			50.00		3.199	
13	6:37		10.000			50.00		0.329	
14	6:38		20.000			50.00		2.291	
15	6:44		10.000			50.00		1.882	
16	6:55		10.000			50.00		1.946	
17	6:59		10.000			50.00		4.277	
18	6:59		10.000			50.00		1.947	
19	7:07		10.000			50.00		1.211	
20	7:12		10.000			50.00		1.777	
21	7:15		10.000			50.00		1.716	
22	7:19		10.000			50.00		2.437	
23	7:25		10.000			100.00		1.814	
24	7:25		10.000			100.00		1.814	
25	7:26		10.000			50.00		0.932	
26	7:27		10.000			50.00		0.453	
27	7:28		10.000			50.00		2.822	
28	7:29		10.000			50.00		1.698	
29	7:31		10.000			50.00		2.067	
30	7:37		10.000			50.00		1.040	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:41		10.000			50.00		0.590	
33	7:52		10.000			50.00		0.205	
34	7:58		10.000			50.00		1.121	
35	8:06		10.000			50.00		0.532	
36	8:05		10.000			50.00		0.228	
37	8:07		10.000			50.00		0.284	
38	8:08		10.000			50.00		0.784	
39	8:12		100.000			50.00		0.189	
40	8:13		10.000			50.00		0.558	
41	8:23		10.000			50.00		0.270	
42	8:31		10.000			50.00		0.296	
43	8:36		10.000			50.00		1.306	
44	8:39		10.000			50.00		0.643	
45	8:41		20.000			50.00		0.307	
46	8:34	1.00	10.000	0.10	50.91	50.00	0.129	0.127	1.02
47	8:47		10.000			50.00		0.071	
48	8:45		10.000			50.00		0.141	
49	8:49		10.000			50.00		0.130	
50	8:50		10.000			50.00		0.261	
51	8:55		20.000			50.00		0.419	
52	9:06		10.000			50.00		0.193	
53	9:15		10.000			50.00		0.451	
54	9:15		10.000			50.00		0.030	
55	9:21		10.000			50.00		0.262	
56	9:21		10.000			50.00		0.001	
57	9:29		10.000			50.00		0.982	
58	9:38		10.000			50.00		0.320	
59	10:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:46		10.000			100.00		0.449	
61	9:46		10.000			100.00		0.449	
62	9:48		10.000			50.00		0.182	
63	9:53		20.000			50.00		0.330	
64	9:56		20.000			50.00		0.325	
65	10:01		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:09		10.000			50.00		1.495	
67	10:11		10.000			50.00		1.104	
68	10:10		10.000			50.00		0.427	
69	10:17		10.000			50.00		0.583	
70	10:21		20.000			50.00		0.433	
71	10:24		20.000			50.00		0.204	
72	10:31		10.000			50.00		1.495	
73	10:38		10.000			50.00		0.307	
74	10:42		10.000			50.00		1.917	
75	10:49		20.000			50.00		0.348	
76	10:57		10.000			50.00		1.317	
77	10:57		40.000			50.00		0.108	
78	11:00		10.000			50.00		0.319	
79	11:09		10.000			50.00		0.429	
80	11:10		10.000			50.00		1.693	
81	11:12		10.000			50.00		0.341	
82	11:15		20.000			50.00		0.818	
83	11:21		20.000			50.00		0.887	
84	11:22		20.000			50.00		0.174	
85	11:27		10.000			50.00		1.719	
86	11:35		10.000			50.00		0.436	
87	11:35		10.000			50.00		0.438	
88	11:37		10.000			50.00		1.334	
89	11:38		20.000			50.00		0.354	
90	11:38		20.000			50.00		0.383	
91	11:48		10.000			50.00		2.253	
92	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:27	1.00	0.742	1.06	98.52	50.00	3.685	1.870	1.97
96	6:30	1.00	0.948	0.99	78.79	50.00	3.958	2.258	1.58
97	7:40	1.00	0.875	1.02	67.14	50.00	0.857	0.638	1.34
98	9:59	1.00	0.906	1.01	78.92	50.00	2.018	1.279	1.58
99	11:57	1.00	1.118	0.98	204.55	50.00	0.342	0.083	4.09
100	14:49	1.00	10.000	0.09	88.16	50.00	2.627	1.490	1.76
101	14:58	1.00	0.907	1.00	84.54	50.00	1.988	1.176	1.69

```
QUANTITATION REPORT     FILE: GH037845C22
DATA: GH037845C22.TI
05/16/90  6:25:00
SAMPLE: 1UL CC#337845 ID#73800108          CS#20124              ON 22
CONDS.:  EXTRACTED 05/11/90  UNDILUTED
SUBMITTED BY:      22        ANALYST:       619

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO  NAME
  1  *467 D10-PHENANTHRENE (I9#4)
  2  604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
  3  443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
  4  567 DIPHENYLAMINE (F3#3)
  5  508 1,3,5-TRINITROBENZENE (Z9#41)
  6  539 PHENACETIN (Z9#42) <63-44-2>
  7  414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
  8  577 DIALLATE (TRANS ISOMER)
  9  541 DIMETHOATE (Z9#44)
 10  433 HEXACHLOROBENZENE (G4#5) <118-74-1>
 11  485 4-AMINOBIPHENYL (Z9#45)
 12  522 PRONAMIDE (Z9#46)
 13  609 PENTACHLOROPHENOL (G4#6) <87-86-5>
 14  453 PENTACHLORONITROBENZENE (Z9#47)
 15  444 PHENANTHRENE (G4#7) <85-01-8>
 16  403 ANTHRACENE (G4#8) <120-12-7>
 17  426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
 18  516 METHAPYRILENE (Z9#48)
 19  549 CYCLOPHOSPHAMIDE (Z9#49)
 20  431 FLUORANTHENE (G4#10) <206-44-0>
 21  *459 D12-CHRYSENE (I8#5)
 22  404 BENZIDINE (G5#2) <92-87-5>
 23  445 PYRENE (G5#3) <129-00-0>
 24  530 ARAHITE (Z9#50) <140-57-4>
 25  487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26  523 CHLOROBENZILATE (Z9#52)
 27  545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28  415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
 29  488 2-ACETYLAMINO FLUORENE (F5#2)
 30  489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31  423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
 32  533 DIMETHOXYBENZIDINE (Z9#57)
 33  413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
 34  405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
 35  418 CHRYSENE (G5#8) <218-01-9>
 36  *497 D10-PERYLENE (I8#6)
 37  429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
 38  407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
 39  517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40  409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
 41  406 BENZO(A)PYRENE (G6#5) <50-32-8>
 42  565 3-METHYLCHLORANTHRENE (F6#2)
 43  566 DIBENZO(A,J)ACRIDINE
 44  437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
 45  419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
 46  408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
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NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	845	12:52	1	1.000	A BB	302384.	40.000	NG	32.43
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1086	16:32	21	1.000	A BB	151008.	40.000	NG	32.43
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	972	14:48	21	0.895	A BB	504.	3.356	NG	2.72
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1290	19:39	36	1.000	A BB	111036.	40.000	NG	32.43
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:43		30.000			50.00		0.111	
3	11:45		10.000			100.00		0.815	
4	11:45		10.000			100.00		0.815	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.060	
6	12:08		10.000			50.00		0.642	
7	12:14		10.000			50.00		0.165	
8	12:09		10.000			25.00		0.106	
9	12:25		10.000			50.00		0.180	
10	12:28		10.000			50.00		0.197	
11	12:35		10.000			50.00		0.749	
12	12:40		10.000			50.00		0.412	
13	12:41		20.000			50.00		0.104	
14	12:48		10.000			50.00		0.078	
15	12:55		10.000			50.00		1.304	
16	12:59		10.000			50.00		1.311	
17	13:36		10.000			50.00		1.997	
18	14:03		20.000			50.00		0.408	
19	14:19		50.000			200.00		0.024	
20	14:32		10.000			50.00		1.024	
21	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:38		10.000			50.00		0.134	
23	14:51		10.000			50.00		2.070	
24	14:49	1.00	20.000	0.04	3.36	50.00	0.003	0.040	0.07
25	15:10		10.000			50.00		0.271	
26	15:13		10.000			50.00		1.379	
27	15:37		20.000			50.00		0.509	
28	15:36		10.000			50.00		1.321	
29	16:00		10.000			50.00		0.619	
30	16:23		10.000			50.00		0.179	
31	16:25		10.000			50.00		0.242	
32	16:21		10.000			50.00		0.147	
33	16:25		10.000			50.00		1.809	
34	16:32		10.000			50.00		1.166	
35	16:36		10.000			50.00		1.114	
36	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:30		10.000			50.00		2.696	
38	18:41		10.000			100.00		1.002	
39	18:41		10.000			50.00		0.487	
40	18:41		10.000			100.00		1.002	
41	19:31		10.000			50.00		1.192	
42	20:32		10.000			50.00		0.582	
43	22:25		10.000			50.00		0.886	
44	23:12		10.000			50.00		1.334	
45	23:12		10.000			50.00		1.100	
46	24:15		10.000			50.00		1.065	
47	12:17		10.000			25.00		0.135	

LAB INSTRUCTIONS:
SEC 8#407 CASE#RA090 SDG#0507

PPS#: _____

MAST 5-6

RECEIPT DATE: 05/09/90 CASE#: 20124

SEMI-VOLATILE
GC/MS WORKSHEET

COMPUCHEM#: 337845

J1[ ] J3[ ] D1[ ] (:1)
2J1[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER;3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: T3800108

GC/MS ANALYSIS
Volumes mixed: BN _____ ul Acid _____ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date Sample Bottle Analyzed 5/11/90
DFTPP Filename DH900514C22 Disk (30940)
Standard Filename HI900514C22 Disk ( )
Sample Filename GH0STV45C22 Disk ( )

[redacted]

ANALYST(S): Injection UA Work-up J.Colleran

GC/MS REVIEW

CONDITION CODE: 6K

Complete 5-16-90

Extraneous Peak Search Results:

# of Peaks Found: 0

# of Hits: 0

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 0

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

COMMENTS:

GC/MS Review _____ Date 5/17/90 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: _____
Final Reportable Package(s): _____/_____

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

797

ASSIGNED TO: CA Carl Hooker

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1787

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOLUME SV B/N	FINAL EXTRACT VOLUME ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337842	-079	20124	73800 105			3/3	1000	1.0		13	1	* Use 500ml sample volume for SS only
2	337843			73800 106			3/3	1000	1.0		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337844			73800 107			3/3	1000	1.0		13	1	Conc. to 0.5ml final volume
4	337845			73800 108			3/3	1000	1.0		13	1	add ml validation spike to BS only
5	337846			73800 101			1/3	1000	1.0		13	1	
6	337847			73800 112			7/9	1000	1.0		13	1	
7	337848			73800 110			1/3	1000	1.0		13	1	
8	337849			73800 109			2/3	1000	1.0		13	1	
9	337850		↓	73800 113			1/3	1000	1.0		13	1	
10	336210 R		19698	8080 66000			3/3	1000ml	1.0		13	1	*
11													
12													
13	338347	↓		SBLK 86	B1			1000ml	1.0		13	1	

		B-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0 ml				
	LOT	31922				
						valid
SPIKE	NO.		3012	2021		spike
	AMT.					
	LOT					

MANUAL COUNTER 510/889

FINAL VOLUME VERIFIED Carl A Hooker

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5-11-90

SURROGATE & SPIKE ADDED CORRECTLY A.W. 5-11-90 (INT / DATE)

ISSUED BY:

RECEIVED

NYDEC RA090 0507 ORGANIC

COMPUCHEM # 037845 FILE: GH037845C22 COMPOUND LIST 170 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME-	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS0	459	155000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	10
481	79		PYRIDINE (Z9#1)				BDL	10
509	69		ETHYLMATHACRYLATE (Z9#2)				BDL	10
542	89		PARALDEHYDE (Z9#3)				BDL	10
510	93		2-PICOLINE (Z9#54)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z986				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (G1#3)				BDL	10
473	93		ANILINE (G1#4)				BDL	10
305	167		PENTACHLOROETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20
601	128		2-CHLOROPHENOL (G1#6)				BDL	10
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	10
474	108		BENZYL ALCOHOL (G1#9)				BDL	10
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	10
620	108		2-METHYLPHENOL (G1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (G1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLOROETHANE (G1#15)				BDL	10
460	136	I	D8-NAPHTHALENE (IS#2)	562	503000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	10
502	114		N-NITROSOPIPERIDINE				BDL	10
438	82		ISOPHORONE (G2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	10
606	139		2-NITROPHENOL (G2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (G2#5)				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	10
439	128		NAPHTHALENE (G2#9)				BDL	10

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (Q2#10)				BDL	10
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	20
524	108		O-PHENYLENEDIAMINE (Z9#19)			30.9	51	10
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	10
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	10
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	10
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	10
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (Q2#12)				BDL	10
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	10
503	162		SAFROLE (Z9#27)				BDL	10
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	10
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	10
495	164	]	D10-ACENAPHTHENE (I8#3)	715	236000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	20
527	162		ISOSAFROLE (Z9#30)				BDL	20
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	10
456	216		1,2,3,4-TETRACHLORDBENZENE				BDL	10
478	65		2-NITROANILINE (Q3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	20
491	168		1,4-DINITROBENZENE (F3#2)				BDL	20
425	163		DIMETHYL PHTHALATE (Q3#7)				#DL	10
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	10
402	152		ACENAPHTHYLENE (Q3#8)				BDL	10
479	138		3-NITROANILINE (Q3#9)				BDL	20
401	153		ACENAPHTHENE (Q3#10)				BDL	10
605	184		2,4-DINITROPHENOL (Q3#11)				BDL	40
607	109		4-NITROPHENOL (Q3#12)				BDL	10
427	165		2,4-DINITROTOLUENE (Q3#14)				BDL	10
476	168		DIBENZOFURAN (Q3#13)				BDL	10
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	10
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	20
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (Q3#16)				BDL	10
519	97		ZINOPHOS (Z9#38)				BDL	10

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	10
432	166		FLUORENE (G3#18)				BDL	10
480	138		4-NITROANILINE (G3#19)				BDL	20
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	20
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	10
467	188	I	D10-PHENANTHRENE (IS#4)	845	302000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1086	131000	40.0		
497	264	I	D10-PERYLENE (IS#6)	1290	111000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			98.5	49.%	
612	99	S	D5-PHENOL (SS#2)			78.8	39.%	
447	82	S	D5-NITROBENZENE (SS#3)			67.1	67.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			78.9	79.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			205.0	102.%	
471	212	S	D10-PYRENE (SS#6)			88.2	88.%	
496	244	S	D14-TERPHENYL (SS#7)			84.5	84.%	
CHECKSUMS:								
14270.				4953	1458000.	991.9		51.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	98.5	200.0	49.	21-100	X	
96	612	D5-PHENOL (SS#2)	78.8	200.0	39.	10- 94	X	
97	447	D5-NITROBENZENE (SS#3)	67.1	100.0	67.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	78.9	100.0	79.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	205.0	200.0	102.	10-123	X	
#1	471	D10-PYRENE (SS#6)	88.2	100.0	88.	40-130*	X	
#1	496	D14-TERPHENYL (SS#7)	84.5	100.0	84.	33-141	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000\ \text{UL}}{1000\ \text{UL}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY D. Mallory
(QC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	845	302000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	30
443	169		N-NITROSODIPHENYLAMINE (G49				BDL	10
567	169		DIPHENYLAMINE (F3#3)				BDL	10
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	20
539	109		PHENACETIN (Z9#42)				BDL	10
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	10
577	234		DIALLATE (TRANS ISOMER)				BDL	10
541	125		DIMETHOATE (Z9#44)				BDL	10
433	284		HEXACHLOROBENZENE (G4#5)				BDL	10
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	10
522	173		PRONAMIDE (Z9#46)				BDL	10
609	266		PENTACHLOROPHENOL (G4#6)				BDL	20
453	237		PENTACHLORONITROBENZENE (Z9				BDL	10
444	178		PHENANTHRENE (G4#7)				BDL	10
403	178		ANTHRACENE (G4#8)				BDL	10
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	10
516	97		METHAPYRILENE (Z9#48)				BDL	20
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	50
431	202		FLUORANTHENE (G4#10)				BDL	10
459	240	I	D12-CHRYSENE (IS#5)	1086	151000	40.0		
404	184		BENZIDINE (G5#2)				BDL	10
445	202		PYRENE (G5#3)				BDL	10
530	185		ARAMITE (Z9#50)			3/4	BDL	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
523	139		CHLOROBENZILATE (Z9#52)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	10
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	10
413	149		BIS(2-ETNYLNEXYL) PHTHALATE				BDL	10
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	10
418	228		CHRYSENE (G5#8)				BDL	10
497	264	I	D10-PERYLENE (IS#6)	1290	111000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	10
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	10
406	252		BENZO(A)PYRENE (G6#5)				BDL	10
565	269		3-METHYLCHLORANTHRENE (F6#2				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	10
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	10
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	10
376	234		DIALLATE (CIS ISOMER)				BDL	10
531	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS:								
10119.				3221	564000.	123.4		3.

CORRECTED/REVIEWED BY _____
(QC/MB DATA REVIEWER)

DATE 5-17-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/HG DATA REVIEWER)

DATE 5-17-90

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800109

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337849

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH017849A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

(1) - Cannot be separated from Diphenylamine

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	100	U
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800109

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337849

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037849A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0--------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0--------Pyrene	10	U
140-57-8--------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6--------Chlorobenzilate	10	U
119-93-7--------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4--------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4--------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9--------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0--------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800109

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Caae No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337849

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH017849A22

Level: (low/med) LOW Date Received: 05/09/90

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

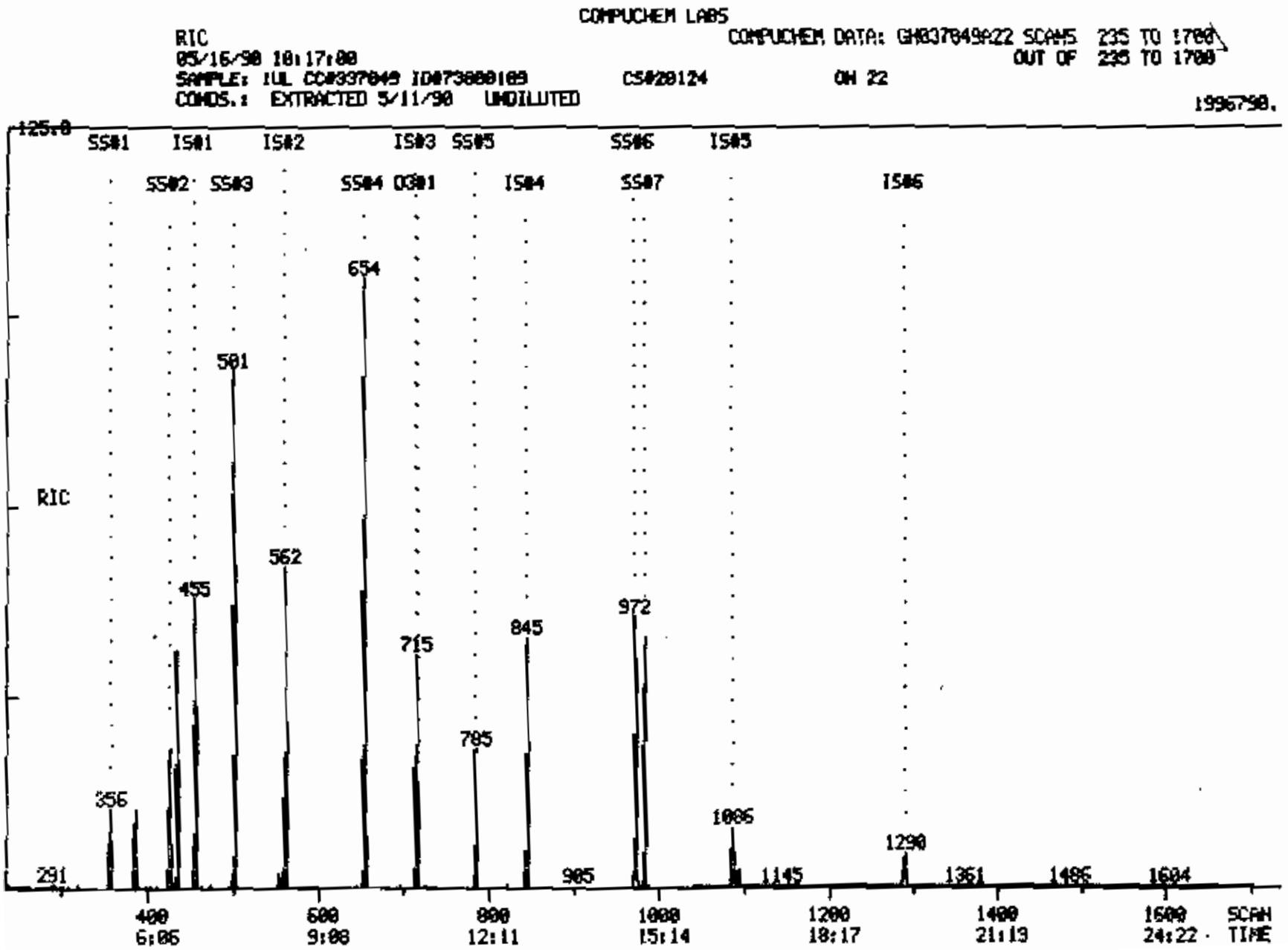
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

Number TICe found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.78	40	J
2.	UNKNOWN	6.52	86	J
3. 946-80-5	BENZENE, (PHEROXYMETHYL)-	16.40	22	J



NYDEC RA090 0507 ORGANIC

QUANTITATION REPORT FILE: GH037849A22
DATA: GH037849A22.TI
05/16/90 10:17:00
SAMPLE: IUL CC#337849 ID#73800109 C9#20124 ON 22
CONDS.: EXTRACTED 5/11/90 UNDILUTED
SUBMITTED BY: 22 ANALYST: 740

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (I9#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (I8#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSOPIPERIDINE
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	604 2-NITROPHENOL (G2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	475 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D10-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	455	6:36	1	1.000	A BB	164704.	40.000	NG	5.55
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	562	8:34	31	1.000	A BB	569280.	40.000	NG	5.55
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	562	8:34	31	1.000	A BB	91024.	50.374	NG	6.99
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	715	10:53	59	1.000	A BB	271152.	40.000	NG	5.55
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	69	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	169	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	845	12:52	92	1.000	A BB	332928.	40.000	NG	5.55
93	240	1086	16:32	93	1.000	A BB	132216.	40.000	NG	5.55
94	264	1290	19:39	94	1.000	A BB	89840.	40.000	NG	5.55
95	112	356	5:25	1	0.782	A BB	147128.	19.108	NG	2.69
96	99	425	6:28	1	0.934	A BB	215832.	23.216	NG	3.22
97	82	501	7:38	31	0.891	A BB	569924.	62.723	NG	8.70
98	172	654	9:58	59	0.915	A BB	623704.	71.957	NG	9.98
99	330	784	11:56	59	1.097	A BB	43680.	77.184	NG	10.70
100	212	972	14:48	93	0.895	A BV	443463.	90.037	NG	12.49
101	244	982	14:57	93	0.904	A BB	336249.	86.539	NG	12.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.348	
3	3:52		10.000			50.00		1.942	
4	4:25		10.000			50.00		1.888	
5	4:25		10.000			50.00		0.370	
6	4:47		20.000			50.00		2.081	
7	4:55		10.000			200.00		0.439	
8	5:15		10.000			50.00		1.569	
9	5:44		10.000			50.00		0.983	

NYDEC RA090 8507 ORGANIC

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:03		10.000			50.00		1.052	
11	6:31		10.000			50.00		2.859	
12	6:35		10.000			50.00		3.199	
13	6:37		10.000			50.00		0.529	
14	6:38		20.000			90.00		2.281	
15	6:44		10.000			50.00		1.882	
16	6:55		10.000			50.00		1.946	
17	6:59		10.000			50.00		4.277	
18	6:59		10.000			50.00		1.947	
19	7:07		10.000			50.00		1.211	
20	7:12		10.000			50.00		1.777	
21	7:15		10.000			50.00		1.716	
22	7:19		10.000			50.00		2.437	
23	7:25		10.000			100.00		1.814	
24	7:25		10.000			100.00		1.814	
25	7:26		10.000			50.00		0.932	
26	7:27		10.000			50.00		0.453	
27	7:28		10.000			50.00		2.822	
28	7:29		10.000			50.00		1.698	
29	7:31		10.000			50.00		2.067	
30	7:37		10.000			50.00		1.040	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:41		10.000			50.00		0.590	
33	7:52		10.000			50.00		0.205	
34	7:58		10.000			50.00		1.121	
35	8:06		10.000			50.00		0.532	
36	8:05		10.000			50.00		0.228	
37	8:07		10.000			50.00		0.284	
38	8:08		10.000			50.00		0.784	
39	8:12		100.000			50.00		0.189	
40	8:13		10.000			50.00		0.558	
41	8:23		10.000			50.00		0.270	
42	8:31		10.000			50.00		0.296	
43	8:36		10.000			50.00		1.306	
44	8:39		10.000			50.00		0.643	
45	8:41		20.000			50.00		0.307	
46	8:34	1.00	10.000	0.10	50.37	50.00	0.128	0.127	1.01
47	8:47		10.000			50.00		0.071	
48	8:45		10.000			50.00		0.141	
49	8:49		10.000			50.00		0.130	
50	8:50		10.000			50.00		0.261	
51	8:55		20.000			50.00		0.419	
52	9:06		10.000			50.00		0.193	
53	9:15		10.000			50.00		0.451	
54	9:15		10.000			50.00		0.030	
55	9:21		10.000			50.00		0.262	
56	9:21		10.000			50.00		0.001	
57	9:29		10.000			50.00		0.982	
58	9:38		10.000			50.00		0.520	
59	10:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:46		10.000			100.00		0.449	
61	9:46		10.000			100.00		0.449	
62	9:48		10.000			50.00		0.182	
63	9:53		20.000			50.00		0.330	
64	9:56		20.000			50.00		0.325	
65	10:01		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:09		10.000			50.00		1.495	
67	10:11		10.000			50.00		1.104	
68	10:10		10.000			50.00		0.427	
69	10:17		10.000			50.00		0.583	
70	10:21		20.000			50.00		0.433	
71	10:24		20.000			50.00		0.204	
72	10:31		10.000			50.00		1.495	
73	10:38		10.000			50.00		0.307	
74	10:42		10.000			50.00		1.917	
75	10:49		20.000			50.00		0.348	
76	10:57		10.000			50.00		1.317	
77	10:57		40.000			50.00		0.108	
78	11:00		10.000			50.00		0.319	
79	11:09		10.000			50.00		0.429	
80	11:10		10.000			50.00		1.693	
81	11:12		10.000			50.00		0.341	
82	11:15		20.000			50.00		0.818	
83	11:21		20.000			50.00		0.887	
84	11:22		20.000			50.00		0.174	
85	11:27		10.000			50.00		1.719	
86	11:35		10.000			50.00		0.436	
87	11:35		10.000			50.00		0.438	
88	11:37		10.000			50.00		1.334	
89	11:38		20.000			50.00		0.354	
90	11:38		20.000			50.00		0.383	
91	11:48		10.000			50.00		2.253	
92	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:27	0.99	0.742	1.05	19.11	50.00	0.715	1.870	0.38
96	6:30	1.00	0.948	0.98	23.22	50.00	1.048	2.258	0.46
97	7:40	1.00	0.875	1.02	62.72	50.00	0.801	0.638	1.25
98	9:59	1.00	0.906	1.01	71.96	50.00	1.840	1.279	1.44
99	11:57	1.00	1.118	0.98	77.18	50.00	0.129	0.083	1.54
100	14:49	1.00	10.000	0.09	90.04	50.00	2.683	1.490	1.80
101	14:58	1.00	0.907	1.00	86.54	50.00	2.035	1.176	1.73

QUANTITATION REPORT FILE: GH037849A22
DATA: GH037849A22.TI
05/16/90 10:17:00
SAMPLE: 1UL CC#337849 ID#73800109 CB#20124 ON 22
COND8.: EXTRACTED 5/11/90 UNDILUTED
SUBMITTED BY: 22 ANALYST: 740

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

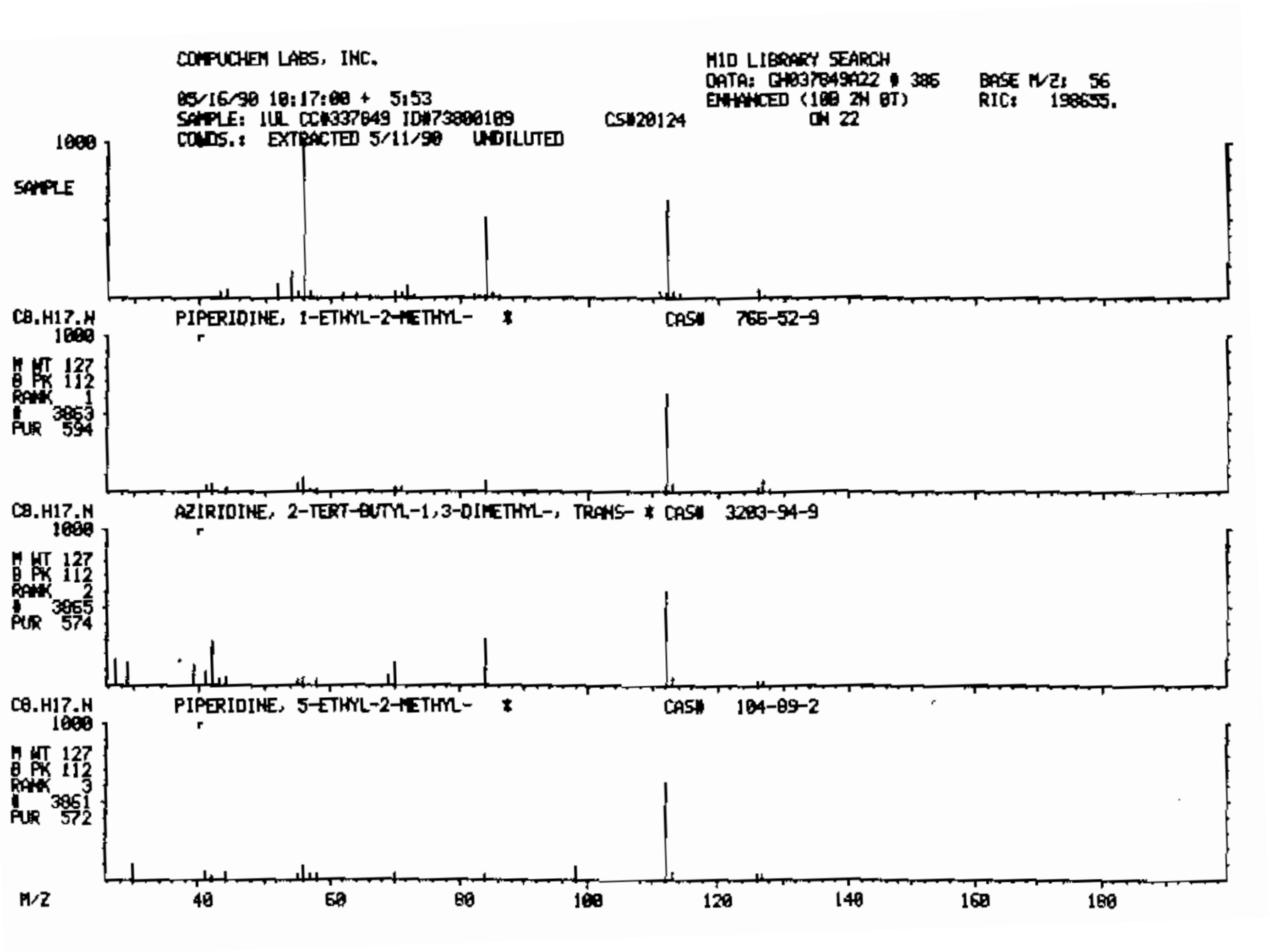
NO	NAME
1	*467 D10-PHENANTHRENE (IS#4)
2	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
4	567 DIPHENYLAMINE (F3#3)
5	508 1,3,5-TRINITROBENZENE (Z9#41)
6	539 PHENACETIN (Z9#42) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9#44)
10	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9#45)
12	522 PRONAMIDE (Z9#46)
13	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9#47)
15	444 PHENANTHRENE (G4#7) <85-01-8>
16	403 ANTHRACENE (G4#8) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
18	516 METHAPYRILENE (Z9#48)
19	549 CYCLOPHOSPHAMIDE (Z9#49)
20	431 FLUORANTHENE (G4#10) <206-44-0>
21	*459 D12-CHRYSENE (IS#5)
22	404 BENZIDINE (G5#2) <92-87-5>
23	445 PYRENE (G5#3) <129-00-0>
24	530 ARAMITE (Z9#50) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
26	523 CHLOROBENZILATE (Z9#52)
27	545 3,3'-DIMETHYLBENZIDINE (Z9#53)
28	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F5#2)
30	489 4,4'-METHYLENE-BIS(2-CHLORDANILINE) (Z9#54)
31	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9#57)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
35	418 CHRYSENE (G5#8) <218-01-9>
36	*497 D10-PERYLENE (IS#6)
37	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
40	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
41	406 BENZO(A)PYRENE (G6#5) <50-32-8>
42	569 3-METHYLCHLORANTHRENE (F6#2)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>

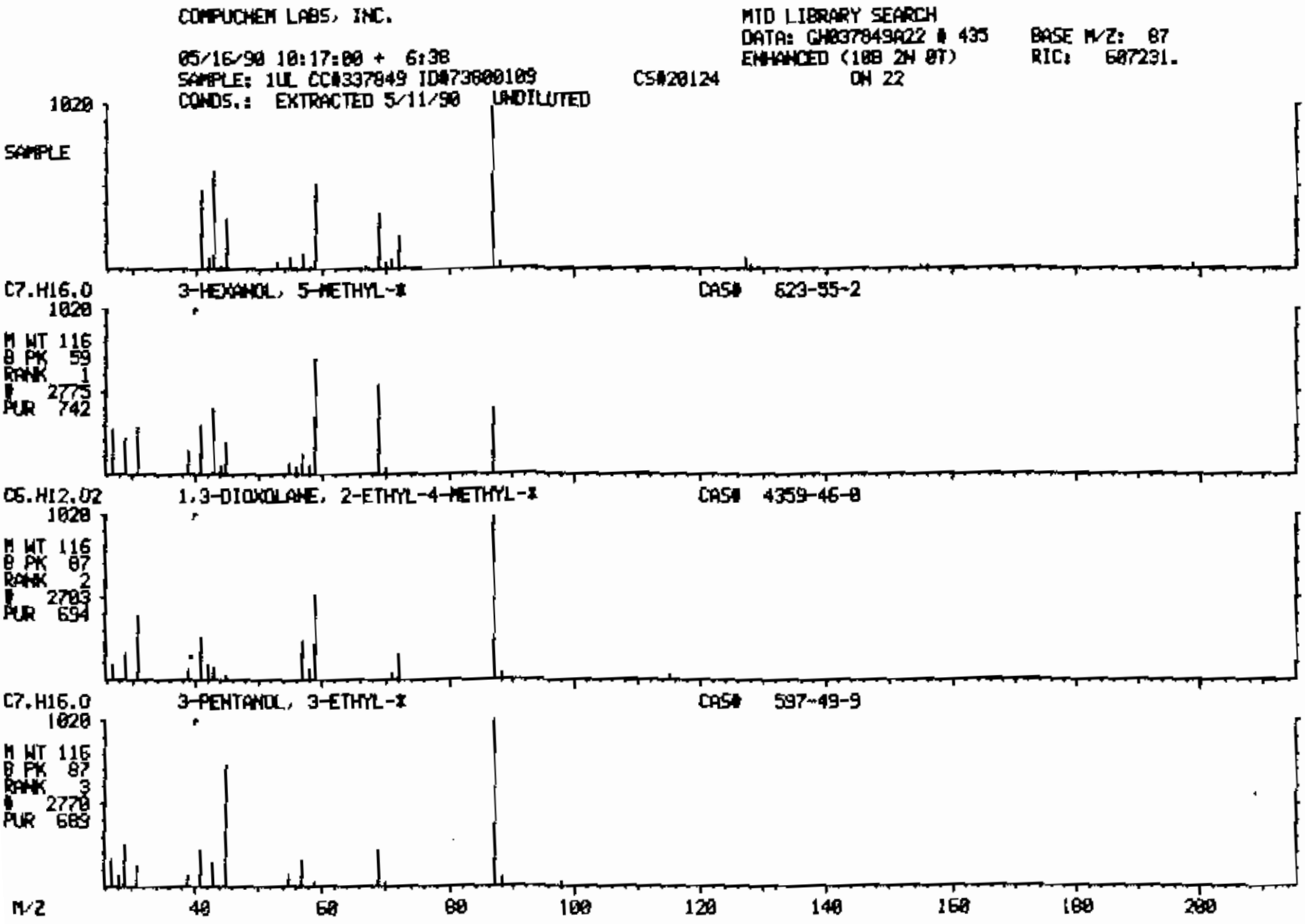
NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	845	12:52	1	1.000	A SB	332928.	40.000	NG	32.25
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1086	16:32	21	1.000	A SB	132216.	40.000	NG	32.25
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	972	14:48	21	0.895	A SB	536.	4.076	NG	3.29
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1290	19:39	36	1.000	A SB	89840.	40.000	NG	32.25
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:43		30.000			50.00		0.111	
3	11:45		10.000			100.00		0.815	
4	11:45		10.000			100.00		0.815	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.060	
6	12:08		10.000			50.00		0.642	
7	12:14		10.000			50.00		0.165	
8	12:09		10.000			25.00		0.106	
9	12:25		10.000			50.00		0.180	
10	12:28		10.000			50.00		0.197	
11	12:39		10.000			50.00		0.749	
12	12:40		10.000			50.00		0.412	
13	12:41		20.000			50.00		0.104	
14	12:48		10.000			50.00		0.078	
15	12:55		10.000			50.00		1.304	
16	12:59		10.000			50.00		1.311	
17	13:36		10.000			50.00		1.997	
18	14:03		20.000			50.00		0.408	
19	14:19		50.000			200.00		0.024	
20	14:32		10.000			50.00		1.024	
21	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:38		10.000			50.00		0.134	
23	14:51		10.000			50.00		2.070	
24	14:49	1.00	20.000	0.04	4.08	50.00	0.003	0.040	0.08
25	15:10		10.000			50.00		0.271	
26	15:13		10.000			50.00		1.379	
27	15:37		20.000			50.00		0.509	
28	15:36		10.000			50.00		1.321	
29	16:00		10.000			50.00		0.619	
30	16:23		10.000			50.00		0.179	
31	16:25		10.000			50.00		0.242	
32	16:21		10.000			50.00		0.147	
33	16:25		10.000			50.00		1.809	
34	16:32		10.000			50.00		1.166	
35	16:36		10.000			50.00		1.114	
36	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:30		10.000			50.00		2.896	
38	18:41		10.000			100.00		1.002	
39	18:41		10.000			50.00		0.487	
40	18:41		10.000			100.00		1.002	
41	19:31		10.000			50.00		1.192	
42	20:32		10.000			50.00		0.582	
43	22:25		10.000			50.00		0.886	
44	23:12		10.000			50.00		1.334	
45	23:12		10.000			50.00		1.100	
46	24:15		10.000			50.00		1.065	
47	12:17		10.000			25.00		0.135	

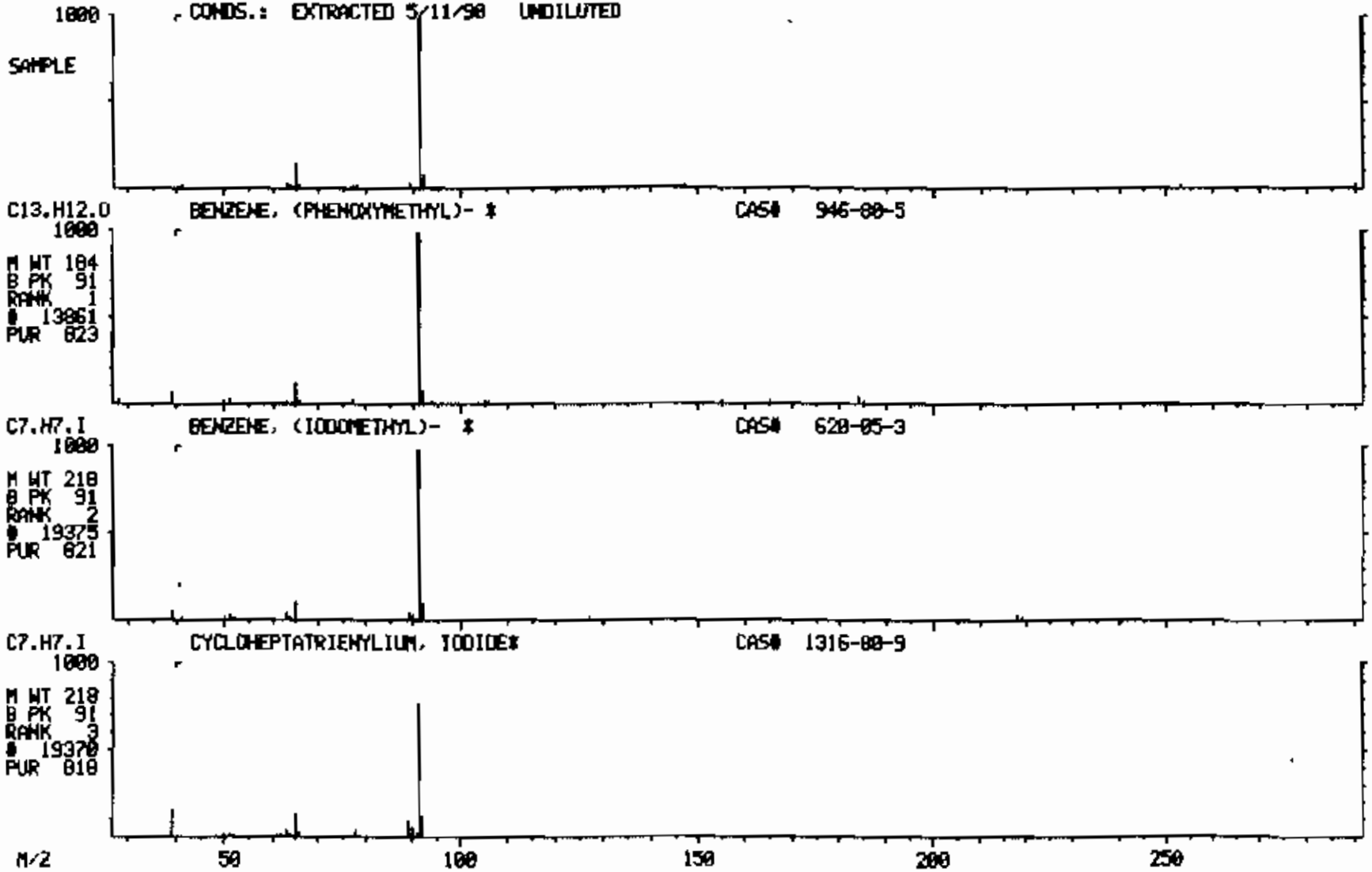

COMPUCHEM LABS, INC.
05/16/90 10:17:00 + 5:53
SAMPLE: 1UL CC#337849 ID#73800109
CONDS.: EXTRACTED 5/11/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GH037849A22 # 386
ENHANCED (100 2H 0T)
BASE M/Z: 56
RIC: 198655.
ON 22
1000
SAMPLE
C8.H17.N
PIPERIDINE, 1-ETHYL-2-METHYL- *
CAS# 766-52-9
M WT 127
B PK 112
RANK 1
3863
PUR 594
C8.H17.N
AZIRIDINE, 2-TERT-BUTYL-1,3-DIMETHYL-, TRANS- *
CAS# 3283-94-9
M WT 127
B PK 112
RANK 2
3865
PUR 574
C8.H17.N
PIPERIDINE, 5-ETHYL-2-METHYL- *
CAS# 104-89-2
M WT 127
B PK 112
RANK 3
3861
PUR 572
M/Z
40
60
80
100
120
140
160
180



COMPUCHEM LABS, INC.

05/16/90 18:17:00 + 16:40
SAMPLE: 1UL CC#337849 ID#73800109 CS#20124
COMDS.: EXTRACTED 5/11/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GM037849A22 #1094 BASE M/Z: 91
ENHANCED (100 2N 8T) RIC: 42879.
ON 22



LAB INSTRUCTIONS:
SEE FPS#407 CASE#RA090 SDG#0507

PPS#: _____

MAST 5-6

RECEIPT DATE: 05/09/90 CASE#: 20124

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 337849

J[ ] J3[ ] D[ ] (:1)
2J[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER; 3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800109

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid _____ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date Sample Bottle Analyzed 5/11/90
DFTPP Filename DH90511C22 Disk (3034)
Standard Filename MH90511C22 Disk ( )
Sample Filename GH037849A22 Disk ( )

[redacted]

ANALYST(S): Injection THO Work-up THO Gordon

GC/MS REVIEW

CONDITION CODE: SL

POSTED

Disposition: [✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results: Complete 5:16:90

# of Peaks Found: 2

# of Hits: 4

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 4

COMMENTS:

#GC/MS Review [signature] Date 5/17/90 Auditor [signature] Date 5/14/90

REPORT INTEGRATION Total # of Injections: _____
Final Reportable Package(s): GR037849C07 / GH037849A22

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: CA Carl Hooker

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1787

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL(ml) SV B/N	FINAL EXTRACT VOL(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337842	-079	20124	73780 105			3/3	1000	1.0		13	1	* Use 500ml sample volume for BS only
2	337843			73780 106			3/3	1000	1.0		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337844			73780 107			3/3	1000	1.0		13	1	Conc. to 0.5ml final volume
4	337845			73780 108			3/3	1000	1.0		13	1	add ml acidsbase spike to BS only
5	337846			73780 111			1/3	1000	1.0		13	1	
6	337847			73780 112			7/9	1000	1.0		13	1	
7	337848			73780 110			1/3	1000	1.0		13	1	
8	337849			73780 109			2/3	1000	1.0		13	1	
9	337850		↓	73780 113			1/3	1000	1.0		13	1	
10	336210[illegible]		19698	BLK 56000			3/3	1000ml	1.0		13	1	*
11													
12													
13	338547	↓		SBLK 86	B1			1000ml	1.0		13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0ml				
	LOT	31922				
						valid
SPIKE	NO.		3012	2021		spike
	AMT.					
	LOT					

MANUAL COUNTER 510/889

FINAL VOLUME VERIFIED CA Hooker

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5-11-90

SURROGATE & SPIKE ADDED CORRECTLY A.W. 5-11-90

INT DATE

ISSUED BY:

[illegible]ED

769

NYDEC RA090 0507 ORGANIC

CMP B	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	455	165000	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	10
481	79		PYRIDINE (Z9#1)				BDL	10
509	69		ETHYLMATHACRYLATE (Z9#2)				BDL	10
542	89		PARALDEHYDE (Z9#3)				BDL	10
510	93		2-PICOLINE (Z9#56)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (Q1B3)				BDL	10
473	93		ANILINE (Q1#4)				BDL	10
505	167		PENTACHLOROETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20
601	128		2-CHLOROPHENOL (Q1#6)				BDL	10
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLOROBENZENE (Q1#8)				BDL	10
474	108		BENZYL ALCOHOL (Q1#9)				BDL	10
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	10
620	108		2-METHYLPHENOL (Q1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (Q1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLOROETHANE (Q1#15)				BDL	10
460	136	I	D8-NAPHTHALENE (IS#2)	362	369000	40.0		
440	77		NITROBENZENE (Q1#16)				BDL	10
502	114		N-NITROSOPIPERIDINE				BDL	10
438	82		ISOPHORONE (Q2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (Q2#4)				BDL	10
606	139		2-NITROPHENOL (Q2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (Q2#5)				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (D2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (Q2#				BDL	10
439	128		NAPHTHALENE (Q2#9)				BDL	10

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-12-90

COMPUCHEM # 037849 FILE: QH037849A22 COMPOUND LIST 170 PAGE 2
SEMI-VOLATILE - LIQUID

CMP B	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (Q2#10)				BDL	10
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	20
524	108		O-PHENYLENEDIAMINE (Z9#19)			50.4	or 50	10
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	10
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	10
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	10
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	10
534	139		BENZOTRICHLORIDE (Z9#23)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (Q2#12)				BDL	10
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	10
503	162		SAFROLE (Z9#27)				BDL	10
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	10
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	10
495	164	I	D10-ACENAPHTHENE (IS#3)	715	271000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (Q3B4				BDL	20
527	162		ISOSAFROLE (Z9#30)				BDL	20
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	10
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	10
478	65		2-NITROANILINE (Q3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	20
491	168		1,4-DINITROBENZENE (F3#2)				BDL	20
425	163		DIMETHYL PHTHALATE (Q3#7)				BDL	10
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	10
402	152		ACENAPHTHYLENE (Q3#8)				BDL	10
479	138		3-NITROANILINE (Q3#9)				BDL	20
401	153		ACENAPHTHENE (Q3#10)				BDL	10
605	184		2,4-DINITROPHENOL (Q3#11)				BDL	40
607	109		4-NITROPHENOL (Q3#12)				BDL	10
427	165		2,4-DINITROTOLUENE (Q3#14)				BDL	10
476	168		DIBENZOFURAN (Q3#13)				BDL	10
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	10
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	20
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (Q3#16)				BDL	10
519	97		ZINOPHOS (Z9#38)				BDL	10

CORRECTED/REVIEWED BY Jan Smitock
(GC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	10
432	166		FLUORENE (G3#18)				BDL	10
480	138		4-NITROANILINE (G3#19)				BDL	20
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	20
430	77		1,2-DIPHENYLHYDRAZINE (4ZOB				BDL	10
467	188	I	D10-PHENANTHRENE (IS#4)	845	333000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1086	132000	40.0		
497	264	I	D10-PERYLENE (IS#6)	1290	89800	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			19.1	10.%	
612	99	S	D5-PHENOL (SS#2)			23.2	12.%	
447	82	S	D5-NITROBENZENE (SS#3)			62.7	63.%	
448	172	S	2-FLUORDBIPHENYL (SS#4)			72.0	72.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			77.2	39.%	
471	212	S	D10-PYRENE (SS#6)			90.0	90.%	
496	244	S	D14-TERPHENYL (SS#7)			86.5	86.%	
CHECKSUMS:								
14270.				4953	1559800.	721.1		30.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	19.1	200.0	10.	21-100		X
96	612	D5-PHENOL (SS#2)	23.2	200.0	12.	10- 94	X	
97	447	D5-NITROBENZENE (SS#3)	62.7	100.0	63.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	72.0	100.0	72.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	77.2	200.0	39.	10-123	X	
#1	471	D10-PYRENE (SS#6)	90.0	100.0	90.	40-130*	X	
#1	496	D14-TERPHENYL (SS#7)	86.5	100.0	86.	33-141	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{1000\ \text{UL}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY M. Mallory
(GC/MS DATA REVIEWER)

DATE 5-17-90

COMPUCHEM # 037849 FILE: GH037849A22 COMPOUND LIST 173 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	845	333000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	30
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	10
567	169		DIPHENYLAMINE (F3#3)				BDL	10
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	20
539	108		PHENACETIN (Z9#42)				BDL	10
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	10
577	234		DIALLATE (TRANS ISOMER)				BDL	10
541	125		DIMETHOATE (Z9#44)				BDL	10
433	284		HEXACHLOROBENZENE (G4#5)				BDL	10
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	10
522	173		PRONAMIDE (Z9#46)				BDL	10
609	266		PENTACHLOROPHENOL (G4#6)				BDL	20
453	237		PENTACHLORONITROBENZENE (Z9				BDL	10
444	178		PHENANTHRENE (G4#7)				BDL	10
403	178		ANTHRACENE (G4#8)				BDL	10
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	10
516	97		METHAPYRILENE (Z9#4B)				BDL	20
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	50
431	202		FLUORANTHENE (G4#10)				BDL	10
459	240	I	D12-CHRYSENE (IS#5)	1086	132000	40.0		
404	184		BENZIDINE (G5#2)				BDL	10
445	202		PYRENE (G5#3)				BDL	10
530	185		ARAMITE (Z9#50)			4A	BX AJ	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
523	139		CHLOROBENZILATE (Z9#52)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	10
530	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	10
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	10
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	10
418	228		CHRYSENE (G5#8)				BDL	10
497	264	I	D10-PERYLENE (IS#6)	1290	89800	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	10
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	10
406	252		BENZO(A)PYRENE (G6#5)				BDL	10
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	10
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	10
409	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	10
376	234		DIALLATE (CIS ISOMER)				BDL	10
531	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS:								
10115.				3221	554800.	124.1		4.

CORRECTED/REVIEWED BY Jan. Mallory
(QC/MB DATA REVIEWER)

DATE 5-17-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800109RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Caae No.: 20124 SAS No.: SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337849

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037849C07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. dec. Date Extrected: 05/18/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/90

GPC Cleanup: (Y/N) N pH: Oilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

108-70-3--------1,3,5-Trichlorobenzene_____	10	U
98-87-3---------Benzal chloride_____	10	U
65-85-0---------Benzoic Acid_____	100	U
111-91-1--------bis(2-Chloroethoxy)Methane___	10	U
120-83-2--------2,4-Dichlorophenol_____	10	U
120-82-1--------1,2,4-Trichlorobenzene_____	10	U
91-20-3---------Naphthalene_____	10	U
106-47-8--------4-Chloroaniline_____	10	U
87-65-0---------2,6-Dichlorophenol_____	20	U
95-54-5---------o-Phenylenediamine_____	10	U
122-09-8--------dimethylphenylethylamine_____	10	U
1888-71-7-------Hexachloropropene_____	10	U
87-68-3---------Hexachlorobutadiene_____	10	U
87-61-6---------1,2,3-Trichlorobenzene_____	10	U
98-07-7---------Benzotrichloride_____	20	U
924-16-3--------N-Nitroso-di-n-butylamine____	10	U
59-50-7---------4-Chloro-3-Methylphenol_____	10	U
106-50-3--------P-Phenylenediamine_____	10	U
94-59-7---------Safrole_____	10	U
106-50-3--------m-Phenylenediamine_____	10	U
91-57-6---------2-Methylnaphthalene_____	10	U
90-12-0---------1-Methylnaphthalene_____	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene___	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene___	10	U
77-47-4---------Hexachlorocyclopentadiene____	10	U
88-06-2---------2,4,6-Trichlorophenol_____	20	U
95-95-4---------2,4,5-Trichlorophenol_____	20	U
120-58-1--------Isosafrole_____	20	U
91-58-7---------2-Chloronaphthalene_____	10	U
90-13-1---------1-Chloronaphthalene_____	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene___	10	U
88-74-4---------2-Nitroaniline_____	10	U
130-15-4--------1,4-Naphthoquinone_____	20	U
100-25-4--------1,4-Dinitrobenzene_____	20	U
131-11-3--------Dimethyl Phthalate_____	10	U
208-96-8--------Acenaphthylene_____	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800109RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337849

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR017849C07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/18/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/90

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5	Methapyrilene	20	U
50-18-0	Cyclophosphamide	50	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	10	U
129-00-0	Pyrene	10	U
140-57-8	Aramite	20	U
60-11-7	p-Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
53-96-3	2-Acetylaminofluorene	10	U
101-14-4	Methylene-bis(2-chloroaniline	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
106-51-4	3,3'-Dimethoxybenzidine	10	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
57-97-6	7,12-Dimethylbenzanthracene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
56-49-5	3-Methylcholanthrene	10	U
224-42-0	Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800109RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337849

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR017849C07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/18/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 6

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		SOLVENT CONTAMINANT	5.72	18	BJ
2.		SOLVENT CONTAMINANT	6.13	110	BJ
3.		SOLVENT CONTAMINANT	6.28	18	BJ
4.		SOLVENT CONTAMINANT	6.50	28	BJ
5.		UNKNOWN	6.88	84	J
6.		UNKNOWN	18.00	22	J

COMPUCHEM LABS

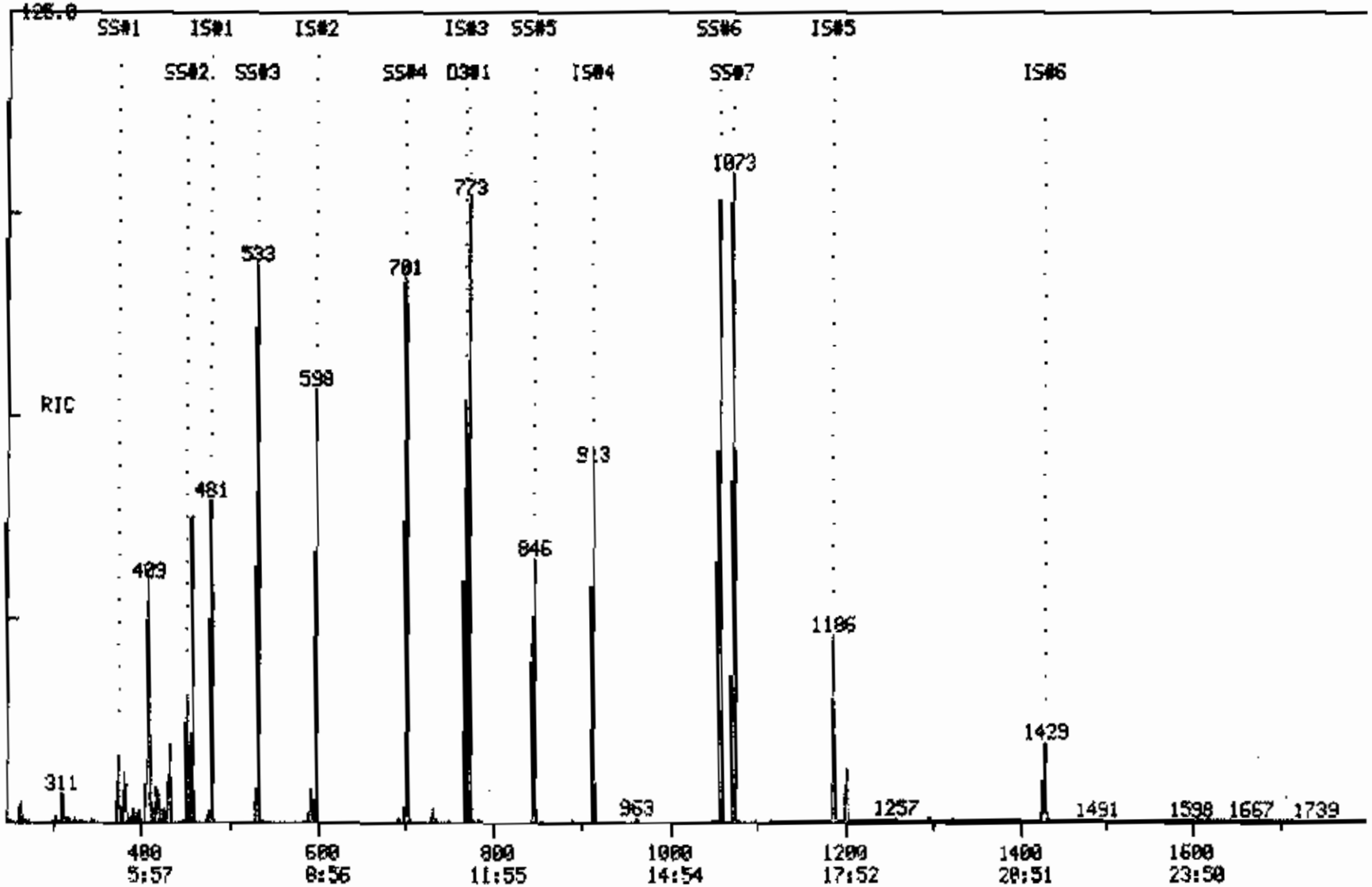
RIC

COMPUCHEM DATA: GR037849C07 SCANS 247 TO 1797
OUT OF 247 TO 1900

05/21/90 11:41:00

SAMPLE: 1UL CC#037849 ID#73000109 RE[illegible] CS#20124 ON 7

COMDS.: EXTRACTED 5/18/90 UNDILUTED



COMPUCHEM LABS

R1C
05/21/90 11:41:00
SAMPLE: 1UL CC#337849 ID#73000109 RE [illegible]CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

COMPUCHEM DATA: GR037849C07 SCANS 1797 TO 1900
OUT OF 247 TO 1900
ON 7

1500150.

SCAN
TIME

NYDEC RA090 0507 ORGI

QUANTITATION REPORT FILE: QR037849C07
DATA: QR037849C07.TI
05/21/90 11:41:00
SAMPLE: 1UL CC#337849 ID#73800109 CB#20124 ON 7
CONDS.: EXTRACTED 5/18/90 UNDILUTED
SUBMITTED BY: 7 ANALYST: 917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMETHACRYLATE (T1#4)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (IS#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSODIPIPERIDINE (Z9#14)
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	629 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	479 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9017) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9021) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2011) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9015) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9023) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9024) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2012) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9020) <106-45-2>
55	503 SAFROLE (Z9027)
56	525 M-PHENYLENEDIAMINE (Z9026) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2013) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2020) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS03)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9031) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9029) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G302) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G303) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G304) <95-95-4>
65	527 ISOSAFROLE (Z9030) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G305) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F402)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9028) <634-66-2>
69	478 2-NITROANILINE (G306) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9032)
71	491 1,4-DINITROBENZENE (F302) <100-25-4>
72	425 DIMETHYL PHTHALATE (G307) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3015) <606-20-2>
74	402 ACENAPHTHYLENE (G308) <208-96-8>
75	479 3-NITROANILINE (G309) <99-09-2>
76	401 ACENAPHTHENE (G3010) <83-32-9>
77	@605 2,4-DINITROPHENOL (G3011) <51-28-4>
78	607 4-NITROPHENOL (G3012) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3014) <121-14-2>
80	476 DIBENZOFURAN (G3013) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9033)
82	484 2-NAPHTHYLAMINE (Z9035)
83	483 1-NAPHTHYLAMINE (Z9036)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9037)
85	424 DIETHYL PHTHALATE (G3016) <84-66-2>
86	519 ZINOPHOS (Z9038)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3017) <7005-72-3>
88	432 FLUORENE (G3018) <86-73-7>
89	480 4-NITROANILINE (G3019) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9034)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9039)
92	*467 D10-PHENANTHRENE (IS04)
93	*459 D12-CHRYSENE (IS05)
94	*497 D12-PERYLENE (IS06)
95	@619 2-FLUOROPHENOL (SS01)
96	@612 D5-PHENOL (SS02)
97	@447 D5-NITROBENZENE (SS03)
98	@448 2-FLUOROBIPHENYL (SS04)
99	@628 2,4,6-TRIBROMOPHENOL (SS05)
100	@471 D10-PYRENE (SS06)
101	@496 D14-TERPHENYL (SS07)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	481	7:10	1	1.000	A BB	132672.	40.000	NG	5.46
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	598	8:54	31	1.000	A BB	431152.	40.000	NG	5.46
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	598	8:54	31	1.000	A BB	66480.	30.581	NG	6.90 N_0
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	768	11:26	59	1.000	A BB	238820.	40.000	NG	5.46
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	69	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	913	13:36	92	1.000	A BB	350280.	40.000	NG	5.46
93	240	1186	17:40	93	1.000	A BB	269788.	40.000	NG	5.46
94	264	1629	21:17	94	1.000	A BB	213692.	40.000	NG	5.46
95	112	375	5:35	1	0.780	A BV	57564.	12.510	NG	1.71
96	99	452	6:44	1	0.940	A BB	103980.	19.268	NG	2.63
97	82	533	7:56	31	0.891	A BB	429644.	72.890	NG	9.94
98	172	701	10:26	59	0.913	A BB	600936.	79.044	NG	10.78
99	330	845	12:35	59	1.100	A BB	69768.	68.645	NG	9.36
100	212	1057	15:45	93	0.891	A BV	700672.	92.693	NG	12.64
101	244	1073	15:59	93	0.905	A BB	623896.	97.630	NG	13.32

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.714	
3	3:51		10.000			50.00		1.539	
4	4:26		10.000			50.00		1.612	
5	4:27		10.000			50.00		0.349	
6	4:49		20.000			50.00		1.613	
7	4:59		10.000			200.00		0.353	
8	5:23		10.000			50.00		1.051	
9	5:51		10.000			50.00		0.701	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
10	6:14		10.000			50.00		0.726	
11	6:43		10.000			50.00		2.085	
12	6:46		10.000			50.00		2.334	
13	6:47		10.000			50.00		0.598	
14	6:50		20.000			50.00		1.628	
15	6:55		10.000			50.00		1.307	
16	7:06		10.000			50.00		1.684	
17	7:11		10.000			50.00		3.222	
18	7:11		10.000			50.00		1.749	
19	7:21		10.000			50.00		0.879	
20	7:26		10.000			50.00		1.624	
21	7:30		10.000			50.00		1.240	
22	7:34		10.000			50.00		2.479	
23	7:42		10.000			100.00		1.359	
24	7:42		10.000			100.00		1.359	
25	7:43		10.000			50.00		0.771	
26	7:44		10.000			50.00		0.373	
27	7:43		10.000			50.00		2.187	
28	7:45		10.000			50.00		1.404	
29	7:46		10.000			50.00		1.637	
30	7:50		10.000			50.00		0.820	
31	8:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:57		10.000			50.00		0.372	
33	8:09		10.000			50.00		0.198	
34	8:16		10.000			50.00		1.027	
35	8:29		10.000			50.00		0.503	
36	8:23		10.000			50.00		0.251	
37	8:24		10.000			50.00		0.409	
38	8:26		10.000			50.00		0.757	
39	8:32		100.000			50.00		0.224	
40	8:33		10.000			50.00		0.492	
41	8:42		10.000			50.00		0.332	
42	8:50		10.000			50.00		0.394	
43	8:55		10.000			50.00		1.254	
44	9:00		10.000			50.00		0.483	
45	9:01		20.000			50.00		0.359	
46	8:53	1.00	10.000	0.10	50.58	50.00	0.123	0.122	1.01
47	9:11		10.000			50.00		0.143	
48	9:05		10.000			50.00		0.214	
49	9:10		10.000			50.00		0.224	
50	9:10		10.000			50.00		0.337	
51	9:15		20.000			50.00		0.452	
52	9:30		10.000			50.00		0.189	
53	9:40		10.000			50.00		0.456	
54	9:40		10.000			50.00		0.039	
55	9:45		10.000			50.00		0.308	
56	9:46		10.000			50.00		0.043	
57	9:53		10.000			50.00		1.096	
58	10:02		10.000			50.00		0.549	
59	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	10:10		10.000			100.00		0.584	
61	10:10		10.000			100.00		0.584	
62	10:13		10.000			50.00		0.238	
63	10:19		20.000			50.00		0.416	
64	10:22		20.000			50.00		0.359	
65	10:30		20.000			50.00		0.472	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:35		10.000			50.00		1.491	
67	10:38		10.000			50.00		0.959	
68	10:36		10.000			50.00		0.604	
69	10:46		10.000			50.00		0.552	
70	10:51		20.000			50.00		0.413	
71	10:56		20.000			50.00		0.247	
72	11:04		10.000			50.00		1.394	
73	11:10		10.000			50.00		0.339	
74	11:12		10.000			50.00		1.784	
75	11:22		20.000			50.00		0.374	
76	11:28		10.000			50.00		1.217	
77	11:31		40.000			50.00		0.164	
78	11:34		10.000			50.00		0.259	
79	11:44		10.000			50.00		0.495	
80	11:41		10.000			50.00		1.604	
81	11:44		10.000			50.00		0.509	
82	11:49		20.000			50.00		0.800	
83	11:55		20.000			50.00		0.927	
84	11:56		20.000			50.00		0.286	
85	12:05		10.000			50.00		1.510	
86	12:13		10.000			50.00		0.423	
87	12:11		10.000			50.00		0.569	
88	12:12		10.000			50.00		1.367	
89	12:15		20.000			50.00		0.380	
90	12:15		20.000			50.00		0.409	
91	12:25		10.000			50.00		2.396	
92	13:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	17:39	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	21:12	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:33	1.01	0.742	1.05	12.51	50.00	0.347	1.387	0.25
96	6:42	1.00	0.948	0.99	19.27	50.00	0.627	1.627	0.39
97	7:55	1.00	0.875	1.02	72.89	50.00	0.797	0.547	1.46
98	10:26	1.00	0.906	1.01	79.04	50.00	2.013	1.273	1.58
99	12:34	1.00	1.118	0.98	68.65	50.00	0.234	0.170	1.37
100	15:44	1.00	10.000	0.09	92.69	50.00	2.078	1.121	1.85
101	15:57	1.00	0.907	1.00	97.63	50.00	1.850	0.947	1.95

QUANTITATION REPORT FILE: GR037849C07
DATA: GR037849C07.TI
05/21/90 11:41:00
SAMPLE: 1UL CC#337849 ID#73800109 RE [illegible] CB#20124 DN 7
CONDS.: EXTRACTED 5/18/90 UNDILUTED
SUBMITTED BY: 7 ANALYST: 917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*467 D10-PHENANTHRENE (IS#4)
2	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
4	567 DIPHENYLAMINE (F3#3)
5	508 1,3,5-TRINITROBENZENE (Z9#41)
6	539 PHENACETIN (Z9#42) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9#44)
10	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9#45)
12	522 PRONAMIDE (Z9#46)
13	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9#47)
15	444 PHENANTHRENE (G4#7) <85-01-8>
16	403 ANTHRACENE (G4#8) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
18	516 METHAPYRILENE (Z9#48)
19	549 CYCLOPHOSPHAMIDE (Z9#49)
20	431 FLUORANTHENE (G4#10) <206-44-0>
21	*459 D12-CHRYSENE (IS#5)
22	404 BENZIDINE (G5#2) <92-87-5>
23	445 PYRENE (G5#3) <129-00-0>
24	530 ARAMITE (Z9#50) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
26	523 CHLOROBENZILATE (Z9#52)
27	545 3,3'-DIMETHYLBENZIDINE (Z9#53)
28	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F3#2)
30	489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
31	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9#57)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
35	416 CHRYSENE (G5#8) <218-01-9>
36	*497 D12-PERYLENE (IS#6)
37	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
40	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
41	406 BENZO(A)PYRENE (G6#5) <50-32-8>
42	569 3-METHYLCHLORANTHRENE (F6#2)
43	966 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%DT
1	188	913	13:36	1	1.000	A BB	350280.	40.000	NG	33.02
2	196	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	176	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1186	17:40	21	1.000	A BB	269788.	40.000	NG	33.02
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	1073	15:59	21	0.905	A BB	1000.	1.162	NG	0.96 A/O
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1429	21:17	36	1.000	A BB	213692.	40.000	NG.	33.02
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

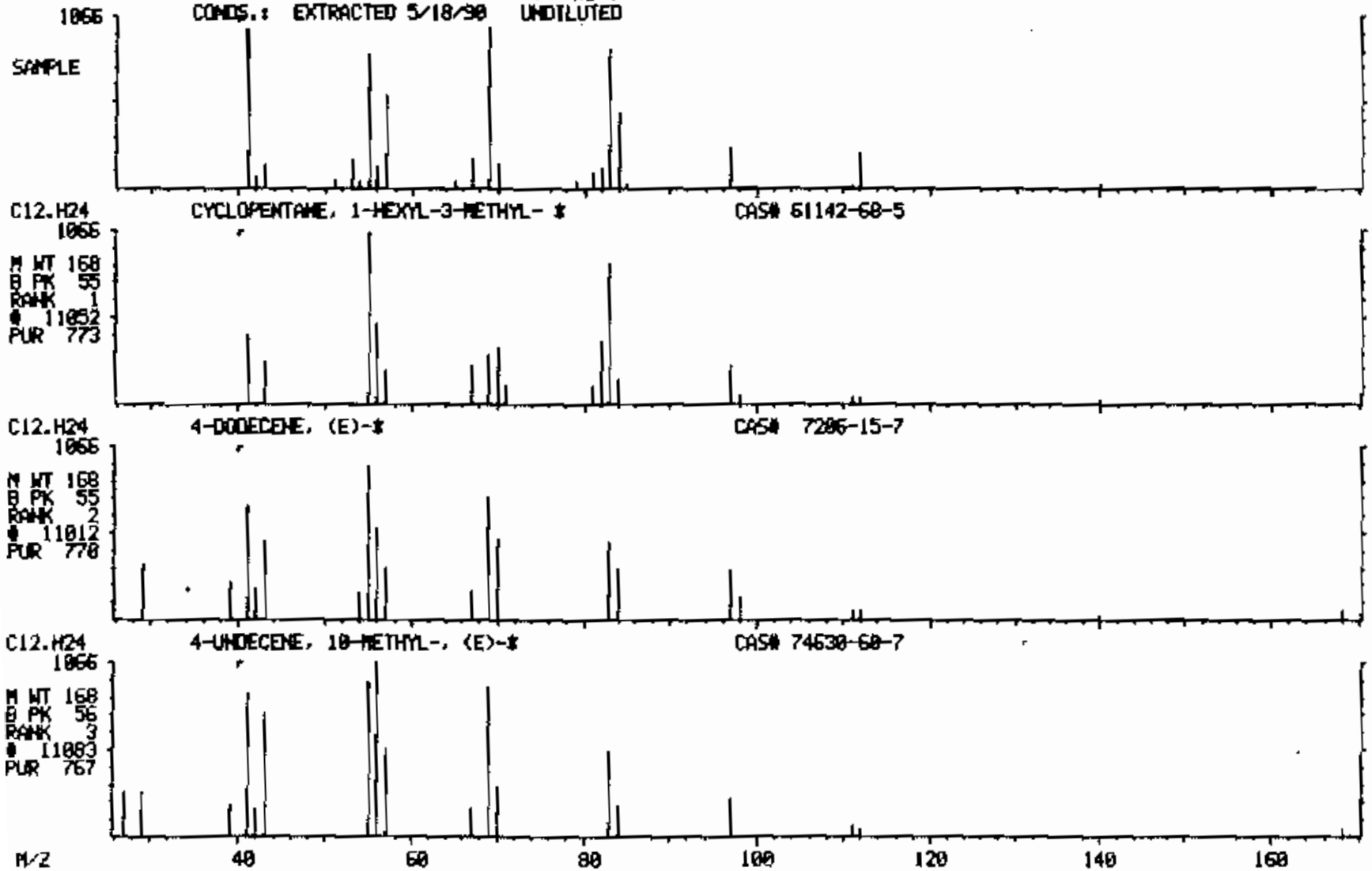
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	13:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	12:19		30.000			50.00		0.143 ✓	
3	12:22		10.000			100.00		0.751	
4	12:22		10.000			100.00		0.751	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:48		20.000			50.00		0.102	
6	12:50		10.000			50.00		0.547	
7	12:54		10.000			50.00		0.229	
8	12:50		10.000			25.00		0.131	
9	13:07		10.000			50.00		0.174	
10	13:08		10.000			50.00		0.291	
11	13:17		10.000			50.00		0.735	
12	13:24		10.000			50.00		0.378	
13	13:22		20.000			50.00		0.191	
14	13:30		10.000			50.00		0.083	
15	13:38		10.000			50.00		1.283	
16	13:41		10.000			50.00		1.124	
17	14:26		10.000			50.00		1.587	
18	14:56		20.000			50.00		0.452	
19	15:14		50.000			200.00		0.059	
20	15:25		10.000			50.00		1.104	
21	17:39	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	15:35		10.000			50.00		0.190	
23	15:45		10.000			50.00		1.349	
24	15:55	1.00	20.000	0.05	1.16	50.00	0.003	0.128	0.02
25	16:11		10.000			50.00		0.239	
26	16:15		10.000			50.00		0.699	
27	16:41		20.000			50.00		0.495	
28	16:43		10.000			50.00		0.804	
29	17:05		10.000			50.00		0.532	
30	17:32		10.000			50.00		0.203	
31	17:33		10.000			50.00		0.301	
32	17:31		10.000			50.00		0.163	
33	17:38		10.000			50.00		1.259	
34	17:37		10.000			50.00		1.164	
35	17:42		10.000			50.00		0.993	
36	21:12	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	18:55		10.000			50.00		2.290	
38	20:04		10.000			50.00		1.478	
39	20:05		10.000			50.00		0.529	
40	20:07		10.000			50.00		0.901	
41	21:03		10.000			50.00		1.165	
42	22:20		10.000			50.00		0.646	
43	24:40		10.000			50.00		0.898	
44	25:33		10.000			50.00		1.296	
45	25:38		10.000			50.00		1.059	
46	26:50		10.000			50.00		1.024	
47	12:57		10.000			25.00		0.168	

COMPUCHEM LABS, INC.

05/21/90 11:41:00 + 5:41
SAMPLE: 1UL CC#337849 ID#73800109 RE CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

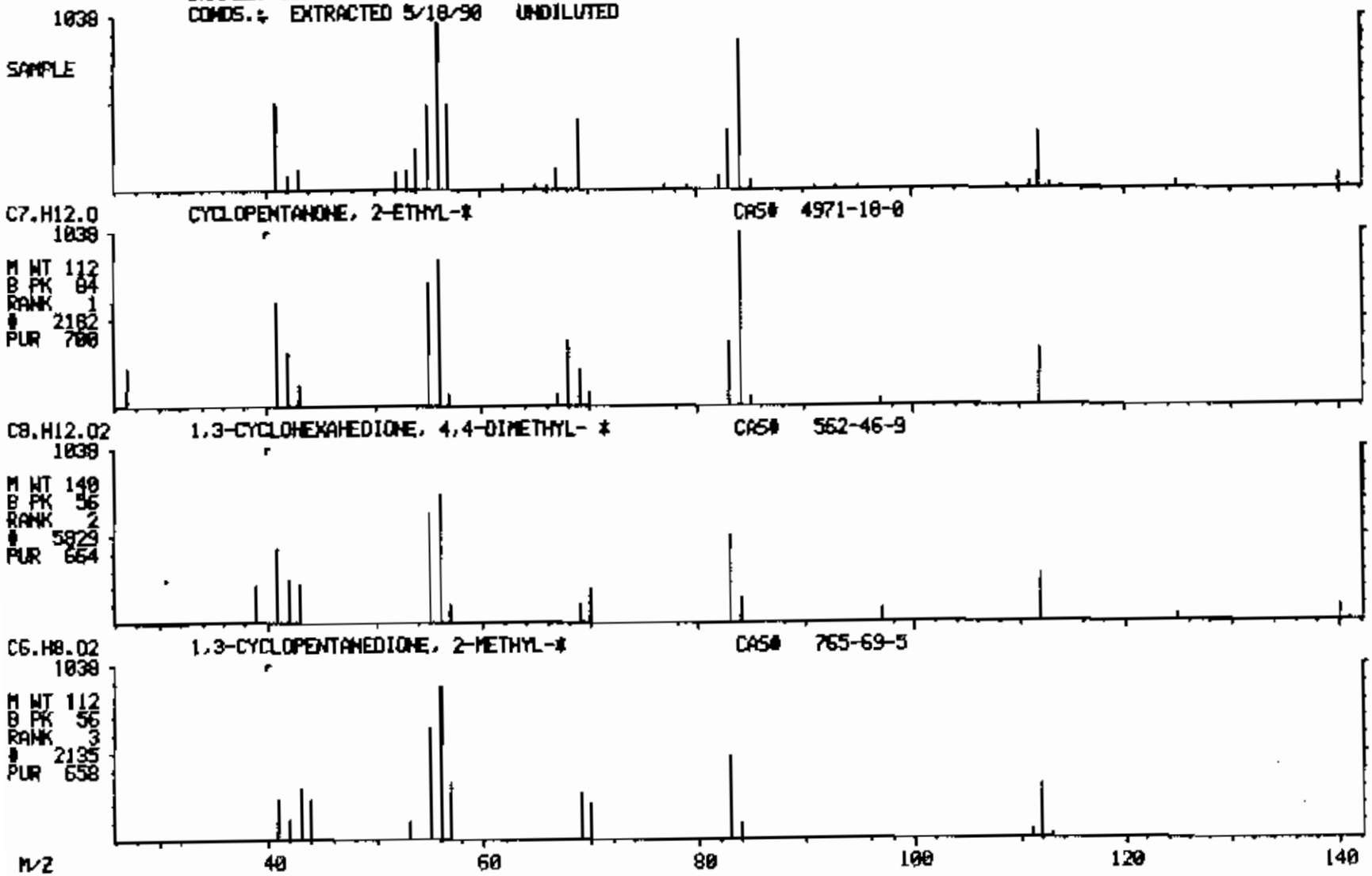
MID LIBRARY SEARCH
DATA: GR037849C07 # 382 BASE M/Z: 69
ENHANCED (100 2H 0T) RIC: 91775.
ON ?



COMPUCHEM LABS, INC.

05/21/90 11:41:00 + 6:05
SAMPLE: 1UL CC#337849 ID#73800109 RE[illegible] CS#20124
COMDS.+ EXTRACTED 5/18/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037849C07 # 409 BASE M/Z: 56
ENHANCED (100 2N 0T) RIC: 402431.
OH 7



NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

05/21/90 11:41:00 + 6:14
SAMPLE: 1UL CC#337849 ID#73000109 AE [illegible] CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037849C07 # 419 BASE M/Z: 43
ENHANCED (100 2N 0T) RIC: 60735.
OH 7

1359
SAMPLE

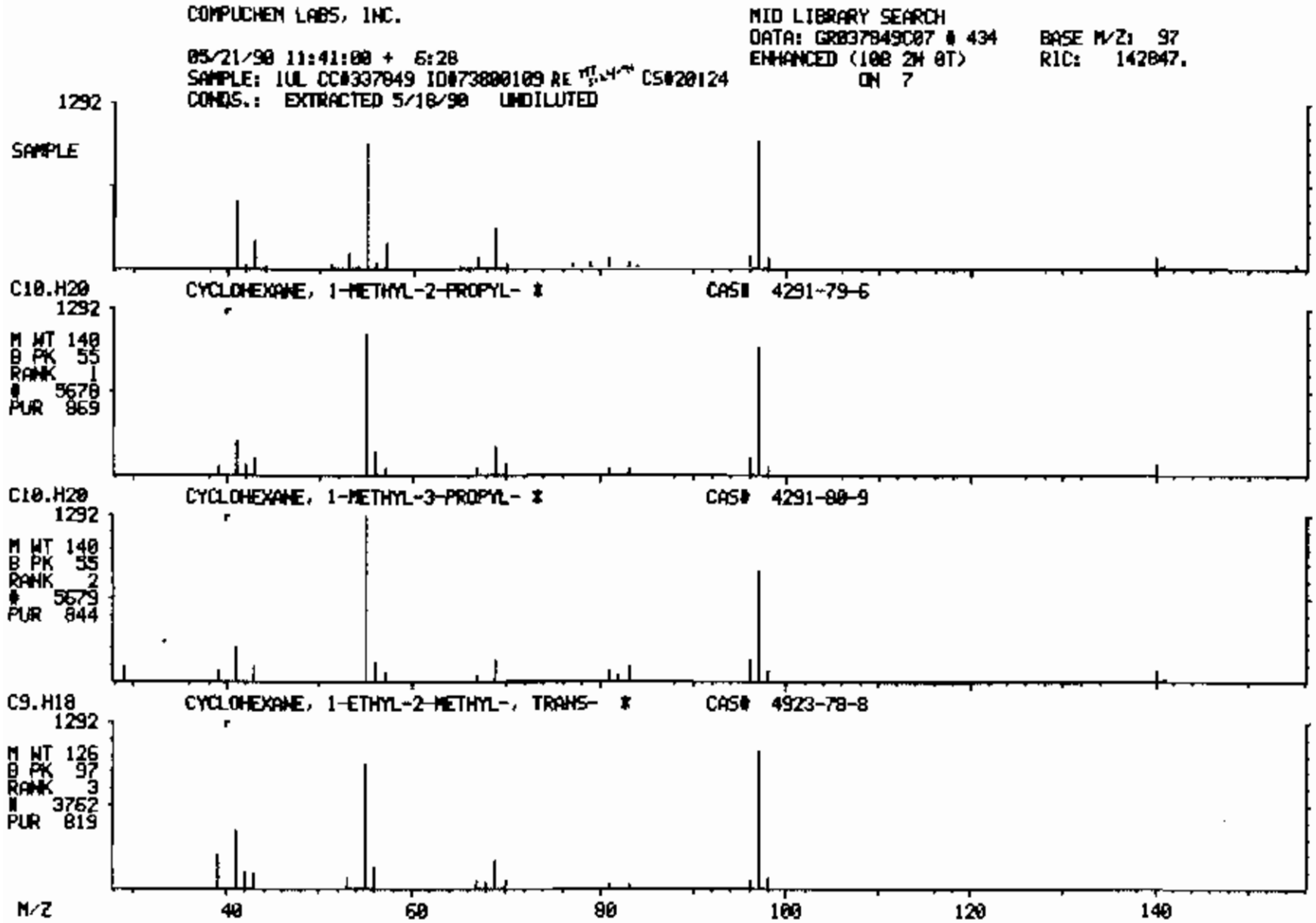
C10.H20 1-OCTENE, 3-ETHYL-* CAS# 74630-08-3
1359
M WT 140
B PK 70
RANK 1
5740
PUR 900

C8.H16 1-HEXENE, 4,5-DIMETHYL- * CAS# 16106-59-5
1359
M WT 112
B PK 43
RANK 2
2272
PUR 870

C8.H18 HEXANE, 2,3-DIMETHYL- * CAS# 584-94-1
1359
M WT 114
B PK 43
RANK 3
2554
PUR 821

M/Z 40 60 80 100 120 140

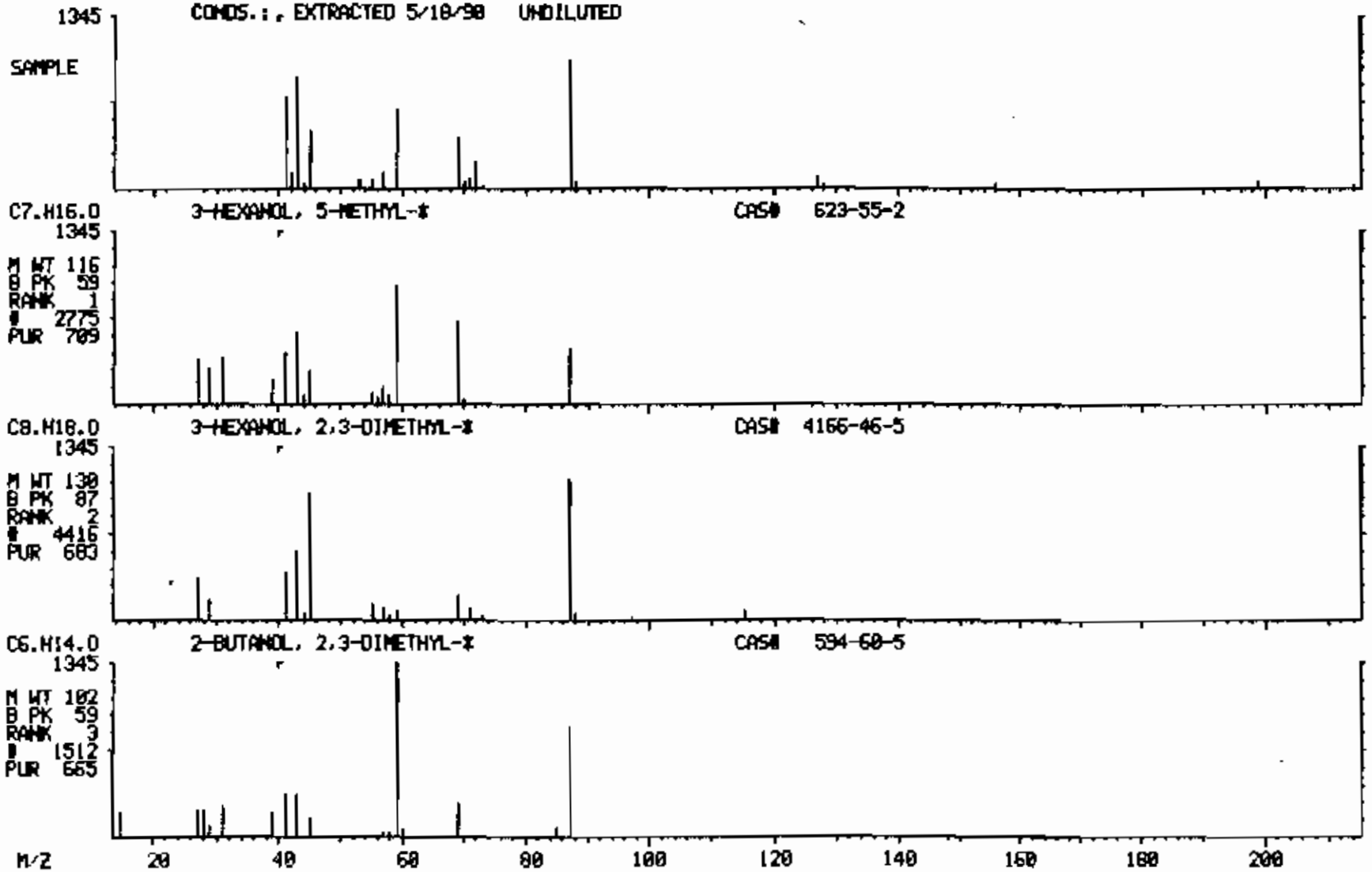
NYDEC RA090 0507 ORGANIC

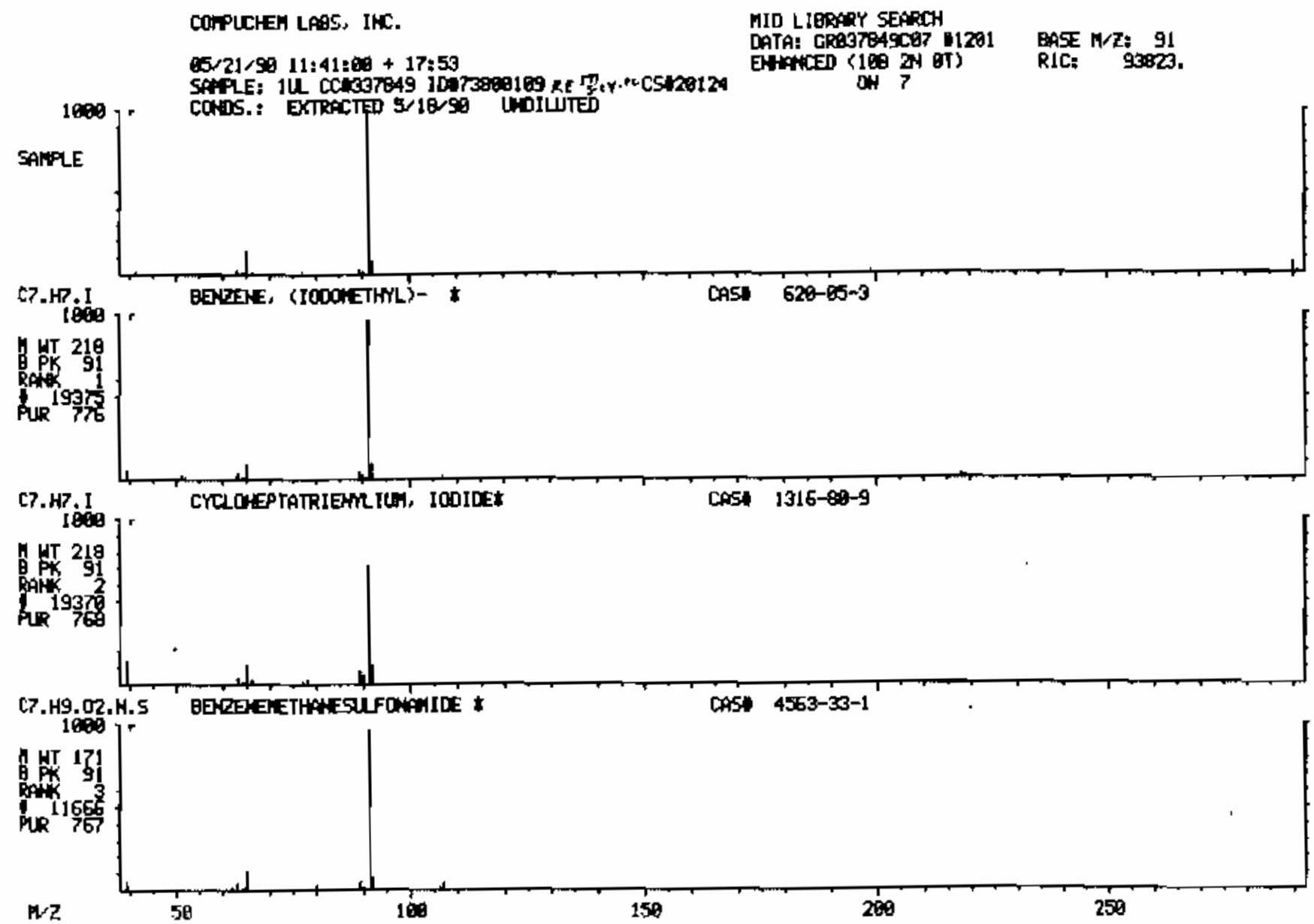

COMPUCHEM LABS, INC.
05/21/90 11:41:00 + 6:28
SAMPLE: 1UL CC#337849 ID#73800109 RE CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037849C07 # 434
ENHANCED (100 2M 0T) ON 7
BASE M/Z: 97
RIC: 142847.
1292
SAMPLE
C10.H20
CYCLOHEXANE, 1-METHYL-2-PROPYL- #
CAS# 4291-79-6
M WT 140
B PK 55
RANK 1
5670
PUR 869
C10.H20
CYCLOHEXANE, 1-METHYL-3-PROPYL- #
CAS# 4291-80-9
M WT 140
B PK 55
RANK 2
5673
PUR 844
C9.H18
CYCLOHEXANE, 1-ETHYL-2-METHYL-, TRANS- #
CAS# 4923-78-8
M WT 126
B PK 97
RANK 3
3762
PUR 819
M/Z
40
60
80
100
120
140

COMPUCHEM LABS, INC.

05/21/90 11:41:00 + 6:50
SAMPLE: 1UL CC#337849 ID#73000109 Az [illegible]CS#20124
COMDS.:, EXTRACTED 5/10/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037849C07 # 459 BASE M/Z: 97
ENHANCED (100 2N 0T) RIC: 557055.
ON 7





NYDEC RA090 0507 ORGANIC

74

MAST5-6

LAB INSTRUCTIONS:

CASE#: 20124 DUE DATE:

GC/MS WORKSHEET COMPUCHEM#: 337849R J1[ ] R1[X] D1[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

SEMI-VOA + L.S. 3rd Ed SW-846, METHOD 8270
S-V EXTRACTION, EPA/METHOD 3510
LOW LEVEL LIQUID

[redacted]

Sample Prep Code---079
Instrument Code----280
Compound List------379
Surrogate Std------393
Internal Std-------035

15 PEAK LIBRARY SEARCH REQUIRED

SAS#: EPA#: 73800109 RE 5/24/90

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid ul
Internal Standard Volume Added 5.0 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 5/18/90
JFTPP Filename DF90US21C07 Disk ( )
Standard Filename HH90US21C07 Disk ( )
Sample Filename GR037849C07 Disk ( )

ANALYST(S): Injection 9/7 R.E. Work-up 1595

GC/MS REVIEW

CONDITION CODE: ES

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,1L,IH,SW,CT,CS,PC,OT,MS ED,IF,LA,D1,CO,RM,DW,DA

POSTED

Complete 5.24.90

Disposition: [✓] Complete

Extraneous Peak Search Results:

# of Peaks Found: 6

# of Hits: 0

# of Surrogate Outliers: 1

[ ] Reinjection required

[ ] Reextraction required

[ ] Dilute (:1)

[ ] Reinject Neat

Quality Assurance Notice(s):

[ ] Send to QA

Notices Required 3

GC/MS Review L. Neill Date 5/24/90 Auditor [illegible] Date 6/24/90

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): GR037849C07 / GH037849A22

QA COMMENTS:

Initials Date

FINAL REVIEW: Initials Date

AC516 (06/87)

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: Arnetta Downing (aSD) DATE ASSIGNED 5/16/90

EMP ID NUMBER 1733 QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL(ml) SV B/N	FINAL EXTRACT VOL(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	338?WR	-079	19698	8002 07005			103	500ml	0.5	0.5	13	1	Use 500ml sample volume for ~~BN only~~ All samples
5/19 2	337849R		20124	73800 109			183	500ml	0.5	0.5	13	1	Add 0.5ml surr. Add 0.5ml spike.
e 3	337847R		20124	73890 [illegible]			189	500ml	0.5	0.5	13	1	Conc. to 0.5ml final volume
4													~~add ml validation spike to BS only~~
5													
6													
7													
8													
9													
10													
11													
12													
13	340522	✓		SBLK 93	B1		n/A	500ml	0.5	0.5	13	1	

	*	S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	0.5ml				
	LOT	320'71				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

ISSUED BY: ______

1733 ID

MANUAL COUNTER 510/ 901

FINAL VOLUME VERIFIED Arnetta S Downing

SUPERVISOR REVIEWED [signature]

EXTRACTS RECEIVED BY [signature]

SURROGATE & SPIKE ADDED CORRECTLY DP 5/18/90

INT DATE

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (I9#	481	133000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	10
481	79		PYRIDINE (Z9#1)				BDL	10
509	69		ETHYLMETHACRYLATE (T1#4)				BDL	10
542	89		PARALDEHYDE (Z9#3)				BDL	10
510	93		2-PICOLINE (Z9#56)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (G1#3)				BDL	10
473	93		ANILINE (G1#4)				BDL	10
505	167		PENTACHLOROETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20
601	128		2-CHLOROPHENOL (G1#6)				BDL	10
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	10
474	108		BENZYL ALCOHOL (G1#9)				BDL	10
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	10
620	108		2-METHYLPHENOL (G1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (G1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLOROETHANE (G1#15)				BDL	10
460	136	I	D8-NAPHTHALENE (IS#2)	598	431000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	10
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	10
438	82		ISOPHORONE (G2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	10
606	139		2-NITROPHENOL (G2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (G2#5)				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	10
439	128		NAPHTHALENE (G2#9)				BDL	10

CORRECTED/REVIEWED BY L. Merrill
(GC/MS DATA REVIEWER)

DATE 5-24-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (Q2#10)				BDL	1
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	2
324	108		O-PHENYLENEDIAMINE (Z9#19)			~~39.5~~	~~81~~ BDL	1
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	1
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	1
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	1
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	1
534	139		BENZOTRICHLORIDE (Z9#23)				BDL	2
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	1
608	107		P-CHLORO-M-CRESOL (Q2#12)				BDL	1
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	1
503	162		SAFROLE (Z9#27)				BDL	1
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	1
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	1
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	1
495	164	I	D10-ACENAPHTHENE (IS#3)	768	239000	40.0		
497	216		1,2,4,5-TETRACHLOROBENZENE				BDL	1
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	1
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	1
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	2
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	2
527	162		ISOSAFROLE (Z9#30)				BDL	2
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	1
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	1
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	1
478	65		2-NITROANILINE (Q3#6)				BDL	1
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	2
491	168		1,4-DINITROBENZENE (F3#2)				BDL	2
425	163		DIMETHYL PHTHALATE (Q3#7)				BDL	1
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	1
402	152		ACENAPHTHYLENE (Q3#8)				BDL	1
479	138		3-NITROANILINE (Q3#9)				BDL	2
401	153		ACENAPHTHENE (Q3#10)				BDL	1
605	184		2,4-DINITROPHENOL (Q3#11)				BDL	4
607	109		4-NITROPHENOL (Q3#12)				BDL	1
427	165		2,4-DINITROTOLUENE (Q3#14)				BDL	1
476	168		DIBENZOFURAN (Q3#13)				BDL	1
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	1
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	2
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	2
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	2
424	149		DIETHYL PHTHALATE (Q3#16)				BDL	1
519	97		ZINOPHOS (Z9#38)				BDL	1

CORRECTED/REVIEWED BY L. Hall
(QC/MS DATA REVIEWER)

DATE 5-24-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1(
432	166		FLUORENE (G3#18)				BDL	1(
480	138		4-NITROANILINE (G3#19)				BDL	2(
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	2(
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	1(
467	188	I	O10-PHENANTHRENE (IS#4)	913	350000	40.0		
459	240	I	O12-CHRYSENE (IS#5)	1186	270000	40.0		
497	264	I	O12-PERYLENE (IS#6)	1429	214000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			12.5	6. %	
612	99	S	D5-PHENOL (SS#2)			19.3	10. %	
447	82	S	D5-NITROBENZENE (SS#3)			72.9	73. %	
448	172	S	2-FLUOROBIPHENYL (SS#4)			79.0	79. %	
628	329	S	2,4,6-TRIBROMOPHENOL (SS#5)			68.6	34. %	
471	212	S	O10-PYRENE (SS#6)			92.7	93. %	
496	244	S	D14-TERPHENYL (SS#7)			97.6	98. %	
CHECKSUMS:								
	14269.			9375	1637000.	733.2		31.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-24-90

COMPUCHEM # 037849 FILE: 9R037849C07 COMPOUND LIST 170 PAGE

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	12.5	200.0	6.	21-100	
96	612	D5-PHENOL (SS#2)	19.3	200.0	10.	10- 94	X
97	447	D5-NITROBENZENE (SS#3)	72.9	100.0	73.	35-114	X
98	448	2-FLUOROBIPHENYL (SS#4)	79.0	100.0	79.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	68.6	200.0	34.	10-123	X
#1	471	D10-PYRENE (SS#6)	92.7	100.0	93.	40-130*	X
#1	496	O14-TERPHENYL (SS#7)	97.6	100.0	98.	33-141	X

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\text{ML}}{500.\text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{500\ \text{UL}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hewett

(QC/MB DATA REVIEWER)

DATE 5-24-90

COMPUCHEM # 037849 FILE: GR037849C07 COMPOUND LIST 173 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	913	350000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	2
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	1
567	169		DIPHENYLAMINE (F3#3)				BDL	1
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	2
539	108		PHENACETIN (Z9#42)				BDL	1
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1
577	234		DIALLATE (TRANS ISOMER)				BDL	1
541	125		DIMETHOATE (Z9#44)				BDL	1
433	284		HEXACHLOROBENZENE (G4#5)				BDL	1
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	1
522	173		PRONAMIDE (Z9#46)				BDL	1
609	266		PENTACHLOROPHENOL (G4#6)				BDL	2
453	237		PENTACHLORONITROBENZENE (Z9				BDL	1
444	178		PHENANTHRENE (G4#7)				BDL	1
403	178		ANTHRACENE (G4#8)				BDL	1
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	1
516	97		METHAPYRILENE (Z9#48)				BDL	2
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	5
431	202		FLUORANTHENE (G4#10)				BDL	1
459	240	I	D12-CHRYSENE (IS#5)	1186	270000	40.0		
404	184		BENZIDINE (G5#2)				BDL	1
445	202		PYRENE (G5#3)				BDL	1
530	185		ARAMITE (Z9#50)			1.8	1.8 BDL	2
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1
523	139		CHLOROBENZILATE (Z9#52)				BDL	1
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	2
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	1
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	1
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	1
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	1
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	1
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	1
418	228		CHRYSENE (G5#8)				BDL	1
497	264	I	D12-PERYLENE (IS#6)	1429	214000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	1
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	1
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	1
406	252		BENZO(A)PYRENE (G6#5)				BDL	1
563	268		3-METHYLCHLORANTHRENE (F6#2				BDL	1
566	279		DIBENZO(A,J)ACRIDINE				BDL	1

CORRECTED/REVIEWED BY L. Hamil
(QC/MS DATA REVIEWER)

DATE 5-24-90

NYDEC RA090 0507 ORGANIC

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (GA				BDL	1
419	278		DIBENZO(A,H)ANTHRACENE (GA#				BDL	1
408	276		BENZO(G,H,I)PERYLENE (GA#B)				BDL	1
376	234		DIALLATE (CIS ISOMER)				BDL	1
531	234		DIALLATE (TOTAL)				BDL	1
CHECKSUMS:								
10115.				3528	834000.	121.2	1.	

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-24-93

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY S. Hund
(GC/MS DATA REVIEWER)

DATE 5-24-90

QUALITY ASSURANCE NOTICE

CompuChem # 337849

Client ID # 73800109

Case 20124

Surrogate recoveries for the SV fraction of this sample fell outside quality control limit in both the original and repeated extractions. Results were comparable between the two analyses. Since all other QC criteria associated with these analyses were met, we have attributed the out-of-control surrogate recoveries to the particular sample matrix, rather than to deficiencies in the laboratory's analytical system.

Under some circumstances, depending on the client's requirements, both sets of data will be reported. When only one report is required, the analyst considers whether or not the reextraction was completed within holding time specification in deciding which set of data to report. If holding times were met for both extractions, the analysis that appears to be least affected by the sample matrix will be reported.

Reviewer's Initials/ID L. Hall / 170

Date 5-24-90

QAN3S
000208

QUALITY ASSURANCE NOTICE
CompuChem # 337847
Client ID # 73800109
Fraction SV
Case 20124

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank.

The EPA has not established criteria for the evaluation of non-HSL contamination in blanks analyzed under the Contract Laboratory Program (CLP) following the Caucus Organics Protocols. Our policy is to allow up to three (3) non-HSL contaminants with peak heights greater than 25% of the nearest-eluting internal standard peak height. An exception is made for certain acetone artifacts which are known to be present in the solvent system used in the extraction of solid samples and blanks.

These compounds should not be considered actual constituents of this sample fraction, therefore, we are not reporting them as tentatively identified compounds. Artifact peaks have been identified on the sample RIC with a "B" label, indicating background contamination.

scan: 382 409 419 434 ____ ____

date reviewer L. Hamill (1712)

date 5-24-90

OANI05
B70903

COMPUCHEM
LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
73800110

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337848

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037848A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

(1) - Cannot be separated from Diphenylamine

108-70-3	1,3,5-Trichlorobenzene	10	U
98-87-3	Benzal chloride	10	U
65-85-0	Benzoic Acid	100	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-65-0	2,6-Dichlorophenol	20	U
95-54-5	o-Phenylenediamine	10	U
122-09-8	dimethylphenylethylamine	10	U
1888-71-7	Hexachloropropene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
98-07-7	Benzotrichloride	20	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
106-50-3	P-Phenylenediamine	10	U
94-59-7	Safrole	10	U
106-50-3	m-Phenylenediamine	10	U
91-57-6	2-Methylnaphthalene	10	U
90-12-0	1-Methylnaphthalene	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
634-90-2	1,2,3,5-Tetrachlorobenzene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	20	U
120-58-1	Isosafrole	20	U
91-58-7	2-Chloronaphthalene	10	U
90-13-1	1-Chloronaphthalene	10	U
634-66-2	1,2,3,4-Tetrachlorobenzene	10	U
88-74-4	2-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	20	U
100-25-4	1,4-Dinitrobenzene	20	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SREET

EPA SAMPLE NO.

73800110

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337848

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037848A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0---------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0---------Pyrene	10	U
140-57-8---------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6---------Chlorobenzilate	10	U
119-93-7---------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4---------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4---------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9---------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0---------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800110

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337848

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037848A22

Level: (low/med) LOW Date Received: 05/09/90

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

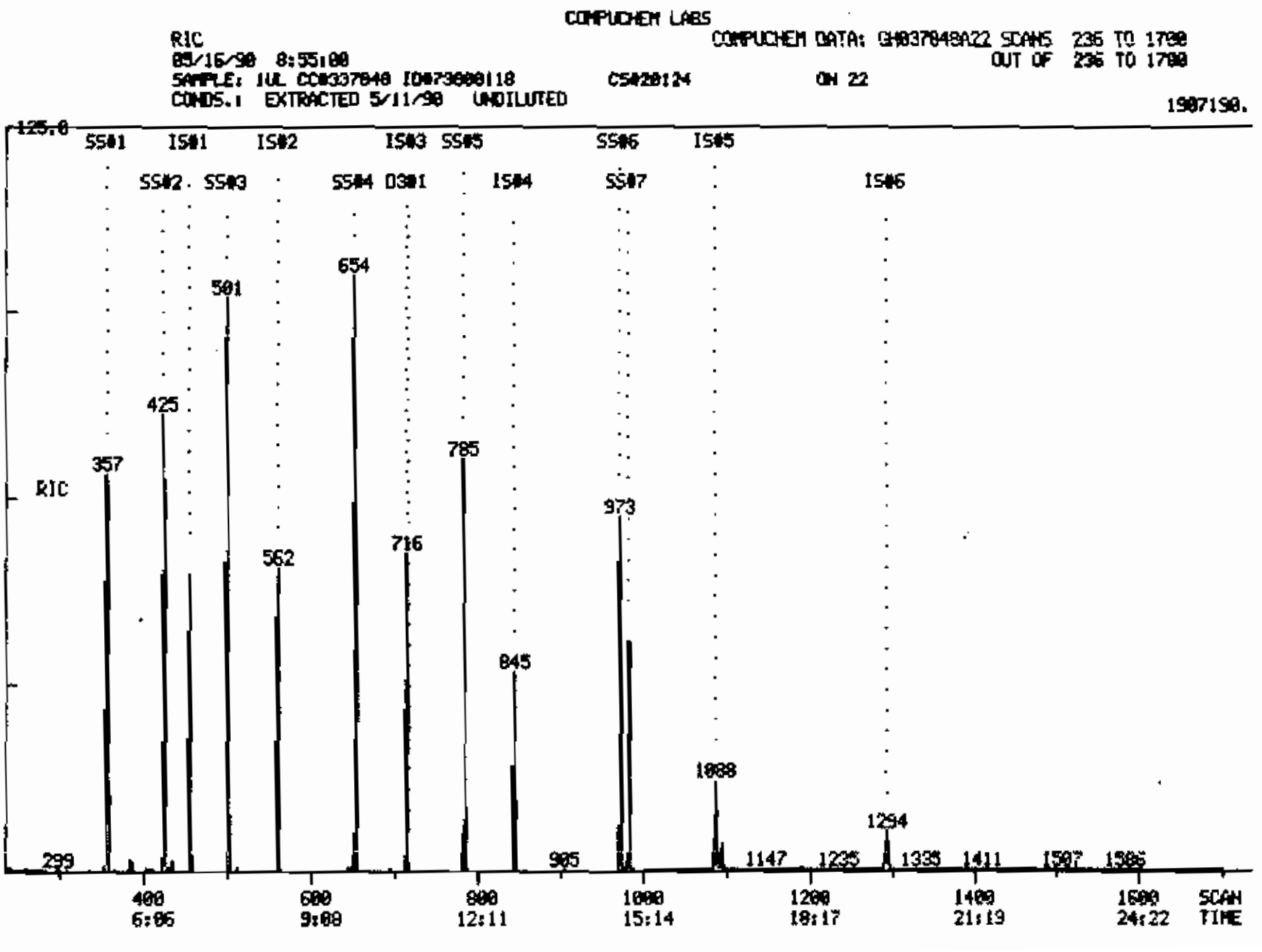
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 620-05-3	BENZENE, (IODOMETHYL)-	16.42	24	J



NYDEC RA090 0507 ORGANIC

```
QUANTITATION REPORT     FILE: GH037848A22
DATA: GH037848A22.TI
05/16/90  8:55:00
SAMPLE: LUL CC#337848 ID#73900110          CS#20124              ON 22
COND$.:  EXTRACTED 5/11/90   UNDILUTED
SUBMITTED BY:      22        ANALYST:       740

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO  NAME
  1  #467 D10-PHENANTHRENE (IS#4)
  2  604 4,6-DINITRO-2-METHYLPHENOL (B4#2) <534-52-1>
  3  443 N-NITROSODIPHENYLAMINE (B4#3) <86-30-6>
  4  567 DIPHENYLAMINE (F3#3)
  5  508 1,3,5-TRINITROBENZENE (Z9#41)
  6  539 PHENACETIN (Z9#42) <63-44-2>
  7  414 4-BROMOPHENYL PHENYL ETHER (B4#4) <101-55-3>
  8  577 DIALLATE (TRANS ISOMER)
  9  541 DIMETHOATE (Z9#44)
 10  433 HEXACHLOROBENZENE (B4#5) <118-74-1>
 11  489 4-AMINOBIPHENYL (Z9#45)
 12  522 PRONAMIDE (Z9#46)
 13  609 PENTACHLOROPHENOL (B4#6) <87-86-5>
 14  453 PENTACHLORONITROBENZENE (Z9#47)
 15  444 PHENANTHRENE (B4#7) <85-01-8>
 16  403 ANTHRACENE (B4#8) <120-12-7>
 17  426 DI-N-BUTYL PHTHALATE (B4#9) <84-74-2>
 18  516 METHAPYRILENE (Z9#48)
 19  549 CYCLOPHOSPHAMIDE (Z9#49)
 20  431 FLUORANTHENE (B4#10) <206-44-0>
 21  #459 D12-CHRYSENE (IS#5)
 22  404 BENZIDINE (B5#2) <92-87-5>
 23  445 PYRENE (B5#3) <129-00-0>
 24  530 ARAMITE (Z9#50) <140-57-4>
 25  487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26  523 CHLOROBENZILATE (Z9#52)
 27  545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28  415 BUTYLBENZYL PHTHALATE (B5#4) <85-68-7>
 29  488 2-ACETYLAMINO FLUORENE (F5#2)
 30  489 4,4'-METHYLENE-BIS(2-CHLORDANILINE) (Z9#54)
 31  423 3,3'-DICHLOROBENZIDINE (B5#5) <91-94-1>
 32  533 DIMETHOXYBENZIDINE (Z9#57)
 33  413 BIS(2-ETHYLHEXYL) PHTHALATE (B5#7) <117-81-7>
 34  405 BENZO(A)ANTHRACENE (B5#6) <56-55-3>
 35  418 CHRYSENE (B5#8) <218-01-9>
 36  #497 D10-PERYLENE (IS#6)
 37  429 DI-N-OCTYL PHTHALATE (B6#2) <117-84-0>
 38  407 BENZO(B)FLUORANTHENE (B6#3) <205-99-2>
 39  517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40  409 BENZO(K)FLUORANTHENE (B6#4) <207-08-9>
 41  406 BENZO(A)PYRENE (B6#5) <50-32-8>
 42  565 3-METHYLCHLORANTHRENE (F6#2)
 43  566 DIBENZO(A,J)ACRIDINE
 44  437 INDENO(1,2,3-C,D)PYRENE (B6#6) <193-39-5>
 45  419 DIBENZO(A,H)ANTHRACENE (B6#7) <53-70-3>
 46  408 BENZO(G,H,I)PERYLENE (B6#8) <191-24-2>
```

NO	NAME
47	576 DIALLATE (C18 ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	845	12:52	1	1.000	A BB	304296.	40.000	NO	32.67
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	245	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1088	16:34	21	1.000	A BB	164500.	40.000	NO	32.67
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	973	14:49	21	0.894	A BB	404.	2.469	NO	2.02
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1293	19:42	36	1.000	A BV	114204.	40.000	NO	32.67
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:43		30.000			50.00		0.111	
3	11:45		10.000			100.00		0.815	
4	11:45		10.000			100.00		0.815	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.060	
6	12:08		10.000			50.00		0.642	
7	12:14		10.000			50.00		0.165	
8	12:09		10.000			25.00		0.106	
9	12:25		10.000			50.00		0.180	
10	12:28		10.000			50.00		0.197	
11	12:35		10.000			50.00		0.749	
12	12:40		10.000			50.00		0.412	
13	12:41		20.000			50.00		0.104	
14	12:48		10.000			50.00		0.078	
15	12:55		10.000			50.00		1.304	
16	12:59		10.000			50.00		1.311	
17	13:36		10.000			50.00		1.997	
18	14:03		20.000			50.00		0.408	
19	14:19		50.000			200.00		0.024	
20	14:32		10.000			50.00		1.024	
21	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:38		10.000			50.00		0.134	
23	14:51		10.000			50.00		2.070	
24	14:49	1.00	20.000	0.04	2.47	50.00	0.002	0.040	0.05
25	15:10		10.000			50.00		0.271	
26	15:13		10.000			50.00		1.379	
27	15:37		20.000			50.00		0.509	
28	15:36		10.000			50.00		1.321	
29	16:00		10.000			50.00		0.619	
30	16:23		10.000			50.00		0.179	
31	16:25		10.000			50.00		0.242	
32	16:21		10.000			50.00		0.147	
33	16:25		10.000			50.00		1.809	
34	16:32		10.000			50.00		1.166	
35	16:36		10.000			50.00		1.114	
36	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:30		10.000			50.00		2.896	
38	18:41		10.000			100.00		1.002	
39	18:41		10.000			50.00		0.487	
40	18:41		10.000			100.00		1.002	
41	19:31		10.000			50.00		1.192	
42	20:32		10.000			50.00		0.582	
43	22:25		10.000			50.00		0.886	
44	23:12		10.000			50.00		1.334	
45	23:12		10.000			50.00		1.100	
46	24:15		10.000			50.00		1.065	
47	12:17		10.000			25.00		0.135	

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QUANTITATION REPORT     FILE: 9H037848A22
DATA: 9H037848A22.TI
05/16/90  8:55:00
SAMPLE: 1UL CC#337848 ID#73800110          CB#20124              ON 22
CONDS.:  EXTRACTED 5/11/90   UNDILUTED
SUBMITTED BY:      22        ANALYST:       740

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO  NAME
  1  #494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  481 PYRIDINE (Z9#1)
  4  509 ETHYLMATHACRYLATE (Z9#2)
  5  542 PARALDEHYDE (Z9#3)
  6  510 2-PICOLINE (Z9#56)
  7  535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
  8  543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
  9  499 N-NITROSODIETHYLAMINE (Z9#6)
 10  514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
 11  610 PHENOL (G1#3) <108-95-2>
 12  473 ANILINE (G1#4) <62-53-3>
 13  505 PENTACHLOROETHANE (Z9#8)
 14  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
 15  601 2-CHLOROPHENOL (G1#6) <95-57-8>
 16  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
 17  506 BENZYL CHLORIDE (Z9#9)
 18  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
 19  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 20  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 21  620 2-METHYLPHENOL (G1#11) <95-48-7>
 22  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 23  621 3-METHYLPHENOL (F1#2) <108-39-4>
 24  622 4-METHYLPHENOL (G1#13) <106-44-5>
 25  528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
 26  544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
 27  500 ACETOPHENONE (Z9#11)
 28  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 29  512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
 30  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 31  #460 D8-NAPHTHALENE (I8#2)
 32  440 NITROBENZENE (G1#16) <98-95-3>
 33  502 N-NITROSOPIPERIDINE
 34  438 ISOPHORONE (G2#2) <78-59-1>
 35  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 36  606 2-NITROPHENOL (G2#3) <88-75-5>
 37  451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
 38  518 BENZAL CHLORIDE (Z9#16) C98-87-3>
 39  625 BENZOIC ACID (G2#5) <65-85-0>
 40  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 41  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 42  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 43  439 NAPHTHALENE (G2#9) <91-20-3>
 44  475 4-CHLOROANILINE (G2#10) <106-47-8>
 45  631 2,6-DICHLOROPHENOL (Z9#18)
 46  524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>
```

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (I9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	439 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	*605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D10-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	455	6:56	1	1.000	A BB	161264.	40.000	NG	4.24
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	562	8:34	31	1.000	A BB	552260.	40.000	NG	4.24
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	562	8:34	31	1.000	A BB	93936.	53.588	NG	5.68
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	716	10:34	59	1.000	A BB	269540.	40.000	NQ	4.24
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	845	12:52	92	1.000	A BB	304296.	40.000	NQ	4.24
93	240	1088	16:34	93	1.000	A BB	164500.	40.000	NQ	4.24
94	264	1293	19:42	94	1.000	A BV	114204.	40.000	NQ	4.24
95	112	356	5:25	1	0.782	A BB	694088.	92.065	NQ	9.75
96	99	429	6:28	1	0.934	A BB	671236.	73.741	NQ	7.81
97	82	501	7:38	31	0.891	A BB	607972.	68.972	NQ	7.30
98	172	654	9:58	59	0.913	A BB	635176.	73.719	NQ	7.81
99	330	785	11:57	59	1.096	A BB	101456.	180.348	NQ	19.10
100	212	973	14:49	93	0.894	A BV	499703.	81.544	NQ	8.64
101	244	983	14:58	93	0.903	A BB	388520.	80.368	NQ	8.51

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:38	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.348	
3	3:52		10.000			50.00		1.942	
4	4:25		10.000			50.00		1.888	
5	4:29		10.000			50.00		0.370	
6	4:47		20.000			50.00		2.081	
7	4:59		10.000			200.00		0.439	
8	5:15		10.000			50.00		1.569	
9	5:44		10.000			50.00		0.983	

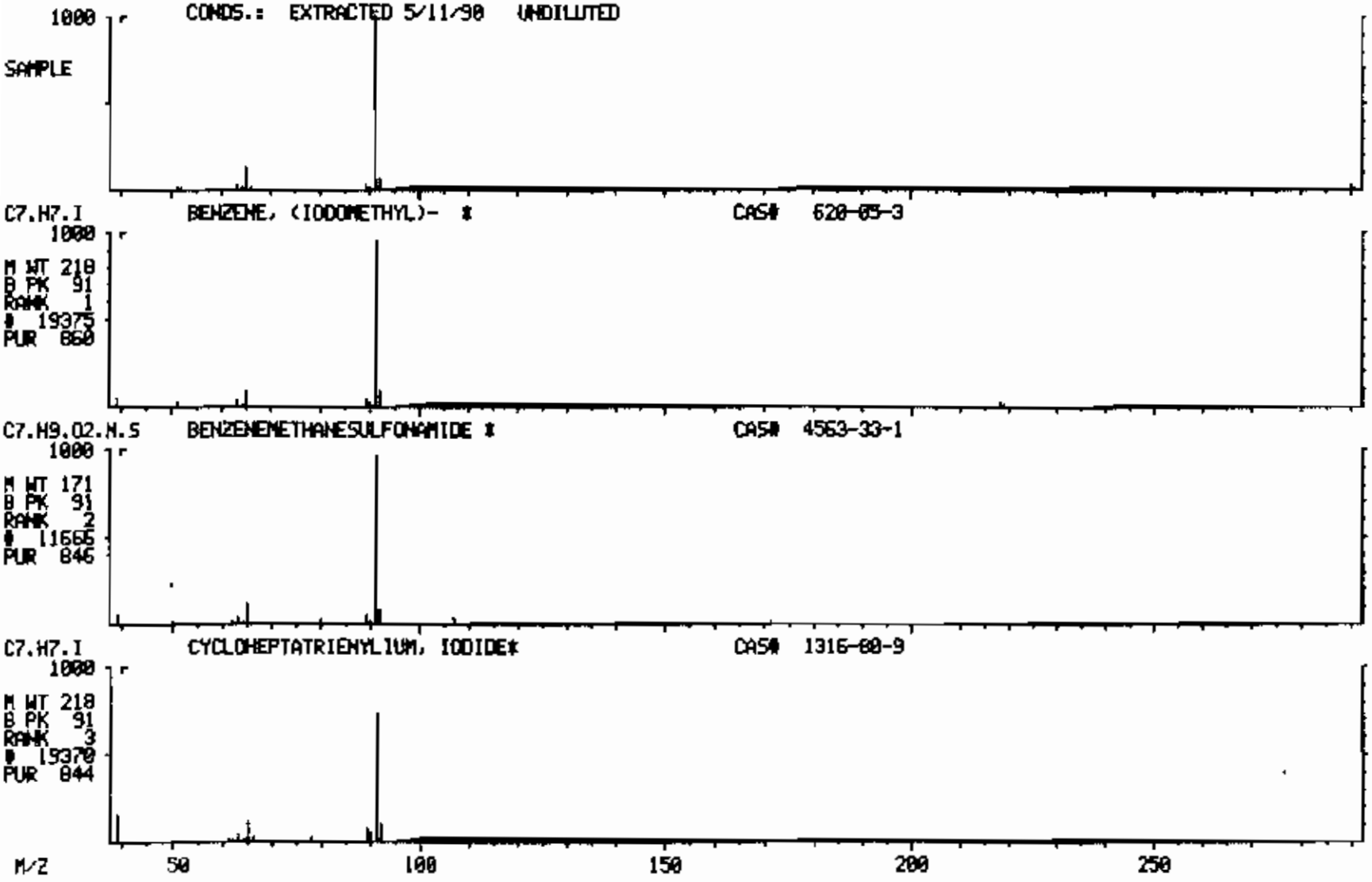
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
10	6:03		10.000			50.00		1.052	
11	6:31		10.000			50.00		2.859	
12	6:35		10.000			50.00		3.199	
13	6:37		10.000			50.00		0.529	
14	6:38		20.000			50.00		2.281	
15	6:44		10.000			50.00		1.882	
16	6:55		10.000			50.00		1.946	
17	6:59		10.000			50.00		4.277	
18	6:59		10.000			50.00		1.947	
19	7:07		10.000			50.00		1.211	
20	7:12		10.000			50.00		1.777	
21	7:15		10.000			50.00		1.716	
22	7:19		10.000			50.00		2.437	
23	7:25		10.000			100.00		1.814	
24	7:25		10.000			100.00		1.814	
25	7:26		10.000			50.00		0.932	
26	7:27		10.000			50.00		0.453	
27	7:28		10.000			50.00		2.822	
28	7:29		10.000			50.00		1.698	
29	7:31		10.000			50.00		2.067	
30	7:37		10.000			50.00		1.040	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:41		10.000			50.00		0.590	
33	7:52		10.000			50.00		0.205	
34	7:58		10.000			50.00		1.121	
35	8:06		10.000			50.00		0.532	
36	8:05		10.000			50.00		0.228	
37	8:07		10.000			50.00		0.284	
38	8:08		10.000			50.00		0.784	
39	8:12		100.000			50.00		0.189	
40	8:13		10.000			50.00		0.598	
41	8:23		10.000			50.00		0.270	
42	8:31		10.000			50.00		0.296	
43	8:36		10.000			50.00		1.306	
44	8:39		10.000			50.00		0.643	
45	8:41		20.000			50.00		0.307	
46	8:34	1.00	10.000	0.10	93.99	50.00	0.136	0.127	1.07
47	8:47		10.000			50.00		0.071	
48	8:45		10.000			50.00		0.141	
49	8:49		10.000			50.00		0.130	
50	8:50		10.000			50.00		0.261	
51	8:55		20.000			50.00		0.419	
52	9:06		10.000			50.00		0.193	
53	9:15		10.000			50.00		0.451	
54	9:15		10.000			50.00		0.030	
55	9:21		10.000			50.00		0.262	
56	9:21		10.000			50.00		0.001	
57	9:29		10.000			50.00		0.982	
58	9:38		10.000			50.00		0.320	
59	10:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:46		10.000			100.00		0.449	
61	9:46		10.000			100.00		0.449	
62	9:48		10.000			50.00		0.182	
63	9:53		20.000			50.00		0.330	
64	9:56		20.000			50.00		0.325	
65	10:01		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:09		10.000			50.00		1.495	
67	10:11		10.000			50.00		1.104	
68	10:10		10.000			50.00		0.427	
69	10:17		10.000			50.00		0.583	
70	10:21		20.000			50.00		0.433	
71	10:24		20.000			50.00		0.204	
72	10:31		10.000			50.00		1.495	
73	10:38		10.000			50.00		0.307	
74	10:42		10.000			50.00		1.917	
75	10:49		20.000			50.00		0.348	
76	10:57		10.000			50.00		1.317	
77	10:57		40.000			50.00		0.108	
78	11:00		10.000			50.00		0.319	
79	11:09		10.000			50.00		0.429	
80	11:10		10.000			50.00		1.693	
81	11:12		10.000			50.00		0.341	
82	11:15		20.000			50.00		0.818	
83	11:21		20.000			50.00		0.887	
84	11:22		20.000			50.00		0.174	
85	11:27		10.000			50.00		1.719	
86	11:35		10.000			50.00		0.436	
87	11:35		10.000			50.00		0.438	
88	11:37		10.000			50.00		1.334	
89	11:38		20.000			50.00		0.354	
90	11:38		20.000			50.00		0.383	
91	11:48		10.000			50.00		2.253	
92	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:27	0.99	0.742	1.05	92.07	50.00	3.443	1.870	1.84
96	6:30	1.00	0.948	0.98	73.74	50.00	3.330	2.258	1.47
97	7:40	1.00	0.875	1.02	68.97	50.00	0.881	0.638	1.38
98	9:39	1.00	0.906	1.01	73.72	50.00	1.885	1.279	1.47
99	11:37	1.00	1.118	0.98	180.35	50.00	0.301	0.083	3.61
100	14:49	1.00	10.000	0.09	81.54	50.00	2.430	1.490	1.63
101	14:58	1.00	0.907	1.00	80.37	50.00	1.889	1.176	1.61

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GM037040A22 #1095 BASE M/Z: 91
ENHANCED (100 2N 0T) RIC: 62783.
ON Z2

05/16/90 8:55:00 + 16:41
SAMPLE: 1UL CC#337040 ID#73000110 CS#20124
CONDS.: EXTRACTED 5/11/90 UNDILUTED



LAB INSTRUCTIONS:
SEE PPS#407 CASE#RA090 SDG#0507

PPS#: _____

MAST 5-6

RECEIPT DATE: 05/09/90 CASE#: 20124

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 337848

J1[ ] J3[ ] D[ ] (:1)
2J[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER; 3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 686
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800110

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid _____ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date Sample Bottle Analyzed 5/11/90
DFTPP Filename GH9005161122 Disk (3034A)
Standard Filename GH9005161122 Disk ( )
Sample Filename GH0318488A22 Disk ( )

[redacted]

ANALYST(S): Injection 140 Work-up 140 L Jordan

GC/MS REVIEW

CONDITION CODE: OK

Complete 5.10.90
Extraneous Peak Search Results:

# of Peaks Found: 1

# of Hits: 4

# of Surrogate Outliers: 4

Quality Assurance Notice(s):

Notices Required 1

COMMENTS:

Disposition:
[/] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

#GC/MS Review [signature] Date 5/17/90 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of injections: _____
Final Reportable Package(s): _____/_____

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: CH Carl Hooker

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1782

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL(µl) SV B/N	FINAL EXTRACT VOL(µl) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337842	-079	20124	73500 105			3/3	1000	1.0		13	1	* Use 500ml sample volume for SS only
2	337843			73500 106			3/3	1000	1.0		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337844			73500 107			3/3	1000	1.0		13	1	Conc. to 0.5ml final volume
4	337845			73500 108			3/3	1000	1.0		13	1	add ____ ml validation spike to BN only
5	337846			73500 111			1/3	1000	1.0		13	1	
6	337847			73500 112			7/9	1000	1.0		13	1	
7	337848			73500 110			1/3	1000	1.0		13	1	
8	337849			73500 109			2/3	1000	1.0		13	1	
9	337850		↓	73500 113			1/3	1000	1.0		13	1	
10	336210[illegible]		19698	8020 56000			3/3	1000 ml	1.0		13	1	*
11													
12													
13	338347	↓		SBLK 86	B1			1000 ml	1.0		13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0 ml				
	LOT	31922				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

MANUAL COUNTER 510/889

FINAL VOLUME VERIFIED CaDA Hooker

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5-11-90

SURROGATE & SPIKE ADDED CORRECTLY A.W. 5.11.90 (INT / DATE)

ISSUED BY:

RECEIVED

710

NYDEC RA090 0507 ORGANIC

COMPUCHEM # 037848 FILE: 0H037848A22 COMPOUND LIST 170 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	455	161000	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	10
481	79		PYRIDINE (Z9#1)				BDL	10
509	69		ETHYLMATHACRYLATE (Z9#2)				BDL	10
542	89		PARALDEHYDE (Z9#3)				BDL	10
510	93		2-PICOLINE (Z9#56)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (Q1#3)				BDL	10
473	93		ANILINE (Q1#4)				BDL	10
505	167		PENTACHLOROETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20
601	128		2-CHLOROPHENOL (Q1#6)				BDL	10
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLOROBENZENE (Q1#8)				BDL	10
474	108		BENZYL ALCOHOL (Q1#9)				BDL	10
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	10
620	108		2-METHYLPHENOL (Q1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (Q1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLOROETHANE (Q1#15)				BDL	10
460	136	I	D8-NAPHTHALENE (IS#2)	562	552000	40.0		
440	77		NITROBENZENE (Q1#16)				BDL	10
502	114		N-NITROSOPIPERIDINE				BDL	10
438	82		ISOPHORONE (Q2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (Q2#4)				BDL	10
606	139		2-NITROPHENOL (Q2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (B2#5)				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (Q2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (Q2#				BDL	10
439	128		NAPHTHALENE (Q2#9)				BDL	10

CORRECTED/REVIEWED BY M. Dantoni
(QC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (G2#10)				BDL	10
631	162		2,6-DICHLOROPHENOL (I9#18)				BDL	20
524	108		O-PHENYLENEDIAMINE (I9#19)			53.6	54	10
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	10
537	213		HEXACHLOROPROPENE (I9#21)				BDL	10
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	10
450	180		1,2,3-TRICHLOROBENZENE (I9#				BDL	10
534	159		BENZOTRICHLORIDE (I9#23)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (G2#12)				BDL	10
526	108		P-PHENYLENEDIAMINE (I9#20)				BDL	10
503	162		SAFROLE (I9#27)				#DL	10
525	108		M-PHENYLENEDIAMINE (I9#26)				BDL	10
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	10
495	164	I	010-ACENAPHTHENE (I8#3)	716	270000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	20
527	162		ISOSAFROLE (I9#30)				BDL	20
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	10
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	10
478	65		2-NITROANILINE (G3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (I9#32)				BDL	20
491	168		1,4-DINITROBENZENE (F3#2)				BDL	20
425	163		DIMETHYL PHTHALATE (G3#7)				BDL	10
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	10
402	152		ACENAPHTHYLENE (G3#8)				BDL	10
479	138		3-NITROANILINE (G3#9)				BDL	20
401	153		ACENAPHTHENE (G3#10)				BDL	10
605	184		2,4-DINITROPHENOL (G3#11)				BDL	40
607	109		4-NITROPHENOL (G3#12)				#DL	10
427	165		2,4-DINITROTOLUENE (G3#14)				#DL	10
476	168		DIBENZOFURAN (G3#13)				BDL	10
507	250		PENTACHLOROBENZENE (I9#33)				BDL	10
484	143		2-NAPHTHYLAMINE (I9#35)				BDL	20
483	143		1-NAPHTHYLAMINE (I9#36)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (G3#16)				#DL	10
519	97		DINOPHOS (I9#38)				BDL	10

CORRECTED/REVIEWED BY _____
(QC/MB DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	10
432	166		FLUORENE (G3#18)				BDL	10
480	138		4-NITROANILINE (G3#19)				#DL	20
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	20
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	10
467	188	I	D10-PHENANTHRENE (IS#4)	845	304000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1088	164000	40.0		
497	264	I	D10-PERYLENE (IS#6)	1293	114000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			92.1	46.%	
612	99	S	D5-PHENOL (SS#2)			73.7	37.%	
447	82	S	D5-NITROBENZENE (SS#3)			69.0	69.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			73.7	74.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			180.0	90.%	
471	212	S	D10-PYRENE (SS#6)			81.5	81.%	
496	244	S	D14-TERPHENYL (SS#7)			80.4	80.%	
CHECKSUM#:								
14270.				4959	1365000.	944.0		54.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	92.1	200.0	46.	21-100	X	
96	612	D5-PHENOL (SS#2)	73.7	200.0	37.	10- 94	X	
97	447	D5-NITROBENZENE (SS#3)	69.0	100.0	69.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	73.7	100.0	74.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	180.0	200.0	90.	10-123	X	
#1	471	D10-PYRENE (SS#6)	81.5	100.0	81.	40-130*	X	
#1	496	D14-TERPHENYL (SS#7)	80.4	100.0	80.	33-141	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ ML}{1000.\ ML} \times 1.0\ ML \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ UL}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ UL}{1000\ UL} \times 1.0\ ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

COMPUCHEM # 037848 FILE: GH037848A22 COMPOUND LIST 173 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME-	RCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	845	304000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	30
443	169		N-NITROSODIPHENYLAMINE (Q48				BDL	10
567	169		DIPHENYLAMINE (F3#3)				BDL	10
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	20
539	108		PHENACETIN (Z9#42)				BDL	10
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	10
577	234		DIALLATE (TRANS ISOMER)				BDL	10
541	125		DIMETHOATE (Z9#44)				BDL	10
433	284		HEXACHLOROBENZENE (Q4#5)				BDL	10
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	10
522	173		PRONAMIDE (Z9#46)				BDL	10
609	266		PENTACHLOROPHENOL (Q4#6)				BDL	20
453	237		PENTACHLORONITROBENZENE (Z9				BDL	10
444	178		PHENANTHRENE (Q4#7)				BDL	10
403	178		ANTHRACENE (Q4#8)				BDL	10
426	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL	10
516	97		METHAPYRILENE (Z9#48)				BDL	20
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	50
431	202		FLUORANTHENE (Q4#10)				BDL	10
459	240	I	D12-CHRYSENE (IS#5)	1088	164000	40.0		
404	184		BENZIDINE (Q5#2)				BDL	10
445	202		PYRENE (Q5#3)				BDL	10
530	185		ARAMITE (Z9#50)			2.5	BDL [illegible]	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
523	139		CHLOROBENZILATE (Z9#52)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	20
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	10
533	244		DIMEYHOXYBENZIDINE (Z9#57)				BDL	10
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	10
405	228		BENZO(A)ANTHRACENE (Q5#6)				BDL	10
418	228		CHRYSENE (Q5#8)				BDL	10
497	264	I	D10-PERYLENE (IS#6)	1293	114000	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	10
407	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (Q6#4)				BDL	10
406	252		BENZO(A)PYRENE (Q6#5)				BDL	10
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	10
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	10
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	10
576	234		DIALLATE (CIS ISOMER)				BDL	10
531	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS:								
	10115.			3226	582000.	122.9		2.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

71800111

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337846

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH017846C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

(1) - Cannot be separated from Diphenylamine

108-70-3--------1,3,5-Trichlorobenzene	10	U
98-87-3---------Benzal chloride	10	U
65-85-0---------Benzoic Acid	100	U
111-91-1--------bis(2-Chloroethoxy)Methane	10	U
120-83-2--------2,4-Dichlorophenol	10	U
120-82-1--------1,2,4-Trichlorobenzene	10	U
91-20-3---------Naphthalene	10	U
106-47-8--------4-Chloroaniline	10	U
87-65-0---------2,6-Dichlorophenol	20	U
95-54-5---------o-Phenylenediamine	10	U
122-09-8--------dimethylphenylethylamine	10	U
1888-71-7-------Hexachloropropene	10	U
87-68-3---------Hexachlorobutadiene	10	U
87-61-6---------1,2,3-Trichlorobenzene	10	U
98-07-7---------Benzotrichloride	20	U
924-16-3--------N-Nitroso-di-n-butylamine	10	U
59-50-7---------4-Chloro-3-Methylphenol	10	U
106-50-3--------P-Phenylenediamine	10	U
94-59-7---------Safrole	10	U
106-50-3--------m-Phenylenediamine	10	U
91-57-6---------2-Methylnaphthalene	10	U
90-12-0---------1-Methylnaphthalene	10	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	10	U
77-47-4---------Hexachlorocyclopentadiene	10	U
88-06-2---------2,4,6-Trichlorophenol	20	U
95-95-4---------2,4,5-Trichlorophenol	20	U
120-58-1--------Isosafrole	20	U
91-58-7---------2-Chloronaphthalene	10	U
90-13-1---------1-Chloronaphthalene	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	10	U
88-74-4---------2-Nitroaniline	10	U
130-15-4--------1,4-Naphthoquinone	20	U
100-25-4--------1,4-Dinitrobenzene	20	U
131-11-3--------Dimethyl Phthalate	10	U
208-96-8--------Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800111

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337846

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037B46C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5	Methapyrilene	20	U
50-18-0	Cyclophosphamide	50	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	10	U
129-00-0	Pyrene	10	U
140-57-8	Aramite	20	U
60-11-7	p-Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
53-96-3	2-Acetylaminofluorene	10	U
101-14-4	Methylene-bis(2-chloroaniline	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
106-51-4	3,3'-Dimethoxybenzidine	10	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
57-97-6	7,12-Dimethylbenzanthracene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
56-49-5	3-Methylcholanthrene	10	U
224-42-0	Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

73800111

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337846

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037846C22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

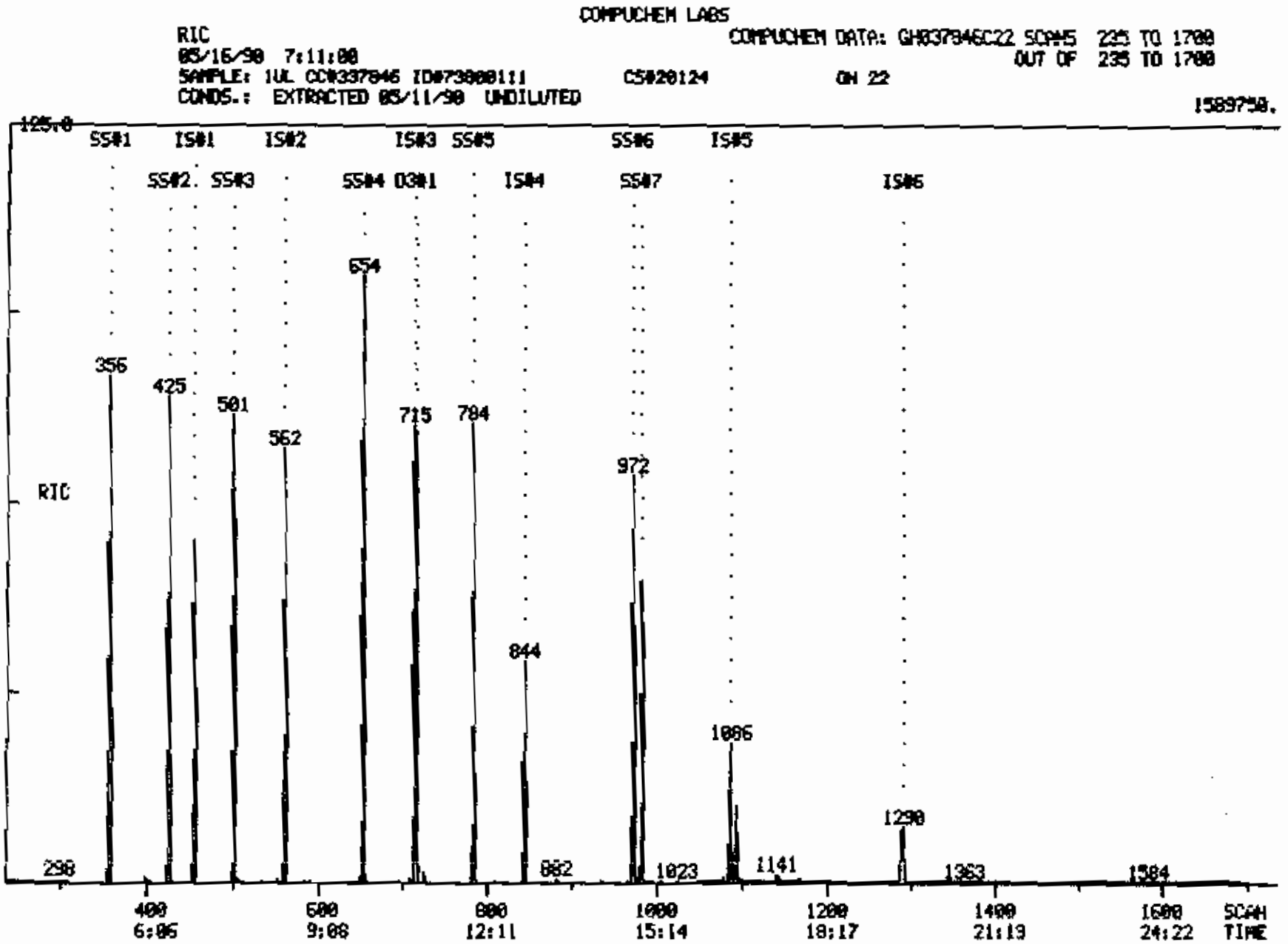
GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1316-80-9	CYCLOHEPTATRIENYLIUM, IODIDE	16.39	48	J

FORM I BV-TIC 1/87 Rev.



NYDEC RA090 0507 ORGANIC

QUANTITATION REPORT FILE: QH037846C22
DATA: QH037846C22.TI
05/16/90 7:11:00
SAMPLE: 1UL CC#337846 ID#73800111 CS#20124 ON 22
CONDS.: EXTRACTED 05/11/90 UNDILUTED
SUBMITTED BY: 22 ANALYST: 619

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (I8#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (I8#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSOPIPERIDINE
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	475 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	519 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	497 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	4#3 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D10-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	455	6:56	1	1.000	A BB	158516.	40.000	NG	4.66
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	562	8:34	31	1.000	A BB	361192.	40.000	NG	4.66
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	562	8:34	31	1.000	A BB	94408.	53.000	NG	6.17 n/o
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	199	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	719	10:53	59	1.000	A BB	278248.	40.000	NO	4.66
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	69	NOT FOUND								
70	138	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	169	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	149	NOT FOUND								
83	149	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	844	12:51	92	1.000	A BB	326164.	40.000	NO	4.66
93	240	1086	16:32	93	1.000	A BB	177424.	40.000	NO	4.66
94	264	1290	19:39	94	1.000	A BB	140776.	40.000	NO	4.66
95	112	356	5:25	1	0.782	A BB	615164.	83.011	NO	9.66
96	99	425	6:28	1	0.934	A BB	343844.	60.781	NO	7.07
97	82	501	7:38	31	0.891	A BB	513380.	57.314	NO	6.67
98	172	654	9:58	59	0.915	A BB	363856.	63.393	NO	7.38
99	330	784	11:56	59	1.097	A BB	93076.	160.274	NO	18.65
100	212	972	14:48	93	0.895	A BV	482752.	73.040	NO	8.50
101	244	982	14:57	93	0.904	A BV	357360.	68.537	NO	7.98

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.348	
3	3:52		10.000			50.00		1.942	
4	4:25		10.000			50.00		1.888	
5	4:25		10.000			50.00		0.370	
6	4:47		20.000			50.00		2.081	
7	4:55		10.000			200.00		0.439	
8	5:15		10.000			50.00		1.369	
9	5:44		10.000			50.00		0.983	

NWDEC R9090 0507 ORGANIC

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:03		10.000			50.00		1.052	
11	6:31		10.000			50.00		2.659	
12	6:35		10.000			50.00		3.199	
13	6:37		10.000			50.00		0.329	
14	6:38		20.000			50.00		2.281	
15	6:44		10.000			50.00		1.882	
16	6:55		10.000			50.00		1.946	
17	6:59		10.000			50.00		4.277	
18	6:59		10.000			50.00		1.947	
19	7:07		10.000			50.00		1.211	
20	7:12		10.000			50.00		1.777	
21	7:15		10.000			50.00		1.716	
22	7:19		10.000			50.00		2.437	
23	7:25		10.000			100.00		1.814	
24	7:25		10.000			100.00		1.814	
25	7:26		10.000			50.00		0.932	
26	7:27		10.000			50.00		0.453	
27	7:28		10.000			50.00		2.822	
28	7:29		10.000			50.00		1.698	
29	7:31		10.000			50.00		2.067	
30	7:37		10.000			50.00		1.040	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:41		10.000			50.00		0.590	
33	7:52		10.000			50.00		0.205	
34	7:58		10.000			50.00		1.121	
35	8:06		10.000			50.00		0.532	
36	8:05		10.000			50.00		0.228	
37	8:07		10.000			50.00		0.284	
38	8:08		10.000			50.00		0.784	
39	8:12		100.000			50.00		0.189	
40	8:13		10.000			50.00		0.558	
41	8:23		10.000			50.00		0.270	
42	8:31		10.000			50.00		0.296	
43	8:36		10.000			50.00		1.306	
44	8:39		10.000			50.00		0.643	
45	8:41		20.000			50.00		0.307	
46	8:34	1.00	10.000	0.10	53.00	50.00	0.135	0.127	1.06
47	8:47		10.000			50.00		0.071	
48	8:45		10.000			50.00		0.141	
49	8:49		10.000			50.00		0.130	
50	8:50		10.000			50.00		0.261	
51	8:55		20.000			50.00		0.419	
52	9:06		10.000			50.00		0.193	
53	9:15		10.000			50.00		0.451	
54	9:15		10.000			50.00		0.030	
55	9:21		10.000			50.00		0.262	
56	9:21		10.000			50.00		0.001	
57	9:29		10.000			50.00		0.982	
58	9:38		10.000			50.00		0.520	
59	10:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:46		10.000			100.00		0.449	
61	9:46		10.000			100.00		0.449	
62	9:48		10.000			50.00		0.182	
63	9:53		20.000			50.00		0.330	
64	9:56		20.000			50.00		0.325	
65	10:01		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:09		10.000			50.00		1.495	
67	10:11		10.000			50.00		1.104	
68	10:10		10.000			50.00		0.427	
69	10:17		10.000			50.00		0.583	
70	10:21		20.000			50.00		0.433	
71	10:24		20.000			50.00		0.204	
72	10:31		10.000			50.00		1.495	
73	10:38		10.000			50.00		0.307	
74	10:42		10.000			50.00		1.917	
75	10:49		20.000			50.00		0.348	
76	10:57		10.000			50.00		1.317	
77	10:57		40.000			50.00		0.108	
78	11:00		10.000			50.00		0.319	
79	11:09		10.000			50.00		0.429	
80	11:10		10.000			50.00		1.693	
81	11:12		10.000			50.00		0.341	
82	11:15		20.000			50.00		0.818	
83	11:21		20.000			50.00		0.887	
84	11:22		20.000			50.00		0.174	
85	11:27		10.000			50.00		1.719	
86	11:35		10.000			50.00		0.436	
87	11:35		10.000			50.00		0.438	
88	11:37		10.000			50.00		1.334	
89	11:38		20.000			50.00		0.354	
90	11:38		20.000			50.00		0.383	
91	11:48		10.000			50.00		2.253	
92	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:27	0.99	0.742	1.09	83.01	50.00	3.105	1.870	1.66
96	6:30	1.00	0.948	0.98	60.78	50.00	2.745	2.258	1.22
97	7:40	1.00	0.875	1.02	57.31	50.00	0.732	0.638	1.15
98	9:59	1.00	0.906	1.01	63.39	50.00	1.621	1.279	1.27
99	11:57	1.00	1.118	0.98	160.27	50.00	0.268	0.083	3.21
100	14:49	1.00	10.000	0.09	73.04	50.00	2.177	1.490	1.46
101	14:58	1.00	0.907	1.00	68.54	50.00	1.611	1.176	1.37

NYDEC RA890 0507 ORGANIC

```
QUANTITATION REPORT     FILE: QH037846C22
DATA: QH037846C22.TI
05/16/90  7:11:00
SAMPLE: 1UL CC#337846 ID#73800111          CS#20124              ON 22
COND'S.:  EXTRACTED 05/11/90  UNDILUTED
SUBMITTED BY:      22        ANALYST:       619

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

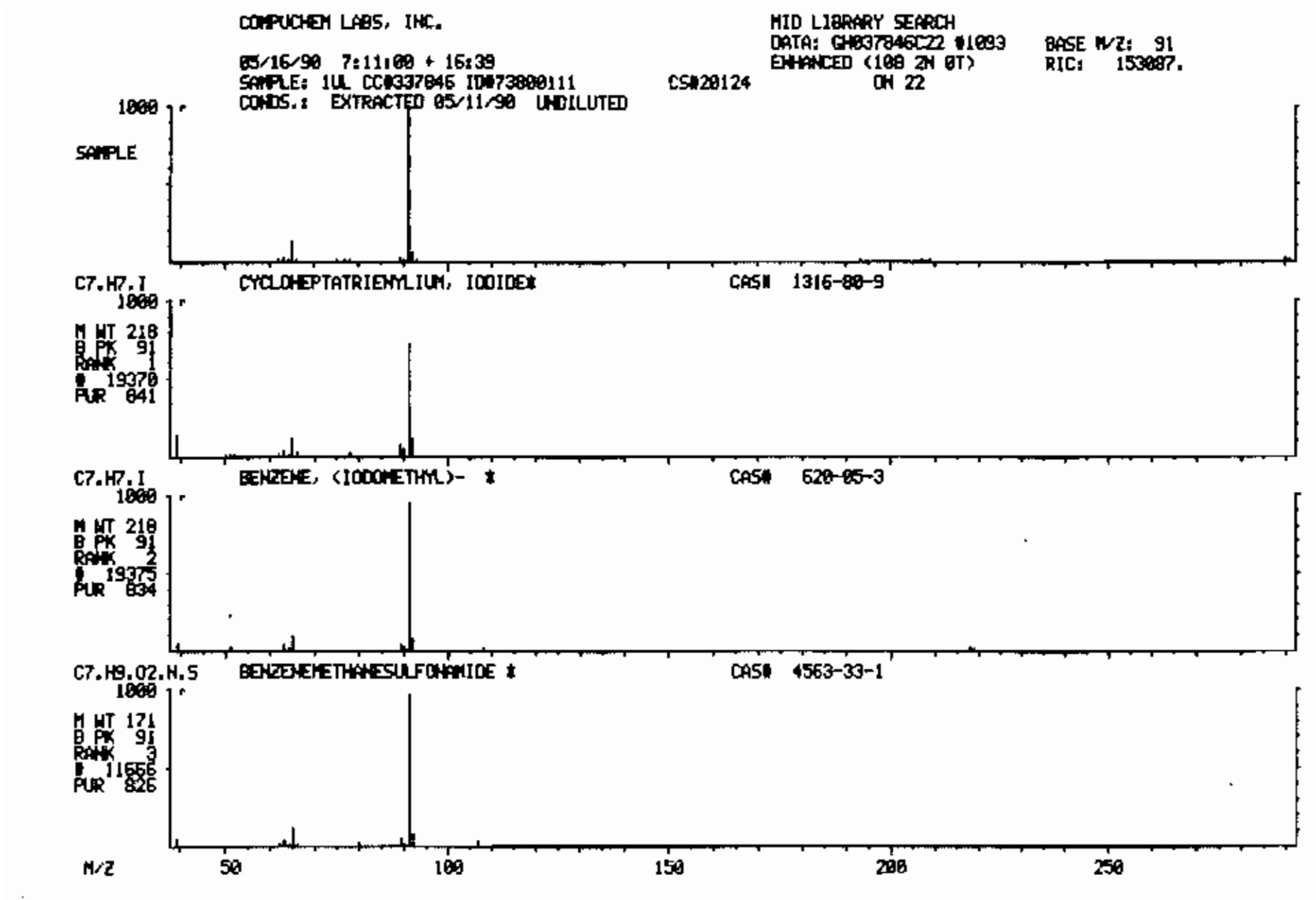
 NO   NAME
  1   *467 D10-PHENANTHRENE (IS#4)
  2   604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
  3   443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
  4   567 DIPHENYLAMINE (F3#3)
  5   508 1,3,5-TRINITROBENZENE (Z9#41)
  6   539 PHENACETIN (Z9#42) <63-44-2>
  7   414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
  8   577 DIALLATE (TRANS ISOMER)
  9   541 DIMETHOATE (Z9#44)
 10   433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
 11   485 4-AMINOBIPHENYL (Z9#45)
 12   522 PRONAMIDE (Z9#46)
 13   609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
 14   453 PENTACHLORONITROBENZENE (Z9#47)
 15   444 PHENANTHRENE (Q4#7) <85-01-8>
 16   403 ANTHRACENE (Q4#8) <120-12-7>
 17   426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
 18   516 METHAPYRILENE (Z9#48)
 19   549 CYCLOPHOSPHAMIDE (Z9#49)
 20   431 FLUORANTHENE (Q4#10) <206-44-0>
 21   *459 D12-CHRYSENE (IS#5)
 22   404 BENZIDINE (B5#2) <92-87-5>
 23   445 PYRENE (Q5#3) <129-00-0>
 24   530 ARAHITE (Z9#50) <140-57-4>
 25   487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26   523 CHLOROBENZILATE (Z9#52)
 27   545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28   415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
 29   488 2-ACETYLAMINO FLUORENE (F5#2)
 30   489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31   423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
 32   533 DIMETHOXYBENZIDINE (Z9#57)
 33   413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
 34   405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
 35   418 CHRYSENE (Q5#8) <218-01-9>
 36   *497 D10-PERYLENE (IS#6)
 37   429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
 38   407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
 39   517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40   409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
 41   406 BENZO(A)PYRENE (Q6#5) <50-32-8>
 42   565 3-METHYLCHLORANTHRENE (F6#2)
 43   566 DIBENZO(A,J)ACRIDINE
 44   437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
 45   419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
 46   408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
```

NO	NAME
47	576 DIALLATE (CIB ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
1	188	844	12:51	1	1.000	A BB	326164.	40.000	NG	32.72
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1086	16:32	21	1.000	A BB	177424.	40.000	NG	32.72
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	972	14:48	21	0.895	A BB	400.	2.267	NG	1.85
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1290	19:39	36	1.000	A BB	140776.	40.000	NG	32.72
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:43		30.000			50.00		0.111	
3	11:45		10.000			100.00		0.815	
4	11:45		10.000			100.00		0.815	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.060	
6	12:08		10.000			50.00		0.642	
7	12:14		10.000			50.00		0.165	
8	12:09		10.000			25.00		0.106	
9	12:25		10.000			50.00		0.180	
10	12:28		10.000			50.00		0.197	
11	12:35		10.000			50.00		0.749	
12	12:40		10.000			50.00		0.412	
13	12:41		20.000			50.00		0.104	
14	12:48		10.000			50.00		0.078	
15	12:55		10.000			50.00		1.304	
16	12:59		10.000			50.00		1.311	
17	13:36		10.000			50.00		1.997	
18	14:03		20.000			50.00		0.408	
19	14:19		50.000			200.00		0.024	
20	14:32		10.000			50.00		1.024	
21	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:38		10.000			50.00		0.134	
23	14:51		10.000			50.00		2.070	
24	14:49	1.00	20.000	0.04	2.27	50.00	0.002	0.040	0.05
25	15:10		10.000			50.00		0.271	
26	15:13		10.000			50.00		1.379	
27	15:37		20.000			50.00		0.509	
28	15:36		10.000			50.00		1.321	
29	16:00		10.000			50.00		0.619	
30	16:23		10.000			50.00		0.179	
31	16:25		10.000			50.00		0.242	
32	16:21		10.000			50.00		0.147	
33	16:25		10.000			50.00		1.809	
34	16:32		10.000			50.00		1.166	
35	16:36		10.000			50.00		1.114	
36	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:30		10.000			50.00		2.896	
38	18:41		10.000			100.00		1.002	
39	18:41		10.000			50.00		0.487	
40	18:41		10.000			100.00		1.002	
41	19:31		10.000			50.00		1.192	
42	20:32		10.000			50.00		0.582	
43	22:25		10.000			50.00		0.886	
44	23:12		10.000			50.00		1.334	
45	23:12		10.000			50.00		1.100	
46	24:15		10.000			50.00		1.065	
47	12:17		10.000			25.00		0.135	


COMPUCHEM LABS, INC.
05/16/90 7:11:00 + 16:39
SAMPLE: 1UL CC#337846 ID#73800111
CONDS.: EXTRACTED 05/11/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GH037846C22 #1093
ENHANCED (100 2N 0T)
CS#20124
ON 22
BASE M/Z: 91
RIC: 153087.
1000
SAMPLE
C7.H7.I
CYCLOHEPTATRIENYLIUM, IODIDE*
CAS# 1316-80-9
M WT 218
B PK 91
RANK 1
19370
PUR 841
C7.H7.I
BENZENE, (IODOMETHYL)- *
CAS# 620-05-3
M WT 218
B PK 91
RANK 2
19375
PUR 834
C7.H9.O2.N.S
BENZENEMETHANESULFONAMIDE *
CAS# 4563-33-1
M WT 171
B PK 91
RANK 3
11656
PUR 826
M/Z
50
100
150
200
250

LAB INSTRUCTIONS:
SEE PPS#407 CASE#RA090 SDG#0507

PPS#: _____

MAST 5-6

RECEIPT DATE: 09/09/90 CASE#: 20124

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 337846

J[ ] J3[ ] D[ ] (:1)
EJ[ ] J4[ ] DE[ ] (:1)

GC/MS; FULL LIST S-V; WATER;3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 73800111

GC/MS ANALYSIS
Volumes mixed: BN _____ ul Acid _____ ul -200-
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date Sample Bottle Analyzed 5/11/90
DFTPP Filename DH900516C22 Disk (90540)
Standard Filename HH900514C22 Disk ( )
Sample Filename GH037846.C22 Disk (/)

[redacted]

ANALYST(S): Injection 109 Work-up S.Colegan

GC/MS REVIEW

CONDITION CODE [6K]

Extraneous Peak Search Results: Complete 5.16.90

# of Peaks Found: 21

# of Hits: 4

# of Surrogate Outliers: 4

Quality Assurance Notice(s):

Notices Required 1

Disposition:
[/] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

COMMENTS:

#GC/MS Review _____ Date 5/17/90 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: _____
Final Reportable Package(s): _____/_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC0793

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: CH Carl Hooker

DATE ASSIGNED 5/11/90

EMP ID NUMBER 187

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL(ml) SV B/N	FINAL EXTRACT VOL(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337842	-079	20124	73580 105			3/3	1000	1.0		13	1	* Use 500ml sample volume for 85 only
2	337843			73580 106			3/3	1000	1.0		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337844			73580 107			3/3	1000	1.0		13	1	Conc. to 0.5ml final volume
4	337845			73580 108			3/3	1000	1.0		13	1	add ____ ml validation spike to 86 only
5	337846			73580 181			1/3	1000	1.0		13	1	
6	337847			73580 112			7/9	1000	1.0		12	1	
7	337848			73580 110			1/3	1000	1.0		13	1	
8	337849			73580 189			2/3	1000	1.0		13	1	
9	337850		↓	73580 113			1/3	1000	1.0		13	1	
10	336210		19698	8020 56000			3/3	1000ml	1.0		13	1	*
11													
12													
13	338347	↓		SBLK 86	B1			1000ml	1.0		13	1	

		B-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0 ml				
	LOT	31982				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

MANUAL COUNTER 510/889

FINAL VOLUME VERIFIED Carl A Hooker

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5-11-90

SURROGATE & SPIKE ADDED CORRECTLY A.W. 5-11-90 (INT / DATE)

ISSUED BY:

[redacted]D

684

NYDEC RA090 0507 ORGANIC

CMP #	M/E	F	COMPOUND NAME.	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (I6#	455	159000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G10				BDL	10
481	79		PYRIDINE (Z9#1)				BDL	10
509	69		ETHYLMATHACRYLATE (Z9#2)				BDL	10
542	89		PARALDEHYDE (Z9#3)				BDL	10
510	93		2-PICOLINE (Z9#36)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (G1#3)				BDL	10
473	93		ANILINE (G1#4)				BDL	10
509	167		PENTACHLORDETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20
601	128		2-CHLOROPHENOL (G1#6)				BDL	10
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	10
474	108		BENZYL ALCOHOL (G1#9)				BDL	10
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	10
620	108		2-METHYLPHENOL (G1#11)				BDL	10
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (G1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLOROETHANE (G1#15)				BDL	10
460	136	I	D8-NAPHTHALENE (I8#2)	562	561000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	10
502	114		N-NITROSOPIPERIDINE				BDL	10
438	82		ISOPHORONE (G2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	10
606	139		2-NITROPHENOL (G2#3)				BDL	10
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (G2#5)				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	10
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	10
439	128		NAPHTHALENE (G2#9)				BDL	10

CORRECTED/REVIEWED BY M. McTeague
(QC/MS DATA REVIEWER)

DATE 5-17-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (Q2#10)				BDL	10
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	20
524	108		O-PHENYLENEDIAMINE (Z9#19)			32.0	80	10
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	10
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	10
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	10
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	10
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (Q2#12)				BDL	10
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	10
503	162		SAFROLE (Z9#27)				BDL	10
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	10
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	10
493	164	I	DIO-ACENAPHTHENE (IS#3)	715	278000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	20
527	162		ISOSAFROLE (Z9#30)				BDL	20
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	10
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	10
478	65		2-NITROANILINE (Q3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	20
491	168		1,4-DINITROBENZENE (F3#2)				BDL	20
425	163		DIMETHYL PHTHALATE (Q3#7)				BDL	10
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	10
402	152		ACENAPHTHYLENE (Q3#8)				BDL	10
479	138		3-NITROANILINE (Q3#9)				BDL	20
401	153		ACENAPHTHENE (Q3#10)				BDL	10
605	184		2,4-DINITROPHENOL (Q3#11)				BDL	40
607	109		4-NITROPHENOL (Q3#12)				BDL	10
427	165		2,4-DINITROTOLUENE (Q3#14)				BDL	10
476	168		DIBENZOFURAN (Q3#13)				BDL	10
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	10
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	20
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (Q3#16)				BDL	10
519	97		ZINOPHOS (Z9#38)				BDL	10

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL-PHENYL ETHER				BDL	10
432	166		FLUORENE (B3#18)				BDL	10
480	138		4-NITROANILINE (B3#19)				BDL	20
498	152		5-NITRO-O-TOLUIDINE (I9#34)				BDL	20
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	10
467	188	I	D10-PHENANTHRENE (IS#4)	844	326000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1086	177000	40.0		
497	264	I	D10-PERYLENE (IB#6)	1290	141000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			83.0	41.%	
612	99	S	D5-PHENOL (SS#2)			60.8	30.%	
447	82	S	D5-NITROBENZENE (SS#3)			57.3	57.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			63.4	63.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			160.0	80.%	
471	212	S	D10-PYRENE (SS#6)			73.0	73.%	
496	244	S	D14-TERPHENYL (SS#7)			68.9	68.%	
CHECKSUMS:								
	14270.			4952	1642000.	859.0		53.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	83.0	200.0	41.	21-100	X	
96	612	D5-PHENOL (SS#2)	60.8	200.0	30.	10- 94	X	
97	447	D5-NITROBENZENE (SS#3)	57.3	100.0	57.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	63.4	100.0	63.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	160.0	200.0	80.	10-123	X	
#1	471	D10-PYRENE (SS#6)	73.0	100.0	73.	40-130*	X	
#1	496	D14-TERPHENYL (SS#7)	68.5	100.0	68.	33-141	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{1000\ \text{UL}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MB DATA REVIEWER)

DATE 5-17-90

COMPUCHEM # 037846 FILE: GM037846C22 COMPOUND LIST 173 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	844	326000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	30
A43	169		N-NITROSODIPHENYLAMINE (G4#				BDL	10
567	169		DIPHENYLAMINE (F3#3)				BDL	10
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	20
539	108		PHENACETIN (Z9#42)				BDL	10
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	10
577	234		DIALLATE (TRANS ISOMER)				BDL	10
541	125		DIMETHOATE (Z9#44)				BDL	10
433	284		HEXACHLOROBENZENE (G4#5)				BDL	10
488	169		4-AMINOBIPHENYL (Z9#45)				BDL	10
522	173		PRONAMIDE (Z9#46)				BDL	10
609	266		PENTACHLOROPHENOL (G4#6)				BDL	20
453	237		PENTACHLORONITROBENZENE (Z9				BDL	10
444	178		PHENANTHRENE (G4#7)				BDL	10
403	178		ANTHRACENE (G4#8)				BDL	10
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	10
516	97		METHAPYRILENE (Z9#48)				BDL	20
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	50
431	202		FLUORANTHENE (G4#10)				BDL	10
459	240	I	D12-CHRYSENE (IS#5)	1086	177000	40.0		
404	184		BENZIDINE (G5#2)				BDL	10
445	202		PYRENE (G5#3)				BDL	10
530	185		ARAMITE (Z9#50)			3.3	est 25	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
523	139		CHLOROBENZILATE (Z9#52)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	10
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	10
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	10
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	10
418	228		CHRYSENE (G5#8)				BDL	10
497	264	I	D10-PERYLENE (IS#6)	1290	141000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	10
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	10
406	252		BENZO(A)PYRENE (G6#5)				BDL	10
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-17-90

NYDEC RA890 0507 ORGANIC

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C_jD)PYRENE (G6				BDL	10
419	278		DIBENZO(A,H)ANTHRACENE (G6*				BDL	10
408	276		BENZO(G,H,I)PERYLENE (G6**				BDL	10
376	234		DIALLATE (CIS ISOMER)				BDL	10
531	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS:								
10115.				3220	644000.	122.3		2.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-17-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-17-90

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800112

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337847

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037847C07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/18/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATIDN UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
62-75-9	N-Nitrosodimethylamine	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	1200	E
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	2	J
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	3	J
106-44-5	4-Methylphenol	3	J
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	2	J
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	15	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	6	J

108-70-3--------1,3,5-Trichlorobenzene_____	10	U
98-87-3---------Benzal chloride_____	10	U
65-85-0---------Benzoic Acid_____	100	U
111-91-1--------bis(2-Chloroethoxy)Methane___	10	U
120-83-2--------2,4-Dichlorophenol_____	10	U
120-82-1--------1,2,4-Trichlorobenzene_____	10	U
91-20-3---------Naphthalene_____	8	J
106-47-8--------4-Chloroaniline_____	2	J
87-65-0---------2,6-Dichlorophenol_____	20	U
95-54-5---------o-Phenylenediamine_____	10	U
122-09-8--------dimethylphenylethylamine_____	10	U
1888-71-7-------Hexachloropropene_____	10	U
87-68-3---------Hexachlorobutadiene_____	10	U
87-61-6---------1,2,3-Trichlorobenzene_____	10	U
98-07-7---------Benzotrichloride_____	20	U
924-16-3--------N-Nitroso-di-n-butylamine____	10	U
59-50-7---------4-Chloro-3-Methylphenol_____	10	U
106-50-3--------P-Phenylenediamine_____	10	U
94-59-7---------Safrole_____	10	U
106-50-3--------m-Phenylenediamine_____	10	U
91-57-6---------2-Methylnaphthalene_____	1	J
90-12-0---------1-Methylnaphthalene_____	1	J
95-94-3---------1,2,4,5-Tetrachlorobenzene___	10	U
634-90-2--------1,2,3,5-Tetrachlorobenzene___	10	U
77-47-4---------Hexachlorocyclopentadiene____	10	U
88-06-2---------2,4,6-Trichlorophenol_____	20	U
95-95-4---------2,4,5-Trichlorophenol_____	20	U
120-58-1--------Isosafrole_____	20	U
91-58-7---------2-Chloronaphthalene_____	10	U
90-13-1---------1-Chloronaphthalene_____	10	U
634-66-2--------1,2,3,4-Tetrachlorobenzene___	10	U
88-74-4---------2-Nitroaniline_____	10	U
130-15-4--------1,4-Naphthoquinone_____	20	U
100-25-4--------1,4-Dinitrobenzene_____	20	U
131-11-3--------Dimethyl Phthalate_____	10	U
208-96-8--------Acenaphthylene_____	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73S00112

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337847

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037847C07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/18/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	20	U
50-18-0---------Cyclophosphamide	50	U
206-44-0---------Fluoranthene	10	U
92-87-5---------Benzidine	10	U
129-00-0---------Pyrene	10	U
140-57-8---------Aramite	20	U
60-11-7---------p-Dimethylaminoazobenzene	10	U
510-15-6---------Chlorobenzilate	10	U
119-93-7---------3,3'-Dimethylbenzidine	20	U
85-68-7---------Butylbenzylphthalate	10	U
53-96-3---------2-Acetylaminofluorene	10	U
101-14-4---------Methylene-bis(2-chloroaniline	10	U
91-94-1---------3,3'-Dichlorobenzidine	10	U
106-51-4---------3,3'-Dimethoxybenzidine	10	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
57-97-6---------7,12-Dimethylbenzanthracene	10	U
207-08-9---------Benzo(k)Fluoranthene	10	U
50-32-8---------Benzo(a)Pyrene	10	U
56-49-5---------3-Methylcholanthrene	10	U
224-42-0---------Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

73800112

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337847

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037847C07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/18/90

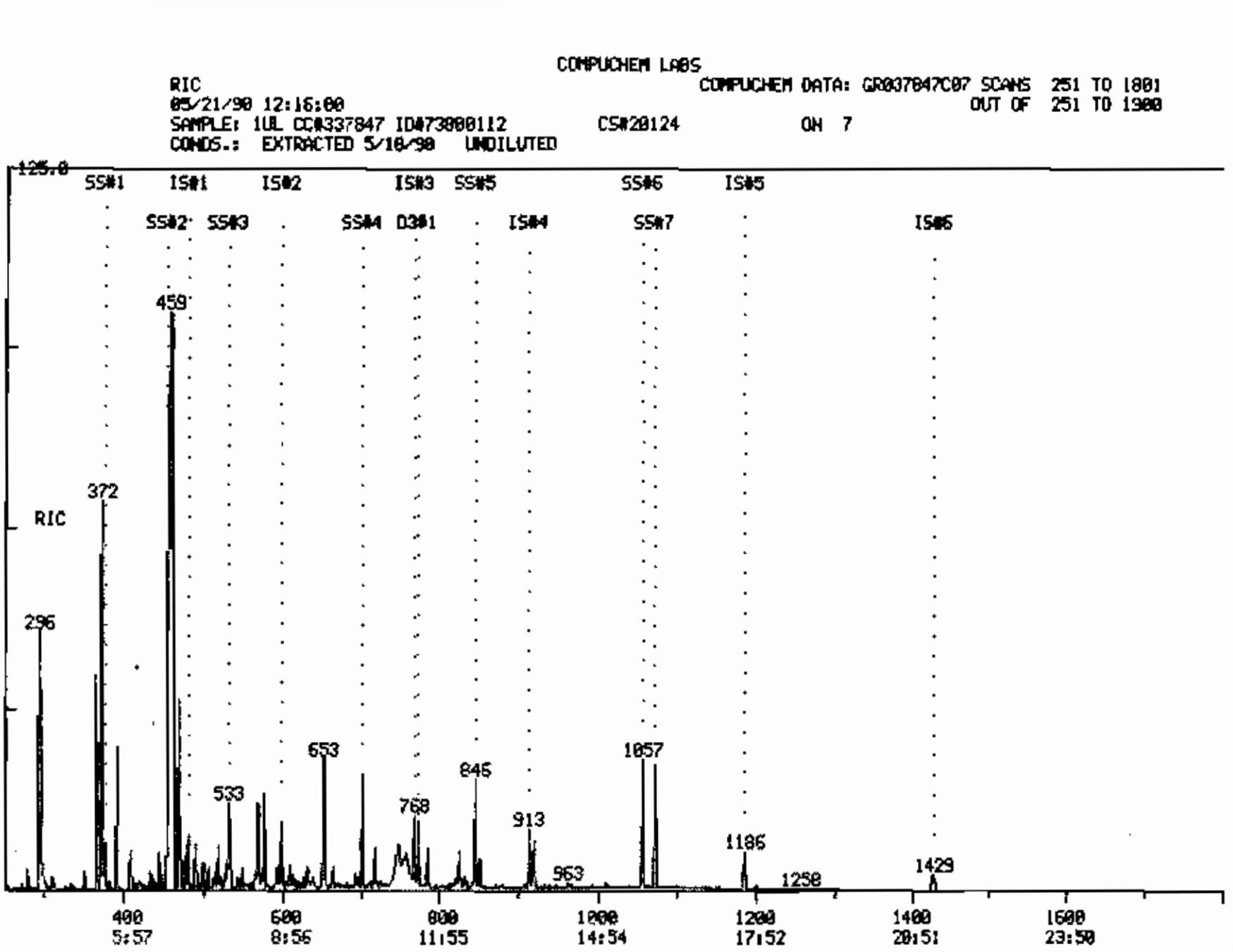
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Number TICs found: 25

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		VOA TCL	4.20	15	J
2.	68-12-2	FORMAMIDE, N,N-DIMETHYL-	4.43	260	J
3.		VOA TCL	5.27	10	J
4.		VOA TCL	5.47	100	J
5.		VOA TCL	5.57	250	J
6.		VOA TCL	5.85	66	J
7.		UNKNOWN	6.13	32	J
8.	620-14-4	BENZENE, 1-ETHYL-3-METHYL-	6.65	22	J
9.		UNKNOWN	7.03	120	J
10.		UNKNOWN	7.50	24	J
11.	100-61-8	BENZENAMINE, N-METHYL-	7.77	22	J
12.	137-18-8	2,5-CYCLOHEXADIENE-1,4-DIONE	8.23	17	J
13.	498-81-7	CYCLOHEXANEMETHANOL, .ALPHA.	8.54	88	J
14.	526-75-0	PHENOL, 2,3-DIMETHYL-	8.67	57	J
15.		UNKNOWN	8.89	14	J
16.	126-54-5	2,4,8,10-TETRAOXASPIRO[5.5]U	9.14	27	J
17.		UNKNOWN	9.79	81	J
18.		UNKNOWN	9.97	18	J
19.		UNKNOWN	10.40	14	J
20.		UNKNOWN	10.79	27	J
21.	101-83-7	CYCLOHEXANAMINE, N-CYCLOHEXY	11.22	92	J
22.		UNKNOWN	11.37	80	J
23.	6265-30-1	4,7-METHANO-1H-ISOINDOLE-1,3	11.79	35	J
24.		UNKNOWN	12.77	25	J
25.		UNKNOWN	13.79	41	J



COMPUCHEM LABS

COMPUCHEM DATA: GR007847C07 SCANS 1801 TO 1900
OUT OF 251 TO 1900

RIC
05/21/90 12:15:00
SAMPLE: 1UL CC837847 IDN:738000112
COMDS.: EXTRACTED 5/18/90 UNDILUTED

CS#20124

ON 7

7004150.

SCAN
TIME

```
QUANTITATION REPORT     FILE: GR037847C07
DATA: GR037847C07.TI
05/21/90 12:16:00
SAMPLE: 1UL CC#337847 ID#73900112          CS#20124              ON  7
CONDS.:   EXTRACTED 5/18/90    UNDILUTED
SUBMITTED BY:       7        ANALYST:       917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  *494 D4-1,4-DICHLOROBENZENE (I8#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  481 PYRIDINE (Z9#1)
  4   509 ETHYLMETHACRYLATE (T1#4)
  5  542 PARALDEHYDE (Z9#3)
  6  510 2-PICOLINE (Z9#56)
  7  535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
  8  543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
  9  499 N-NITROSODIETHYLAMINE (Z9#6)
 10  514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
 11  610 PHENOL (G1#3) <108-95-2>
 12  473 ANILINE (G1#4) <62-53-3>
 13  505 PENTACHLOROETHANE (Z9#8)
 14  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
 15  601 2-CHLOROPHENOL (G1#6) <95-57-8>
 16  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
 17  506 BENZYL CHLORIDE (Z9#9)
 18  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
 19  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 20  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 21  620 2-METHYLPHENOL (G1#11) <95-48-7>
 22  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 23  621 3-METHYLPHENOL (F1#2) <108-39-4>
 24  622 4-METHYLPHENOL (G1#13) <106-44-5>
 25  528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
 26  544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
 27  500 ACETOPHENONE (Z9#11)
 28  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 29  512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
 30  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 31  *460 DB-NAPHTHALENE (I8#2)
 32  440 NITROBENZENE (G1#16) <98-95-3>
 33  502 N-NITROSODIPIPERIDINE (Z9#14)
 34  438 ISOPHORONE (G2#2) <78-59-1>
 35  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 36  606 2-NITROPHENOL (G2#3) <88-75-5>
 37  451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
 38  518 BENZAL CHLORIDE (Z9#16) <98-87-3>
 39  625 BENZOIC ACID (G2#5) <65-85-0>
 40  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 41  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 42  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 43  439 NAPHTHALENE (G2#9) <91-20-3>
 44  475 4-CHLOROANILINE (G2#10) <106-47-8>
 45  631 2,6-DICHLOROPHENOL (Z9#18)
 46  524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>
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NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHTLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	#495 D10-ACENAPHTHENE (IS#3)
60	45T 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 IBOGAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	#467 D10-PHENANTHRENE (IS#4)
93	#459 D12-CHRYSENE (IS#5)
94	#497 D12-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#626 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471.D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	482	7:11	1	1.000	A BB	120792.	40.000	NQ	0.99
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	311	4:38	1	0.645	A BB	13164.	2.704	NQ	0.07
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	365	5:26	1	0.757	A BB	3800.	1.198	NQ	0.03
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	459	6:50	1	0.952	A BV	8335290.	1182.810	NQ	29.28
13	167	NOT FOUND								
14	93	459	6:50	1	0.952	A BV	8335290.	1695.240	NQ	41.97
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	490	7:18	1	1.017	A BB	54796.	5.631	NQ	0.14
18	146	NOT FOUND								
19	108	496	7:23	1	1.029	A BB	3744.	1.411	NQ	0.03
20	146	500	7:27	1	1.037	A BB	10956.	2.234	NQ	0.06
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	518	7:43	1	1.075	A*BB	13356.	3.254	NQ	0.08
24	108	518	7:43	1	1.075	A*BB	13356.	3.254	NQ	0.08
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	519	7:44	1	1.077	A BB	14280.	2.182	NQ	0.05
28	70	NOT FOUND								
29	106	522	7:46	1	1.083	A VV	72448.	14.657	NQ	0.36
30	117	530	7:54	1	1.100	A*BV	9240.	3.733	NQ	0.09
31	136	598	8:54	31	1.000	A BB	365976.	40.000	NQ	0.99
32	77	535	7:58	31	0.895	A VB	12312.	2.353	NQ	0.06
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	566	8:26	31	0.946	A BV	26140.	5.684	NQ	0.14
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	566	8:26	31	0.946	A BB	16728.	2.416	NQ	0.06
39	122	NOT FOUND								
40	93	578	8:37	31	0.967	A VB	21328.	4.734	NQ	0.12
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	600	8:56	31	1.003	A VB	93788.	8.178	NQ	0.20
44	127	606	9:02	31	1.013	A BV	9528.	2.154	NQ	0.05
45	162	NOT FOUND								
46	108	598	8:54	31	1.000	A BB	55060.	49.353	NQ	1.22
47	91	622	9:16	31	1.040	A BV	17926.	13.673	NQ	0.34
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	634	9:27	31	1.060	A VV	21547.	12.464	NQ	0.31
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	653	9:44	31	1.092	A BB	19636.	50.434	NQ	1.25

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	665	9:54	31	1.112	A BB	11024.	1.099	NG	0.03
58	142	676	10:04	31	1.130	A BB	6668.	1.326	NG	0.03
59	164	768	11:26	59	1.000	A BB	218208.	40.000	NG	0.99
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	748	11:08	59	0.974	A BV	32542.	3.344	NG	0.08
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	774	11:32	59	1.008	A VB	5815.	4.115	NG	0.10
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	826	12:18	59	1.076	A VB	2476.	1.195	NG	0.03
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	913	13:36	92	1.000	A BB	326648.	40.000	NG	0.99
93	240	1186	17:40	93	1.000	A BB	250436.	40.000	NG	0.99
94	264	1428	21:16	94	1.000	A BB	207036.	40.000	NG.	0.99
95	112	376	5:36	1	0.780	A BB	335244.	80.023	NG	1.98
96	99	455	6:47	1	0.944	A BB	431936.	87.912	NG	2.18
97	82	533	7:56	31	0.891	A BV	447016.	89.343	NG	2.21
98	172	701	10:26	59	0.913	A BB	634532.	91.347	NG	2.26
99	330	846	12:36	59	1.102	A BB	140024.	150.784	NG	3.73
100	212	1057	15:45	93	0.891	A VB	745879.	106.298	NG	2.63
101	244	1073	15:59	93	0.905	A VB	668145.	112.633	NG	2.79

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.714	
3	3:51		10.000			50.00		1.539	
4	4:26	1.04	10.000	0.06	2.70	50.00	0.087	1.612	0.09
5	4:27		10.000			50.00		0.349	
6	4:49		20.000			50.00		1.613	
7	4:59		10.000			200.00		0.353	
8	5:23	1.01	10.000	0.08	1.20	50.00	0.025	1.051	0.02
9	5:51		10.000			50.00		0.701	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:14		10.000			50.00		0.726	
11	6:43		10.000			50.00		2.085	
12	6:46	1.01	10.000	0.10	1182.82	50.00	55.204	2.334	23.66
13	6:47		10.000			50.00		0.398	
14	6:50	1.00	20.000	0.05	1695.25	50.00	55.204	1.628	33.90
15	6:55		10.000			50.00		1.507	
16	7:06		10.000			50.00		1.684	
17	7:11	1.02	10.000	0.10	5.63	50.00	0.363	3.222	0.11
18	7:11		10.000			50.00		1.749	
19	7:21	1.00	10.000	0.10	1.41	50.00	0.025	0.879	0.03
20	7:26	1.00	10.000	0.10	2.23	50.00	0.073	1.624	0.04
21	7:30		10.000			50.00		1.240	
22	7:34		10.000			50.00		2.479	
23	7:42	1.00	10.000	0.11	3.25	100.00	0.044	1.359	0.03
24	7:42	1.00	10.000	0.11	3.25	100.00	0.044	1.359	0.03
25	7:43		10.000			50.00		0.771	
26	7:44		10.000			50.00		0.373	
27	7:43	1.00	10.000	0.11	2.18	50.00	0.095	2.167	0.04
28	7:45		10.000			50.00		1.404	
29	7:46	1.00	10.000	0.11	14.66	50.00	0.480	1.637	0.29
30	7:50	1.01	10.000	0.11	3.73	50.00	0.061	0.820	0.07
31	8:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:57	1.00	10.000	0.09	2.35	50.00	0.027	0.572	0.05
33	8:09		10.000			50.00		0.198	
34	8:16		10.000			50.00		1.027	
35	8:25	1.00	10.000	0.09	5.68	50.00	0.057	0.903	0.11
36	8:23		10.000			50.00		0.251	
37	8:24		10.000			50.00		0.409	
38	8:26	1.00	10.000	0.09	2.42	50.00	0.037	0.757	0.05
39	8:32		100.000			50.00		0.224	
40	8:33	1.01	10.000	0.10	4.73	50.00	0.047	0.492	0.09
41	8:42		10.000			50.00		0.332	
42	8:50		10.000			50.00		0.394	
43	8:55	1.00	10.000	0.10	8.18	50.00	0.205	1.254	0.16
44	9:00	1.00	10.000	0.10	2.15	50.00	0.021	0.483	0.04
45	9:01		20.000			50.00		0.359	
46	8:53	1.00	10.000	0.10	49.35	50.00	0.120	0.122	0.99
47	9:11	1.01	10.000	0.10	13.67	50.00	0.039	0.143	0.27
48	9:05		10.000			50.00		0.214	
49	9:10		10.000			50.00		0.224	
50	9:10		10.000			50.00		0.357	
51	9:15		20.000			50.00		0.492	
52	9:30	0.99	10.000	0.11	12.46	50.00	0.047	0.189	0.25
53	9:40		10.000			50.00		0.456	
54	9:40		10.000			50.00		0.039	
55	9:45		10.000			50.00		0.308	
56	9:46	1.00	10.000	0.11	50.43	50.00	0.043	0.043	1.01
57	9:53	1.00	10.000	0.11	1.10	50.00	0.024	1.096	0.02
58	10:02	1.00	10.000	0.11	1.33	50.00	0.015	0.549	0.03
59	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	10:10		10.000			100.00		0.584	
61	10:10		10.000			100.00		0.584	
62	10:13		10.000			50.00		0.258	
63	10:19		20.000			50.00		0.416	
64	10:22		20.000			50.00		0.359	
65	10:30		20.000			50.00		0.472	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:35		10.000			50.00		1.491	
67	10:38		10.000			50.00		0.959	
68	10:36		10.000			50.00		0.604	
69	10:46		10.000			50.00		0.552	
70	10:51		20.000			50.00		0.413	
71	10:56		20.000			50.00		0.247	
72	11:04		10.000			50.00		1.394	
73	11:10		10.000			50.00		0.339	
74	11:12	0.99	10.000	0.10	3.34	50.00	0.119	1.784	0.07
75	11:22		20.000			50.00		0.374	
76	11:28		10.000			50.00		1.217	
77	11:31		40.000			50.00		0.164	
78	11:34	1.00	10.000	0.10	4.12	50.00	0.021	0.259	0.08
79	11:44		10.000			50.00		0.495	
80	11:41		10.000			50.00		1.604	
81	11:44		10.000			50.00		0.509	
82	11:49		20.000			50.00		0.800	
83	11:55		20.000			50.00		0.927	
84	11:56		20.000			50.00		0.286	
85	12:05		10.000			50.00		1.510	
86	12:13		10.000			50.00		0.423	
87	12:11		10.000			50.00		0.569	
88	12:12		10.000			50.00		1.367	
89	12:15	1.00	20.000	0.05	1.20	50.00	0.009	0.380	0.02
90	12:15		20.000			50.00		0.409	
91	12:25		10.000			50.00		2.396	
92	13:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	17:39	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	21:12	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:33	1.01	0.742	1.05	80.02	50.00	2.220	1.387	1.60
96	6:42	1.01	0.948	1.00	87.91	50.00	2.861	1.627	1.76
97	7:55	1.00	0.875	1.02	89.34	50.00	0.977	0.547	1.79
98	10:26	1.00	0.906	1.01	91.35	50.00	2.326	1.273	1.83
99	12:34	1.00	1.118	0.99	150.78	50.00	0.913	0.170	3.02
100	15:44	1.00	10.000	0.09	106.30	50.00	2.383	1.121	2.13
101	15:57	1.00	0.907	1.00	112.63	50.00	2.134	0.947	2.25

QUANTITATION REPORT FILE: GR037847C07
DATA: GR037847C07.TI
05/21/90 12:16:00
SAMPLE: IUL CC#337847 ID#73800112 CB#20124 ON 7
CONDS.: EXTRACTED 5/18/90 UNDILUTED
SUBMITTED BY: 7 ANALYST: 917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

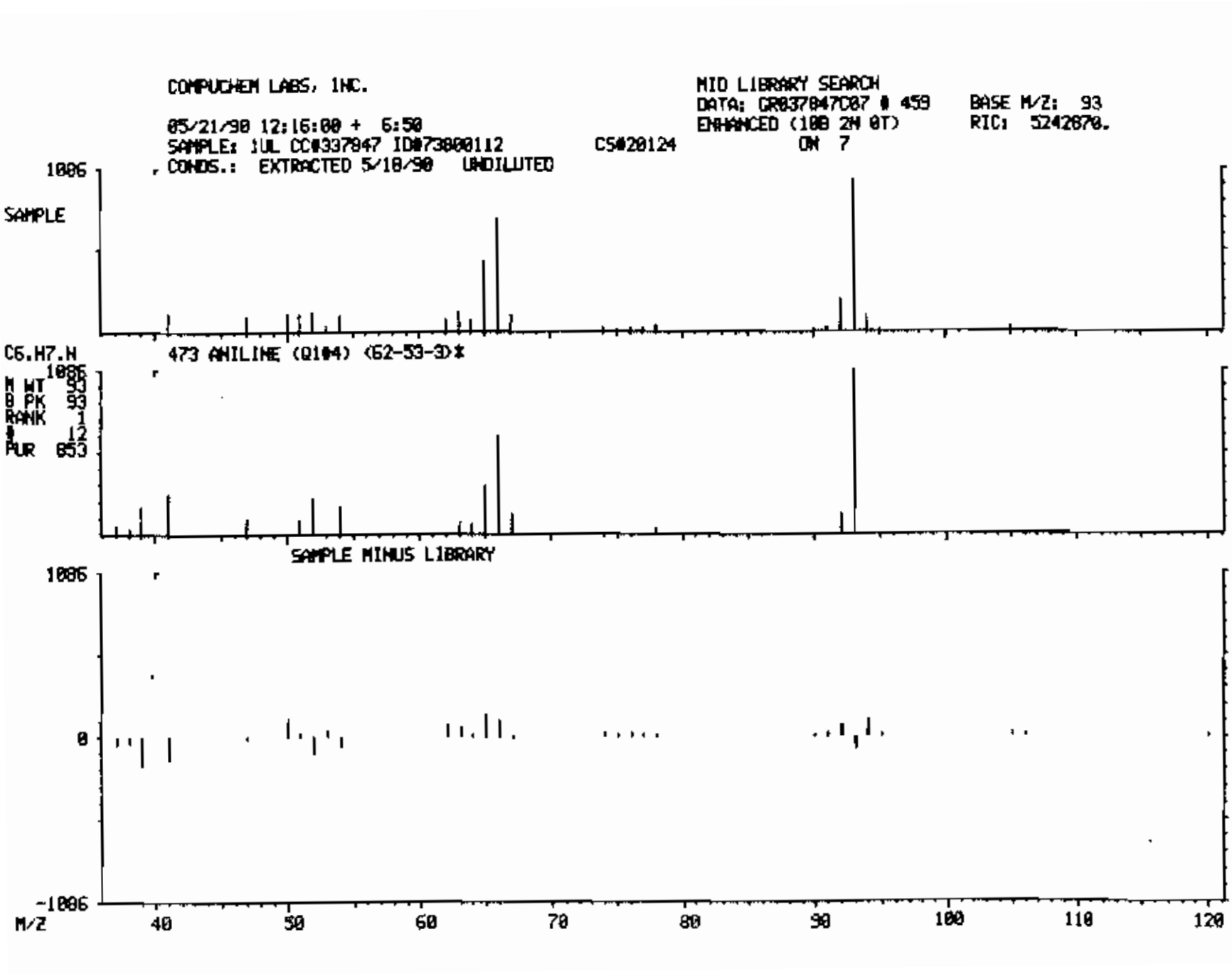
NO	NAME
1	*467 D10-PHENANTHRENE (IS#4)
2	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
4	567 DIPHENYLAMINE (F3#3)
5	508 1,3,5-TRINITROBENZENE (Z9#41)
6	539 PHENACETIN (Z9#42) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9#44)
10	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9#45)
12	522 PRONAMIDE (Z9#46)
13	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9#47)
15	444 PHENANTHRENE (G4#7) <85-01-8>
16	403 ANTHRACENE (G4#8) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
18	516 METHAPYRILENE (Z9#48)
19	549 CYCLOPHOSPHAMIDE (Z9#49)
20	431 FLUORANTHENE (G4#10) <206-44-0>
21	*459 D12-CHRYSENE (IS#5)
22	404 BENZIDINE (G5#2) <92-87-5>
23	445 PYRENE (G5#3) <129-00-0>
24	530 ARAMITE (Z9#50) <140-57-4>
25	487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
26	523 CHLOROBENZILATE (Z9#52)
27	545 3,3'-DIMETHYLBENZIDINE (Z9#53)
28	419 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
29	488 2-ACETYLAMINO FLUORENE (F5#2)
30	489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
31	423 3,3'-DICHLOROBENZIDINE (B3#3) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9#57)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
35	418 CHRYSENE (G5#8) <218-01-9>
36	*497 D12-PERYLENE (IS#6)
37	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
40	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
41	406 BENZO(A)PYRENE (G6#5) <50-32-8>
42	565 3-METHYLCHLORANTHRENE (F6#2)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>

NO	NAME
47	576 DIALLATE (C18 ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	188	913	13:36	1	1.000	A BB	326648.	40.000	NG	32.81
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1186	17:40	21	1.000	A BB	250436.	40.000	NG	32.81
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	1073	15:59	21	0.909	A BB	1536.	1.922	NG	1.58
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	228	NOT FOUND								
36	264	1428	21:16	36	1.000	A BB	207036.	40.000	NG.	32.81
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	13:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	12:19		30.000			30.00		0.143	
3	12:22		10.000			100.00		0.751	
4	12:22		10.000			100.00		0.751	

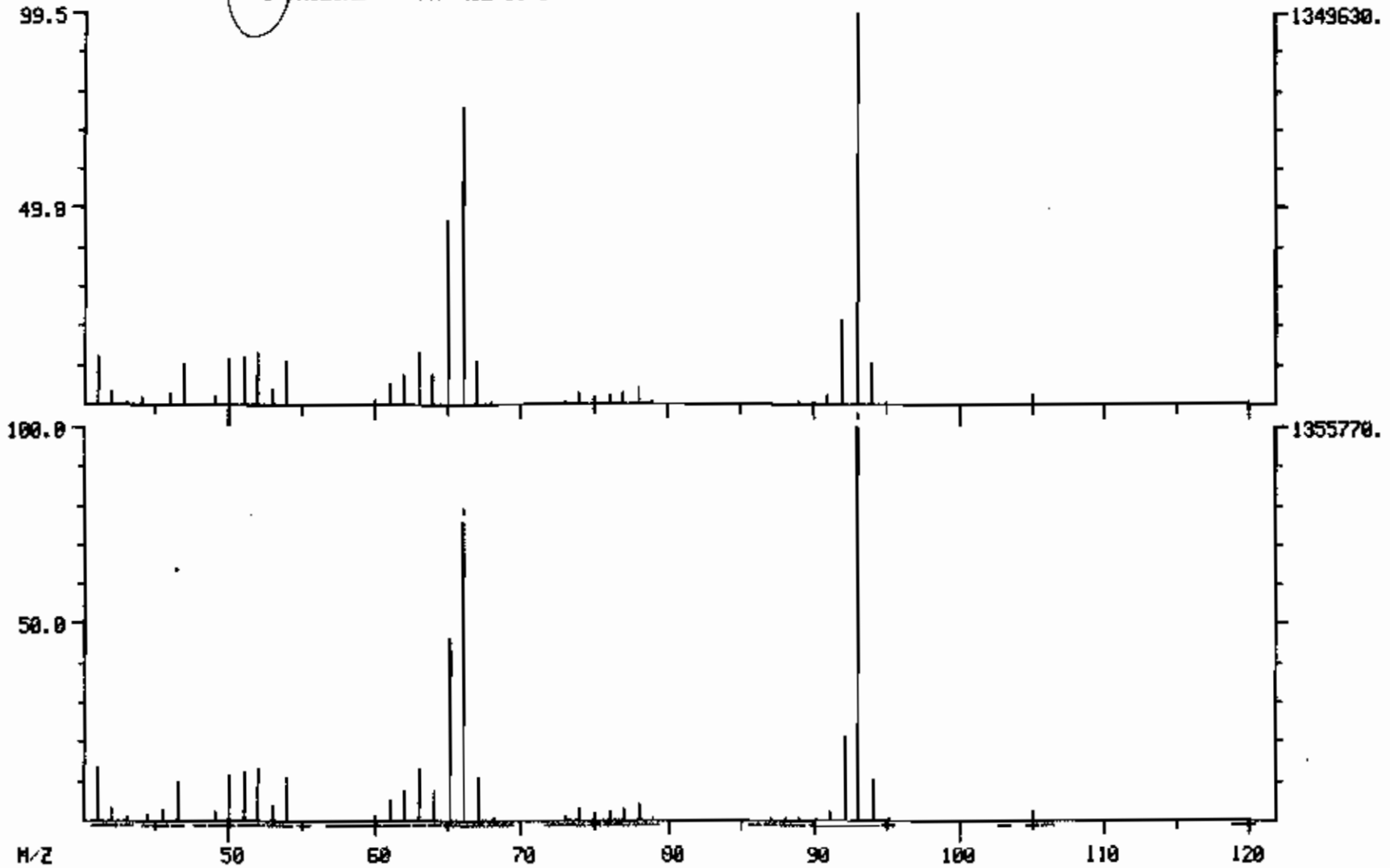
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
5	12:48		20.000			50.00		0.102	
6	12:50		10.000			50.00		0.547	
7	12:54		10.000			50.00		0.229	
8	12:50		10.000			25.00		0.131	
9	13:07		10.000			50.00		0.174	
10	13:08		10.000			50.00		0.291	
11	13:17		10.000			50.00		0.735	
12	13:24		10.000			50.00		0.378	
13	13:22		20.000			50.00		0.191	
14	13:30		10.000			50.00		0.083	
15	13:38		10.000			50.00		1.283	
16	13:41		10.000			50.00		1.124	
17	14:28		10.000			50.00		1.587	
18	14:56		20.000			50.00		0.452	
19	15:14		50.000			200.00		0.059	
20	15:25		10.000			50.00		1.104	
21	17:39	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	15:39		10.000			50.00		0.190	
23	15:45		10.000			50.00		1.349	
24	15:55	1.00	20.000	0.05	1.92	50.00	0.005	0.128	0.04
25	16:11		10.000			50.00		0.239	
26	16:15		10.000			50.00		0.699	
27	16:41		20.000			50.00		0.495	
28	16:43		10.000			50.00		0.804	
29	17:05		10.000			50.00		0.532	
30	17:32		10.000			50.00		0.203	
31	17:33		10.000			50.00		0.301	
32	17:31		10.000			50.00		0.163	
33	17:38		10.000			50.00		1.259	
34	17:37		10.000			50.00		1.164	
35	17:42		10.000			50.00		0.993	
36	21:12	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	18:55		10.000			50.00		2.290	
38	20:04		10.000			50.00		1.478	
39	20:05		10.000			50.00		0.529	
40	20:07		10.000			50.00		0.501	
41	21:03		10.000			50.00		1.165	
42	22:20		10.000			50.00		0.646	
43	24:40		10.000			50.00		0.898	
44	25:33		10.000			50.00		1.296	
45	25:38		10.000			50.00		1.099	
46	26:30		10.000			50.00		1.024	
47	12:57		10.000			25.00		0.168	

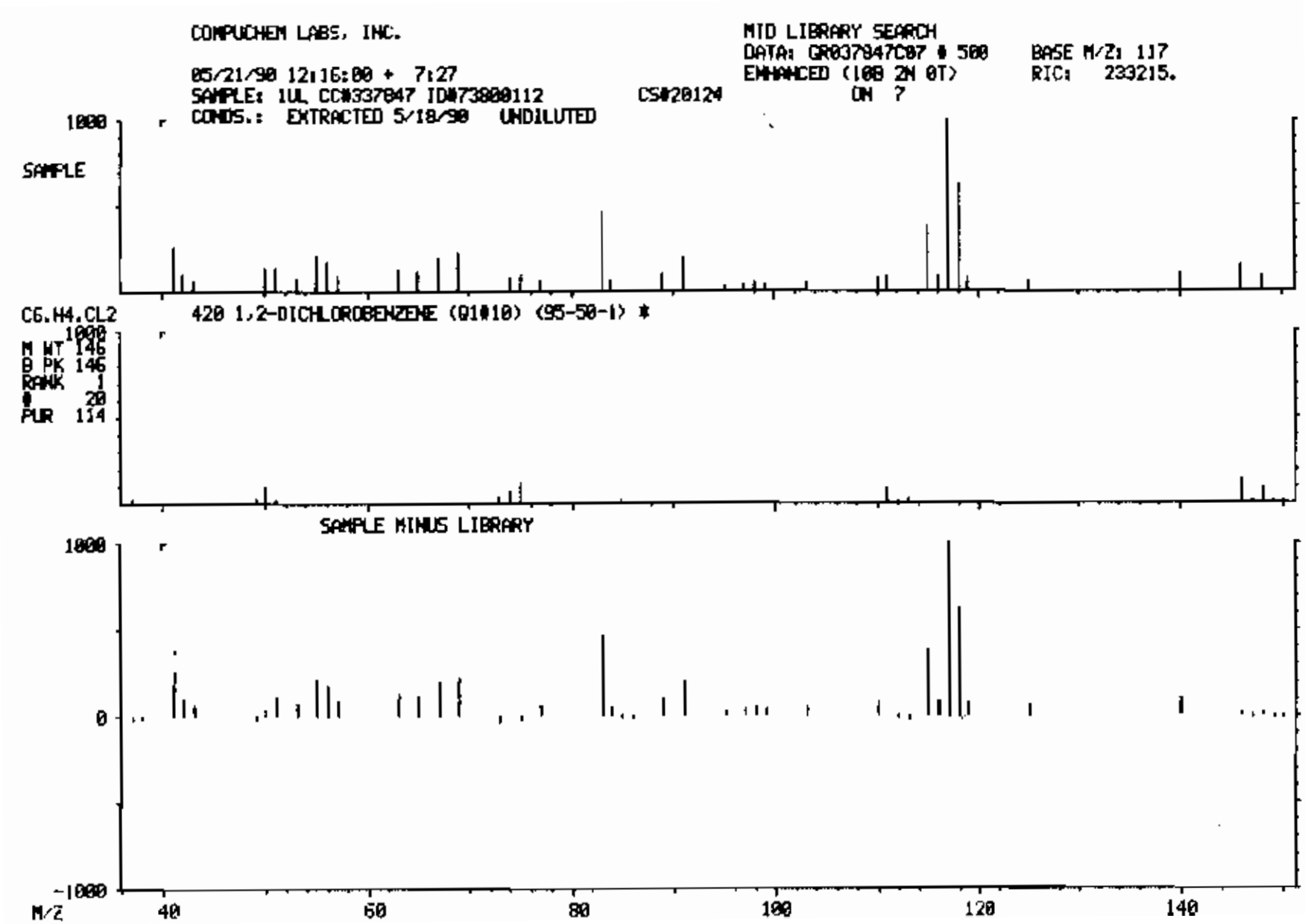

COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 6:50
SAMPLE: 1UL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/10/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037847C07 # 459
ENHANCED (100 2N 0T)
BASE M/Z: 93
RIC: 5242870.
CS#20124
ON 7
1006
SAMPLE
C6.H7.N
473 ANILINE (Q104) (62-53-3)*
M WT 93
B PK 93
RANK 1
12
PUR 853
SAMPLE MINUS LIBRARY
0
-1006
M/Z
40
50
60
70
80
90
100
110
120

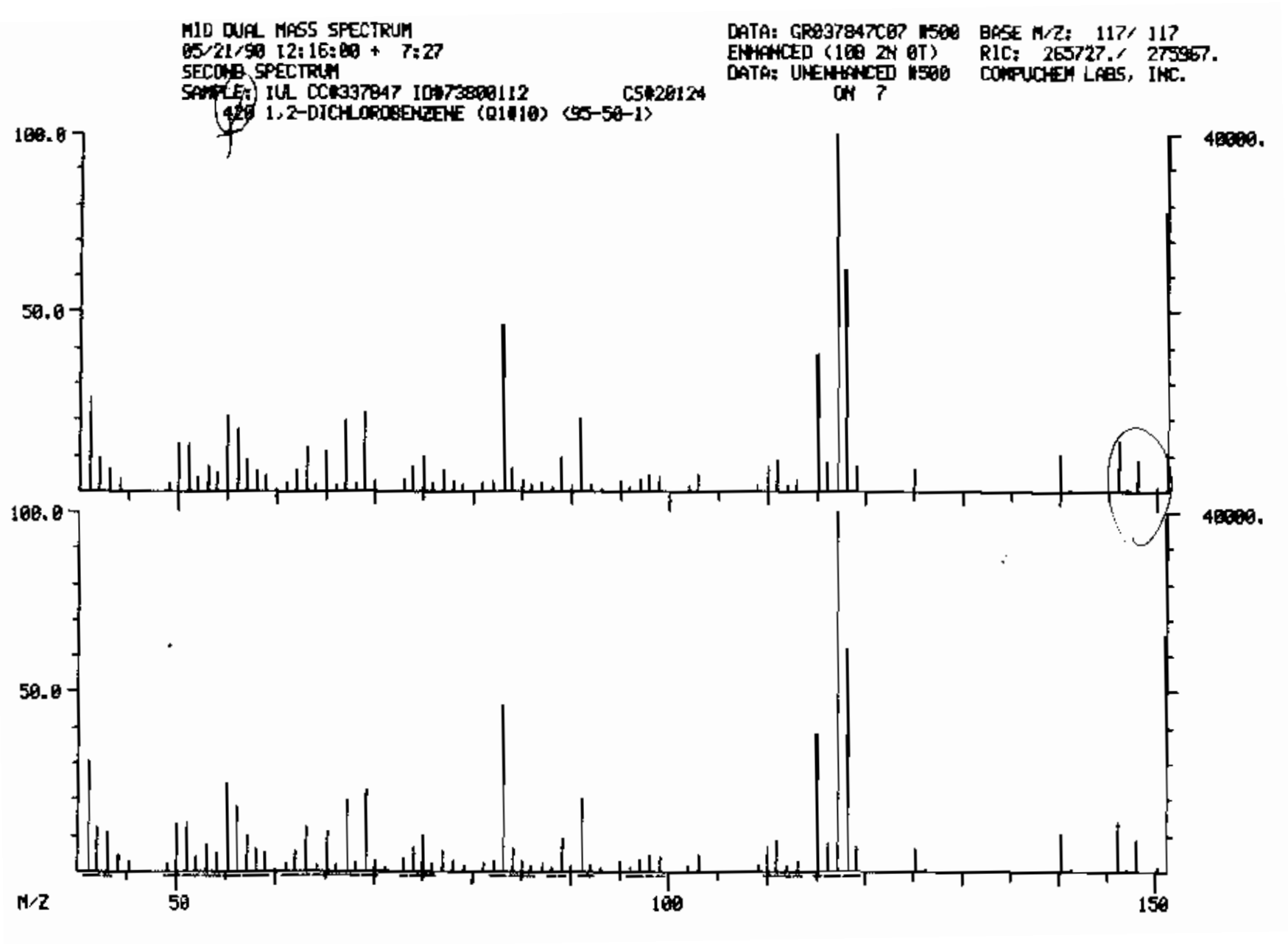
MID DUAL MASS SPECTRUM
05/21/90 12:16:00 + 6:50
SECOND SPECTRUM
SAMPLE: 1UL CC#337847 ID#73000112
473 ANILINE (0104) (62-53-3)

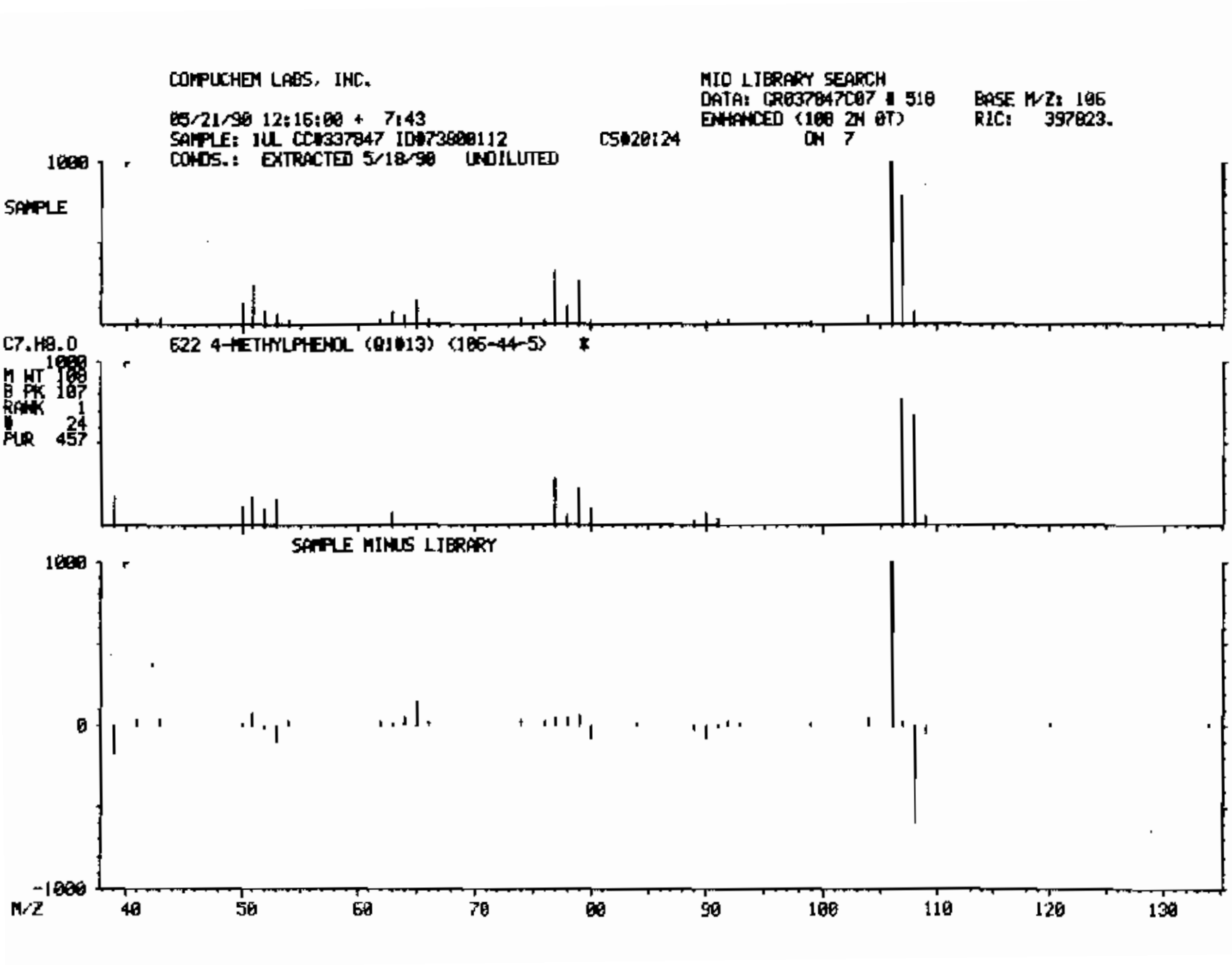
CS#20124

DATA: GR037847C07 #459 BASE M/Z: 93/ 93
ENHANCED (100 2H 0T) RIC: 5513210./ 5595130.
DATA: UNENHANCED #459 COMPUCHEM LABS, INC.
CH 7



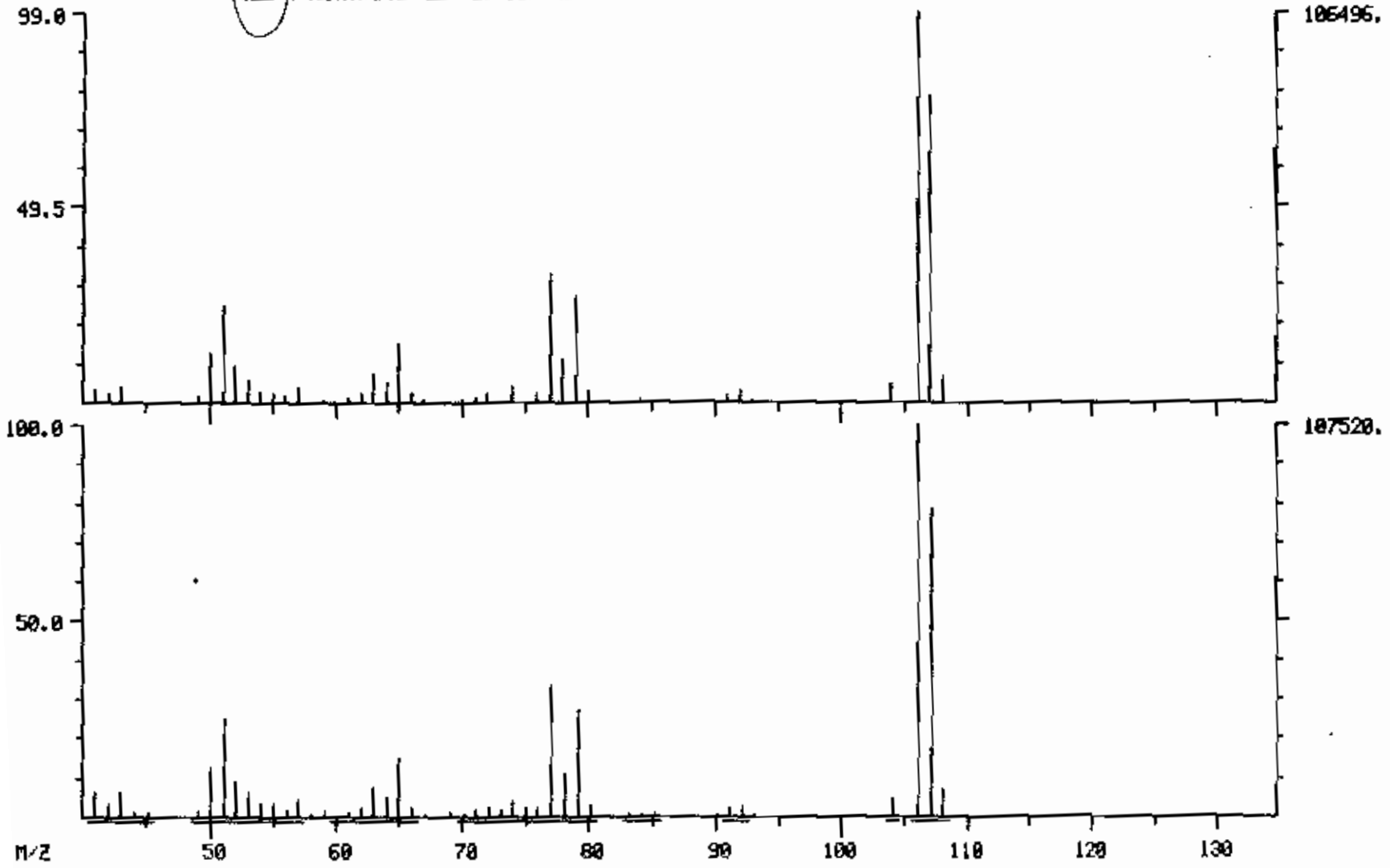

COMPUCHEM LABS, INC.
MID LIBRARY SEARCH
DATA: GR037847C07 # 500
BASE M/Z: 117
ENHANCED (100 2N 0T)
RIC: 233215.
05/21/90 12:16:00 + 7:27
SAMPLE: 1UL CC#337847 ID#73800112
CS#20124
ON 7
CONDS.: EXTRACTED 5/18/90 UNDILUTED
1000
SAMPLE
C6.H4.CL2
420 1,2-DICHLOROBENZENE (Q1#10) (95-50-1) #
1000
M WT 146
B PK 146
RANK 1
20
PUR 114
SAMPLE MINUS LIBRARY
1000
0
-1000
M/Z
40
60
80
100
120
140


MID DUAL MASS SPECTRUM
05/21/90 12:16:00 + 7:27
SECOND SPECTRUM
SAMPLE: IUL CC#337847 ID#73800112 CS#20124
420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
DATA: GR037847C07 #500 BASE M/Z: 117/ 117
ENHANCED (100 2N 0T) RIC: 265727./ 275967.
DATA: UNENHANCED #500 COMPUCHEM LABS, INC.
ON 7
100.0
50.0
40000.
100.0
50.0
40000.
M/Z
50
100
150

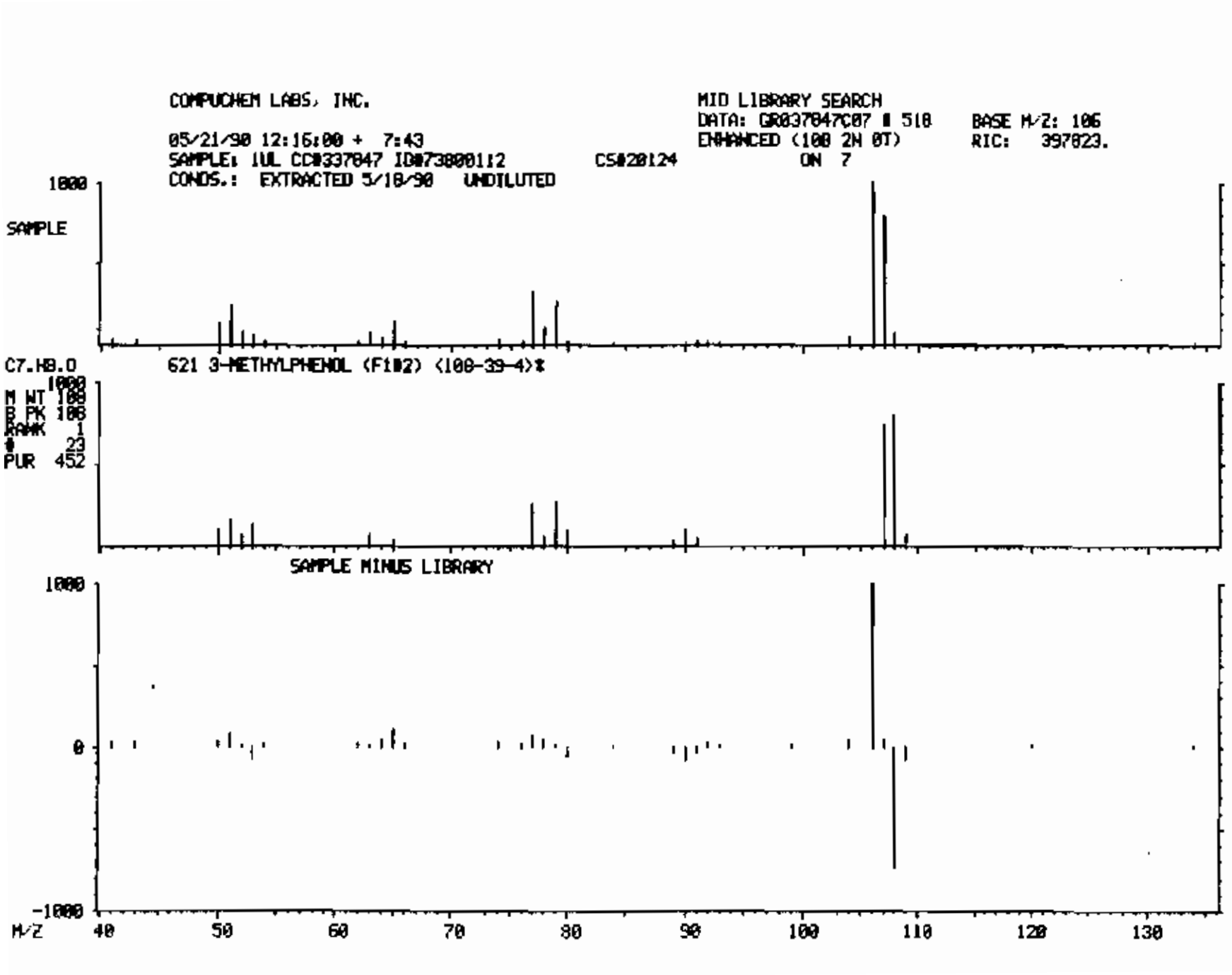

COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 7:43
SAMPLE: 1UL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
C5#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 518
ENHANCED (100 2N 0T)
ON 7
BASE M/Z: 106
RIC: 397823.
1000
SAMPLE
C7.H8.O
622 4-METHYLPHENOL (@1@13) (106-44-5)
M WT 108
B PK 107
RANK 1
24
PUR 457
SAMPLE MINUS LIBRARY
0
-1000
M/Z
40
50
60
70
80
90
100
110
120
130

MID DUAL MASS SPECTRUM
05/21/90 12:16:00 + 7:43
SECOND SPECTRUM
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
622 4-METHYLPHENOL (Q1#13) (106-44-5)

DATA: GR037847C07 #518 BASE M/Z: 106/ 106
ENHANCED (10B 2N 0T) RIC: 417279./ 445951.
DATA: UNENHANCED #518 COMPUCHEM LABS, INC.
ON 7

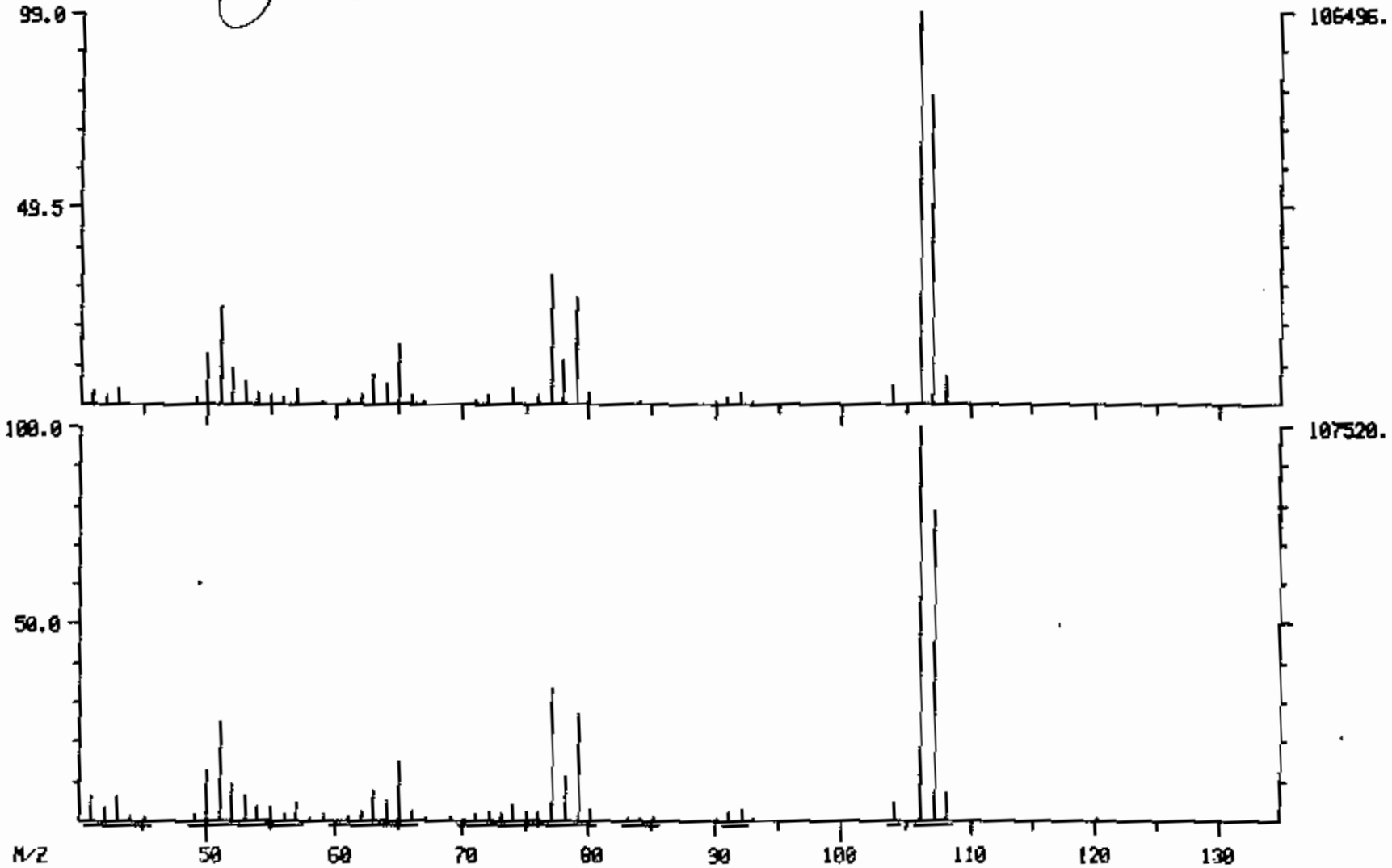


HYDEC RA090 0507 ORGANIC

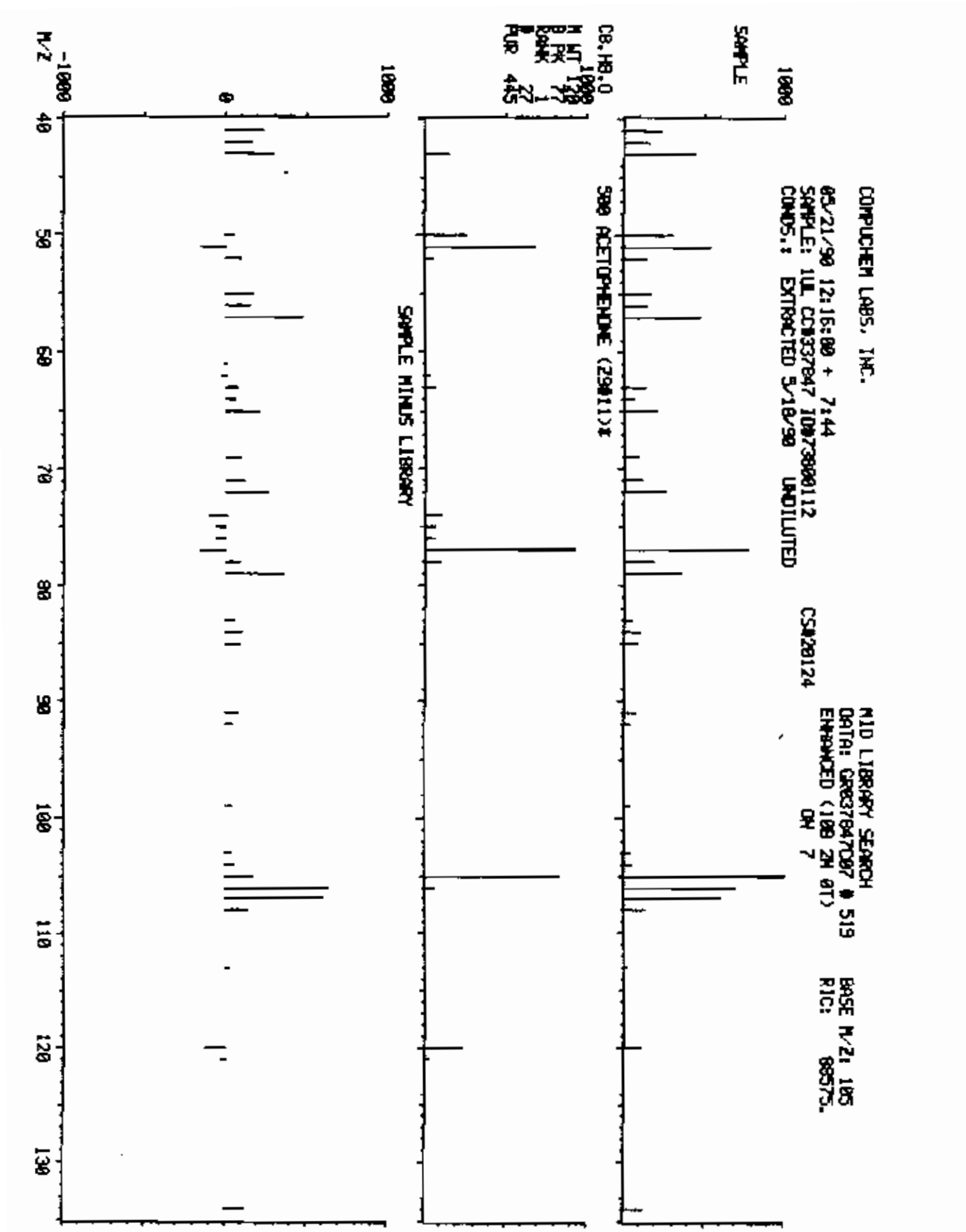

COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 7:43
SAMPLE: 1UL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 518
ENHANCED (100 2N 0T)
ON 7
BASE M/Z: 106
RIC: 397023.
1000
SAMPLE
C7.HB.0
621 3-METHYLPHENOL (F1#2) (100-39-4)%
M WT 108
B PK 108
RANK 1
23
PUR 452
SAMPLE MINUS LIBRARY
1000
0
-1000
M/Z
40
50
60
70
80
90
100
110
120
130

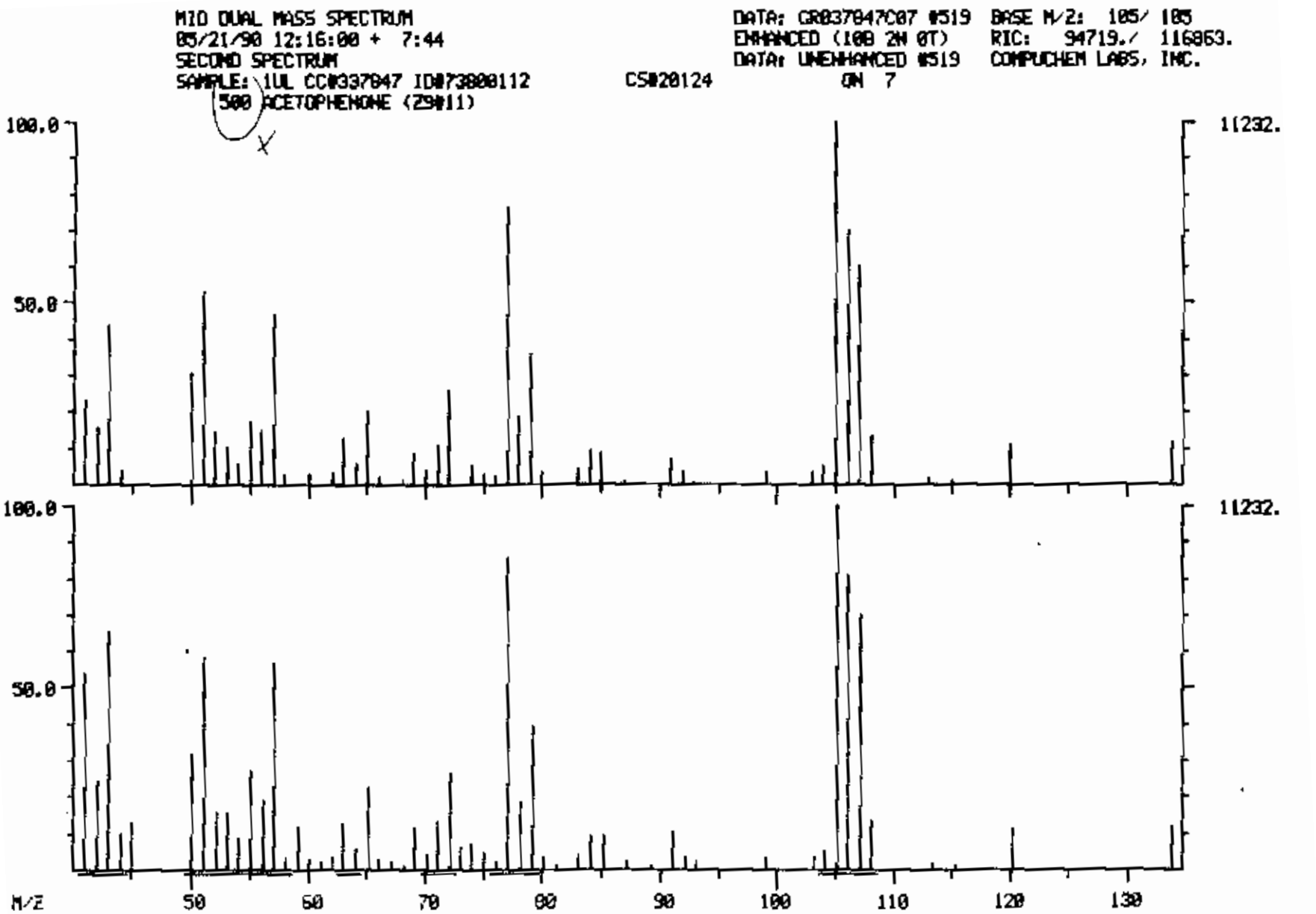
MID DUAL MASS SPECTRUM
05/21/90 12:16:00 + 7:43
SECOND SPECTRUM
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
621 3-METHYLPHENOL (F102) (108-39-4)

DATA: GR037847C07 #510 BASE M/Z: 105/ 106
ENHANCED (100 2N 0T) RIC: 417279./ 445951.
DATA: UNENHANCED #518 COMPUCHEM LABS, INC.
ON 7



NYDEC RA090 0507 ORGANIC

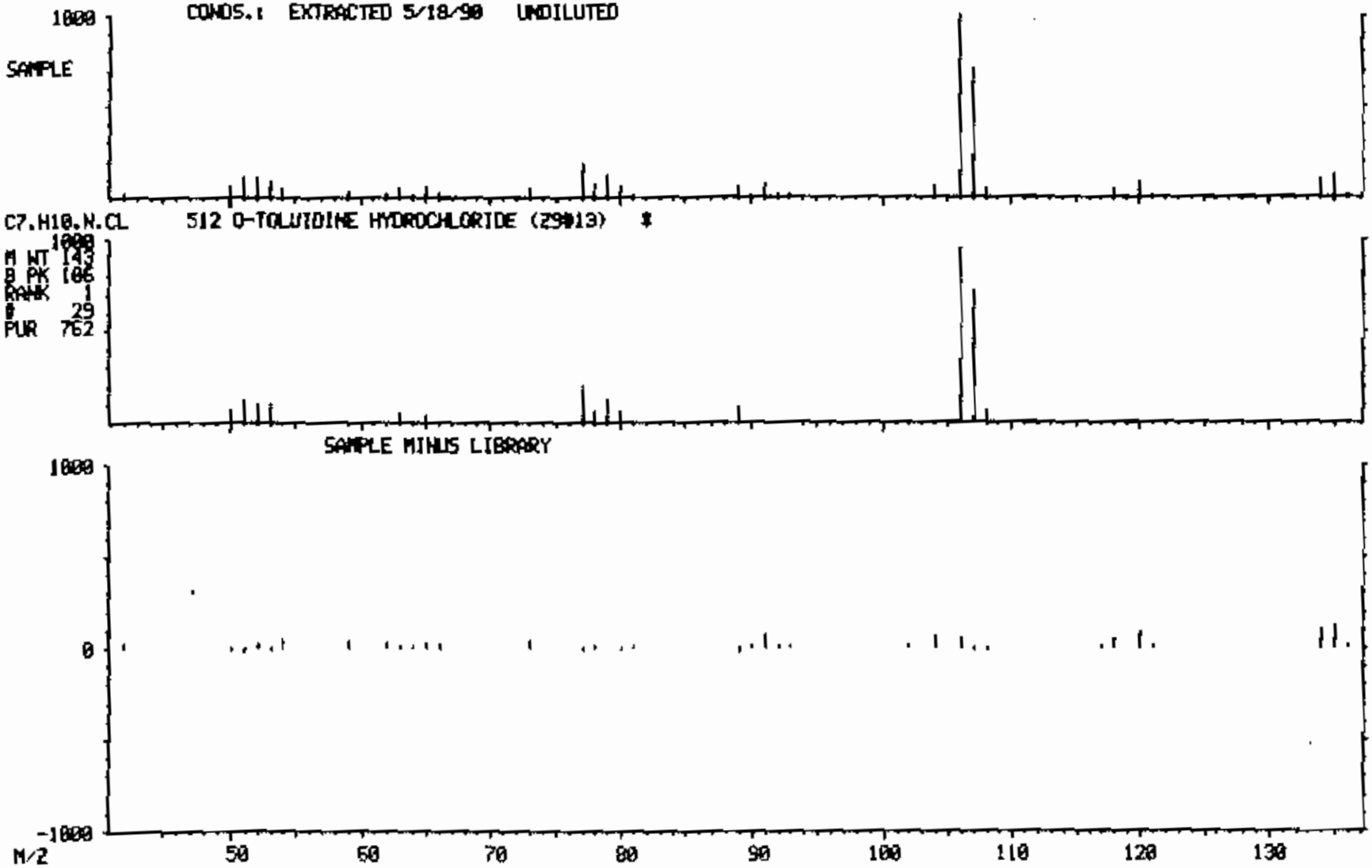

COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 7:44
SAMPLE: 1UL CC033784? 10073000112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
CS#20124
NIO LIBRARY SEARCH
DATA: GR033784?07 # 519
ENHANCED (100 2M 0T)
BASE M/Z: 105
RIC: 98575.
SAMPLE
SAMPLE MINUS LIBRARY
98% ACETOPHENONE (2001)*
M/Z
-1000
0
1000
40
50
60
70
80
90
100
110
120
130


MID DUAL MASS SPECTRUM
05/21/90 12:16:00 + 7:44
SECOND SPECTRUM
SAMPLE: 1UL CC#337047 ID#73000112
500 ACETOPHENONE (Z9#11)
CS#20124
DATA: GR037047C07 #519 BASE M/Z: 105/ 105
ENHANCED (10B 2N 0T) RIC: 94719./ 116863.
DATA: UNENHANCED #519 COMPUCHEM LABS, INC.
ON 7
100.0
50.0
11232.
100.0
50.0
11232.
M/Z
50
60
70
80
90
100
110
120
130

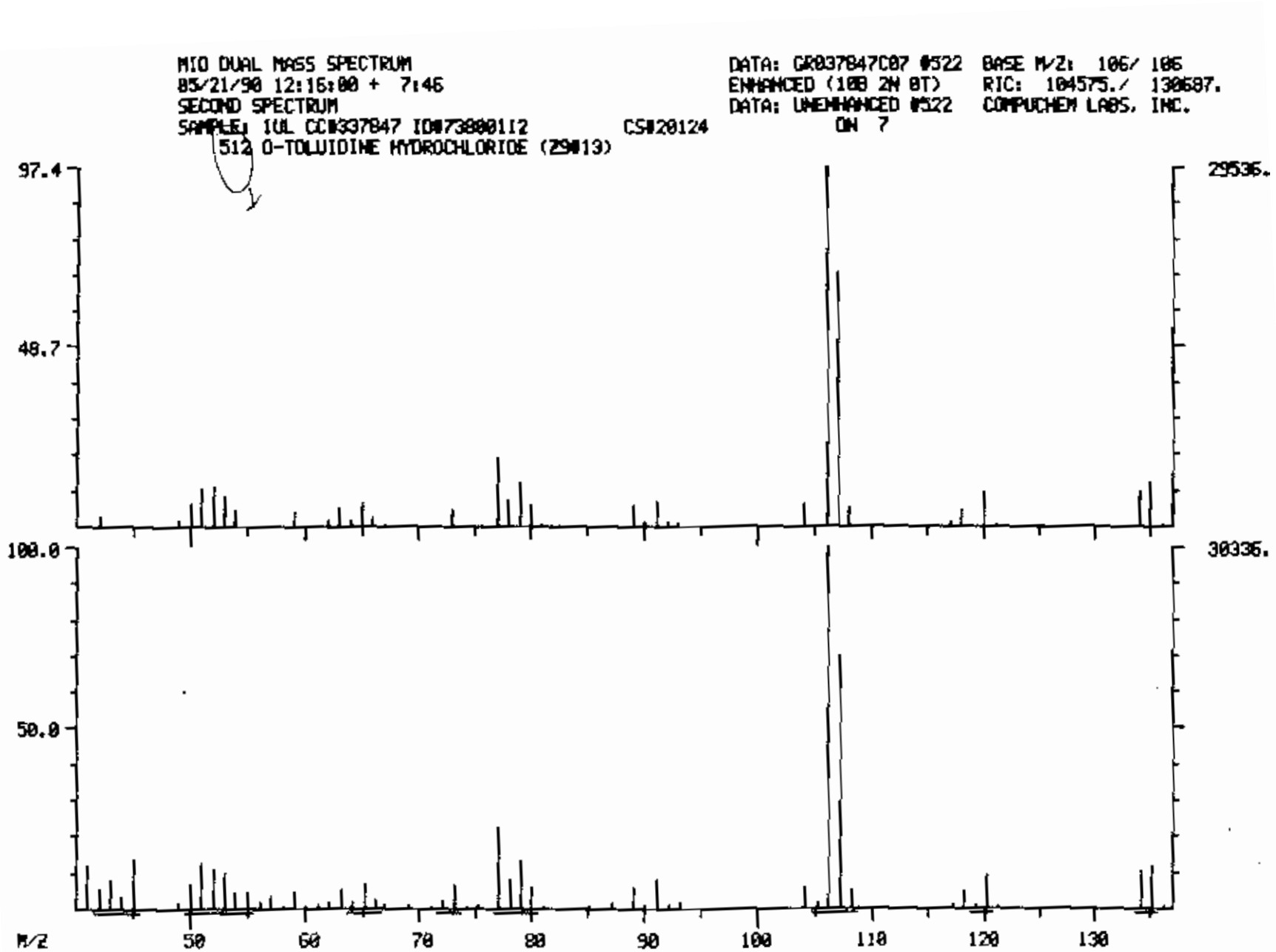
COMPUCHEM LABS, INC.

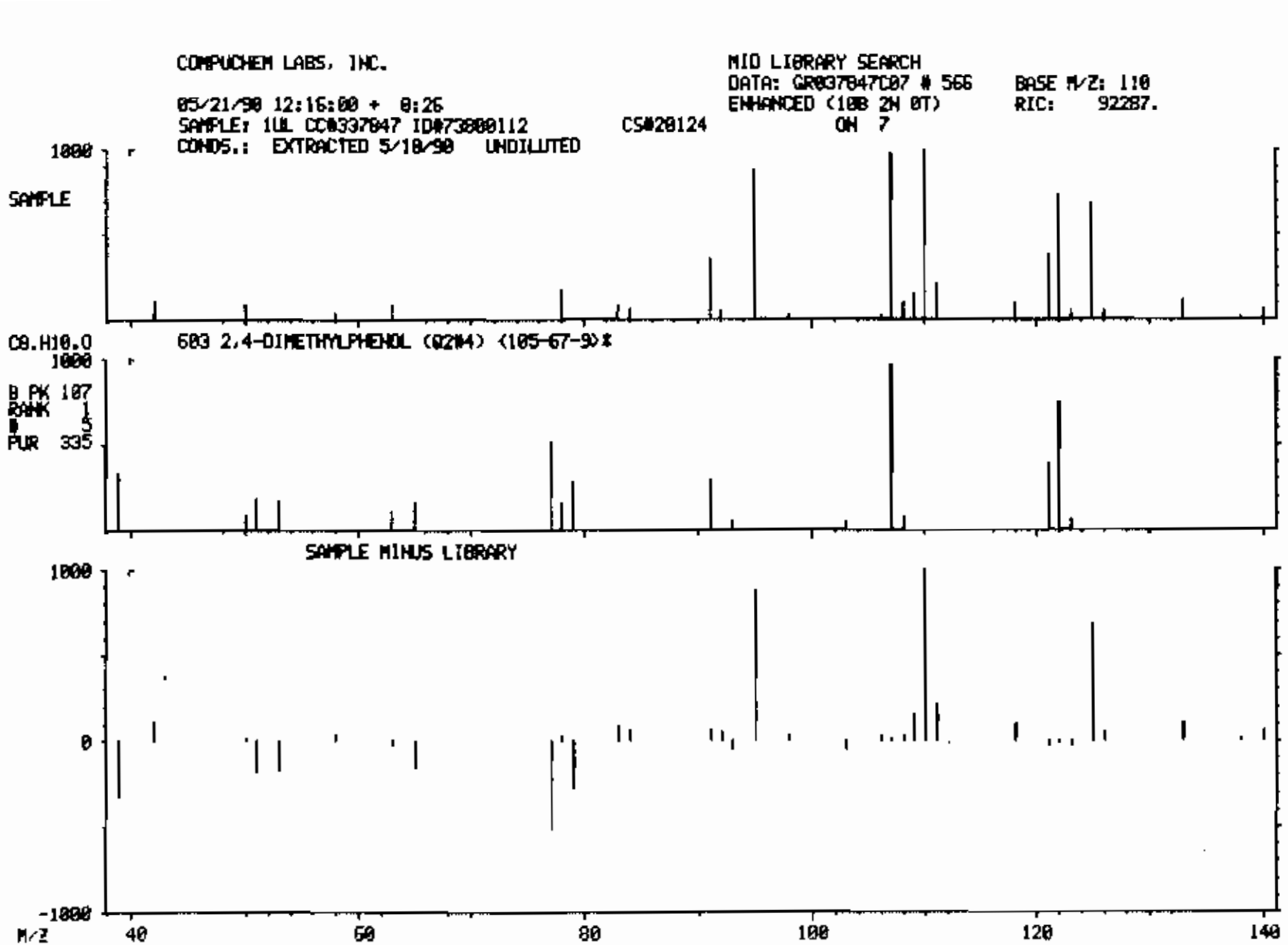
05/21/90 12:16:00 + 7:46
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

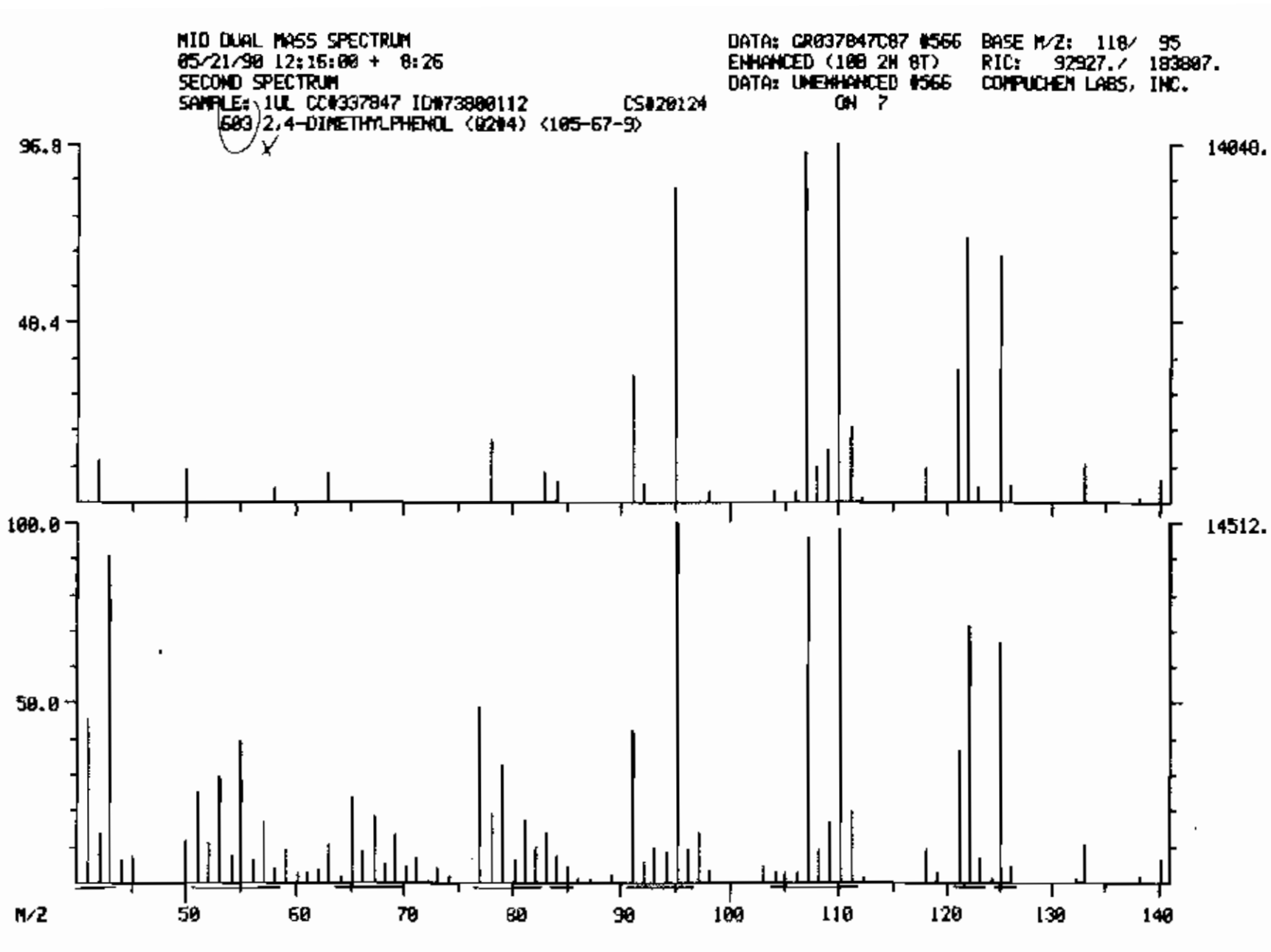
MID LIBRARY SEARCH
DATA: GR037847C07 # 522 BASE M/Z: 106
ENHANCED (10B 2N 0T) RIC: 103807.
ON 7



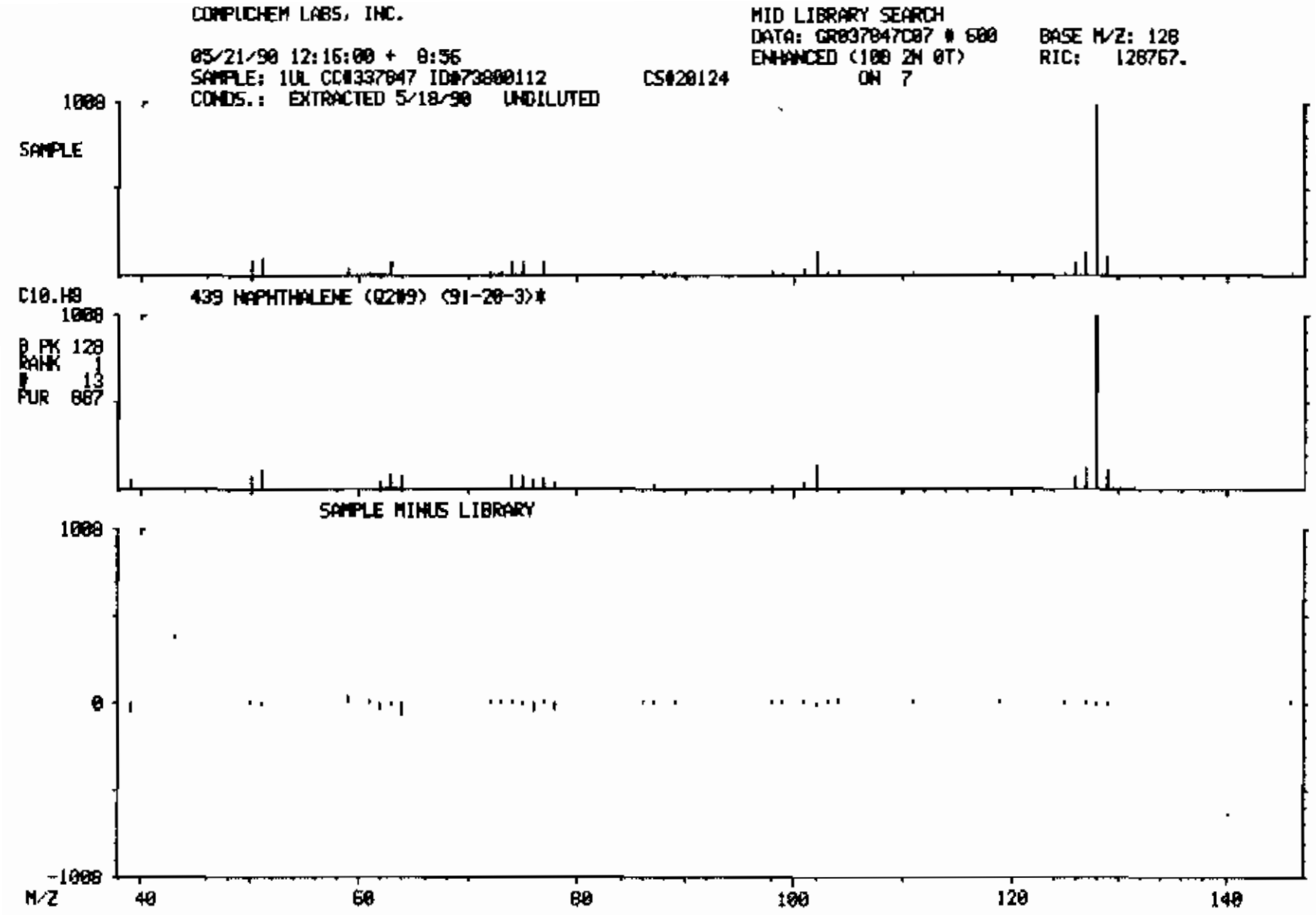
NYDEC RA090 0507 ORGANIC


MIO DUAL MASS SPECTRUM
85/21/90 12:16:00 + 7:46
SECOND SPECTRUM
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
512 O-TOLUIDINE HYDROCHLORIDE (Z5#13)
DATA: GR037847C07 #522 BASE M/Z: 106/ 106
ENHANCED (10B 2N 8T) RIC: 104575./ 130687.
DATA: UNENHANCED #522 COMPUCHEM LABS, INC.
ON 7
97.4
48.7
29536.
100.0
50.0
30336.
M/Z
50
60
70
80
90
100
110
120
130





NYDEC RA090 0507 ORGANIC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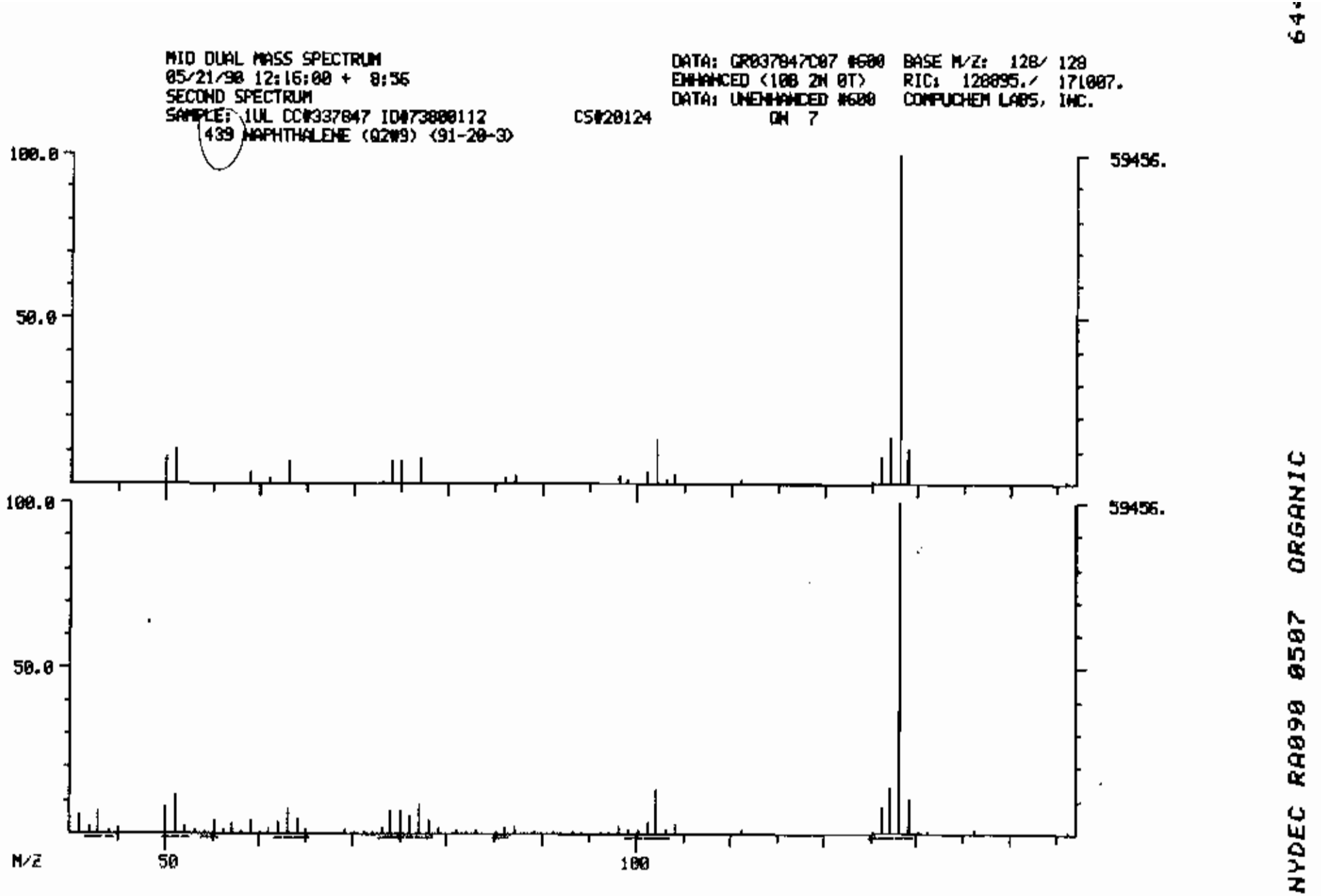
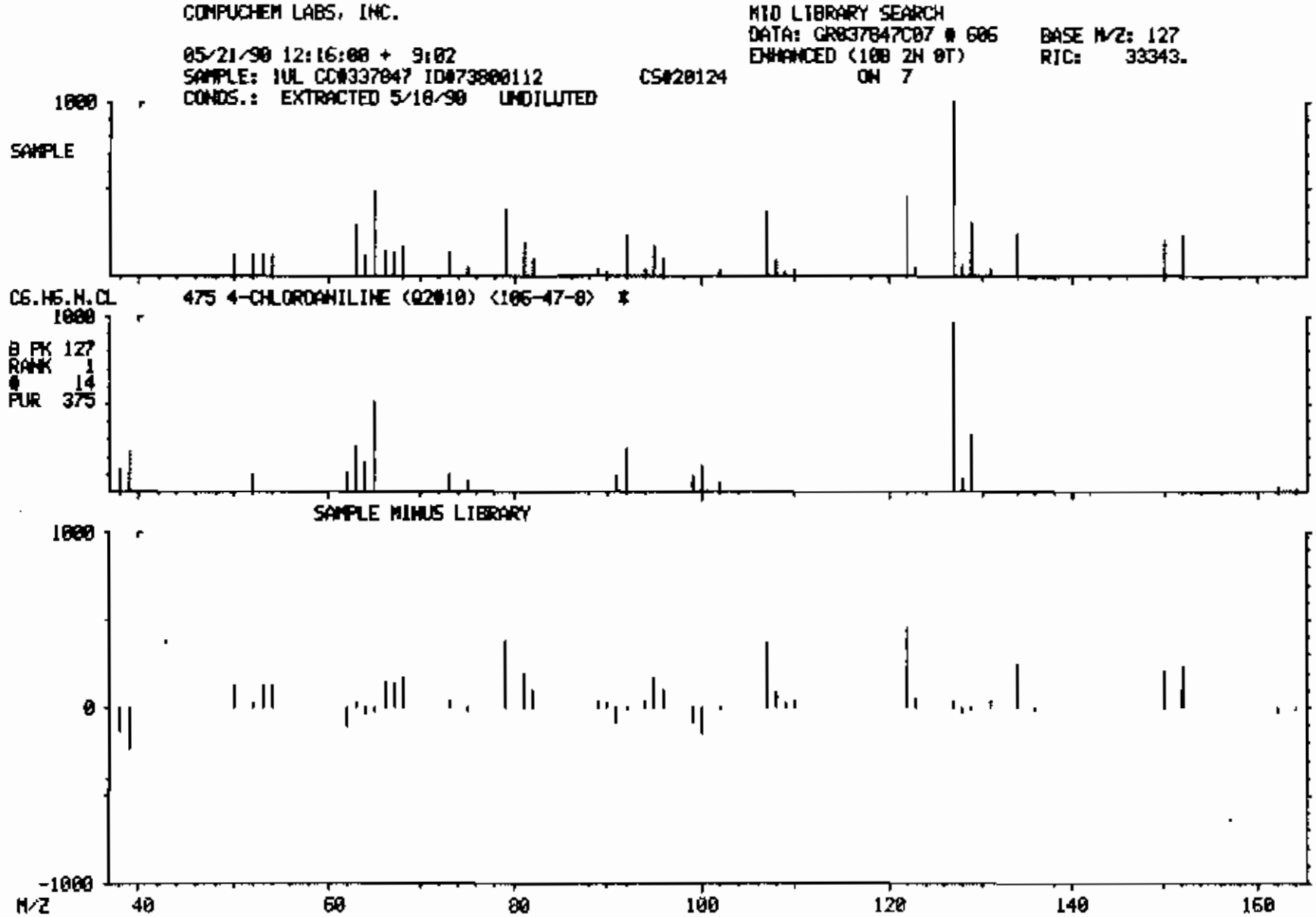
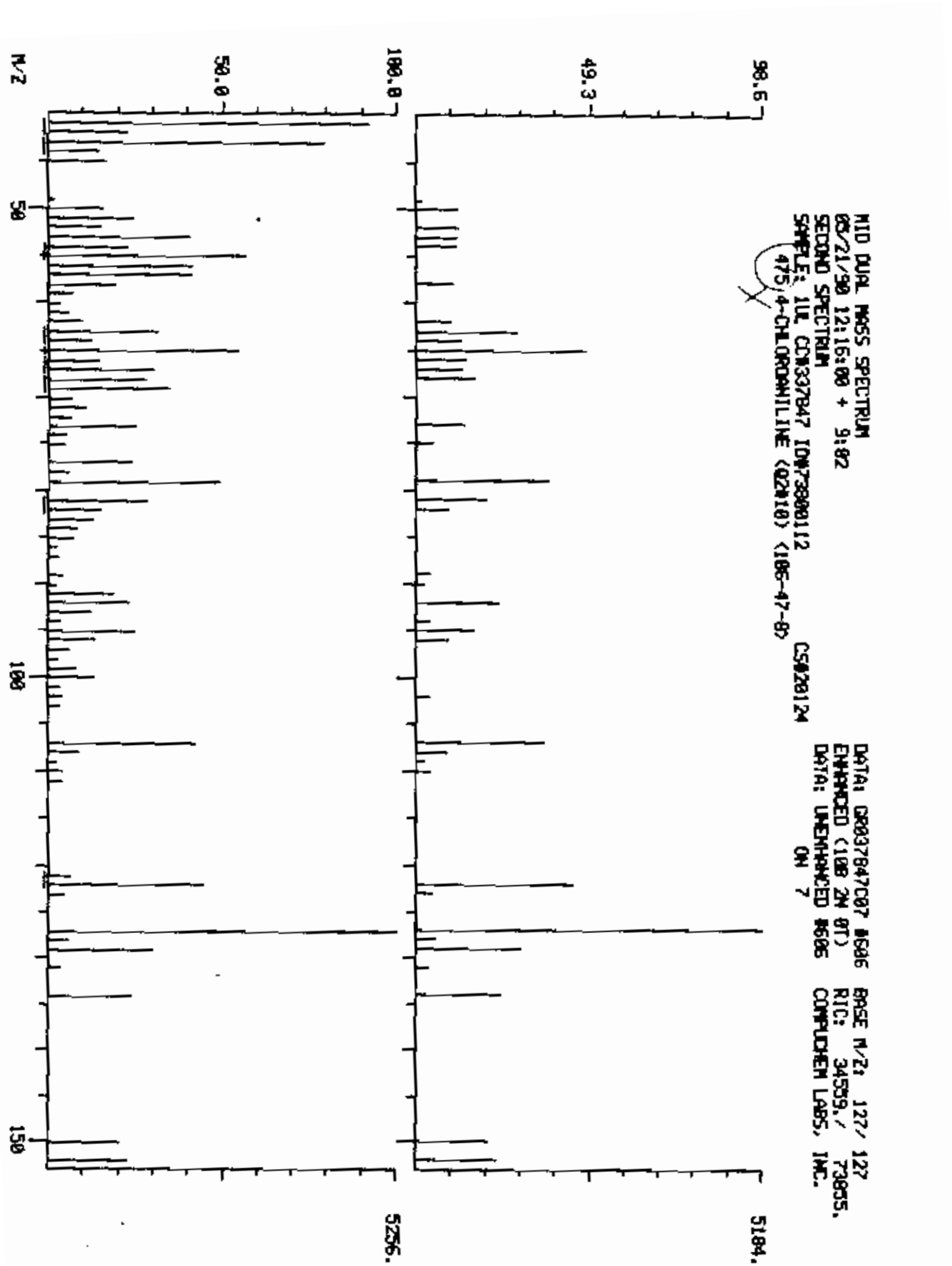
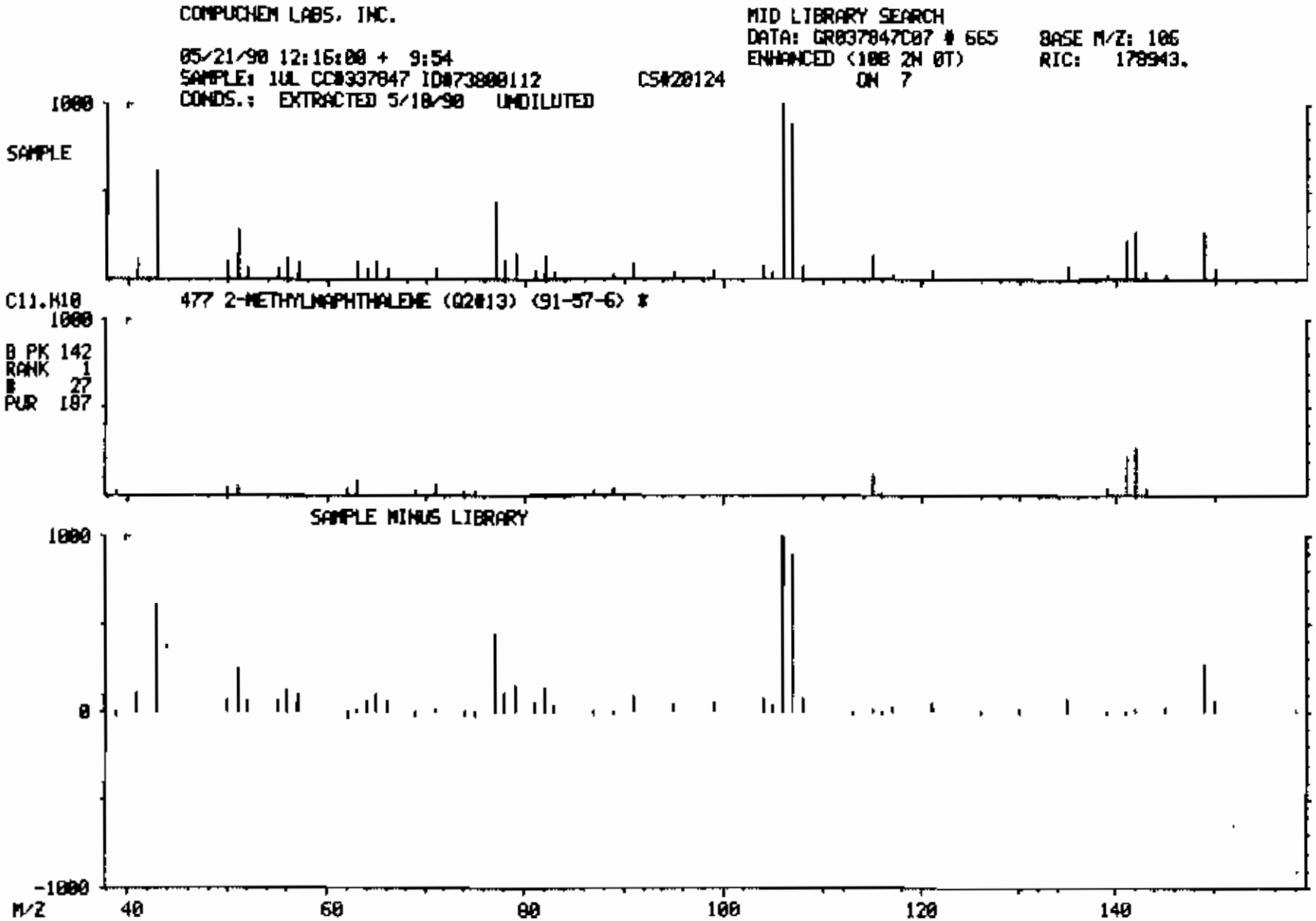
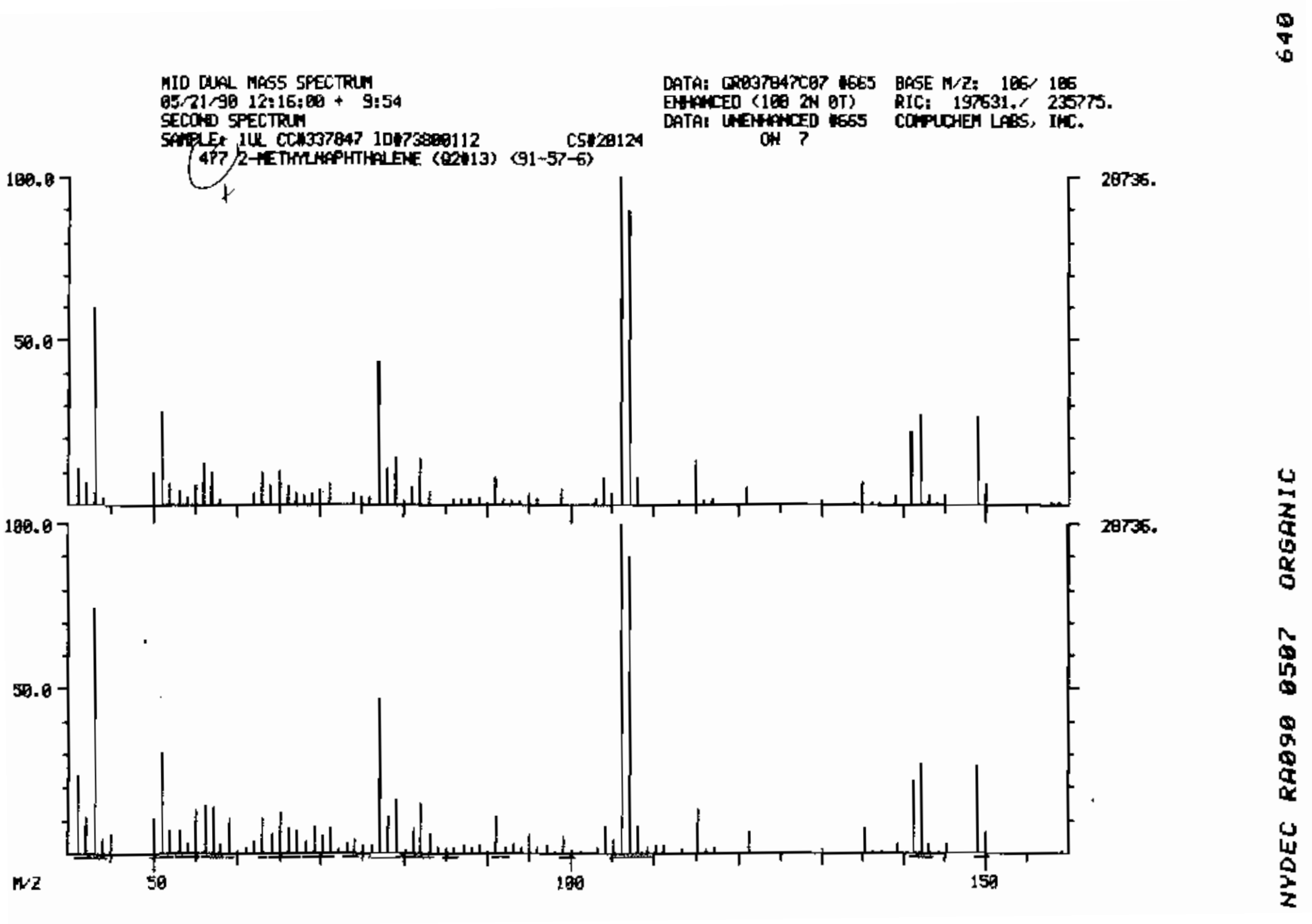
05/21/90 12:16:00 + 0:56
SAMPLE: 1UL CC#337047 ID#73000112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037047C07 # 600
ENHANCED (100 2N 0T)
ON 7
BASE M/Z: 128
RIC: 126767.
1000
SAMPLE
C10.H8
439 NAPHTHALENE (Q2#9) (91-20-3)#
1000
B PK 128
RANK 1
13
PUR 887
SAMPLE MINUS LIBRARY
1000
0
-1000
M/Z
40
60
80
100
120
140




COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 9:02
SAMPLE: 1UL CC#337847 ID#73800112
CONDS.: EXTRACTED 5/10/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 606
ENHANCED (10B 2N 0T)
ON 7
BASE M/Z: 127
RIC: 33343.
1000
SAMPLE
C6.H6.N.CL
475 4-CHLOROANILINE (Q2#10) (106-47-8) #
B.PK 127
RANK 1
14
PUR 375
SAMPLE MINUS LIBRARY
0
-1000
M/Z
40
60
80
100
120
140
160

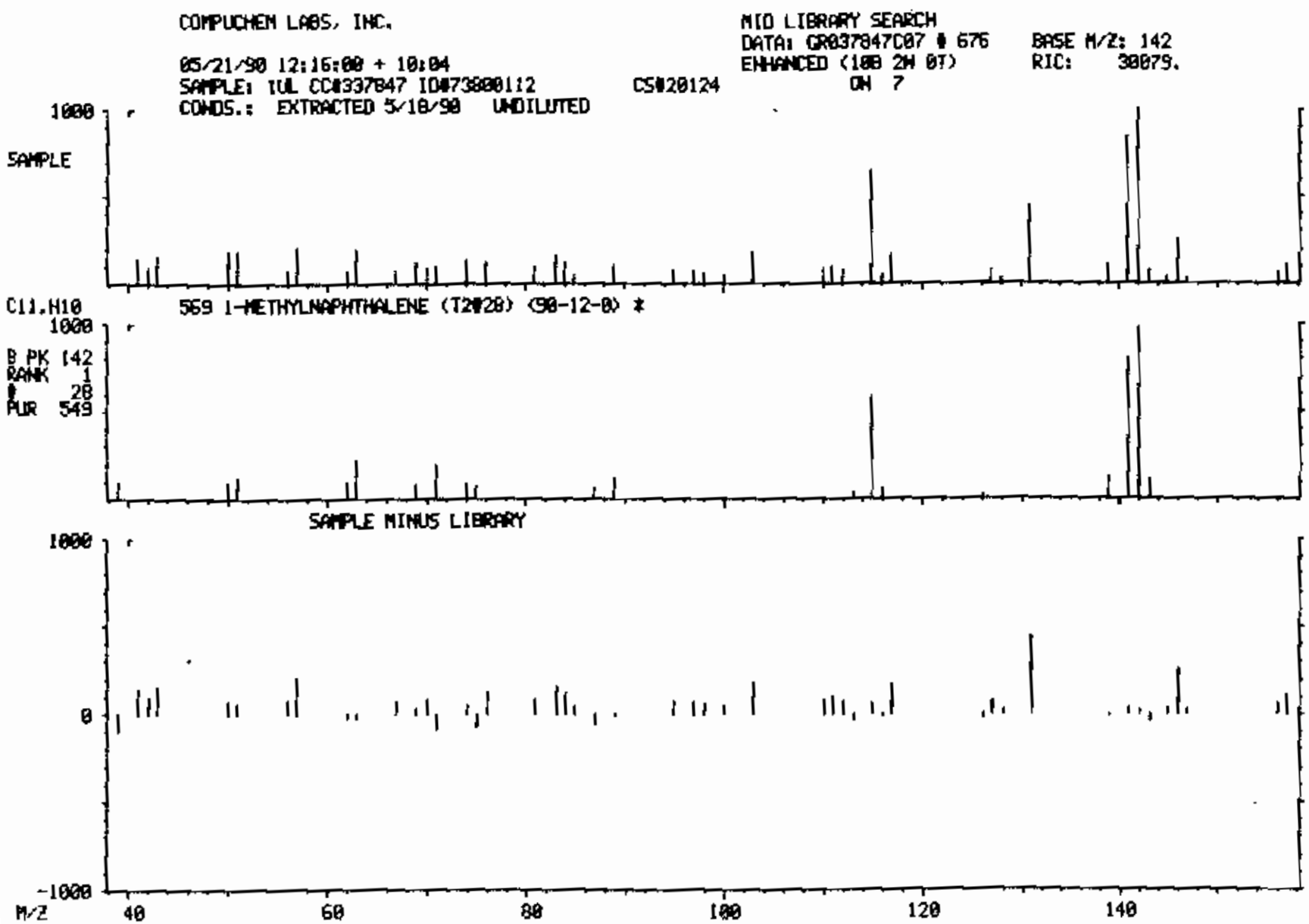

MID DUAL MASS SPECTRUM
05/21/90 12:16:00 + 9:02
SECOND SPECTRUM
SAMPLE: 1UL CN337847 ID#738000112
475) 4-CHLOROANILINE (02N10) (106-47-8)
CS020124
DATA: CR037847C07 #606 BASE M/Z: 127/ 127
ENHANCED (10B 2N 0T) RIC: 34559./ 73855.
DATA: UNENHANCED #606 COMPUCHEM LABS, INC.
ON 7
M/Z
50
100
150
50.0
100.0
98.6
49.3
5256.
5184.

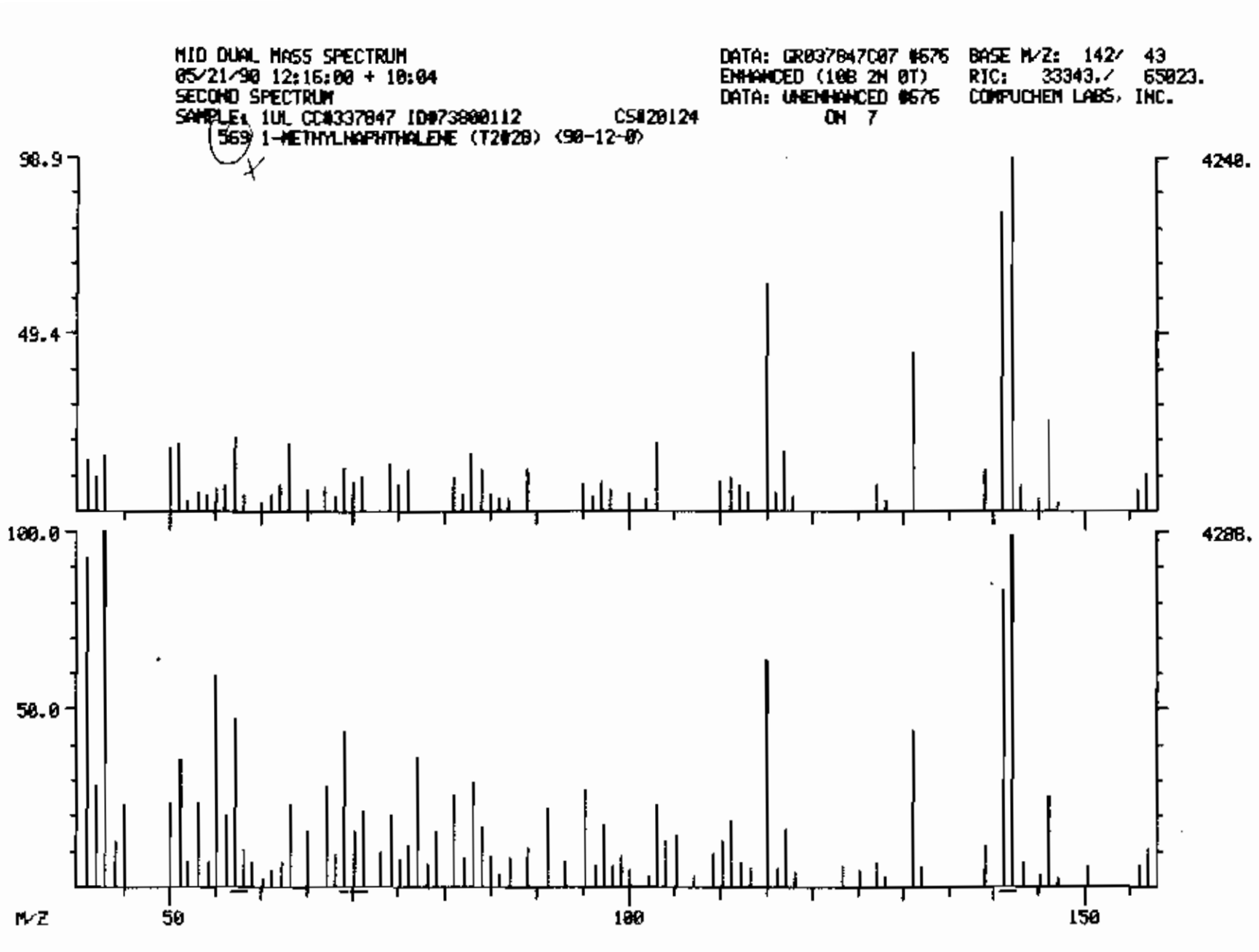

COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 9:54
SAMPLE: 1UL CC#337847 ID#73800112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 665
ENHANCED (100 2N 0T)
ON 7
BASE M/Z: 106
RIC: 178943.
1000
SAMPLE
C11.H10
477 2-METHYLNAPHTHALENE (02#13) (91-57-6) #
1000
B PK 142
RANK 1
27
PUR 107
SAMPLE MINUS LIBRARY
1000
0
-1000
M/Z
40
60
80
100
120
140



640

NYDEC RA090 0507 ORGANIC


COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 10:04
SAMPLE: IUL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/10/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 676
ENHANCED (100 2H 0T)
ON 7
BASE M/Z: 142
RIC: 30079.
1000
SAMPLE
C11.H10
569 1-METHYLNAPHTHALENE (T2#20) (90-12-0) *
1000
B PK 142
RANK 1
20
PUR 549
SAMPLE MINUS LIBRARY
1000
0
-1000
M/Z
40
60
80
100
120
140



CONPUCHEM LABS, INC.
05/21/90 12:16:00 + 4:11
SAMPLE: 1UL CD837847 ID#738B0112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
MID LIBRARY SEARCH
DATA: CR837847C07 # 201
ENHANCED (100 ZN 0T)
ON 7
BASE M/Z: 91
RIC: 19923.
CS#20124
1151
SAMPLE
C7,H8
1151
M HT PK B PK RANK PUR
92 91 1 859 904
BENZENE, METHYL-*
CAS# 108-88-3
C7,H8
1151
M HT PK B PK RANK PUR
92 91 2 853 900
1,3,5-CYCLOHEPTATRIENE *
CAS# 544-25-2
C7,H8
1151
M HT PK B PK RANK PUR
92 91 3 858 923
CYCLOBUTENE, 2-PROPENYLIDENE- *
CAS# 52097-85-5
M/Z
30
40
50
60
70
80
90

COMPUCHEM LABS, INC.

05/21/90 12:16:00 + 4:25
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
COMDS.: EXTRACTED 5/18/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037847C07 # 296 BASE M/Z: 44
ENHANCED (10B 2N 0T) RIC: 2412540.
ON 7

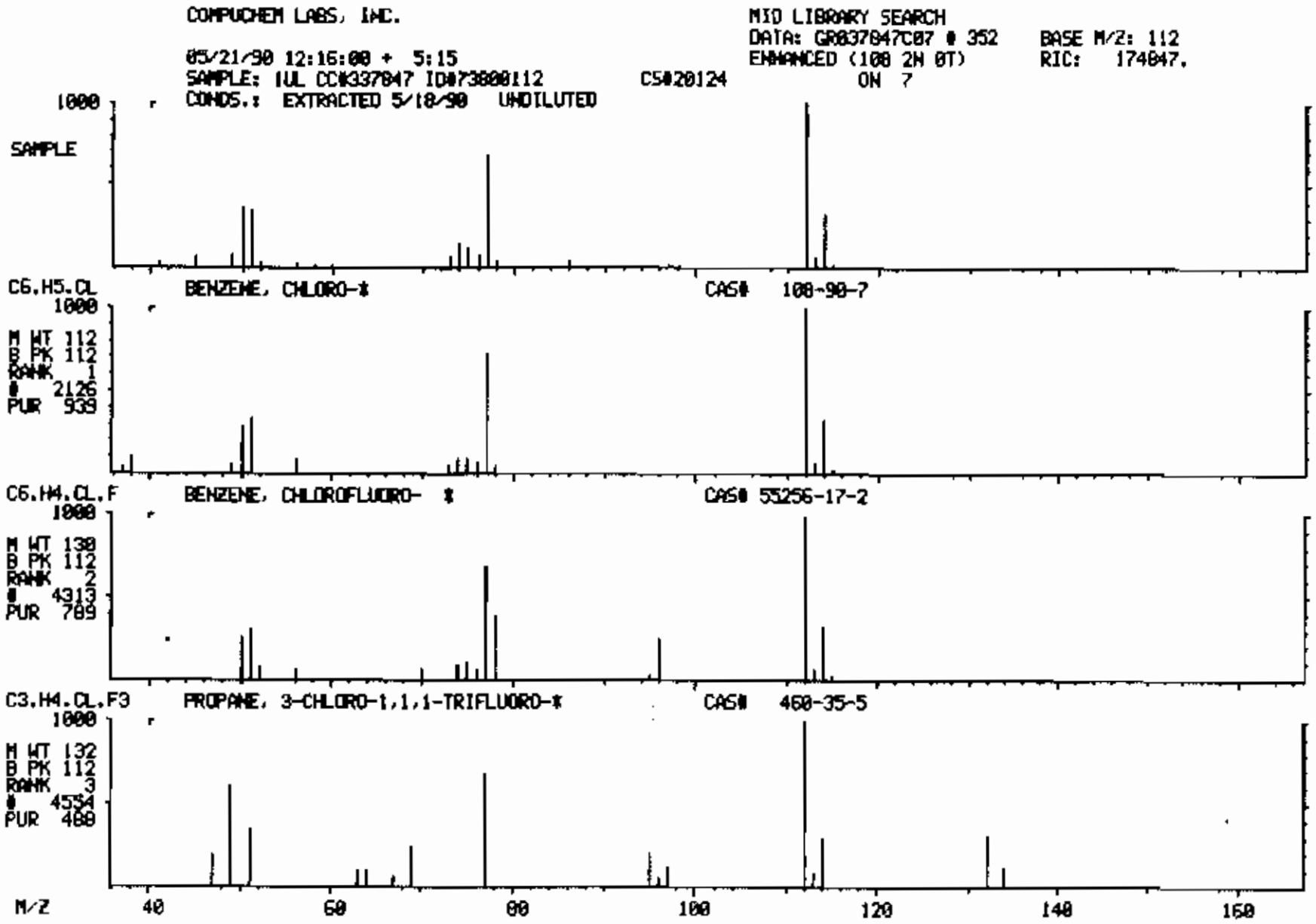
1169
SAMPLE

C3.H7.O.N FORMAMIDE, N,N-DIMETHYL-* CAS# 68-12-2
1169
M WT 73
B PK 44
RANK 1
271
PUR 967

C14.H13.O2.N5 1H-PYRIMIDO[4,5,6-IJ][2,7]NAPHTHYRIDINE-6-CARB* CAS# 55044-48-9
1169
M WT 283
B PK 44
RANK 2
27426
PUR 917

C5.H12.O.N2 1-BUTANAMINE, N-METHYL-N-NITROSO- * CAS# 7068-83-9
1169
M WT 116
B PK 43
RANK 3
2648
PUR 629

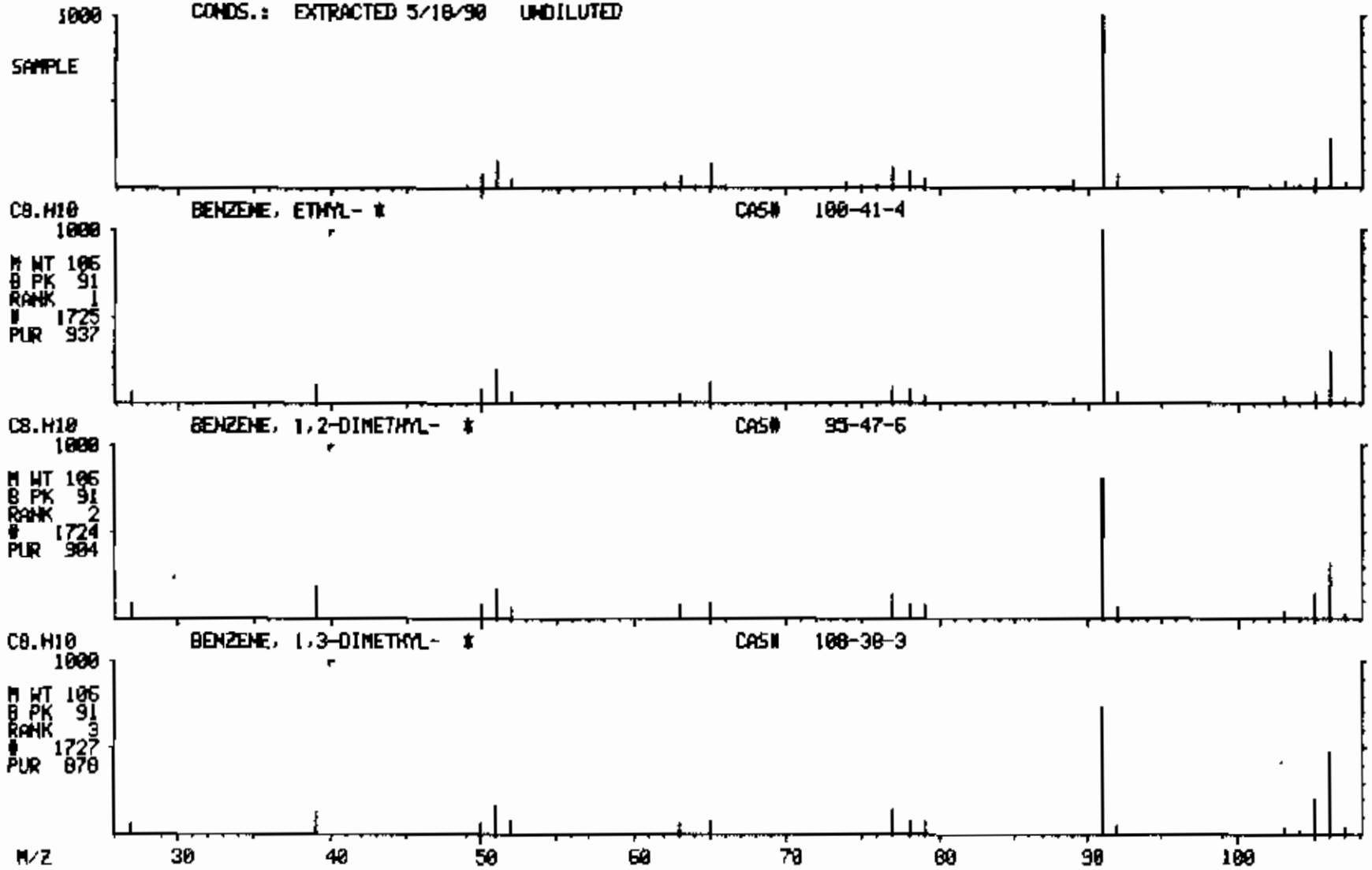
M/Z 50 100 150 200 250

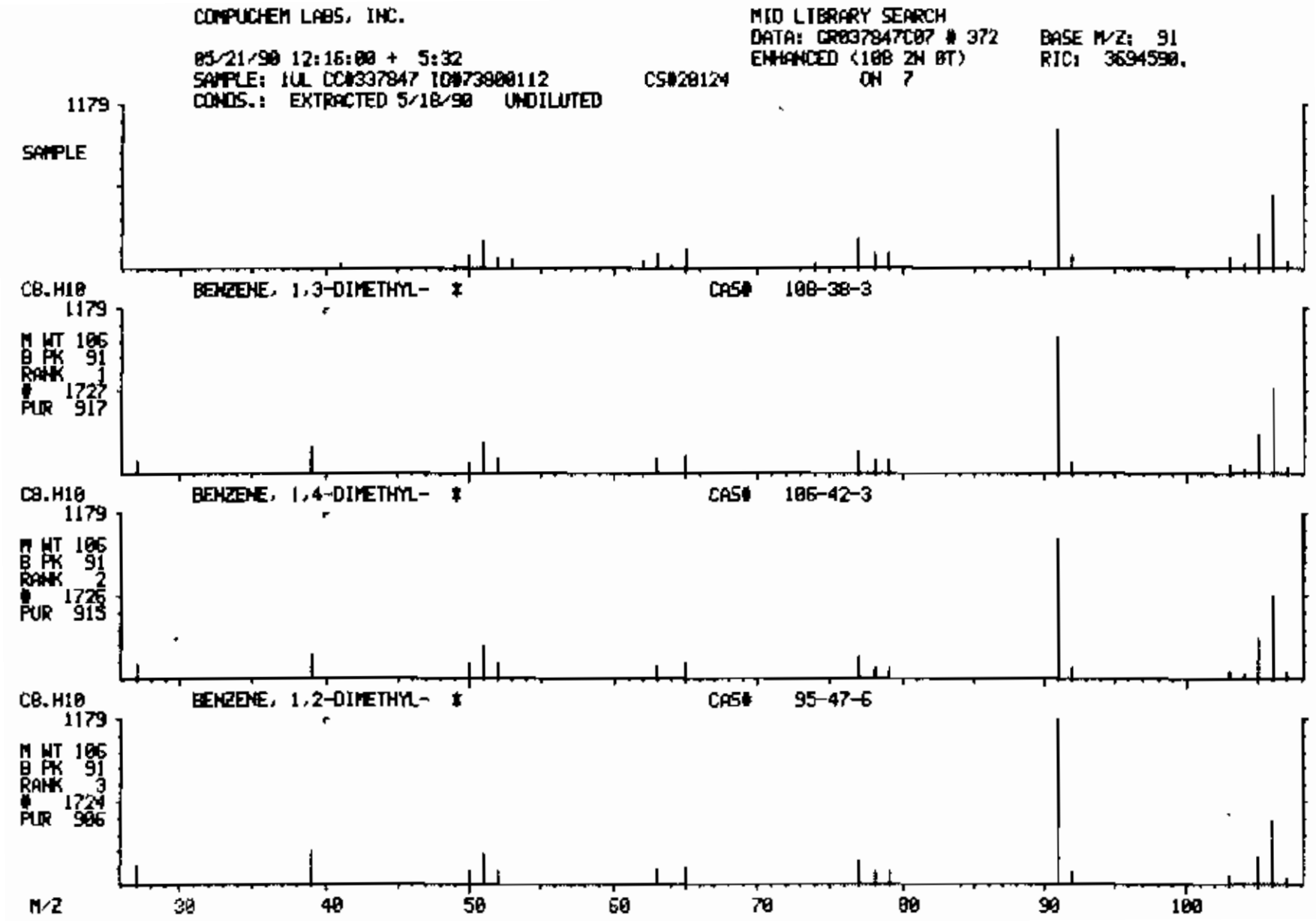

COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 5:15
SAMPLE: 1UL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
C5#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 352
ENHANCED (100 2H 0T)
ON 7
BASE M/Z: 112
RIC: 174047.
1000
SAMPLE
C6.H5.CL
BENZENE, CHLORO-*
CAS# 108-90-7
M WT 112
B PK 112
RANK 1
2126
PUR 939
C6.H4.CL.F
BENZENE, CHLOROFLUORO- *
CAS# 55256-17-2
M WT 130
B PK 112
RANK 2
4313
PUR 789
C3.H4.CL.F3
PROPANE, 3-CHLORO-1,1,1-TRIFLUORO-*
CAS# 460-35-5
M WT 132
B PK 112
RANK 3
4554
PUR 488
M/Z
40
60
80
100
120
140
160

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GR037047C07 @ 365 BASE M/Z: 91
ENHANCED (100 2N 0T) RIC: 2072570.
ON ?

05/21/90 12:16:00 + 5:25
SAMPLE: 1UL CC#337047 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED




COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 5:32
SAMPLE: 1UL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 372
ENHANCED (10B 2N 0T)
ON 7
BASE M/Z: 91
RIC: 3694590.
1179
SAMPLE
C8.H10
BENZENE, 1,3-DIMETHYL- %
CAS# 108-38-3
M WT 106
B PK 91
RANK 1
1727
PUR 917
C8.H10
BENZENE, 1,4-DIMETHYL- %
CAS# 106-42-3
M WT 106
B PK 91
RANK 2
1726
PUR 915
C8.H10
BENZENE, 1,2-DIMETHYL- %
CAS# 95-47-6
M WT 106
B PK 91
RANK 3
1724
PUR 906
M/Z
30
40
50
60
70
80
90
100

COMPUCHEM LABS, INC.

05/21/90 12:16:00 + 5:49
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037847C07 # 391 BASE M/Z: 91
ENHANCED (10B 2H 0T) RIC: 1314010.
ON 7

1010

SAMPLE

C8.H10 BENZENE, 1,3-DIMETHYL- % CAS# 108-38-3

1010

M WT 106
B PK 91
RANK 1
1727
PUR 926

C8.H10 BENZENE, 1,2-DIMETHYL- % CAS# 95-47-6

1010

M WT 106
B PK 91
RANK 2
1724
PUR 926

C8.H10 BENZENE, 1,4-DIMETHYL- % CAS# 106-42-3

1010

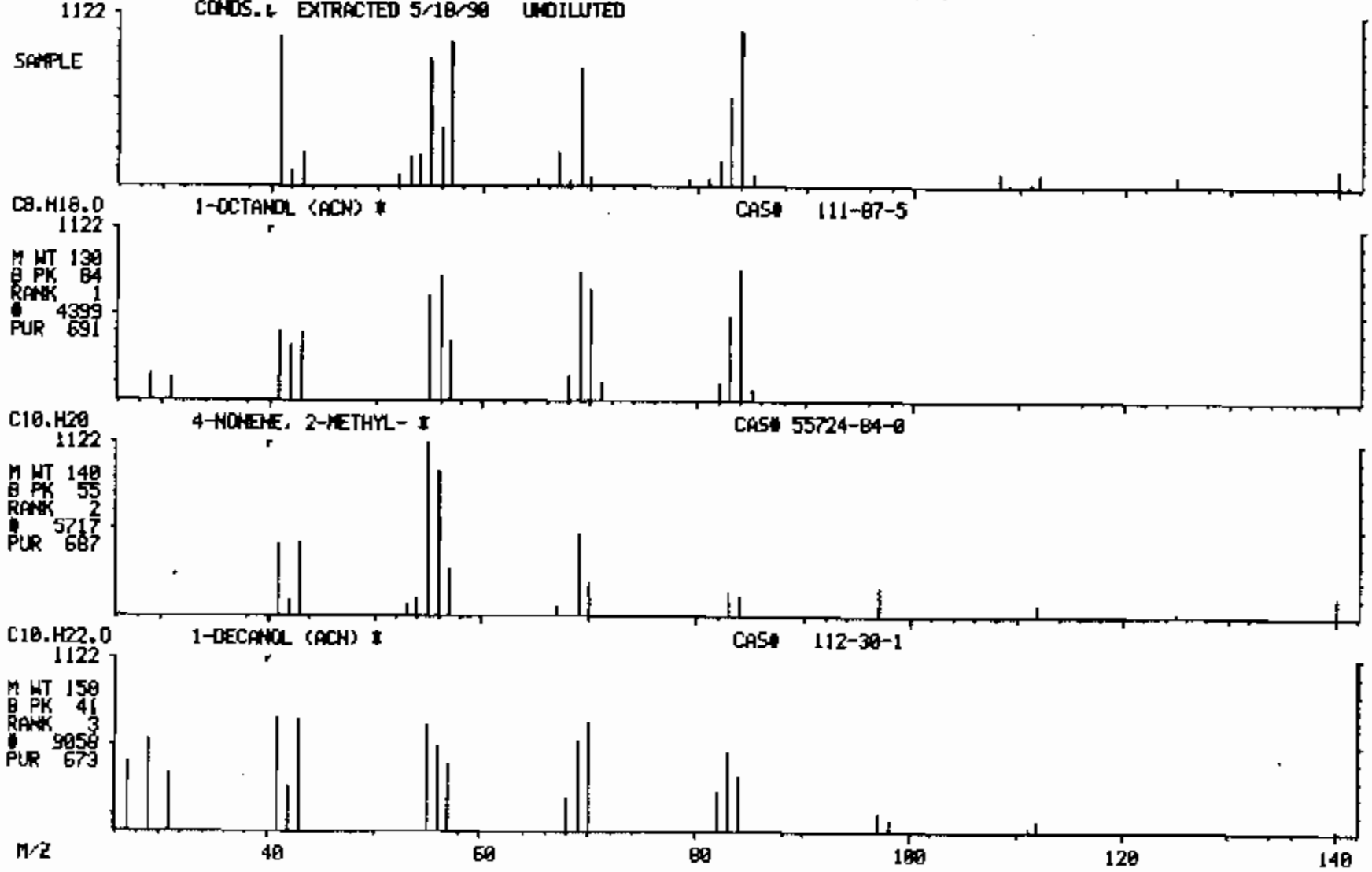
M WT 106
B PK 91
RANK 3
1726
PUR 925

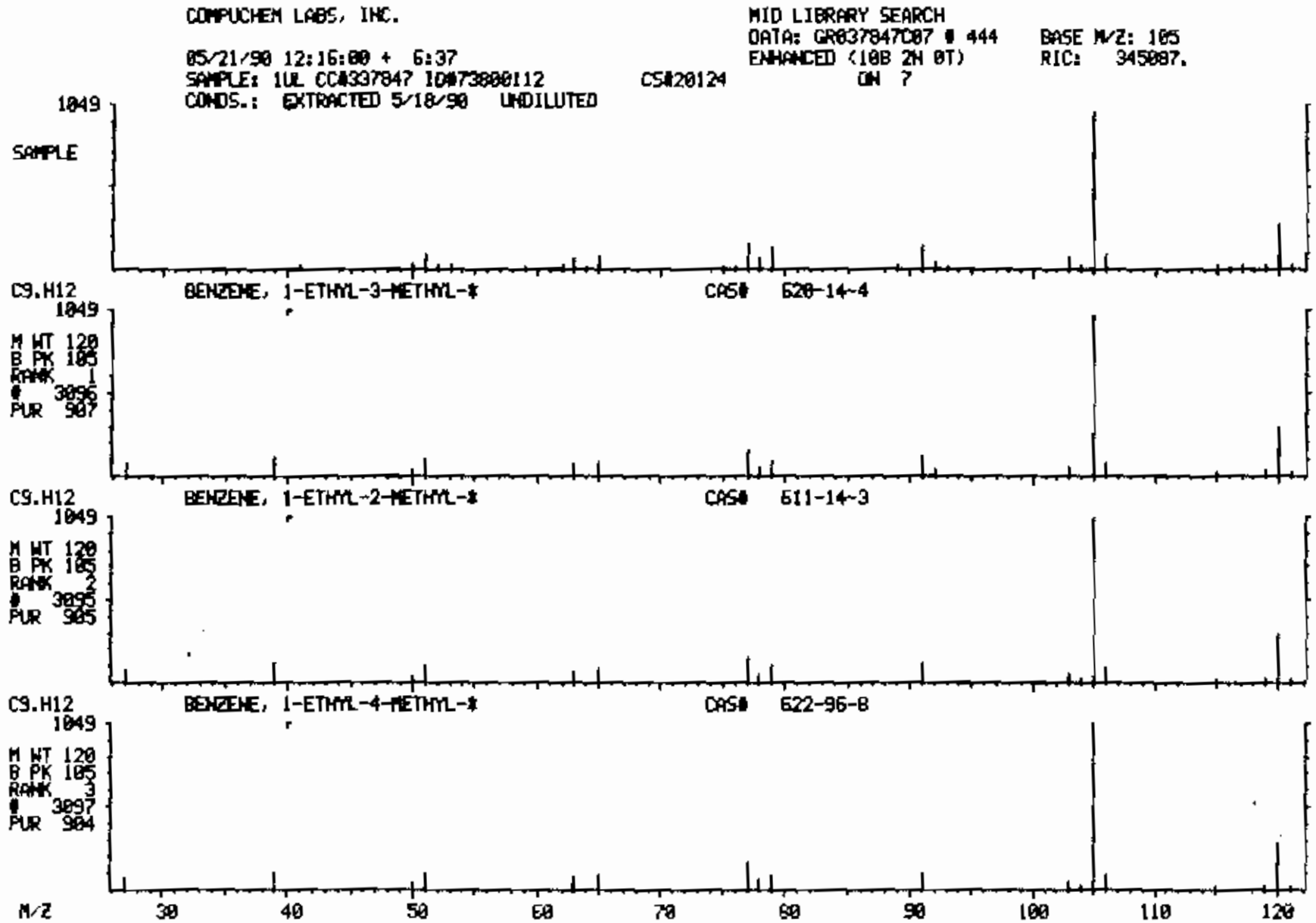
M/Z 30 40 50 60 70 80 90 100

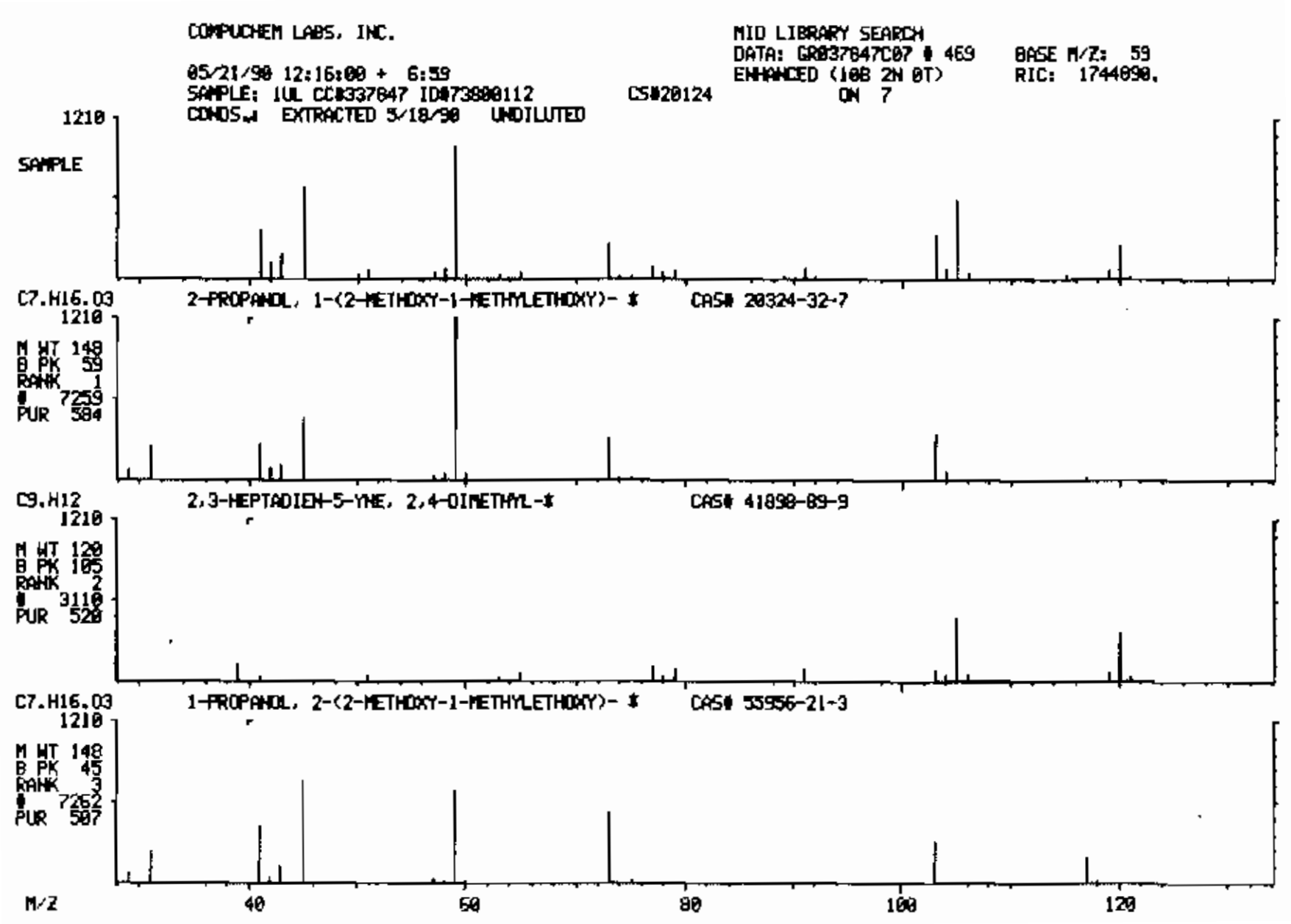
COMPUCHEM LABS, INC.

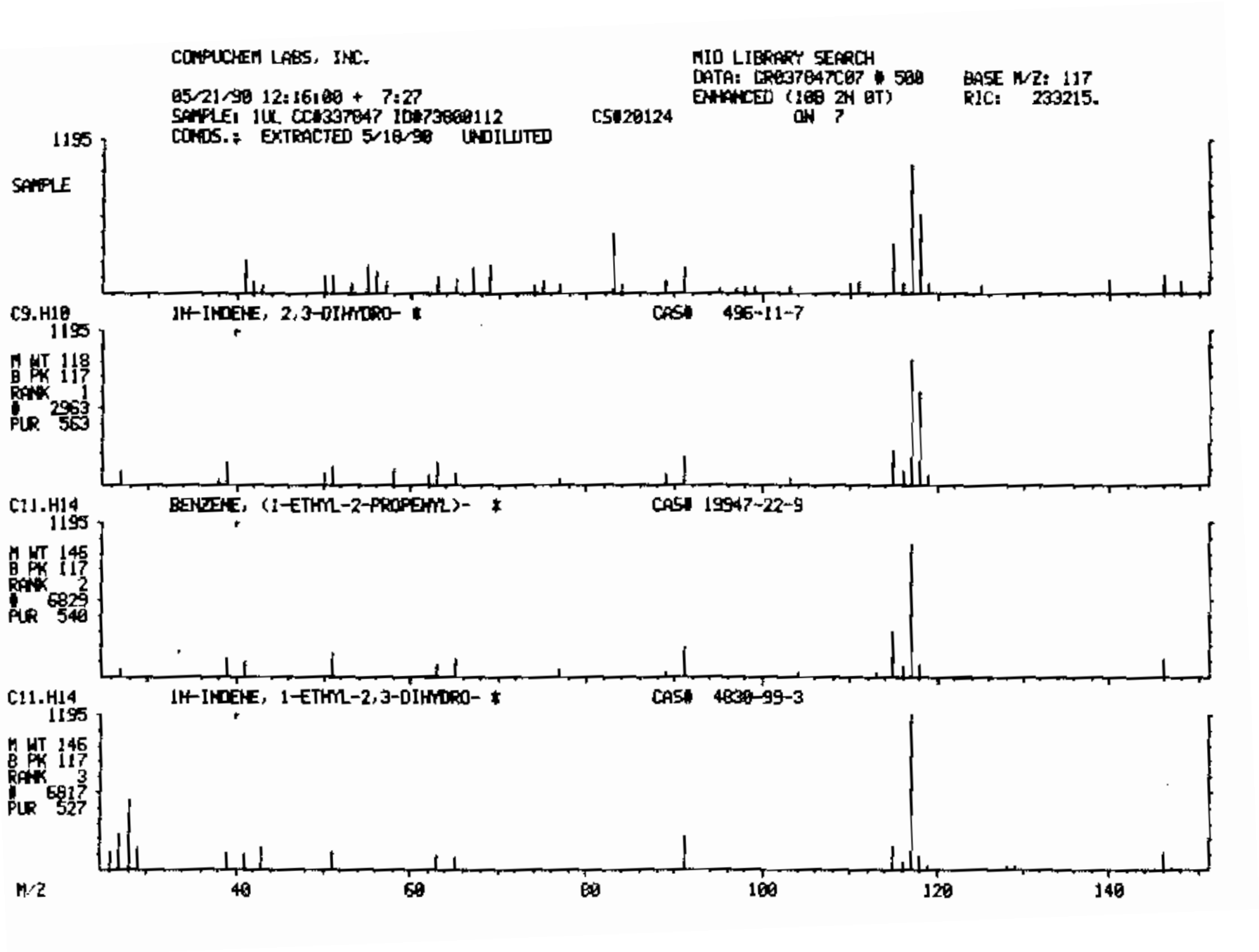
05/21/90 12:16:00 + 6:05
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037847C07 # 409 BASE M/Z: 84
ENHANCED (100 2N 0T) RIC: 358911.
ON 7




COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 6:37
SAMPLE: 1UL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 444
ENHANCED (10B 2N 0T)
ON ?
BASE M/Z: 105
RIC: 345087.
1049
SAMPLE
C9.H12
BENZENE, 1-ETHYL-3-METHYL-*
CAS# 620-14-4
M WT 120
B PK 105
RANK 1
3096
PUR 907
C9.H12
BENZENE, 1-ETHYL-2-METHYL-*
CAS# 611-14-3
M WT 120
B PK 105
RANK 2
3095
PUR 905
C9.H12
BENZENE, 1-ETHYL-4-METHYL-*
CAS# 622-96-8
M WT 120
B PK 105
RANK 3
3097
PUR 904
M/Z
30
40
50
60
70
80
90
100
110
120

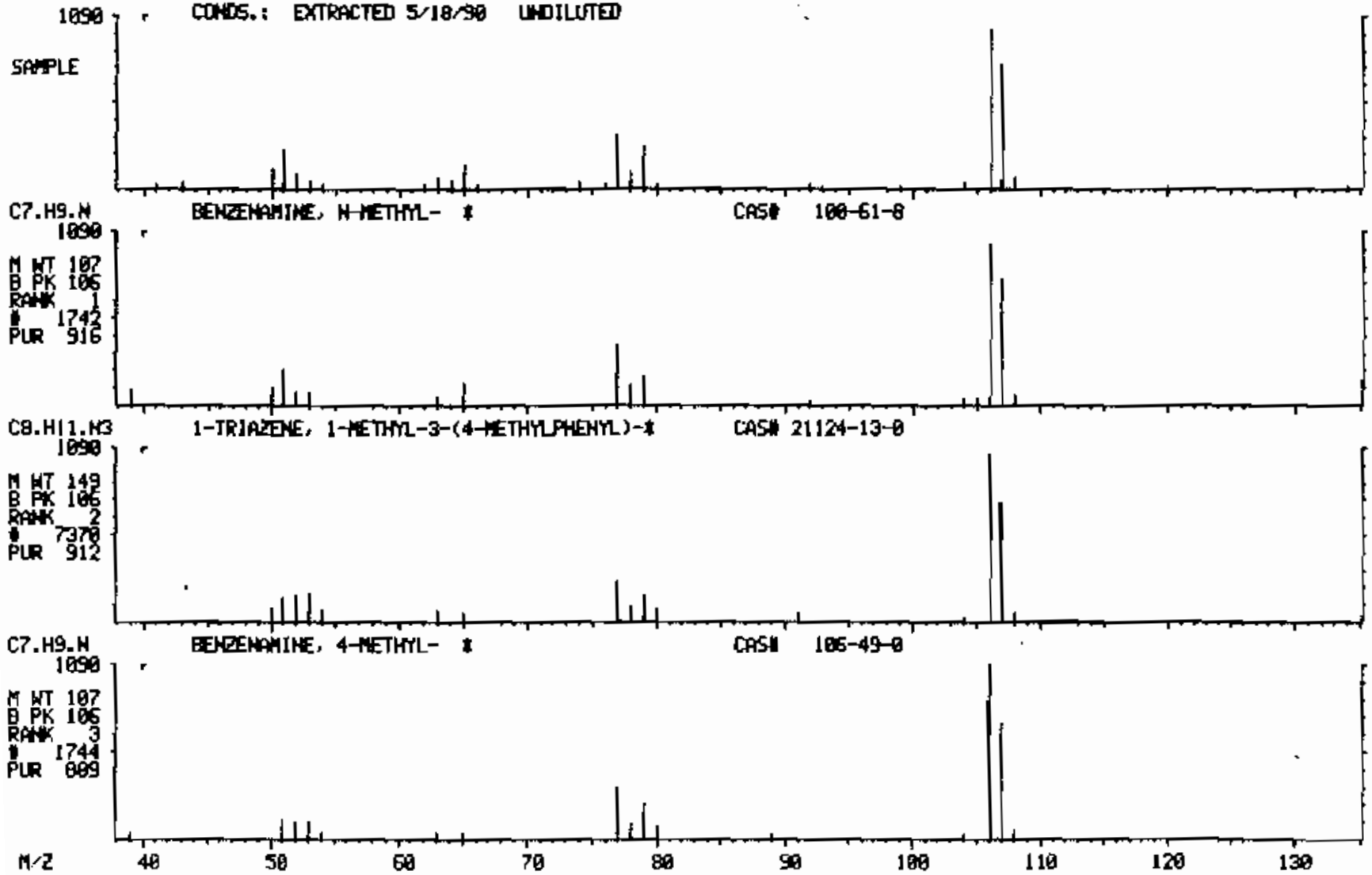

COMPUCHEM LABS, INC.
MID LIBRARY SEARCH
DATA: GR037847C07 # 469
BASE M/Z: 59
ENHANCED (10B 2N 0T)
RIC: 1744090.
05/21/90 12:16:00 + 6:59
ON 7
SAMPLE: 1UL CC#337847 ID#73890112
CS#20124
CONDS.. EXTRACTED 5/18/90 UNDILUTED
1210
SAMPLE
C7.H16.03
2-PROPANOL, 1-(2-METHOXY-1-METHYLETHOXY)- *
CAS# 20324-32-7
M WT 148
B PK 59
RANK 1
7259
PUR 584
C9.H12
2,3-HEPTADIEN-5-YNE, 2,4-DIMETHYL-*
CAS# 41890-89-9
M WT 120
B PK 105
RANK 2
3110
PUR 528
C7.H16.03
1-PROPANOL, 2-(2-METHOXY-1-METHYLETHOXY)- *
CAS# 55956-21-3
M WT 148
B PK 45
RANK 3
7262
PUR 507
M/Z
40
60
80
100
120


COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 7:27
SAMPLE: 1UL CC#337047 ID#73000112
COMDS.: EXTRACTED 5/18/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037047C07 # 500
ENHANCED (100 2H 0T)
ON 7
BASE M/Z: 117
RIC: 233215.
1195
SAMPLE
C9.H10
1H-INDENE, 2,3-DIHYDRO- *
CAS# 496-11-7
M WT 118
B PK 117
RANK 1
2963
PUR 563
C11.H14
BENZENE, (1-ETHYL-2-PROPENYL)- *
CAS# 19947-22-9
M WT 146
B PK 117
RANK 2
6829
PUR 540
C11.H14
1H-INDENE, 1-ETHYL-2,3-DIHYDRO- *
CAS# 4830-99-3
M WT 146
B PK 117
RANK 3
6817
PUR 527
M/Z
40
60
80
100
120
140

COMPUCHEM LABS, INC.

05/21/90 12:16:00 + 7:43
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037847C07 # 518 BASE M/Z: 106
ENHANCED (100 2N 0T) RIC: 397823.
ON 7



NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

05/21/90 12:16:09 + 8:11
SAMPLE: 1UL CC#337847 ID#73800112 CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037847C07 # 549 BASE M/Z: 68
ENHANCED (100 2N 0T) RIC: 106523.
ON 7

1229
SAMPLE

C8.H8.02 2,5-CYCLOHEXADIENE-1,4-DIONE, 2,5-DIMETHYL- * CAS# 137-18-8
1229
M WT 136
B PK 39
RANK 1
5208
PUR 814

C8.H8.02 2,5-CYCLOHEXADIENE-1,4-DIONE, 2,6-DIMETHYL- * CAS# 527-61-7
1229
M WT 136
B PK 68
RANK 2
5212
PUR 782

C9.H12.03 CYCLOHEXANECARBOXYLIC ACID, 3-METHYLENE-2-OXO-* CAS# 55956-42-8
1229
M WT 168
B PK 100
RANK 3
11211
PUR 718

M/Z 40 60 80 100 120 140 160

NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

05/21/90 12:16:00 + 8:20
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED

MIO LIBRARY SEARCH
DATA: GR037847C07 # 569 BASE M/Z: 59
ENHANCED (100 2N 8T) RIC: 729087.
ON 7

1121
SAMPLE

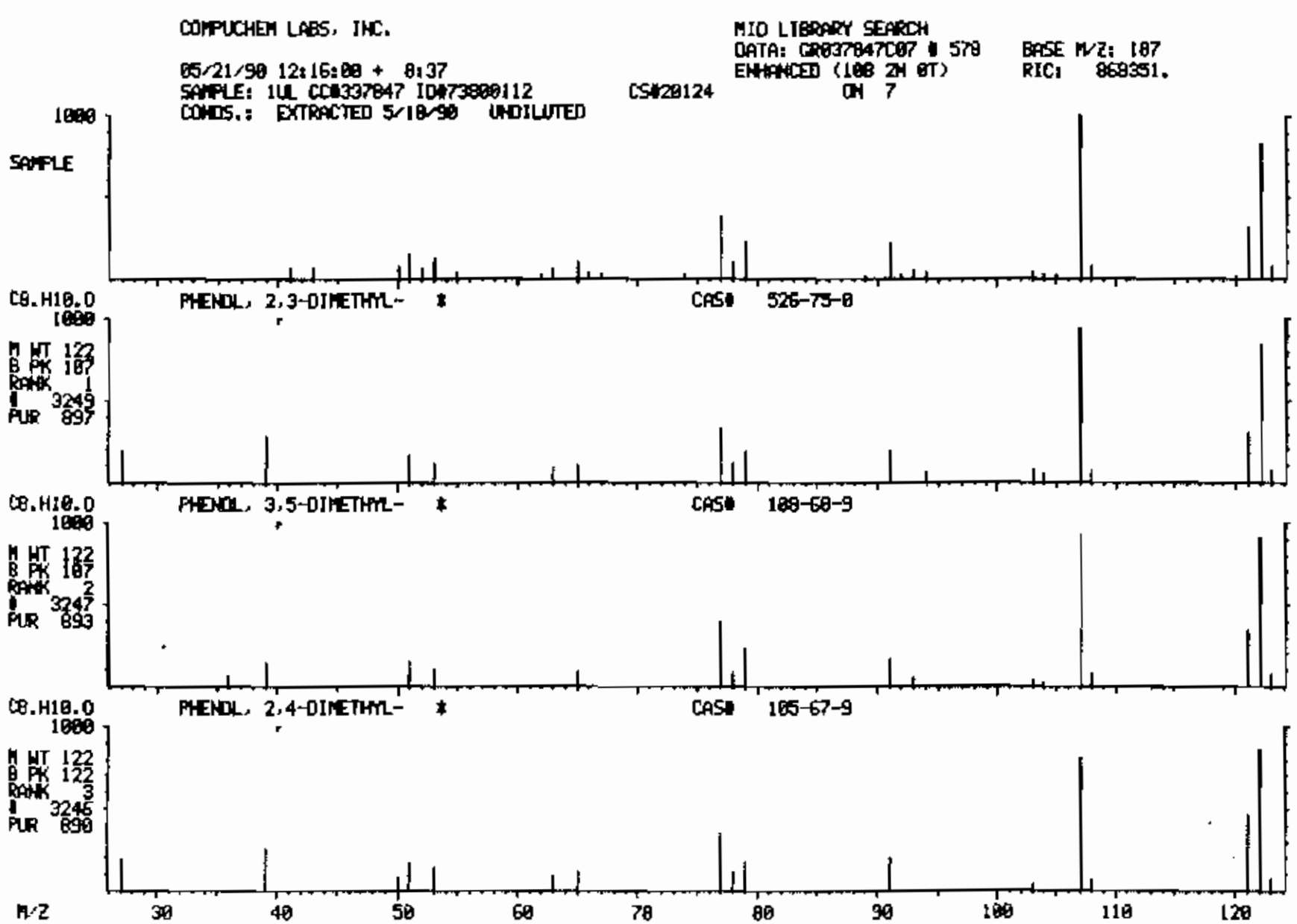
C10.H20.O CYCLOHEXANEMETHANOL, .ALPHA.,.ALPHA.,4-TRIMETH* CAS# 498-81-7
1121
M WT 156
B PK 59
RANK 1
6652
PUR 719

C9.H18.O 3-HEPTENE, 7-ETHOXY-* CAS# 55320-24-6
1121
M WT 142
B PK 81
RANK 2
6334
PUR 432

C10.H18.O2 4-NONENOIC ACID, METHYL ESTER * CAS# 20731-19-5
1121
M WT 170
B PK 41
RANK 3
11364
PUR 423

M/Z 40 60 80 100 120 140 160

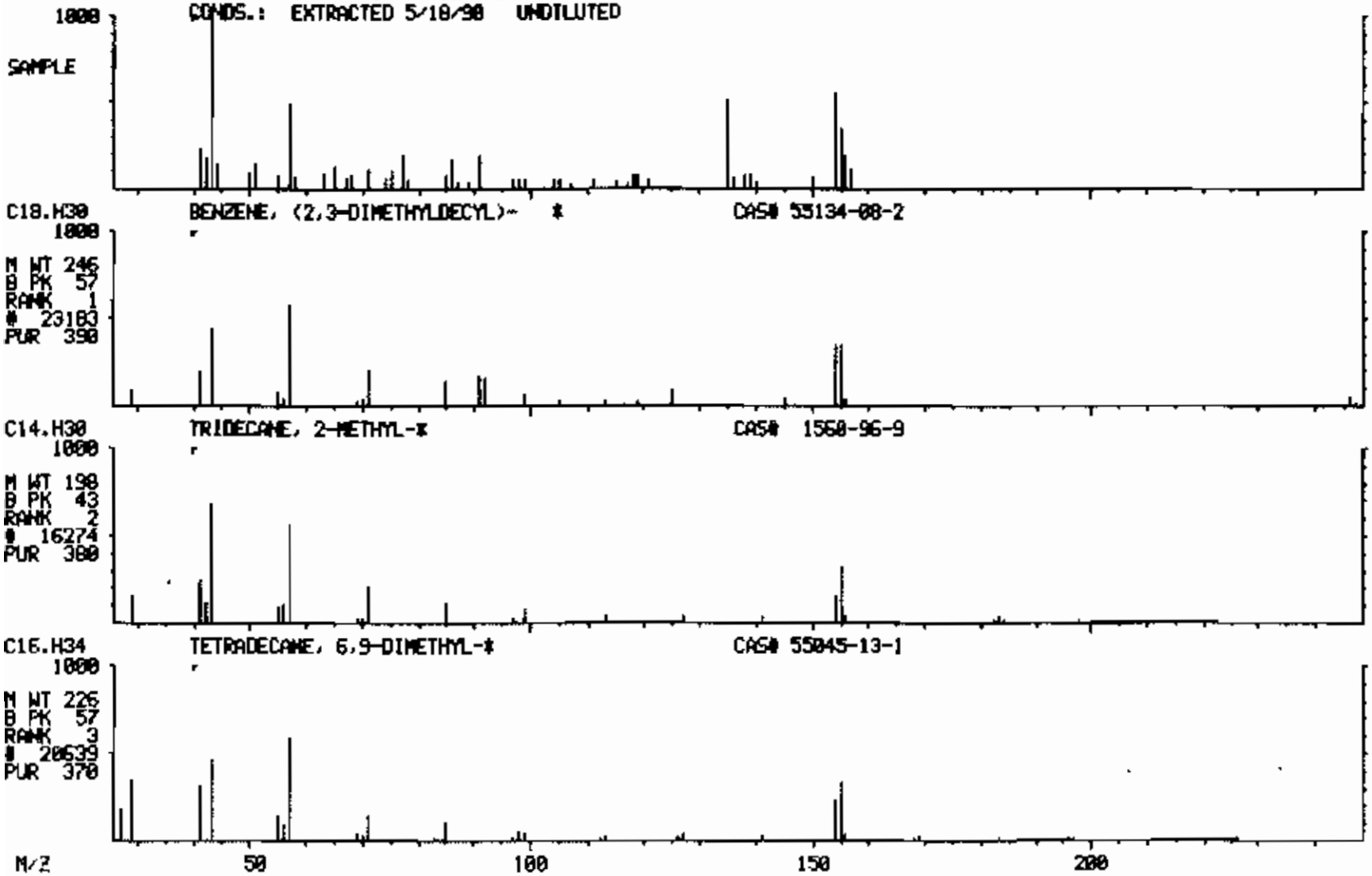
HYDEC RA090 0507 ORGANIC


COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 8:37
SAMPLE: 1UL CC#337847 ID#73800112 CS#20124
COMDS.: EXTRACTED 5/10/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037847C07 # 579 BASE M/Z: 107
ENHANCED (100 2M 0T) RIC: 869351.
ON 7
1000
SAMPLE
C8.H10.0
PHENOL, 2,3-DIMETHYL- *
CAS# 526-75-0
1000
M WT 122
B PK 107
RANK 1
3249
PUR 897
C8.H10.0
PHENOL, 3,5-DIMETHYL- *
CAS# 108-68-9
1000
M WT 122
B PK 107
RANK 2
3247
PUR 893
C8.H10.0
PHENOL, 2,4-DIMETHYL- *
CAS# 105-67-9
1000
M WT 122
B PK 122
RANK 3
3246
PUR 890
M/Z
30
40
50
60
70
80
90
100
110
120

COMPUCHEM LABS, INC.

05/21/98 12:16:00 + B:50
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/18/98 UNDILUTED

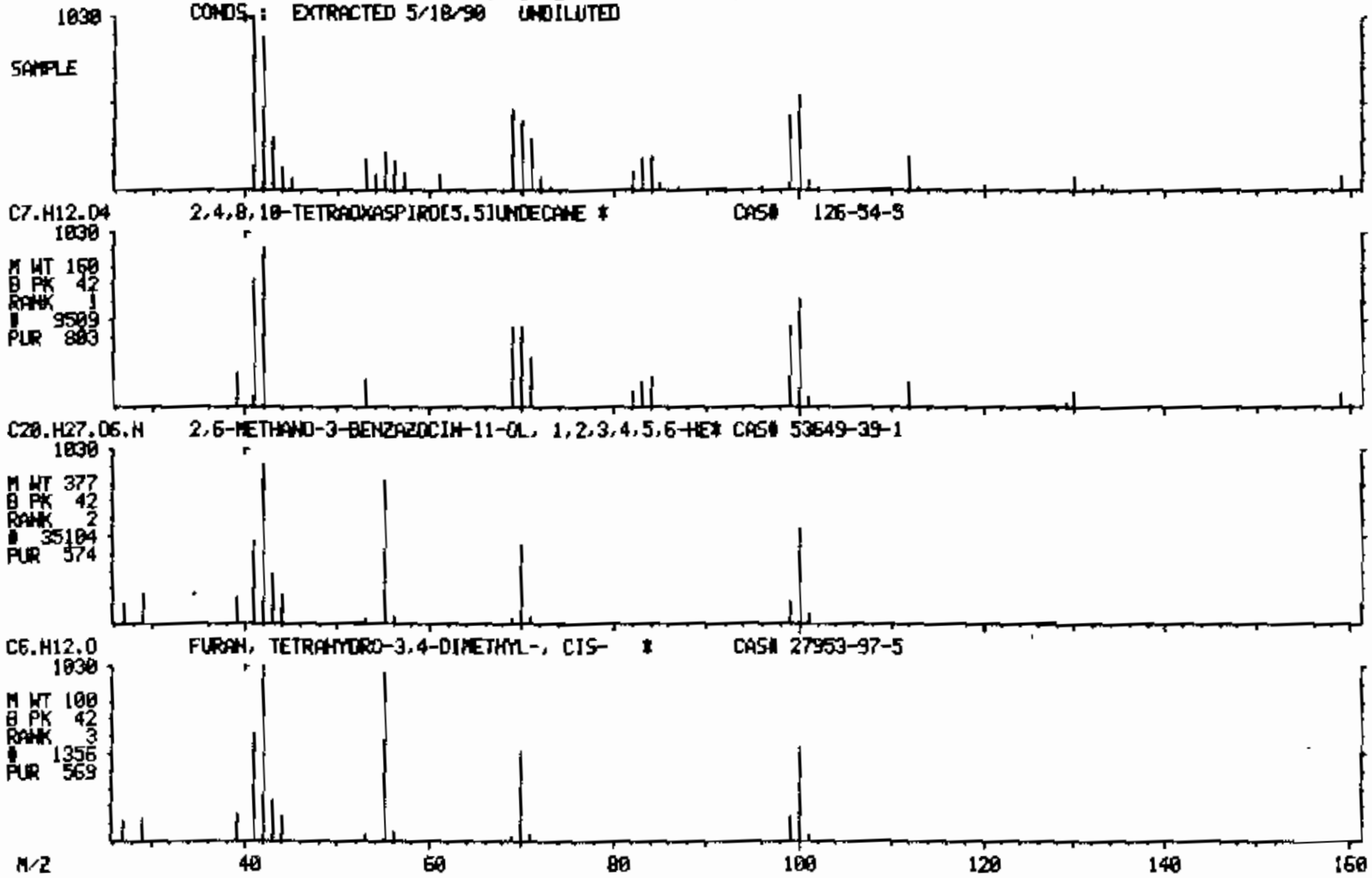
MID LIBRARY SEARCH
DATA: GR037847C07 # 593 BASE M/Z: 43
ENHANCED (100 2N 0T) RIC: 156927.
CH 7

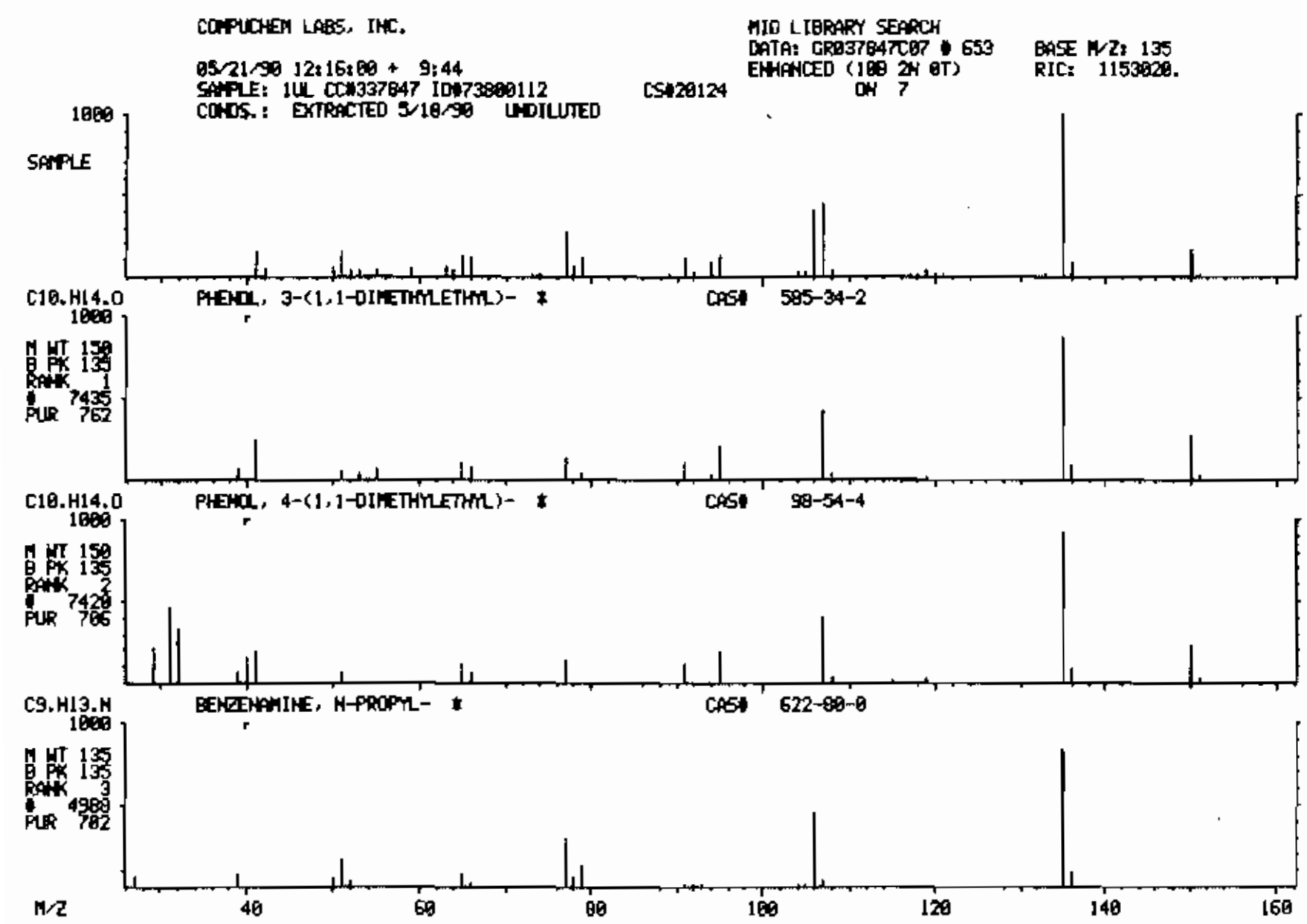


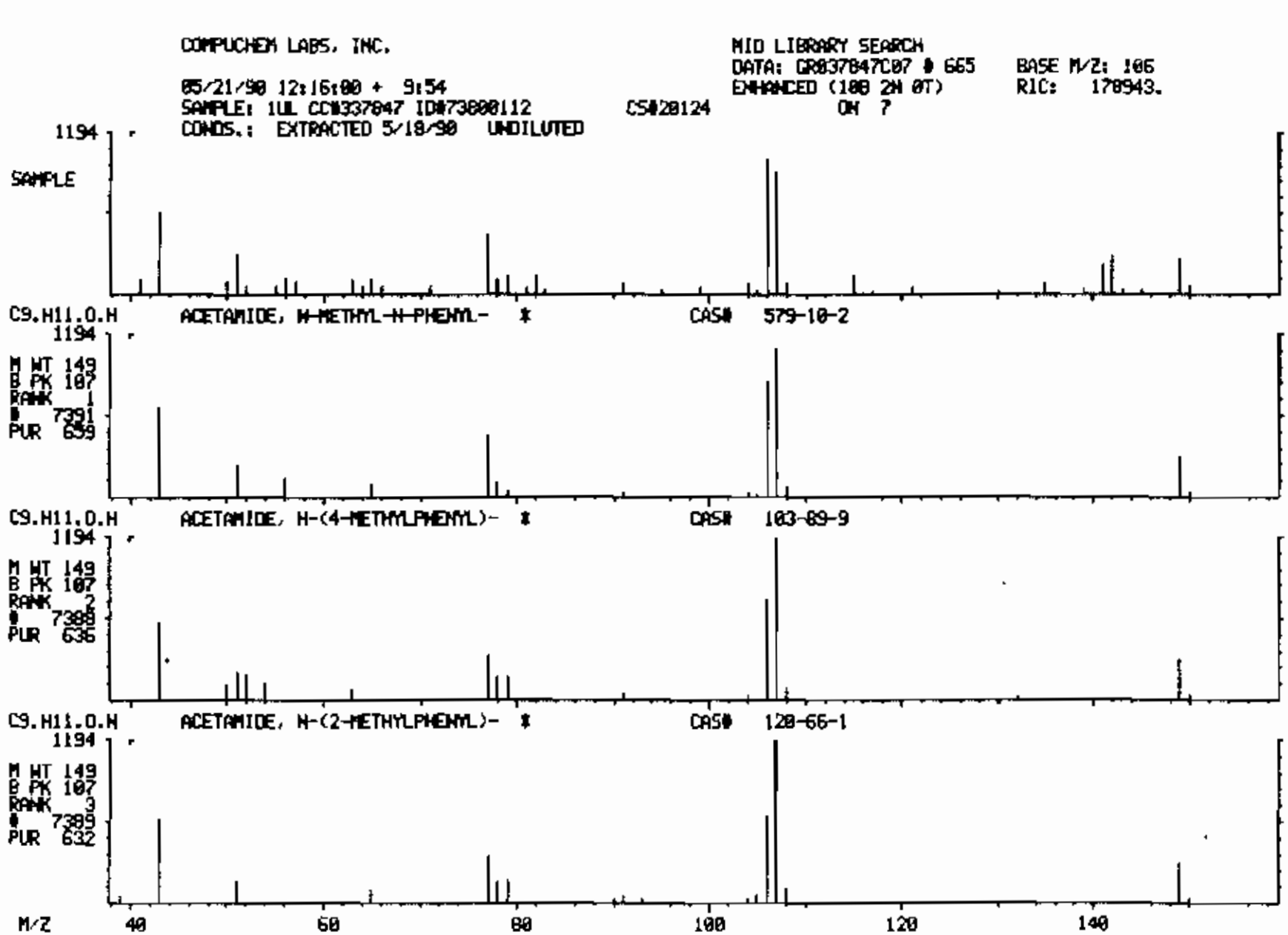
COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GR037047C07 # 609 BASE M/Z: 41
ENHANCED (100 2W 0T) RIC: 205055.

05/21/90 12:16:00 + 9:04
SAMPLE: 1UL CC#337047 ID#73000112 CS#20124 ON 7
CONDS.: EXTRACTED 5/18/90 UNDILUTED



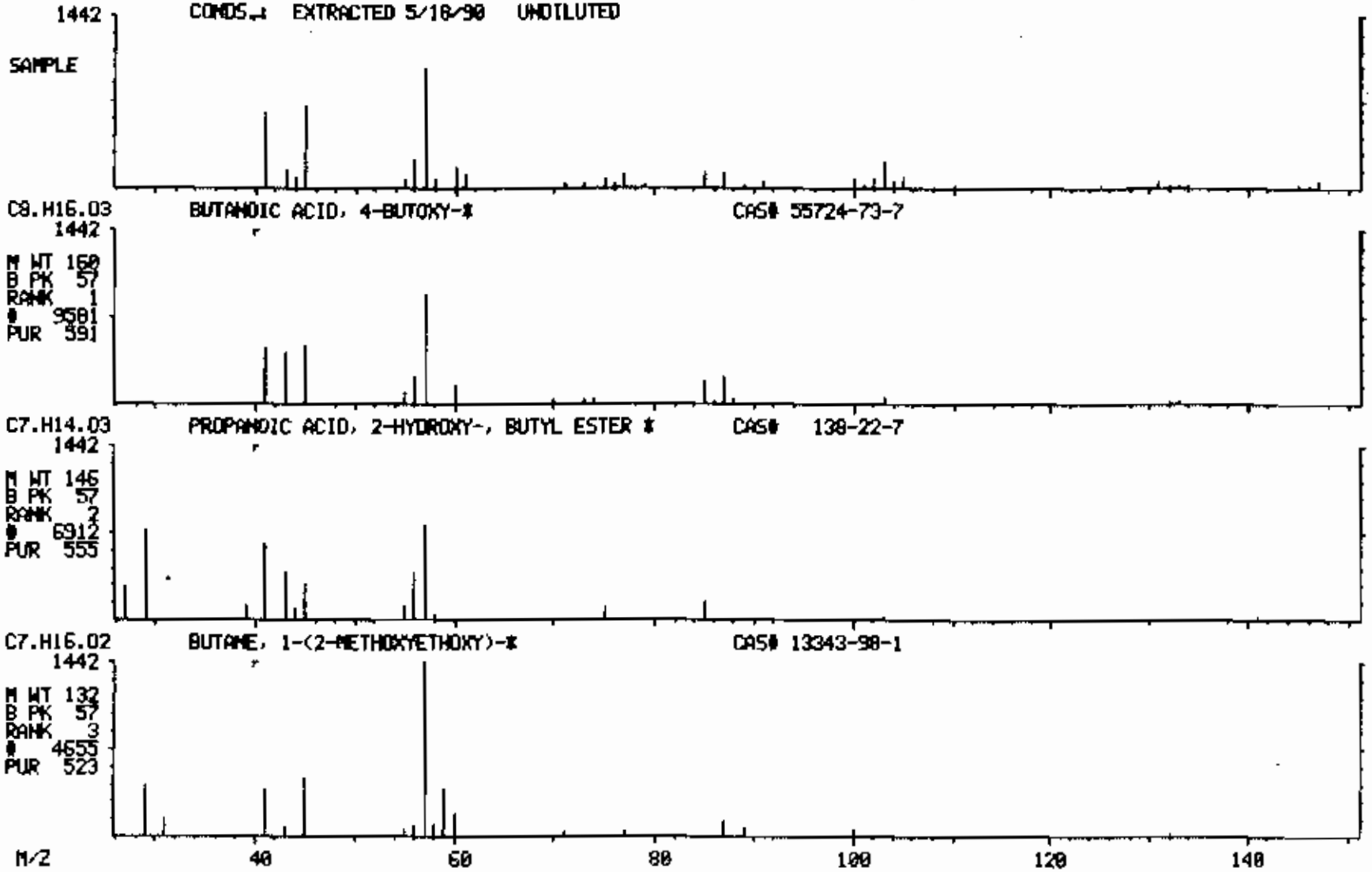

COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 9:44
SAMPLE: 1UL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/10/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 653
ENHANCED (100 2N 0T)
ON 7
BASE M/Z: 135
RIC: 1153020.
1000
SAMPLE
C10.H14.O
PHENOL, 3-(1,1-DIMETHYLETHYL)- *
CAS# 585-34-2
M WT 150
B PK 135
RANK 1
7435
PUR 762
C10.H14.O
PHENOL, 4-(1,1-DIMETHYLETHYL)- *
CAS# 98-54-4
M WT 150
B PK 135
RANK 2
7420
PUR 706
C9.H13.N
BENZENAMINE, N-PROPYL- *
CAS# 622-80-0
M WT 135
B PK 135
RANK 3
4988
PUR 702
M/Z
40
60
80
100
120
140
160


COMPUCHEM LABS, INC.
05/21/90 12:16:00 + 9:54
SAMPLE: 1UL CC#337847 ID#73000112
CONDS.: EXTRACTED 5/18/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GR037847C07 # 665
ENHANCED (100 2N 0T)
ON 7
BASE M/Z: 106
RIC: 170943.
1194
SAMPLE
C9.H11.O.N ACETAMIDE, N-METHYL-N-PHENYL- # CAS# 579-10-2
M WT 149
B PK 107
RANK 1
7391
PUR 659
C9.H11.O.N ACETAMIDE, N-(4-METHYLPHENYL)- # CAS# 103-89-9
M WT 149
B PK 107
RANK 2
7388
PUR 636
C9.H11.O.N ACETAMIDE, N-(2-METHYLPHENYL)- # CAS# 120-66-1
M WT 149
B PK 107
RANK 3
7389
PUR 632
M/Z
40
60
80
100
120
140

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GR037847C07 # 694 BASE M/Z: 57
ENHANCED (100 2N 0T) RIC: 129023.
ON 7

05/21/90 12:16:00 + 10:20
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
COMDS_1 EXTRACTED 5/16/90 UNDILUTED



COMPUCHEM LABS, INC.

05/21/90 12:16:00 + 10:42
SAMPLE: IUL CC#337847 ID#73800112 CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

MID LIBRARY SEARCH
DATA: GR037847C07 # 715 BASE M/Z: 70
ENHANCED (10B 2N 0T) RIC: 360447.
ON 7

1319

SAMPLE

C4.H8.O2.N2 PYRROLIDINE, 1-NITRO- * CAS# 3760-55-2

1319

M WT 116
B PK 41
RANK 1
2636
PUR 624

C20.H27.O6.N 2,6-METHANO-3-BENZAZOCIN-11-OL, 1,2,3,4,5,6-HE* CAS# 53649-39-1

1319

M WT 377
B PK 55
RANK 2
35104
PUR 536

C10.H20.O2 BUTANOIC ACID, 3-METHYL-, 3-METHYLBUTYL ESTER * CAS# 659-70-1

1319

M WT 172
B PK 70
RANK 3
11711
PUR 529

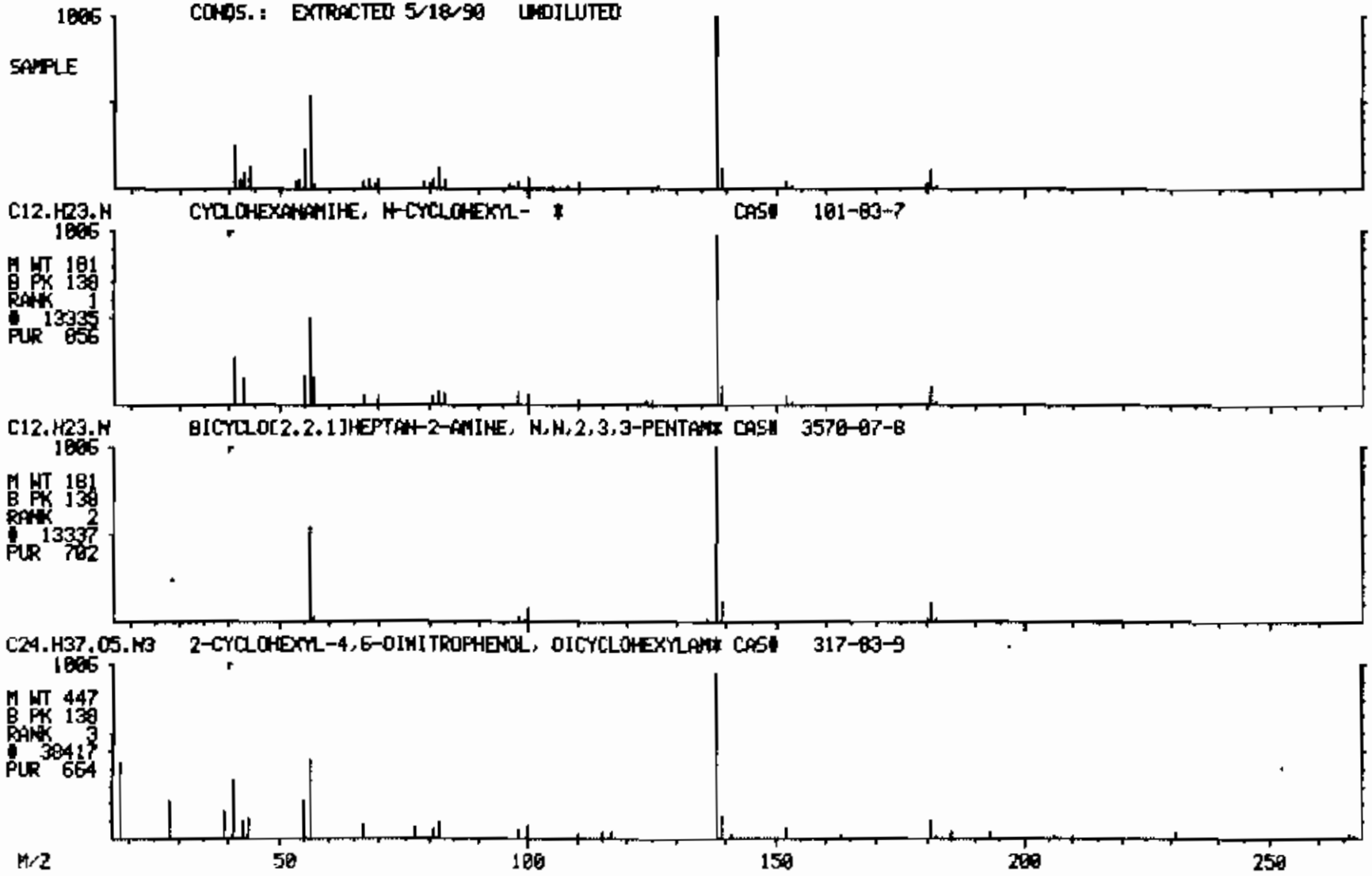
M/Z 40 60 80 100 120 140 160

NYDEC RA090 0507 ORGANIC

COMPUCHEM LABS, INC.

05/21/90 12:16:00 + 11:00
SAMPLE: 1UL CC#337847 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

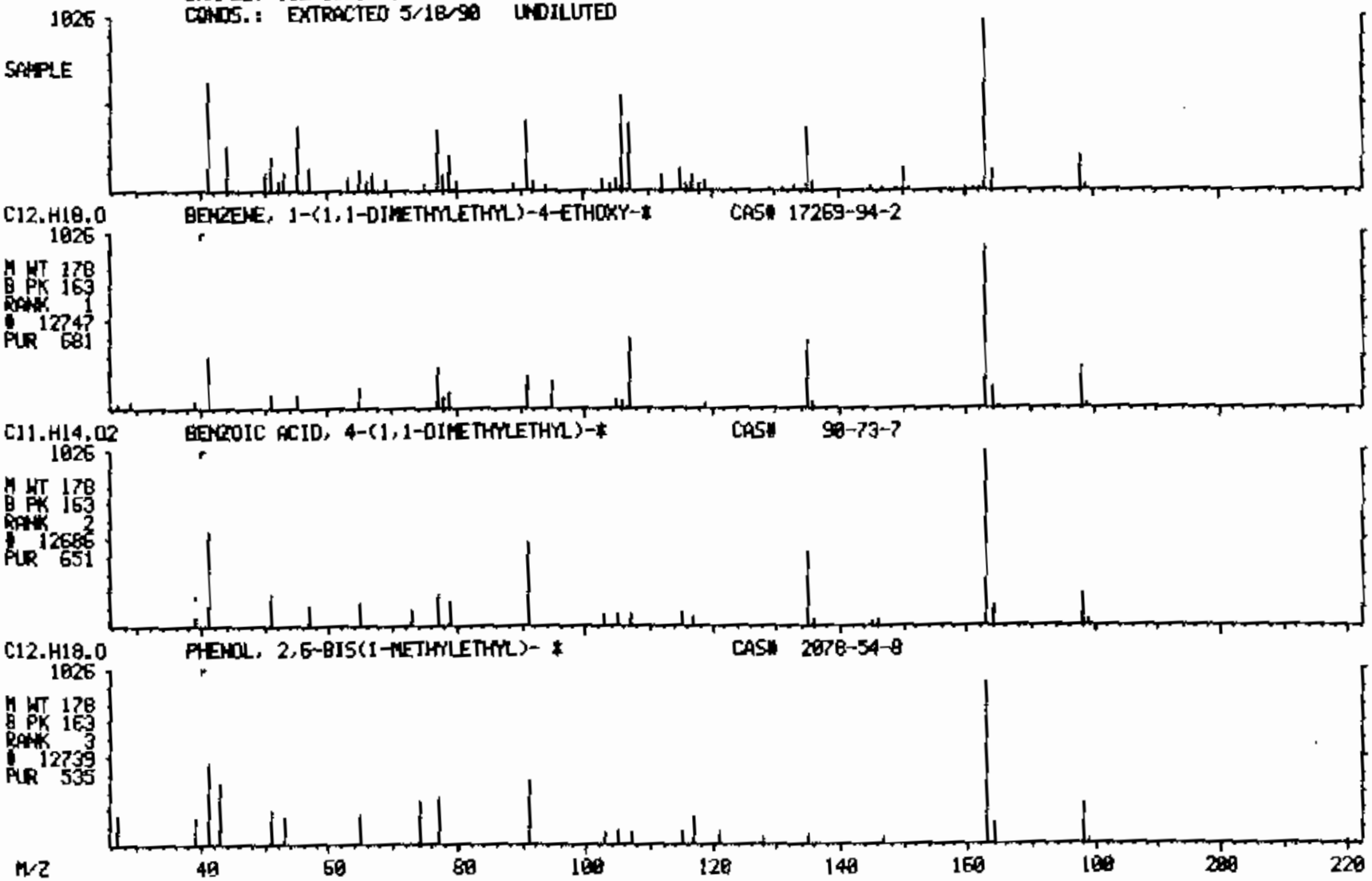
NIO LIBRARY SEARCH
DATA: GR037847C07 # 748 BASE M/Z: 138
ENHANCED (100 2N 0T) RIC: 203775.
OH 7



COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GR037047C07 # 750 BASE M/Z: 163
ENHANCED (100 2M 0T) RIC: 105727.
OH 7

05/21/90 12:16:00 + 11:17
SAMPLE: 1UL CC#337047 ID#73000112 CS#20124
CONDS.: EXTRACTED 5/18/90 UNDILUTED

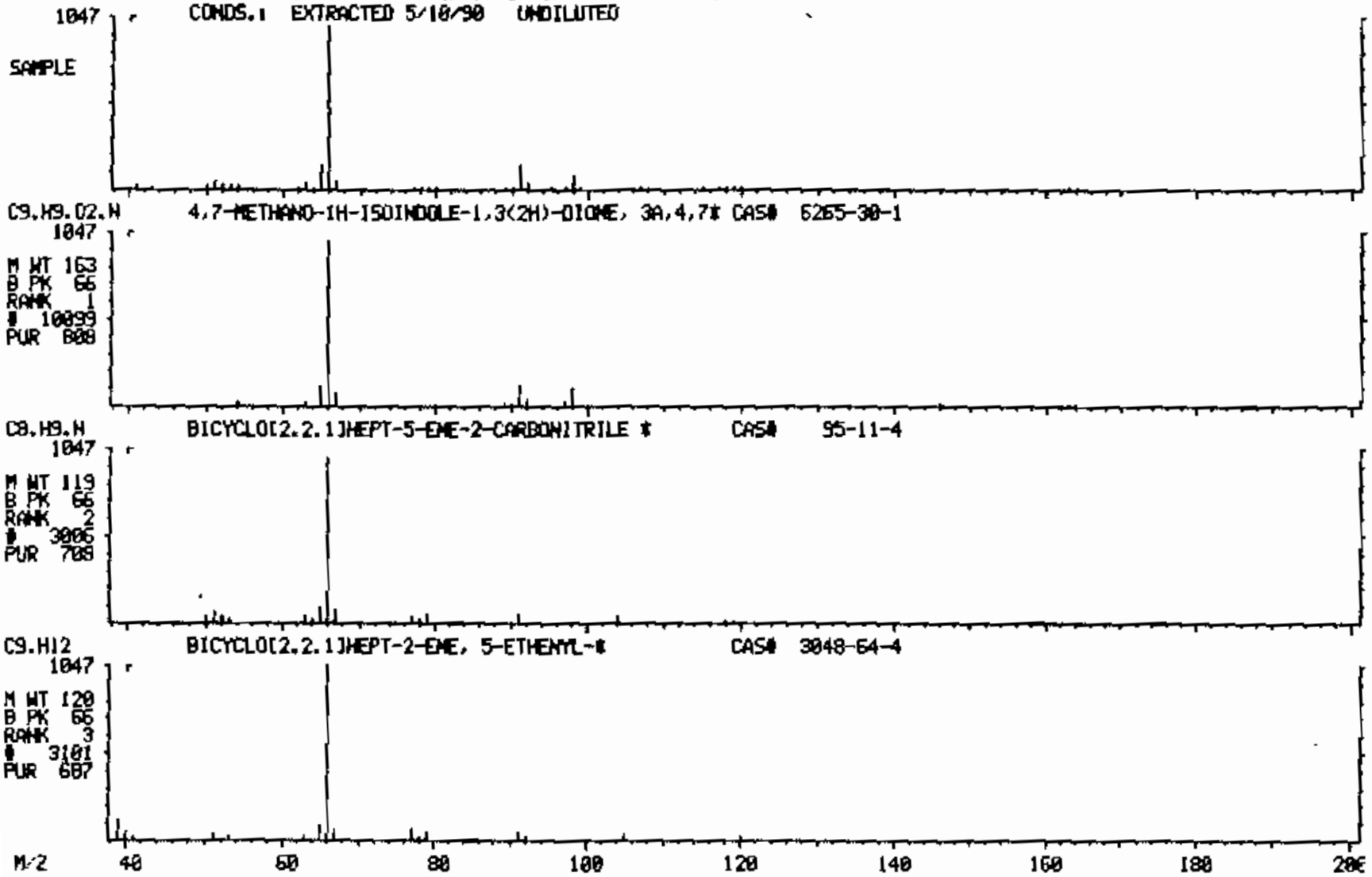


NYDEC RA090 0507 ORGANIC

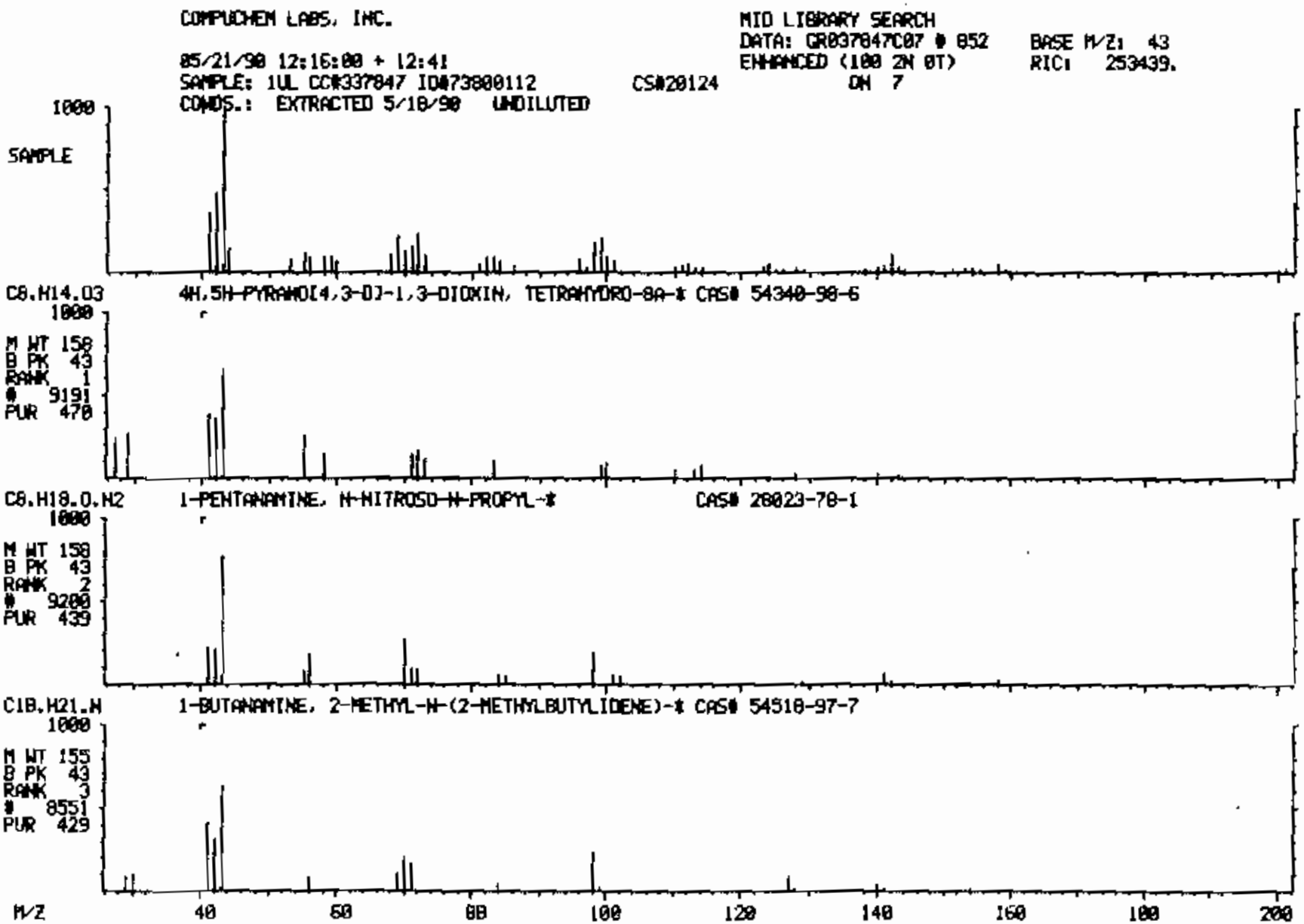
COMPUCHEM LABS, INC.

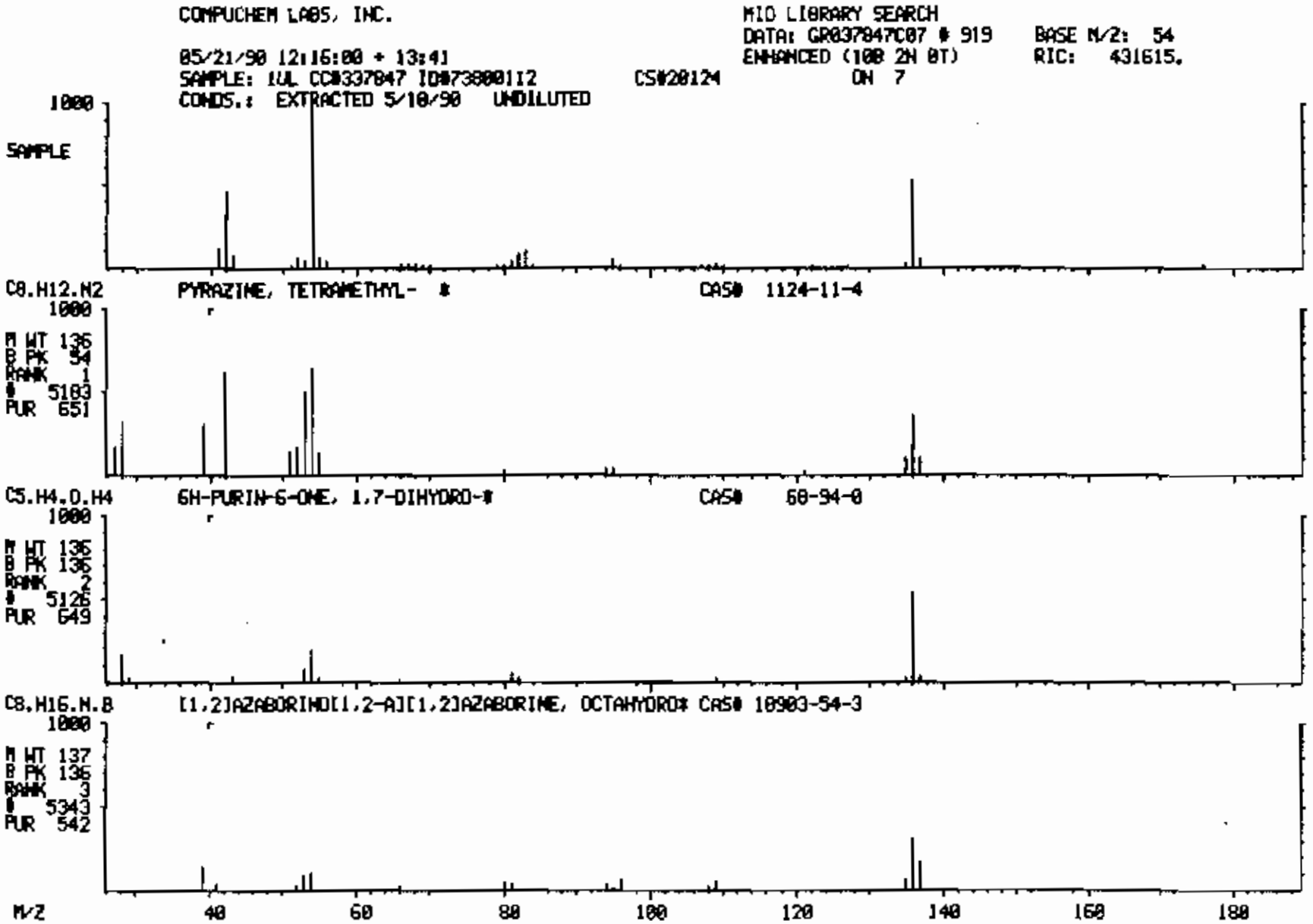
MID LIBRARY SEARCH
DATA: GR037847C07 # 709 BASE M/Z: 66
ENHANCED (100 2N 0T) RIC: 361471.
ON 7

05/21/90 12:16:00 + 11:42
SAMPLE: 1UL CC#337847 ID#73800112 CS#20124
CONDS.: EXTRACTED 5/10/90 UNDILUTED



NYDEC RA090 0507 ORGANIC


COMPUCHEM LABS, INC.
MID LIBRARY SEARCH
DATA: GR037047C07 # 852
BASE M/Z: 43
ENHANCED (100 2N 0T)
RIC: 253439.
05/21/90 12:16:00 + 12:41
ON 7
SAMPLE: 1UL CC#337047 ID#73000112
CS#20124
COMDS.: EXTRACTED 5/10/90 UNDILUTED
1000
SAMPLE
C8.H14.O3
4H,5H-PYRANO[4,3-D]-1,3-DIOXIN, TETRAHYDRO-8A-* CAS# 54340-98-6
1000
M WT 158
B PK 43
RANK 1
9191
PUR 470
C8.H18.O.N2
1-PENTANAMINE, N-NITROSO-N-PROPYL-*
CAS# 28823-78-1
1000
M WT 158
B PK 43
RANK 2
9200
PUR 439
C1B.H21.N
1-BUTANAMINE, 2-METHYL-N-(2-METHYLBUTYLIDENE)-* CAS# 54518-97-7
1000
M WT 155
B PK 43
RANK 3
8551
PUR 429
M/Z
40
60
80
100
120
140
160
180
200


COMPUCHEM LABS, INC.
MID LIBRARY SEARCH
DATA: GR037847C07 # 919
BASE M/Z: 54
ENHANCED (100 2N 0T)
RIC: 431615.
05/21/90 12:16:00 + 13:41
SAMPLE: 1UL CC#337847 ID#73000112
CS#20124
ON 7
CONDS.: EXTRACTED 5/10/90 UNDILUTED
1000
SAMPLE
C8.H12.N2
PYRAZINE, TETRAMETHYL- #
CAS# 1124-11-4
1000
M WT 136
B PK 54
RANK 1
5183
PUR 651
C5.H4.O.H4
6H-PURIN-6-ONE, 1,7-DIHYDRO-#
CAS# 68-94-0
1000
M WT 136
B PK 136
RANK 2
5126
PUR 649
C8.H16.N.B
[1,2]AZABORINO[1,2-A][1,2]AZABORINE, OCTAHYDRO# CAS# 18903-54-3
1000
M WT 137
B PK 136
RANK 3
5343
PUR 542
M/Z
40
60
80
100
120
140
160
180

MAST5-6

LAB INSTRUCTIONS:

CASE#: 20124 DUE DATE:

GC/MS WORKSHEET COMPUCHEM#: 337847 R1[ ] R1[X] D1[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

SEMI-VOA + L.S. 3rd Ed SW-846, METHOD 8270
S-V EXTRACTION, EPA/METHOD 3510
LOW LEVEL LIQUID

[redacted]

Sample Prep Code---079
Instrument Code----280
Compound List------379
Surrogate Std------393
Internal Std-------035

15 PEAK LIBRARY SEARCH REQUIRED

BAT#: EPA#: 7380011 2

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid ul
Internal Standard Volume Added 5.0 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 5/18/90
DFTPP Filename DF900521C07 Disk ( )
Standard Filename HH900521C07 Disk ( )
Sample Filename GRU3784.7C07 Disk ( )

ANALYST(S): Injection 9/7 RC Work-up

GC/MS REVIEW

CONDITION CODE: DI

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SU,CT,CS,PC,OT,NS ED,IF,LA,DI,CO,RN,DW,DA

Disposition: [✓] Complete

[ ] Reinjection required

[ ] Reextraction required

[✓] Dilute (10) :1)

[ ] Reinject Neat

[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 25

# of Hits: 11

# of Surrogate Outliers: 0

Duality Assurance Notice(s):

Notices Required

GC/MS Review [signature] Date 5/24/90 Auditor Date / /

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): CP..C07 / [redacted] C20..N07

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

AC516 (06/87)

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: ASD Arnetta Downing

DATE ASSIGNED 5/14/90

EMP ID NUMBER 1733

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL.(ml) SV B/N	FINAL EXTRACT VOL.(ml) ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337472R	-079	19698	8052 07005			183	500ml	0.5	0.5	13	1	All samples Use 500ml sample volume for BN only
5/14 2	337649R		20124	73500 109			183	500ml	0.5	0.5	13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337647R		20124	23150 Quot#14			189	500ml	0.5	0.5	13	1	Conc. to 0.5ml final volume All add ml validation spike to BN only
4													
5													
6													
7													
8													
9													
10													
11													
12													
13	340532	↓		SBLK	B1		N/A	500ml	0.5	0.5	13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	0.5ml				
	LOT	32071				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

MANUAL COUNTER 510/901

FINAL VOLUME VERIFIED Arnetta S Downing

SUPERVISOR REVIEWED Tatalha M. Williams

EXTRACTS RECEIVED BY Luther T. Bottoy

SURROGATE & SPIKE ADDED CORRECTLY DP 5/18/90 (INT / DATE)

ISSUED BY: 1733

611

NYDEC RA090 0507 ORGANIC

COMPUCHEM # 037847 FILE: GR037847C07 COMPOUND LIST 170 PAGE

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	482	121000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	1
481	79		PYRIDINE (Z9#1)				BDL	1
509	69		ETHYLMETHACRYLATE (T1#4)			2.7	3J	1
542	89		PARALDEHYDE (Z9#3)				BDL	1
510	93		2-PICOLINE (Z9#56)				BDL	2
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1
543	80		METHYL METHANE SULFONATE (Z			1.2	1J	1
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	1
514	109		ETHYL METHANESULFONATE (Z9#				BDL	1
610	94		PHENOL (G1#3)				BDL	1
473	93		ANILINE (G1#4)			1180.0	1200E	1
505	167		PENTACHLOROETHANE (Z9#8)				BDL	1
411	93		BIS(2-CHLOROETHYL)ETHER (G1			1700.0	1700E	2
601	128		2-CHLOROPHENOL (G1#6)				BDL	1
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	1
506	91		BENZYL CHLORIDE (Z9#9)			5.6	6J	1
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	1
474	108		BENZYL ALCOHOL (G1#9)			1.4	1J	1
420	146		1,2-DICHLOROBENZENE (G1#10)			2.2	2J	1
620	108		2-METHYLPHENOL (G1#11)				BDL	1
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	1
621	108		3-METHYLPHENOL (F1#2)			3.3	3J	1
622	108		4-METHYLPHENOL (G1#13)			3.3	3J	1
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	1
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	1
500	105		ACETOPHENONE (Z9#11)			2.2	2J	1
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	1
512	106		O-TOLUIDINE HYDROCHLORIDE (			14.7	15	1
436	117		HEXACHLOROETHANE (G1#15)			3.7	4J	1
460	136	I	D8-NAPHTHALENE (IS#2)	598	366000	40.0		
440	77		NITROBENZENE (G1#16)			2.4	2J	1
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	1
438	82		ISOPHORONE (G2#2)				BDL	1
603	107		2,4-DIMETHYLPHENOL (G2#4)			5.7	6J	1
606	139		2-NITROPHENOL (G2#3)				BDL	1
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	1
518	125		BENZAL CHLORIDE (Z9#16)			2.4	2J	1
625	122		BENZOIC ACID (G2#5)				BDL	10
410	93		BIS(2-CHLOROETHOXY)METHANE			4.7	5J	1
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	1
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	1
439	128		NAPHTHALENE (G2#9)			8.2	8J	1

CORRECTED/REVIEWED BY _____
(QC/MB DATA REVIEWER)

DATE 5/4/90

COMPUCHEM # 037847 FILE: QRO37847C07 COMPOUND LIST 170 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (B2#10)			2.2	2J	1
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	2
524	108		O-PHENYLENEDIAMINE (Z9#19)			~~49.4~~	~~49~~	1
519	91		ALPHA,ALPHA DIMETHYLPHENETH			~~13.7~~	~~14~~	1
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	1
434	225		HEXACHLOROBUTADIENE (B2#11)				BDL	1
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	1
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	2
536	84		N-NITROSO-DI-N-BUTYLAMINE (			~~12.6~~	~~12~~	1
608	107		P-CHLORO-M-CRESOL (B2#12)				BDL	1
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	1
503	162		SAFROLE (Z9#27)				BDL	1
525	108		M-PHENYLENEDIAMINE (Z9#26)			~~39.4~~	~~39~~	1
477	142		2-METHYLNAPHTHALENE (B2#13)			1.1	1J	1
569	142		1-METHYLNAPHTHALENE (T2#28)			1.3	1J	1
495	164	I	DIO-ACENAPHTHENE (IS#3)	768	218000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	1
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	1
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	1
611	196		2,4,6-TRICHLOROPHENOL (B3#3				BDL	2
626	196		2,4,5-TRICHLOROPHENOL (B3#4				BDL	2
527	162		ISOSAFROLE (Z9#30)				BDL	2
416	162		2-CHLORONAPHTHALENE (B3#5)				BDL	1
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	1
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	1
478	65		2-NITROANILINE (B3#6)				BDL	1
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	2
491	168		1,4-DINITROBENZENE (F3#2)				BDL	2
425	163		DIMETHYL PHTHALATE (B3#7)				BDL	1
428	165		2,6-DINITROTOLUENE (B3#15)				BDL	1
402	152		ACENAPHTHYLENE (B3#8)			~~2.3~~	~~3J~~	1
479	138		3-NITROANILINE (B3#9)				BDL	2
401	153		ACENAPHTHENE (B3#10)				BDL	1
605	184		2,4-DINITROPHENOL (B3#11)				BDL	4
607	109		4-NITROPHENOL (B3#12)			~~4.1~~	~~4J~~	1
427	165		2,4-DINITROTOLUENE (B3#14)				BDL	1
476	168		DIBENZOFURAN (B3#13)				BDL	1
307	290		PENTACHLOROBENZENE (Z9#33)				BDL	1
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	2
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	2
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	2
424	149		DIETHYL PHTHALATE (B3#16)				BDL	1
519	97		ZINOPHOB (Z9#38)				BDL	1

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5/24/90

COMPUCHEM # 037847 FILE: GR037847C07 COMPOUND LIST 17D PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)	
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL		1
432	166		FLUORENE (G3#18)				BDL		1
480	138		4-NITROANILINE (G3#19)			1.2	10		2
498	152		5-NITRO-O-TOLUIDINE (I9#34)				BDL		2
430	77		1,2-DIPHENYLHYDRAZINE (AIOB				BDL		1
467	188	I	D10-PHENANTHRENE (IS#4)	913	327000	40.0			
459	240	I	D12-CHRYSENE (IS#5)	1186	250000	40.0			
497	264	I	D12-PERYLENE (IS#6)	1428	207000	40.0			
619	112	S	2-FLUOROPHENOL (SS#1)			80.0	40.%		
612	99	S	D5-PHENOL (SS#2)			87.9	44.%		
447	82	S	D5-NITROBENZENE (SS#3)			89.3	89.%		
448	172	S	2-FLUOROBIPHENYL (SS#4)			91.3	91.%		
628	329	S	2,4,6-TRIBROMOPHENOL (SS#5)			151.0	75.%		
471	212	S	D10-PYRENE (SS#6)			106.0	106.%		
496	244	S	D14-TERPHENYL (SS#7)			113.0	113.%		
CHECKSUMS:									
14269.				5379	1489000.	4041.4		3100.	

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5/24/88

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	80.0	200.0	40.	21-100	X
96	612	D5-PHENOL (SS#2)	87.9	200.0	44.	10- 94	X
97	447	D5-NITROBENZENE (SS#3)	89.3	100.0	89.	35-114	X
98	448	2-FLUOROBIPHENYL (SS#4)	91.3	100.0	91.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	151.0	200.0	75.	10-123	X
*1	471	D10-PYRENE (SS#6)	106.0	100.0	106.	40-130*	X
*1	496	D14-TERPHENYL (SS#7)	113.0	100.0	113.	33-141	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{500\ \text{UL}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE _____

COMPUCHEM # 037847 FILE: GR037847C07 COMPOUND LIST 173 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	1	D10-PHENANTHRENE (IS#4)	913	327000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	1
567	169		DIPHENYLAMINE (F3#3)				BDL	1
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	2
539	108		PHENACETIN (Z9#42)				BDL	1
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1
577	234		DIALLATE (TRANS ISOMER)				BDL	1
341	125		DIMETHOATE (Z9#44)				BDL	1
433	284		HEXACHLOROBENZENE (Q4#5)				BDL	1
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	1
322	173		PRONAMIDE (Z9#46)				BDL	1
609	266		PENTACHLOROPHENOL (Q4#6)				BDL	2
453	237		PENTACHLORONITROBENZENE (Z9				BDL	1
444	178		PHENANTHRENE (Q4#7)				BDL	1
403	178		ANTHRACENE (Q4#8)				BDL	1
426	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL	1
516	97		METHAPYRILENE (Z9#48)				BDL	2
349	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	5
431	202		FLUORANTHENE (Q4#10)				BDL	1
459	240	I	D12-CHRYSENE (IS#5)	1186	250000	40.0		
404	184		BENZIDINE (Q5#2)				BDL	1
445	202		PYRENE (Q5#3)				BDL	1
530	185		ARAMITE (Z9#50)			~~1.9~~	~~2J~~	2
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1
523	139		CHLOROBENZILATE (Z9#52)				BDL	1
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	2
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	1
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	1
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	1
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	1
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	1
405	228		BENZO(A)ANTHRACENE (Q5#6)				BDL	1
418	228		CHRYSENE (Q5#8)				BDL	1
497	264	I	D12-PERYLENE (IS#6)	1428	207000	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	1
407	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	1
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1
409	252		BENZO(K)FLUORANTHENE (Q6#4)				BDL	1
406	252		BENZO(A)PYRENE (Q6#5)				BDL	1
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	1
566	279		DIBENZO(A,J)ACRIDINE				BDL	1

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5/24/90

HYDEC RA090 0507 ORGANIC

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	1
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	1
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	1
576	234		DIALLATE (CIS ISOMER)				BDL	1
531	234		DIALLATE (TOTAL)				BDL	1
CHECKSUMS:								
10115.				3527	784000.	121.9		2.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5/11/90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5/14/20

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

71800112DL

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337847

Sample wt/vol: 500 (g/mL) ML Lab File ID: G2D37847B07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/18/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/22/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: ~~15~~ 30 RN 5/31/90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	300	U
97-63-2	Ethyl methacrylate	300	U
62-75-9	N-Nitrosodimethylamine	300	U
123-63-7	Paraldehyde	300	U
109-06-8	2-Picoline	600	U
10595-95-6	Nitrosomethylethylamine	300	U
66-27-3	Methyl methanesulfonate	300	U
108-95-2	Phenol	300	U
55-18-5	N-Nitrosodiethylamine	300	U
62-50-5	Ethyl methanesulfonate	300	U
62-53-3	Aniline	2600	D
76-01-7	Pentachloroethane	300	U
111-44-4	bis(2-Chloroethyl)Ether	600	U
95-57-8	2-Chlorophenol	300	U
541-73-1	1,3-Dichlorobenzene	300	U
100-44-7	Benzyl chloride	300	U
106-46-7	1,4-Dichlorobenzene	300	U
100-51-6	Benzyl Alcohol	300	U
95-50-1	1,2-Dichlorobenzene	300	U
95-48-7	2-Methylphenol	300	U
39638-32-9	bis(2-Chloroisopropyl)Ether	300	U
108-39-4	3-Methylphenol	300	U
106-44-5	4-Methylphenol	300	U
930-55-2	N-Nitrosopyrrolidine	300	U
59-89-2	N-Nitrosomorpholine	300	U
98-86-2	Acetophenone	300	U
621-64-7	N-Nitroso-Di-n-Propylamine	300	U
636-21-5	o-Toluidine hydrochloride	300	U
67-72-1	Hexachloroethane	300	U
98-95-3	Nitrobenzene	300	U
100-75-4	N-Nitrosopiperidine	300	U
78-59-1	Isophorone	300	U
88-75-5	2-Nitrophenol	300	U
105-67-9	2,4-Dimethylphenol	300	U

108-70-3--------1,3,5-Trichlorobenzene	300	U
98-87-3---------Benzal chloride	300	U
65-85-0---------Benzoic Acid	3000	U
111-91-1--------bis(2-Chloroethoxy)Methane	300	U
120-83-2--------2,4-Dichlorophenol	300	U
120-82-1--------1,2,4-Trichlorobenzene	300	U
91-20-3---------Naphthalene	300	U
106-47-8--------4-Chloroaniline	300	U
87-65-0---------2,6-Dichlorophenol	600	U
95-54-5---------o-Phenylenediamine	300	U
122-09-8--------dimethylphenylethylamine	300	U
1888-71-7-------Hexachloropropene	300	U
87-68-3---------Hexachlorobutadiene	300	U
87-61-6---------1,2,3-Trichlorobenzene	300	U
98-07-7---------Benzotrichloride	600	U
924-16-3--------N-Nitroso-di-n-butylamine	300	U
59-50-7---------4-Chloro-3-Methylphenol	300	U
106-50-3--------P-Phenylenediamine	300	U
94-59-7---------Safrole	300	U
106-50-3--------m-Phenylenediamine	300	U
91-57-6---------2-Methylnaphthalene	300	U
90-12-0---------1-Methylnaphthalene	300	U
95-94-3---------1,2,4,5-Tetrachlorobenzene	300	U
634-90-2--------1,2,3,5-Tetrachlorobenzene	300	U
77-47-4---------Hexachlorocyclopentadiene	300	U
88-06-2---------2,4,6-Trichlorophenol	600	U
95-95-4---------2,4,5-Trichlorophenol	600	U
120-58-1--------Isosafrole	600	U
91-58-7---------2-Chloronaphthalene	300	U
90-13-1---------1-Chloronaphthalene	300	U
634-66-2--------1,2,3,4-Tetrachlorobenzene	300	U
88-74-4---------2-Nitroaniline	300	U
130-15-4--------1,4-Naphthoquinone	600	U
100-25-4--------1,4-Dinitrobenzene	600	U
131-11-3--------Dimethyl Phthalate	300	U
208-96-8--------Acenaphthylene	300	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

71800112DL

Lab Name: COMPUCHEM LABS Contract: 12-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337847

Sample wt/vol: 500 (g/mL) ML Lab File ID: G2D37847B07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/18/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/22/90

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.30 5/23/90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	600	U
83-32-9	Acenaphthene	300	U
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	300	U
132-64-9	Dibenzofuran	300	U
121-14-2	2,4-Dinitrotoluene	300	U
608-93-5	Pentachlorobenzene	300	U
134-32-7	2-Naphthylamine	600	U
606-20-2	2,6-Dinitrotoluene	300	U
134-32-7	1-Naphthylamine	600	U
58-90-2	2,3,4,6-Tetrachlorophenol	600	U
84-66-2	Diethylphthalate	300	U
297-97-2	Zinophos	300	U
7005-72-3	4-Chlorophenyl-phenylether	300	U
86-73-7	Fluorene	300	U
100-01-6	4-Nitroaniline	600	U
99-55-8	5-Nitro-o-toluidine	600	U
534-52-1	4,6-Dinitro-2-Methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine (1)	300	U
122-39-4	Diphenylamine	300	U
99-35-4	1,3,5-Trinitrobenzene	600	U
122-66-7	1,2-Diphenylhydrazine	300	U
62-44-2	Phenacetin	300	U
101-55-3	4-Bromophenyl-phenylether	300	U
2303-16-4	Diallate	300	U
60-51-5	Dimethoate	300	U
118-74-1	Hexachlorobenzene	300	U
92-67-1	4-Aminobiphenyl	300	U
23950-58-5	Pronamide	300	U
87-86-5	Pentachlorophenol	600	U
82-68-8	Pentachloronitrobenzene	300	U
85-01-8	Phenanthrene	300	U
120-12-7	Anthracene	300	U
84-74-2	Di-n-Butylphthalate	300	U

(1) - Cannot be separated from Diphenylamine

91-80-5---------Methapyrilene	600	U
50-18-0---------Cyclophosphamide	1500	U
206-44-0---------Fluoranthene	300	U
92-87-5---------Benzidine	300	U
129-00-0---------Pyrene	300	U
140-57-8---------Aramite	600	U
60-11-7---------p-Dimethylaminoazobenzene	300	U
510-15-6---------Chlorobenzilate	300	U
119-93-7---------3,3'-Dimethylbenzidine	600	U
85-68-7---------Butylbenzylphthalate	300	U
53-96-3---------2-Acetylaminofluorene	300	U
101-14-4---------Methylene-bis(2-chloroaniline	300	U
91-94-1---------3,3'-Dichlorobenzidine	300	U
106-51-4---------3,3'-Dimethoxybenzidine	300	U
56-55-3---------Benzo(a)Anthracene	300	U
218-01-9---------Chrysene	300	U
117-81-7---------bis(2-Ethylhexyl)Phthalate	300	U
117-84-0---------Di-n-Octyl Phthalate	300	U
205-99-2---------Benzo(b)Fluoranthene	300	U
57-97-6---------7,12-Dimethylbenzanthracene	300	U
207-08-9---------Benzo(k)Fluoranthene	300	U
50-32-8---------Benzo(a)Pyrene	300	U
56-49-5---------3-Methylcholanthrene	300	U
224-42-0---------Dibenzo(a,j)acridine	300	U
193-39-5---------Indeno(1,2,3-cd)Pyrene	300	U
53-70-3---------Dibenz(a,h)Anthracene	300	U
191-24-2---------Benzo(g,h,i)Perylene	300	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800112DL

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337847

Sample wt/vol: 500 (g/mL) ML Lab File ID: G2D37847B07

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/18/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/22/90 5/23/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: ~~15~~ 30

Number TICs found: 3

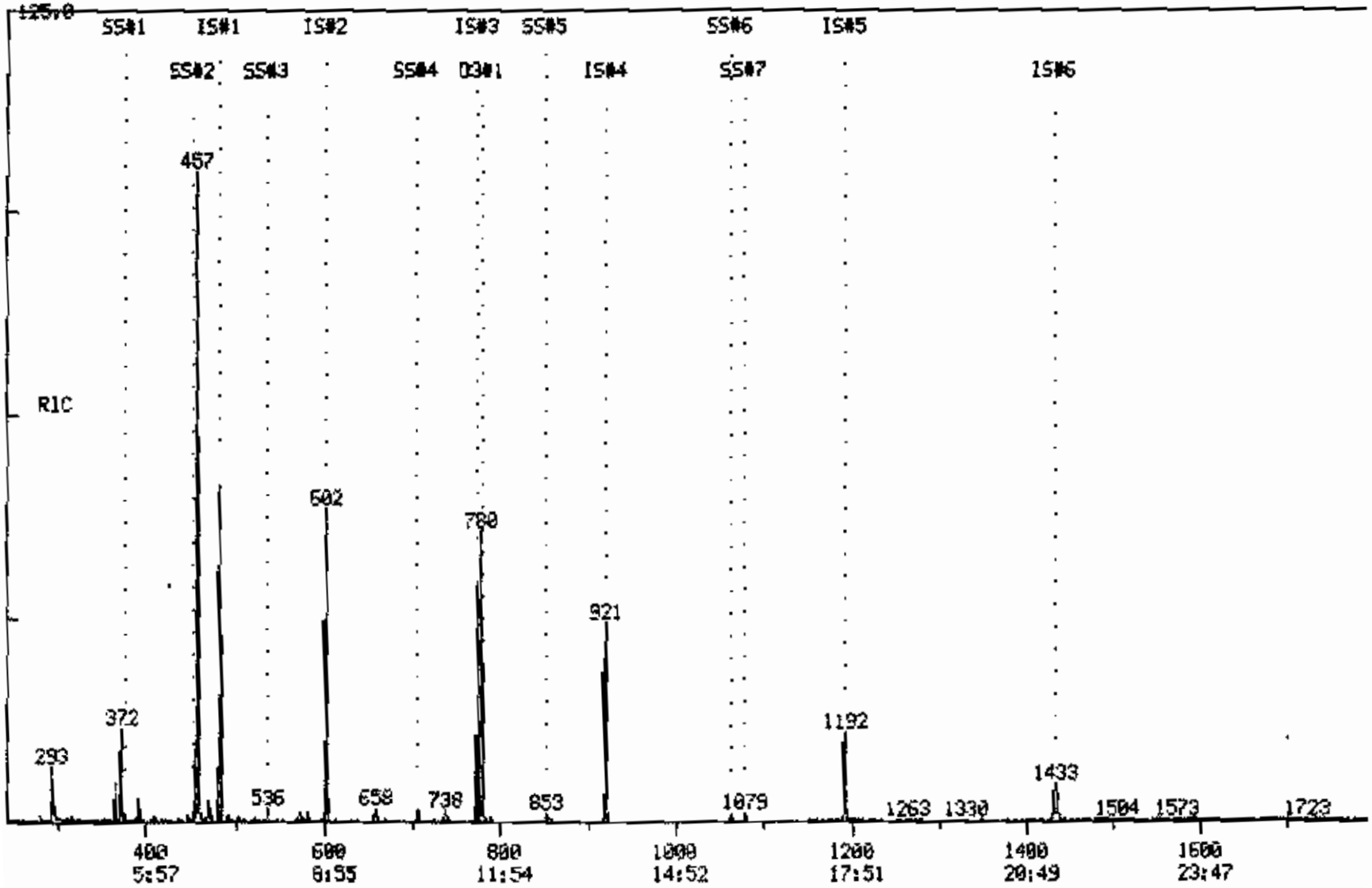
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.38	360	J
2.		VOA TCL	5.47	180	J
3.		VOA TCL	5.57	450	J

COMPUCHEM LABS

RIC
05/22/90 18:57:00
SAMPLE: 1UL CC#337847 ID#730001120L CS#20124 ON 7
CONDS.: EXTRACTED 05/18/90 1: 30 DILUTION

COMPUCHEM DATA: G2D37847007 SCANS 240 TO 1790
OUT OF 240 TO 1900



COMPUCHEM LABS

RIC
05/22/90 18:57:00
SAMPLE: 1UL CC#337047 ID#7300011ZDL CS#20124 ON 7
CONDS.: EXTRACTED 05/18/90 1: 30 DILUTION

COMPUCHEM DATA: G2D37047007 SCANS 1790 TO 1900
OUT OF 240 TO 1900

3553278.

1824

SCAN
TIME

```
QUANTITATION REPORT     FILE: G2D37847807
DATA: G2D37847807.TI
05/22/90 18:57:00
SAMPLE: 1UL CC#337847 ID#7J8001120L        CB#20124              DN  7
CONDS.:  EXTRACTED 05/18/90  1: 30 DILUTION
SUBMITTED BY:       7        ANALYST:      1090

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  #494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  481 PYRIDINE (Z9#1)
  4   509 ETHYLMETHACRYLATE (T1#4)
  5  542 PARALDEHYDE (Z9#3)
  6  510 2-PICOLINE (Z9#56)
  7  535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
  8  543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
  9  499 N-NITROSODIETHYLAMINE (Z9#6)
 10  514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
 11  610 PHENOL (G1#3) <108-95-2>
 12  473 ANILINE (G1#4) <62-53-3>
 13  505 PENTACHLOROETHANE (Z9#8)
 14  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
 15  601 2-CHLOROPHENOL (G1#6) <95-57-8>
 16  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
 17  506 BENZYL CHLORIDE (Z9#9)
 18  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
 19  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 20  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 21  620 2-METHYLPHENOL (G1#11) <95-48-7>
 22  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 23  621 3-METHYLPHENOL (F1#2) <108-39-4>
 24  622 4-METHYLPHENOL (G1#13) <106-44-5>
 25  528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
 26  544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
 27  500 ACETOPHENONE (Z9#11)
 28  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 29  512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
 30  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 31  #460 D8-NAPHTHALENE (IS#2)
 32  440 NITROBENZENE (G1#16) <98-95-3>
 33  502 N-NITROSODIPIPERIDINE (Z9#14)
 34  438 ISOPHORONE (G2#2) <78-59-1>
 35  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 36  606 2-NITROPHENOL (G2#3) <88-75-5>
 37  451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
 38  518 BENZAL CHLORIDE (Z9#16) <98-87-3>
 39  625 BENZOIC ACID (G2#5) <65-85-0>
 40  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 41  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 42  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 43  439 NAPHTHALENE (G2#9) <91-20-3>
 44  475 4-CHLOROANILINE (G2#10) <106-47-8>
 45  631 2,6-DICHLOROPHENOL (Z9#18)
 46  524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>
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NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (I8#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	@605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLORDPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (I8#4)
93	*459 D12-CHRYSENE (I8#5)
94	*497 D12-PERYLENE (I8#6)
95	#619 2-FLUOROPHENOL (S8#1)
96	#612 D5-PHENOL (S8#2)
97	#447 D5-NITROBENZENE (S8#3)
98	#448 2-FLUOROBIPHENYL (S8#4)
99	#628 2,4,6-TRIBROMOPHENOL (S8#5)
100	#471 D10-PYRENE (S8#6)
101	#496 D14-TERPHENYL (S8#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	483	7:11	1	1.000	A BB	242300.	40.000	NG	9.79
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	457	6:48	1	0.946	A BB	102628.	9.090	NG	2.22
12	93	457	6:48	1	0.946	A BB	1240690.	85.879	NG	21.02
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	602	8:57	31	1.000	A BV	689812.	40.000	NG	9.79
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	602	8:57	31	1.000	A BB	134304.	30.112	NG	12.27
47	91	NOT FOUND								
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	658	9:47	31	1.093	A BB	13344.	1.807	NG	0.44
54	108	658	9:47	31	1.093	A BB	1368.	2.205	NG	0.54
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	775	11:31	59	1.000	A BB	384468.	40.000	NQ	9.79
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	921	13:42	92	1.000	A BB	539252.	40.000	NQ	9.79
93	240	1192	17:43	93	1.000	A BB	324288.	40.000	NQ	9.79
94	264	1433	21:18	94	1.000	A BV	311544.	40.000	NQ	9.79
95	112	375	5:35	1	0.776	A BB	21640.	2.461	NQ	0.60
96	99	453	6:44	1	0.938	A BB	26692.	2.584	NQ	0.63
97	82	536	7:58	31	0.890	A BB	25788.	2.441	NQ	0.60
98	172	707	10:31	59	0.912	A BB	32692.	2.426	NQ	0.59
99	330	853	12:41	59	1.101	A BB	6504.	3.404	NQ	0.83
100	212	1063	15:48	93	0.892	A BB	27832.	2.863	NQ	0.70
101	244	1079	16:03	93	0.905	A BB	28244.	3.288	NQ	0.80

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:11	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.514	
3	3:50		10.000			50.00		1.491	
4	4:27		10.000			50.00		1.760	
5	4:27		10.000			50.00		0.385	
6	4:49		20.000			50.00		1.791	
7	5:00		10.000			200.00		0.383	
8	5:23		10.000			50.00		1.602	
9	5:52		10.000			90.00		0.779	

NYDEC RA090 0507 ORGANIC

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:15		10.000			50.00		0.814	
11	6:45	1.01	10.000	0.09	9.09	50.00	0.339	1.864	0.18
12	6:48	1.00	10.000	0.09	85.86	50.00	4.096	2.385	1.72
13	6:48		10.000			50.00		0.682	
14	6:51		20.000			50.00		1.645	
15	6:57		10.000			50.00		1.480	
16	7:07		10.000			50.00		1.647	
17	7:13		10.000			50.00		3.958	
18	7:12		10.000			50.00		1.671	
19	7:22		10.000			50.00		0.925	
20	7:27		10.000			50.00		1.364	
21	7:33		10.000			50.00		1.265	
22	7:36		10.000			50.00		1.408	
23	7:44		10.000			100.00		1.498	
24	7:44		10.000			100.00		1.498	
25	7:45		10.000			50.00		0.782	
26	7:46		10.000			50.00		0.368	
27	7:45		10.000			50.00		2.464	
28	7:47		10.000			50.00		1.518	
29	7:49		10.000			50.00		1.443	
30	7:53		10.000			50.00		1.004	
31	8:57	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	8:00		10.000			50.00		0.628	
33	8:12		10.000			50.00		0.195	
34	8:19		10.000			50.00		1.051	
35	8:29		10.000			50.00		0.556	
36	8:26		10.000			50.00		0.234	
37	8:27		10.000			50.00		0.438	
38	8:29		10.000			50.00		0.915	
39	8:34		100.000			50.00		0.060	
40	8:37		10.000			50.00		0.503	
41	8:45		10.000			50.00		0.334	
42	8:53		10.000			50.00		0.405	
43	8:59		10.000			50.00		1.200	
44	9:04		10.000			50.00		0.562	
45	9:05		20.000			50.00		0.380	
46	8:57	1.00	10.000	0.10	50.11	50.00	0.156	0.155	1.00
47	9:04		10.000			50.00		0.131	
48	9:09		10.000			50.00		0.347	
49	9:14		10.000			50.00		0.287	
50	9:14		10.000			50.00		0.404	
51	9:19		20.000			50.00		0.681	
52	9:35		10.000			50.00		0.200	
53	9:44	1.00	10.000	0.11	1.81	50.00	0.015	0.426	0.04
54	9:35	1.02	10.000	0.11	2.20	50.00	0.002	0.036	0.04
55	9:51		10.000			50.00		0.322	
56	9:51		10.000			50.00		0.106	
57	9:58		10.000			50.00		1.018	
58	10:08		10.000			50.00		0.446	
59	11:31	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	10:16		10.000			100.00		0.736	
61	10:16		10.000			100.00		0.736	
62	10:17		10.000			50.00		0.465	
63	10:27		20.000			50.00		0.454	
64	10:27		20.000			50.00		0.449	
65	10:35		20.000			90.00		0.498	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
66	10:41		10.000			50.00		1.525	
67	10:43		10.000			50.00		1.142	
68	10:41		10.000			50.00		0.696	
69	10:51		10.000			50.00		0.510	
70	10:56		20.000			50.00		0.295	
71	11:01		20.000			50.00		0.215	
72	11:09		10.000			50.00		1.559	
73	11:15		10.000			50.00		0.309	
74	11:18		10.000			50.00		1.813	
75	11:28		20.000			50.00		0.298	
76	11:34		10.000			50.00		1.181	
77	11:37		40.000			50.00		0.139	
78	11:41		10.000			50.00		0.338	
79	11:50		10.000			50.00		0.458	
80	11:47		10.000			50.00		1.702	
81	11:49		10.000			50.00		0.643	
82	11:55		20.000			50.00		0.996	
83	12:01		20.000			50.00		1.037	
84	12:02		20.000			50.00		0.315	
85	12:11		10.000			50.00		1.588	
86	12:19		10.000			50.00		0.403	
87	12:17		10.000			50.00		0.623	
88	12:18		10.000			50.00		1.366	
89	12:21		20.000			50.00		0.288	
90	12:21		20.000			50.00		0.315	
91	12:31		10.000			50.00		2.134	
92	13:41	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	17:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	21:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:35	1.00	0.742	1.05	2.46	50.00	0.071	1.452	0.05
96	6:44	1.00	0.948	0.99	2.58	50.00	0.088	1.705	0.05
97	7:58	1.00	0.875	1.02	2.44	50.00	0.030	0.613	0.05
98	10:31	1.00	0.906	1.01	2.43	50.00	0.068	1.402	0.05
99	12:41	1.00	1.118	0.98	3.40	90.00	0.014	0.199	0.07
100	15:48	1.00	10.000	0.09	2.86	50.00	0.069	1.199	0.06
101	16:02	1.00	0.907	1.00	3.29	50.00	0.070	1.060	0.07

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QUANTITATION REPORT     FILE: G2D37B47B07
DATA: G2D37B47B07.TI
05/22/90 18:57:00
SAMPLE: IUL CC#337847 ID#73800112DL        CS#20124              DN  7
CONDS.:   EXTRACTED 05/18/90  1: 30 DILUTION
SUBMITTED BY:       7        ANALYST:      1090

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO   NAME
  1   *467 D10-PHENANTHRENE (IS#4)
  2   604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
  3   443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
  4   567 DIPHENYLAMINE (F3#3)
  5   508 1,3,5-TRINITROBENZENE (Z9#41)
  6   539 PHENACETIN (Z9#42) <63-44-2>
  7   414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
  8   577 DIALLATE (TRANS ISOMER)
  9   541 DIMETHOATE (Z9#44)
 10   433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
 11   485 4-AMINOBIPHENYL (Z9#45)
 12   522 PRONAMIDE (Z9#46)
 13   609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
 14   493 PENTACHLORONITROBENZENE (Z9#47)
 15   444 PHENANTHRENE (Q4#7) <85-01-8>
 16   403 ANTHRACENE (Q4#8) <120-12-7>
 17   426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
 18   516 METHAPYRILENE (Z9#48)
 19   549 CYCLOPHOSPHAMIDE (Z9#49)
 20   431 FLUORANTHENE (Q4#10) <206-44-0>
 21   *459 D12-CHRYSENE (IS#5)
 22   404 BENZIDINE (Q5#2) <92-87-5>
 23   445 PYRENE (Q5#3) <129-00-0>
 24   530 ARAMITE (Z9#50) <140-57-4>
 25   487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26   523 CHLOROBENZILATE (Z9#52)
 27   545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28   415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
 29   488 2-ACETYLAMINO FLUORENE (F5#2)
 30   489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31   423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
 32   533 DIMETHOXYBENZIDINE (Z9#57)
 33   413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
 34   405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
 35   418 CHRYSENE (Q5#8) <218-01-9>
 36   *497 D12-PERYLENE (IS#6)
 37   429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
 38   407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
 39   517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40   409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
 41   406 BENZO(A)PYRENE (Q6#5) <50-32-8>
 42   565 3-METHYLCHLORANTHRENE (F6#2)
 43   566 DIBENZO(A,J)ACRIDINE
 44   437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
 45   419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
 46   408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
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NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	188	921	13:42	1	1.000	A BB	539252.	40.000 NG	33.34
2	198	NOT FOUND							
3	169	NOT FOUND							
4	169	NOT FOUND							
5	213	NOT FOUND							
6	108	NOT FOUND							
7	248	NOT FOUND							
8	234	NOT FOUND							
9	125	NOT FOUND							
10	284	NOT FOUND							
11	169	NOT FOUND							
12	173	NOT FOUND							
13	266	NOT FOUND							
14	237	NOT FOUND							
15	178	NOT FOUND							
16	178	NOT FOUND							
17	149	NOT FOUND							
18	97	NOT FOUND							
19	211	NOT FOUND							
20	202	NOT FOUND							
21	240	1192	17:43	21	1.000	A BB	324268.	40.000 NG	33.34
22	184	NOT FOUND							
23	202	NOT FOUND							
24	185	NOT FOUND							
25	225	NOT FOUND							
26	139	NOT FOUND							
27	212	NOT FOUND							
28	149	NOT FOUND							
29	181	NOT FOUND							
30	231	NOT FOUND							
31	252	NOT FOUND							
32	244	NOT FOUND							
33	149	NOT FOUND							
34	228	NOT FOUND							
35	228	NOT FOUND							
36	264	1433	21:18	36	1.000	A BV	311544.	40.000 NG.	33.34
37	149	NOT FOUND							
38	252	NOT FOUND							
39	256	NOT FOUND							
40	252	NOT FOUND							
41	252	NOT FOUND							
42	268	NOT FOUND							
43	279	NOT FOUND							
44	276	NOT FOUND							
45	278	NOT FOUND							
46	276	NOT FOUND							
47	234	NOT FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	13:41	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	12:26		30.000			50.00		0.139	
3	12:28		10.000			100.00		0.746	
4	12:28		10.000			100.00		0.746	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:53		20.000			50.00		0.081	
6	12:57		10.000			50.00		0.440	
7	13:00		10.000			50.00		0.275	
8	12:56		10.000			25.00		0.144	
9	13:13		10.000			50.00		0.162	
10	13:14		10.000			50.00		0.353	
11	13:24		10.000			50.00		0.734	
12	13:30		10.000			50.00		0.460	
13	13:29		20.000			50.00		0.195	
14	13:36		10.000			50.00		0.167	
15	13:43		10.000			50.00		1.216	
16	13:47		10.000			50.00		1.129	
17	14:33		10.000			50.00		1.412	
18	15:01		20.000			50.00		0.252	
19	15:19		50.000			200.00		0.070	
20	15:30		10.000			50.00		1.193	
21	17:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	15:39		10.000			50.00		0.192	
23	15:50		10.000			50.00		1.389	
24	16:00		20.000			50.00		0.093	
25	16:15		10.000			50.00		0.249	
26	16:20		10.000			50.00		0.704	
27	16:45		20.000			50.00		0.549	
28	16:46		10.000			50.00		0.677	
29	17:10		10.000			50.00		0.387	
30	17:35		10.000			50.00		0.198	
31	17:37		10.000			50.00		0.276	
32	17:34		10.000			50.00		0.255	
33	17:43		10.000			50.00		1.110	
34	17:41		10.000			50.00		1.119	
35	17:45		10.000			50.00		0.973	
36	21:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	19:00		10.000			50.00		1.441	
38	20:10		10.000			50.00		1.208	
39	20:11		10.000			50.00		0.347	
40	20:12		10.000			50.00		0.773	
41	21:08		10.000			50.00		0.900	
42	22:25		10.000			50.00		0.391	
43	24:47		10.000			50.00		0.848	
44	25:39		10.000			50.00		1.223	
45	25:44		10.000			50.00		1.007	
46	26:57		10.000			50.00		1.002	
47	13:04		10.000			25.00		0.242	

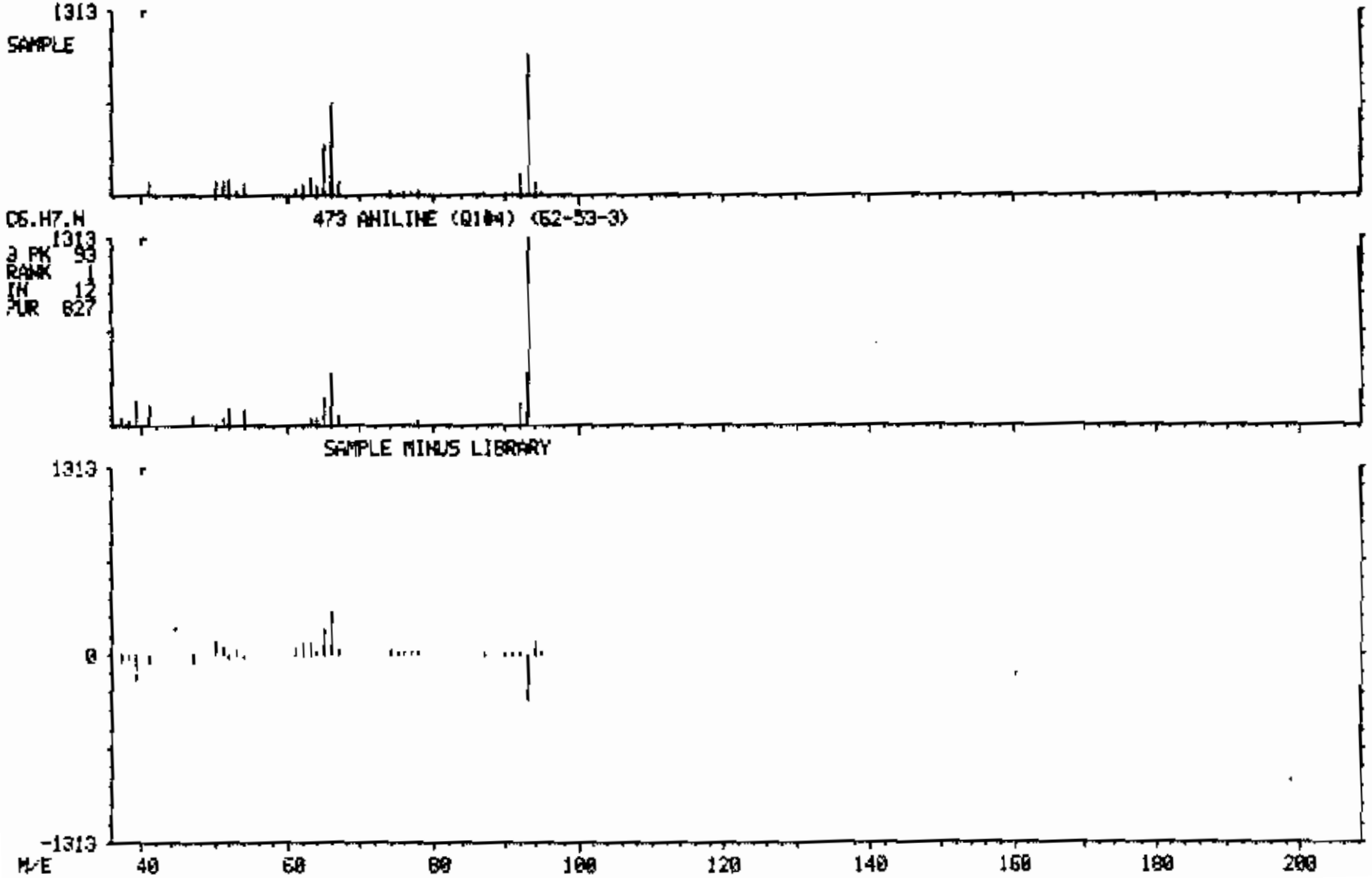
COMPUCHEM LABS

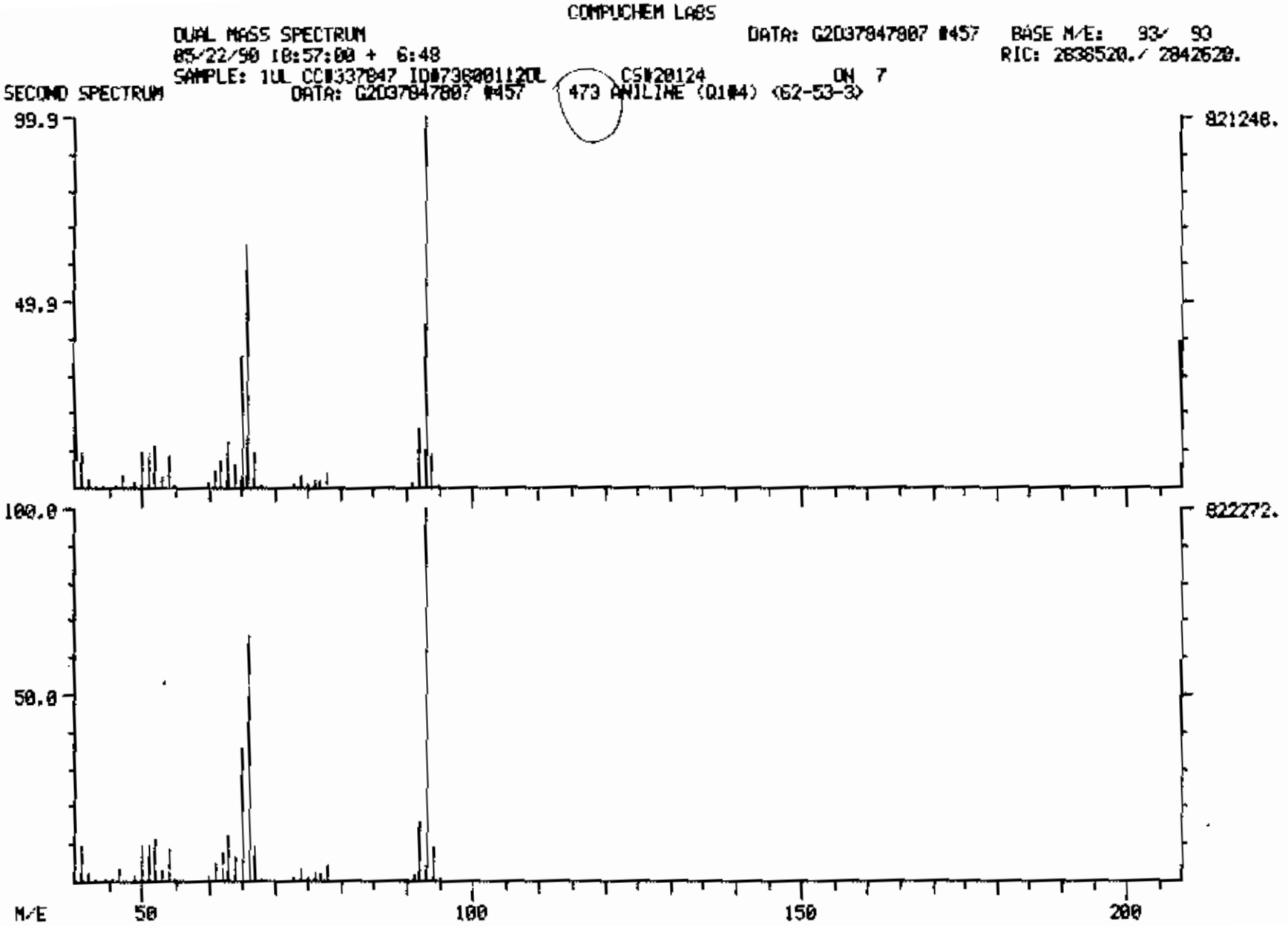
LIBRARY SEARCH
05/22/90 18:57:00 + 6:48
SAMPLE: 1UL CC#337047 ID#73000112DL

DATA: G2D37047B07 @ 457
ENHANCED (100 2N 0T)
ON 7

BASE M/E: 93
RIC: 2727930.

CS#20124




COMPUCHEM LABS
DUAL MASS SPECTRUM
05/22/90 18:57:00 + 6:48
SAMPLE: 1UL CC#337847 ID#736001120L
DATA: G2037847807 #457
CS#20124
ON 7
473 ANILINE (Q1#4) (62-53-3)
DATA: G2037847807 #457
BASE M/E: 93/ 93
RIC: 2838520./ 2842520.
SECOND SPECTRUM
99.9
49.9
821248.
100.0
50.0
822272.
M/E
50
100
150
200

COMPUCHEM LABS, INC.

05/22/90 18:57:00 + 4:21
SAMPLE: 1UL CC#337847 ID#73000112DL CS#20124
CONDS.: EXTRACTED 05/18/90 1: 30 DILUTION

MID LIBRARY SEARCH
DATA: G2037047007 # 293 BASE M/Z: 44
ENHANCED (100 2H 0T) RIC: 229375.
ON 7

1186
SAMPLE

C3.H10.N2 1,2-ETHANEDIAMINE, N-METHYL-* CAS# 109-81-9
1186
M WT 74
B PK 44
RANK 1
294
PUR 552

C6.H16.N4 1,2,4,5-TETRAZINE, HEXAHYDRO-1,2,4,5-TETRAMETH* CAS# 20717-38-8
1186
M WT 144
B PK 43
RANK 3
6472
PUR 512

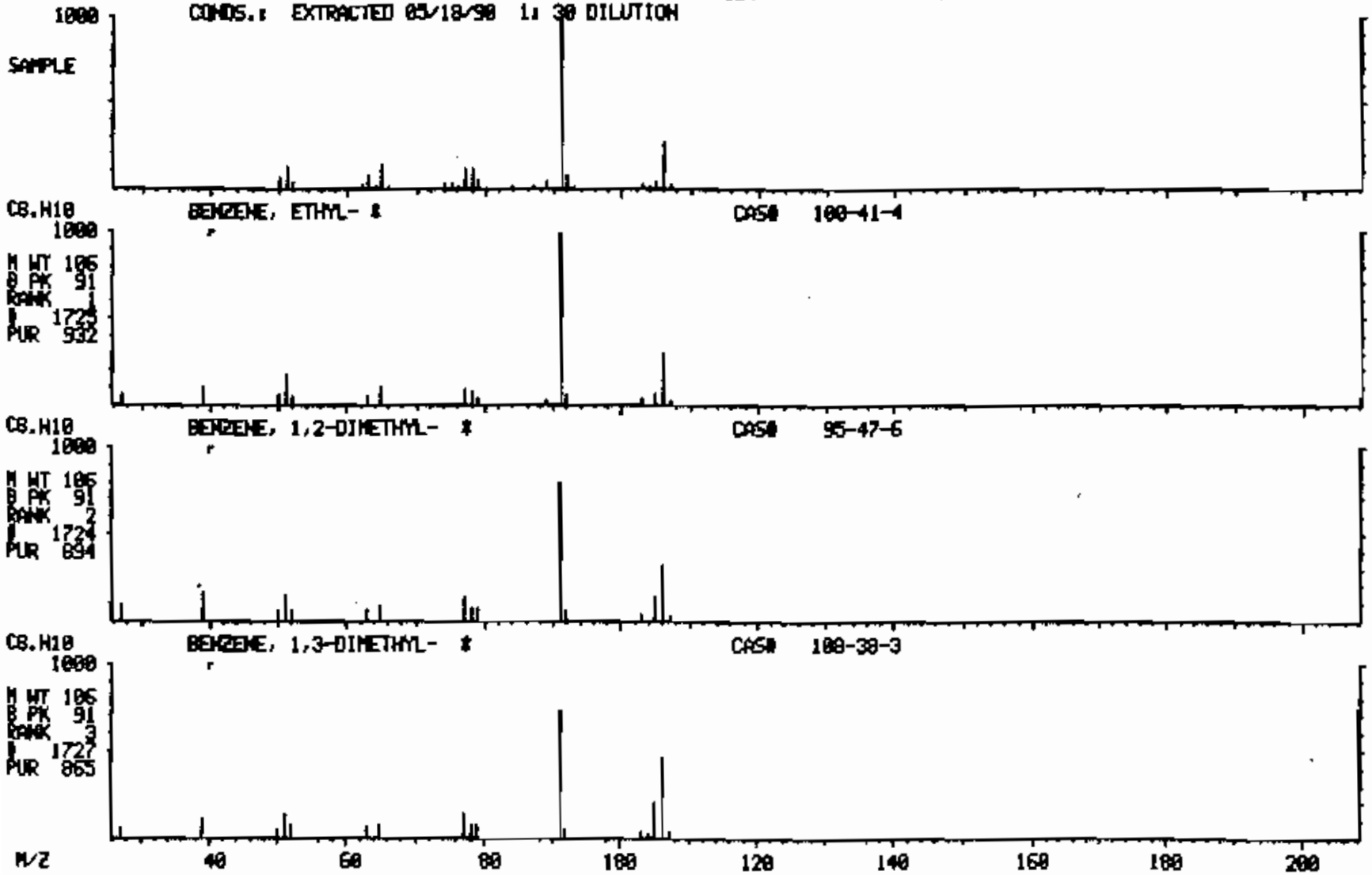
C5.H13.02.N METHANAMINE, 1,1-DIMETHOXY-N,N-DIMETHYL-* CAS# 4637-24-5
1186
M WT 119
B PK 44
RANK 3
2990
PUR 472

M/Z 40 60 80 100 120 140

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: G2037047007 # 365 BASE M/Z: 91
ENHANCED (100 2M 0T) RIC: 169447.
ON 7

05/22/90 10:57:00 + 5:25
SAMPLE: 1UL CC#337047 ID#738001120L CS#20124
COMDS.: EXTRACTED 05/18/90 1: 30 DILUTION



COMPUCHEM LABS, INC.

05/22/90 10:57:00 + 5:32
SAMPLE: 1UL CC#337847 ID#7380811201 CS#20124
CONDS.: EXTRACTED 05/18/90 1: 30 DILUTION

MID LIBRARY SEARCH
DATA: G2037847B07 # 372 BASE M/Z: 91
ENHANCED (100 2N 0T) RIC: 397823.
ON 7

1186
SAMPLE

C8.H10 BENZENE, 1,2-DIMETHYL- * CAS# 95-47-6
1186
M WT 106
B PK 91
RANK 1
1724
PUR 925

C8.H10 BENZENE, ETHYL- * CAS# 100-41-4
1186
M WT 106
B PK 91
RANK 2
1725
PUR 918

C8.H10 BENZENE, 1,3-DIMETHYL- * CAS# 108-38-3
1186
M WT 106
B PK 91
RANK 3
1727
PUR 904

M/Z 30 40 50 60 70 80 90 100

LAB INSTRUCTIONS: MAST 5-6

CASE#: 20124 DUE DATE:

GC/MS WORKSHEET COMPUCHEM#: 347547 RD2 J1[ ] R1[✓] D1[ ] (:1)

J2[ ] R2[ ] D2[✓] (30 :1)

SEMI-VOA + L.S.,3rd Ed SW-846,METHOD 8270
S-V EXTRACTION EPA/METHOD 3510
LOW LEVEL ~~SOLID~~ LIQUID

15 PEAK LIBRARY SEARCH REQUIRED

Sample Prep Code--- -17(
Instrument Code------28(
Compound List--------37(
Surrogate Std--------39
Internal Std---------03

SAS#: SAMPLE ID#: 7380011 2 DL Dry Weight Factor N/A

GC/MS ANALYSIS 30:1
Volumes mixed: BN ul Acid ul
Internal Standard Volume Added 50 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 5/18/90
DFTPP Filename DF900522B07 Disk ( )
Standard Filename H1900522B07 Disk ( )
Sample Filename G2037547B07 Disk ( )

ANALYST(S): Injection 1090 Dillon Work-up 1090

GC/MS REVIEW

CONDITION CODE: D4

Entry Codes DK,EA,JA, ES,AL,AH,PL,PH,FL,J
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,D
ED,IF,LA,DI,CD,RN,DW,NS

Disposition: [✓] Complete

Extraneous Peak Search Results: Coupl 5/23/90

# of Peaks Found: 3

# of Hits: 1

# of Surrogate Outliers: ~~1~~ 0 - To Mike M.

Quality Assurance Notice(s):

Notices Required 1

[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

GC/MS Review Date 5/24/90 Auditor Date / /

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): GD 07 / 6 cap

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

AC485 (03/86)

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: Arnetta Downing (A S D)

DATE ASSIGNED 5/14/90

EMP ID NUMBER 1733

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOLUME SV B/N	FINAL EXTRACT VOLUME ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337WR	-079	19698	Bos2 07005			183	500ml	0.5	0.5	13	1	All Samples Use 30ml sample volume for 625 only
2	337649R		20124	73700 109			183	500ml	0.5	0.5	13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337647R		20124	23700 Portl2			189	500ml	0.5	0.5	13	1	Conc. to 0.5ml final volume AA
4													add ml validation spike to 625 only
5													
6													
7													
8													
9													
10													
11													
12													
13	340522			SBLK 93	B1		n/a	500ml	0.5	0.5	13	1	

5/9 2 3 & 13

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	0.5ml				
	LOT	32071				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

MANUAL COUNTER 510/901

FINAL VOLUME VERIFIED Arnetta S Downing

SUPERVISOR REVIEWED Natalka M. Zelechowski

EXTRACTS RECEIVED BY Ruth T. Roth

SURROGATE & SPIKE ADDED CORRECTLY DP 5/18/90 (INT / DATE)

ISSUED BY: _____ 1733

581

NYDEC RA090 0507 ORGANIC

COMPUCHEM # D37847 FILE: G2D37847B07 COMPOUND LIST 170 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	P	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	1	D4-1,4-DICHLOROBENZENE (IS#	483	242000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	300
481	79		PYRIDINE (Z9#1)				BDL	300
509	69		ETHYLMETHACRYLATE (T1#4)				BDL	300
542	89		PARALDEHYDE (Z9#3)				BDL	300
510	93		2-PICOLINE (Z9#56)				BDL	600
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	300
543	80		METHYL METHANE SULPONATE (Z				BDL	300
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	300
514	109		ETHYL METHANESULFONATE (Z9#				BDL	300
610	94		PHENOL (G1#3)			~~9.1~~	~~270J~~	300
473	93		ANILINE (G1#4)			85.9	2600 D	300
505	167		PENTACHLOROETHANE (Z9#8)				BDL	300
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	600
601	128		2-CHLOROPHENOL (G1#6)				BDL	300
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	300
506	91		BENZYL CHLORIDE (Z9#9)				BDL	300
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	300
474	108		BENZYL ALCOHOL (G1#9)				BDL	300
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	300
620	108		2-METHYLPHENOL (G1#11)				BDL	300
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	300
621	108		3-METHYLPHENOL (P1#2)				BDL	300
622	108		4-METHYLPHENOL (G1#13)				BDL	300
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	300
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	300
500	105		ACETOPHENONE (Z9#11)				BDL	300
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	300
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	300
436	117		HEXACHLOROETHANE (G1#15)				BDL	300
460	136	I	D8-NAPHTHALENE (IS#2)	602	690000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	300
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	300
438	82		ISOPHORONE (G2#2)				BDL	300
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	300
606	139		2-NITROPHENOL (G2#3)				BDL	300
451	180		1,3,5-TRICHLOROBENIENE (Z9#				#DL	300
518	125		BENZAL CHLORIDE (Z9#16)				BDL	300
625	122		BENZOIC ACID (G2#5)				BDL	3000
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	300
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	300
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	300
439	128		NAPHTHALENE (G2#9)				BDL	300

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5/4/90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLOROANILINE (02#10)				BDL	300
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	600
524	108		O-PHENYLENEDIAMINE (Z9#19)			~~59.1~~	~~1500~~	300
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	300
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	300
434	225		HEXACHLOROBUTADIENE (02#11)				BDL	300
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	300
534	139		BENZOTRICHLORIDE (Z9#23)				BDL	600
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	300
608	107		P-CHLORO-M-CREBOL (02#12)			~~1.8~~	~~54J~~	300
526	108		P-PHENYLENEDIAMINE (Z9#20)			~~2.2~~	~~66J~~	300
503	162		SAFROLE (Z9#27)				BDL	300
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	300
477	142		2-METHYLNAPHTHALENE (02#13)				BDL	300
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	300
498	164	I	D10-ACENAPHTHENE (IS#3)	775	384000	40.0		
497	216		1,2,4,5-TETRACHLOROBENZENE				BDL	300
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	300
439	237		HEXACHLOROCYCLOPENTADIENE (				BDL	300
611	196		2,4,6-TRICHLOROPHENOL (03#3				BDL	600
626	196		2,4,5-TRICHLOROPHENOL (03#4				BDL	600
527	162		ISOSAFROLE (Z9#30)				BDL	600
416	162		2-CHLORONAPHTHALENE (03#5)				BDL	300
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	300
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	300
478	65		2-NITROANILINE (03#6)				BDL	300
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	600
491	168		1,4-DINITROBENZENE (F3#2)				BDL	600
425	163		DIMETHYL PHTHALATE (03#7)				BDL	300
428	165		2,6-DINITROTOLUENE (03#15)				BDL	300
402	152		ACENAPHTHYLENE (03#8)				BDL	300
479	138		3-NITROANILINE (03#9)				BDL	600
401	153		ACENAPHTHENE (03#10)				BDL	300
605	184		2,4-DINITROPHENOL (03#11)				BDL	1200
607	109		4-NITROPHENOL (03#12)				BDL	300
427	165		2,4-DINITROTOLUENE (03#14)				BDL	300
476	168		DIBENZOFURAN (03#13)				BDL	300
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	300
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	600
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	600
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	600
424	149		DIETHYL PHTHALATE (03#16)				BDL	300
519	97		ZINOPHOS (Z9#38)				BDL	300

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 6/4/10

COMPUCHEM # D37847 FILE: G2D37847B07 COMPOUND LIST 170 PAGE

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	30(
432	166		FLUORENE (G3#18)				BDL	30(
480	138		4-NITROANILINE (G3#19)				BDL	60(
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	60(
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	30(
467	188	I	D10-PHENANYHRENE (IS#4)	921	539000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1192	324000	40.0		
497	264	I	D12-PERYLENE (IS#6)	1433	312000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			2.5	38.%	
612	99	S	D5-PHENOL (SS#2)			2.6	39.%	
447	82	S	D5-NITROBENZENE (SS#3)			2.4	72.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			2.4	72.%	
628	329	S	2,4,6-TRIBROMOPHENOL (SS#5)			3.4	51.%	
471	212	S	D10-PYRENE (SS#6)			2.9	87.%	
496	244	S	D14-YERPHENYL (SS#7)			3.3	99.%	
CHECKSUMS:								
	14269.			5406	2491000.	408.6		4490.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE _____

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	2.5	6.7	38.	21-100	%
96	612	D5-PHENOL (SS#2)	2.6	6.7	39.	10- 94	%
97	447	D5-NITROBENZENE (SS#3)	2.4	3.3	72.	35-114	%
98	448	2-FLUOROBIPHENYL (SS#4)	2.4	3.3	72.	43-116	%
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	3.4	6.7	51.	10-123	%
*1	471	D10-PYRENE (SS#6)	2.9	3.3	87.	40-130*	%
*1	496	D14-TERPHENYL (SS#7)	3.3	3.3	99.	33-141	%

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 30.0 \times 1 = 30.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{500\ \text{UL}} \times 0.5\text{ML} \times 30.0 \times 1 = 30.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5/20/92

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (I6#4)	921	539000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	900
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	300
567	169		DIPHENYLAMINE (F3#3)				BDL	300
506	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	600
539	108		PHENACETIN (Z9#42)				BDL	300
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	300
577	234		DIALLATE (TRANS ISOMER)				BDL	300
541	125		DIMETHOATE (Z9#44)				BDL	300
433	284		HEXACHLOROBENZENE (G4#5)				BDL	300
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	300
522	173		PRONAMIDE (Z9#46)				BDL	300
609	266		PENTACHLOROPHENOL (G4#6)				BDL	600
453	237		PENTACHLORONITROBENZENE (Z9				BDL	300
444	178		PHENANTHRENE (G4#7)				BDL	300
403	178		ANTHRACENE (G4#8)				BDL	300
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	300
516	97		METHAPYRILENE (Z9#48)				BDL	600
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	1500
431	202		FLUORANTHENE (G4#10)				BDL	300
459	240	I	D12-CHRYSENE (I5#5)	1192	324000	40.0		
404	184		BENZIDINE (G5#2)				BDL	300
445	202		PYRENE (G5#3)				BDL	300
530	185		ARAMITE (Z9#50)				BDL	600
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	300
523	139		CHLOROBENZILATE (Z9#52)				BDL	300
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	600
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	300
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	300
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	300
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	300
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	300
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	300
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	300
418	228		CHRYSENE (G5#8)				BDL	300
497	264	I	D12-PERYLENE (I5#6)	1433	312000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	300
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	300
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	300
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	300
406	252		BENZO(A)PYRENE (G6#5)				BDL	300
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	300
566	279		DIBENZO(A,J)ACRIDINE				BDL	300

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5/11/90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL	30
419	278		DIBENZO(A,H)ANTHRACENE (Q6#				BDL	30
408	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	30
576	234		DIALLATE (CIS ISOMER)				BDL	30
531	234		DIALLATE (TOTAL)				BDL	30
CHECKSUMS:								
10115.				3546	1175000.	120.0		0.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE _____

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 30.0 \times 1 = 30.000$$

VERSION 9

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 6/4/90

QUALITY ASSURANCE NOTICE
CompuChem # 33747
Client ID # 7360112
Case # 2027

A dilution of the 5X fraction of this sample was required in order to achieve accurate and discernible results by GC/MS analysis (usually to prevent detector saturation). As a result, detection limits are elevated, while surrogate compounds may be diluted to concentrations below these limits. In such cases, surrogate recovery data cannot be calculated.

data reviewer: [signature]
date: 1/24/89

QANBS
870903

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800113

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337850

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037850A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

(1) - Cannot be separated from Diphenylamine

108-70-3	1,3,5-Trichlorobenzene	10	U
98-87-3	Benzal chloride	10	U
65-85-0	Benzoic Acid	100	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-65-0	2,6-Dichlorophenol	20	U
95-54-5	o-Phenylenediamine	10	U
122-09-8	dimethylphenylethylamine	10	U
1888-71-7	Hexachloropropene	10	U
87-68-3	Hexachlorobutadiene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
98-07-7	Benzotrichloride	20	U
924-16-3	N-Nitroso-di-n-butylamine	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
106-50-3	P-Phenylenediamine	10	U
94-59-7	Safrole	10	U
106-50-3	m-Phenylenediamine	10	U
91-57-6	2-Methylnaphthalene	10	U
90-12-0	1-Methylnaphthalene	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
634-90-2	1,2,3,5-Tetrachlorobenzene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	20	U
120-58-1	Isosafrole	20	U
91-58-7	2-Chloronaphthalene	10	U
90-13-1	1-Chloronaphthalene	10	U
634-66-2	1,2,3,4-Tetrachlorobenzene	10	U
88-74-4	2-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	20	U
100-25-4	1,4-Dinitrobenzene	20	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800113

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337850

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037850A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5	Methapyrilene	20	U
50-18-0	Cyclophosphamide	50	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	10	U
129-00-0	Pyrene	10	U
140-57-8	Aramite	20	U
60-11-7	p-Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
53-96-3	2-Acetylaminofluorene	10	U
101-14-4	Methylene-bis(2-chloroaniline	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
106-51-4	3,3'-Dimethoxybenzidine	10	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
57-97-6	7,12-Dimethylbenzanthracene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
56-49-5	3-Methylcholanthrene	10	U
224-42-0	Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUHDS

EPA SAMPLE NO.

73800113

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337850

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH037850A22

Level: (low/med) LOW Date Received: 05/09/90

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

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/16/90

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

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.77	32	J
2.		UNKNOWN	6.48	36	J

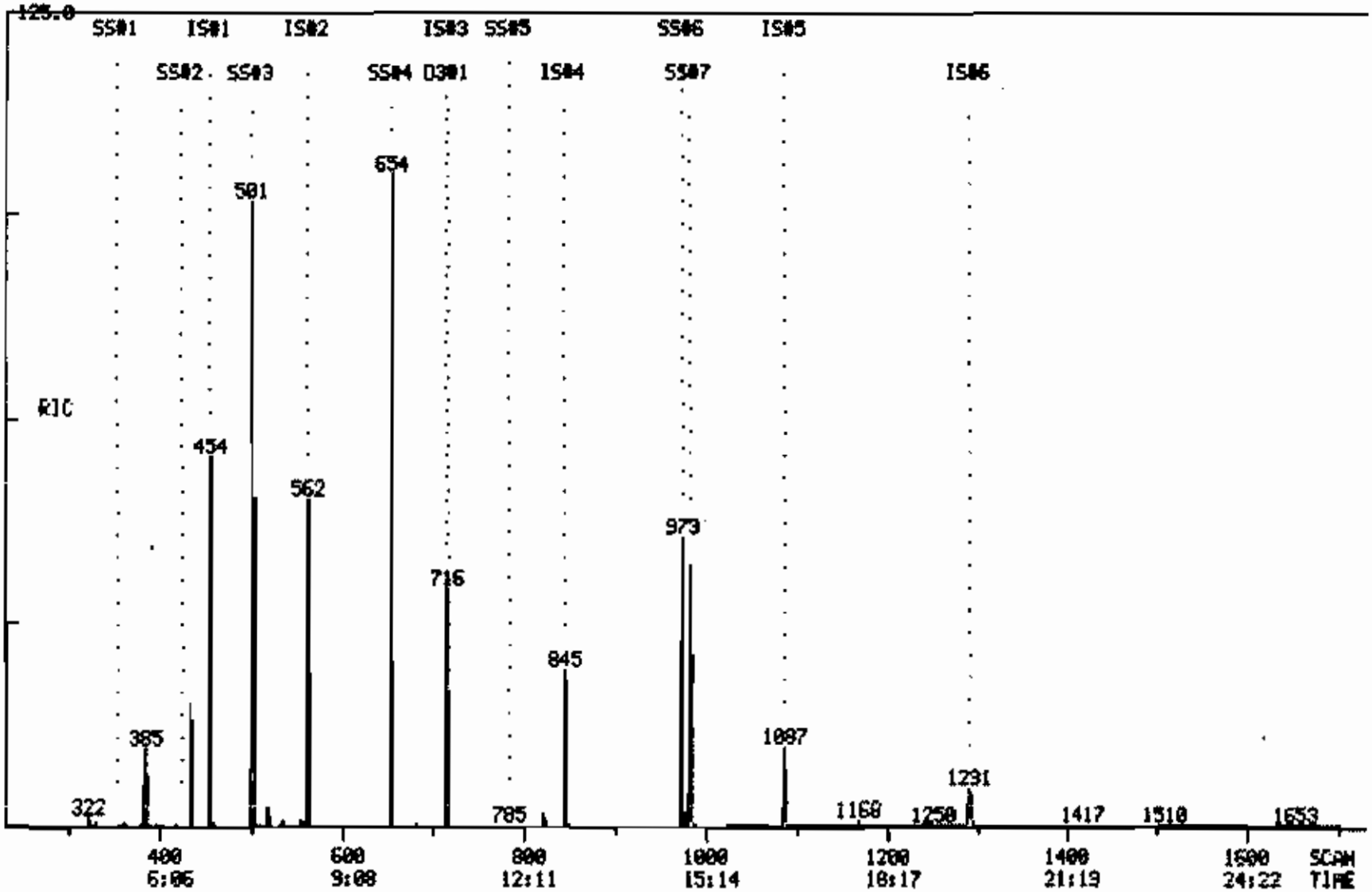
COMPUCHEM LABS

RIC
05/16/90 11:14:00
SAMPLE: JUL CC#337850 ID#7300813
CONDS.: EXTRACTED 5/11/90 UNDILUTED

COMPUCHEM DATA: GH0378500022 SCANS 231 TO 1700
OUT OF 231 TO 1700

CS#20124 ON 22

1861118.



```
QUANTITATION REPORT     FILE: GH037850A22
DATA: GH037850A22.TI
05/16/90 11:14:00
SAMPLE: 1UL CC#337890 ID#7380013              CS#20124              ON 22
CONDS.:  EXTRACTED 5/11/90    UNDILUTED
SUBMITTED BY:      22         ANALYST:       740

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  *494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  481 PYRIDINE (Z9#1)
  4  509 ETHYLMATHACRYLATE (Z9#2)
  5  542 PARALDEHYDE (Z9#3)
  6  510 2-PICOLINE (Z9#36)
  7  535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
  8  543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
  9  499 N-NITROSODIETHYLAMINE (Z9#6)
 10  514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
 11  610 PHENOL (G1#3) <108-95-2>
 12  473 ANILINE (G1#4) <62-53-3>
 13  505 PENTACHLOROETHANE (Z9#8)
 14  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
 15  601 2-CHLOROPHENOL (G1#6) <95-57-8>
 16  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
 17  506 BENZYL CHLORIDE (Z9#9)
 18  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
 19  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 20  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 21  620 2-METHYLPHENOL (G1#11) <95-48-7>
 22  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 23  621 3-METHYLPHENOL (F1#2) <108-39-4>
 24  622 4-METHYLPHENOL (G1#13) <106-44-5>
 25  528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
 26  544 N-NITROSONORPHOLINE (Z9#12) <59-89-2>
 27  500 ACETOPHENONE (Z9#11)
 28  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 29  512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
 30  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 31  *460 D8-NAPHTHALENE (IS#2)
 32  440 NITROBENZENE (G1#16) <98-95-3>
 33  502 N-NITROSOPIPERIDINE
 34  438 ISOPHORONE (G2#2) <78-59-1>
 35  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 36  606 2-NITROPHENOL (G2#3) <88-75-5>
 37  451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
 38  518 BENZAL CHLORIDE (Z9#16) <98-87-3>
 39  625 BENZOIC ACID (G2#5) <65-85-0>
 40  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 41  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 42  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 43  439 NAPHTHALENE (G2#9) <91-20-3>
 44  475 4-CHLOROANILINE (G2#10) <106-47-8>
 45  631 2,6-DICHLOROPHENOL (Z9#18)
 46  524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>
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NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D10-PERYLENE (IS#6)
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE (SS#6)
101	#496 D14-TERPHENYL (SS#7)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TDT
1	152	454	6:55	1	1.000	A BB	165576.	40.000	NG	6.63
2	42	NOT FOUND								
3	79	NOT FOUND								
4	69	NOT FOUND								
5	89	NOT FOUND								
6	93	NOT FOUND								
7	88	NOT FOUND								
8	80	NOT FOUND								
9	102	NOT FOUND								
10	109	NOT FOUND								
11	94	NOT FOUND								
12	93	NOT FOUND								
13	167	NOT FOUND								
14	93	NOT FOUND								
15	128	NOT FOUND								
16	146	NOT FOUND								
17	91	NOT FOUND								
18	146	NOT FOUND								
19	108	NOT FOUND								
20	146	NOT FOUND								
21	108	NOT FOUND								
22	45	NOT FOUND								
23	108	NOT FOUND								
24	108	NOT FOUND								
25	100	NOT FOUND								
26	116	NOT FOUND								
27	105	NOT FOUND								
28	70	NOT FOUND								
29	106	NOT FOUND								
30	117	NOT FOUND								
31	136	562	8:34	31	1.000	A BB	528352.	40.000	NG	6.63
32	77	NOT FOUND								
33	114	NOT FOUND								
34	82	NOT FOUND								
35	107	NOT FOUND								
36	139	NOT FOUND								
37	180	NOT FOUND								
38	125	NOT FOUND								
39	122	NOT FOUND								
40	93	NOT FOUND								
41	162	NOT FOUND								
42	180	NOT FOUND								
43	128	NOT FOUND								
44	127	NOT FOUND								
45	162	NOT FOUND								
46	108	562	8:34	31	1.000	A BB	85468.	50.964	NG	8.45 ND
47	91	579	8:49	31	1.030	A BB	6644.	7.090	NG	1.18 ND
48	213	NOT FOUND								
49	225	NOT FOUND								
50	180	NOT FOUND								
51	159	NOT FOUND								
52	84	NOT FOUND								
53	107	NOT FOUND								
54	108	NOT FOUND								
55	162	NOT FOUND								
56	108	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
57	142	NOT FOUND								
58	142	NOT FOUND								
59	164	715	10:53	59	1.000	A BB	230532.	40.000	NG	6.63
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUND								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUND								
74	152	NOT FOUND								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUND								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUND								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUND								
86	97	NOT FOUND								
87	204	NOT FOUND								
88	166	NOT FOUND								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUND								
92	188	845	12:52	92	1.000	A BB	25424D.	40.000	NG	6.63
93	240	1087	16:33	93	1.000	A BB	134644.	40.000	NG	6.63
94	264	1291	19:40	94	1.000	A BB	94492.	40.000	NG	6.63
95	112	NOT FOUND								
96	99	NOT FOUND								
97	82	501	7:38	31	0.891	A BB	577148.	68.438	NG	11.35
98	172	654	9:58	59	0.915	A BB	594328.	80.650	NG	13.38
99	330	784	11:56	59	1.097	A BB	984.	1.214	NG	0.20
100	212	973	14:49	93	0.895	A BV	389376.	77.630	NG	12.87
101	244	983	14:58	93	0.904	A BB	305052.	77.094	NG	12.79

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:58	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:51		10.000			50.00		1.348	
3	3:52		10.000			50.00		1.942	
4	4:25		10.000			50.00		1.888	
5	4:25		10.000			50.00		0.370	
6	4:47		20.000			50.00		2.081	
7	4:55		10.000			200.00		0.439	
8	5:15		10.000			50.00		1.569	
9	5:44		10.000			50.00		0.983	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:03		10.000			50.00		1.052	
11	6:31		10.000			50.00		2.859	
12	6:35		10.000			50.00		3.199	
13	6:37		10.000			50.00		0.529	
14	6:38		20.000			50.00		2.281	
15	6:44		10.000			50.00		1.882	
16	6:55		10.000			50.00		1.946	
17	6:59		10.000			50.00		4.277	
18	6:59		10.000			50.00		1.947	
19	7:07		10.000			50.00		1.211	
20	7:12		10.000			50.00		1.777	
21	7:15		10.000			50.00		1.716	
22	7:19		10.000			50.00		2.437	
23	7:25		10.000			100.00		1.814	
24	7:25		10.000			100.00		1.814	
25	7:26		10.000			50.00		0.932	
26	7:27		10.000			50.00		0.453	
27	7:28		10.000			50.00		2.822	
28	7:29		10.000			50.00		1.698	
29	7:31		10.000			50.00		2.067	
30	7:37		10.000			50.00		1.040	
31	8:34	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:41		10.000			50.00		0.590	
33	7:52		10.000			50.00		0.209	
34	7:58		10.000			50.00		1.121	
35	8:06		10.000			50.00		0.532	
36	8:05		10.000			50.00		0.228	
37	8:07		10.000			50.00		0.284	
38	8:08		10.000			50.00		0.784	
39	8:12		100.000			50.00		0.189	
40	8:13		10.000			50.00		0.598	
41	8:23		10.000			50.00		0.270	
42	8:31		10.000			50.00		0.296	
43	8:36		10.000			50.00		1.306	
44	8:39		10.000			50.00		0.643	
45	8:41		20.000			50.00		0.307	
46	8:34	1.00	10.000	0.10	50.96	50.00	0.129	0.127	1.02
47	8:47	1.00	10.000	0.10	7.09	50.00	0.010	0.071	0.14
48	8:45		10.000			50.00		0.141	
49	8:49		10.000			50.00		0.130	
50	8:50		10.000			50.00		0.261	
51	8:55		20.000			50.00		0.419	
52	9:06		10.000			50.00		0.193	
53	9:15		10.000			50.00		0.451	
54	9:15		10.000			50.00		0.030	
55	9:21		10.000			50.00		0.242	
56	9:21		10.000			50.00		0.001	
57	9:29		10.000			50.00		0.982	
58	9:38		10.000			50.00		0.520	
59	10:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:46		10.000			100.00		0.449	
61	9:46		10.000			100.00		0.449	
62	9:48		10.000			50.00		0.182	
63	9:53		20.000			50.00		0.330	
64	9:56		20.000			50.00		0.325	
65	10:01		20.000			50.00		0.489	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:09		10.000			50.00		1.495	
67	10:11		10.000			50.00		1.104	
68	10:10		10.000			50.00		0.427	
69	10:17		10.000			50.00		0.583	
70	10:21		20.000			50.00		0.433	
71	10:24		20.000			50.00		0.204	
72	10:31		10.000			50.00		1.495	
73	10:38		10.000			50.00		0.307	
74	10:42		10.000			50.00		1.917	
75	10:49		20.000			50.00		0.348	
76	10:57		10.000			50.00		1.317	
77	10:57		40.000			50.00		0.108	
78	11:00		10.000			50.00		0.319	
79	11:09		10.000			50.00		0.429	
80	11:10		10.000			50.00		1.693	
81	11:12		10.000			50.00		0.341	
82	11:15		20.000			50.00		0.818	
83	11:21		20.000			50.00		0.687	
84	11:22		20.000			50.00		0.174	
85	11:27		10.000			50.00		1.719	
86	11:35		10.000			50.00		0.436	
87	11:35		10.000			50.00		0.438	
88	11:37		10.000			50.00		1.334	
89	11:38		20.000			50.00		0.354	
90	11:38		20.000			50.00		0.383	
91	11:48		10.000			50.00		2.253	
92	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:27		0.742			50.00		1.870	
96	6:30		0.948			50.00		2.258	
97	7:40	1.00	0.875	1.02	68.44	50.00	0.874	0.638	1.37
98	9:59	1.00	0.906	1.01	80.65	50.00	2.062	1.279	1.61
99	11:57	1.00	1.118	0.98	1.21	50.00	0.002	0.083	0.02
100	14:49	1.00	10.000	0.09	77.63	50.00	2.314	1.490	1.55
101	14:58	1.00	0.907	1.00	77.09	50.00	1.812	1.176	1.54

```
QUANTITATION REPORT     FILE: GH037850A22
DATA: GH037850A22.TI
05/16/90 11:14:00 ✓          ✓          ✓              ✓
SAMPLE: 1UL CC#337850 ID#7380013          CS#20124              ON 22
CONDS. :  EXTRACTED 5/11/90   UNDILUTED
SUBMITTED BY:      22        ANALYST:       740

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP.  FAC.  FROM  LIBRARY ENTRY

 NO   NAME
  1   *467 D10-PHENANTHRENE (IS#4)
  2   604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
  3   443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
  4   567 DIPHENYLAMINE (F3#3)
  5   508 1,3,5-TRINITROBENZENE (Z9#41)
  6   539 PHENACETIN (Z9#42) <63-44-2>
  7   414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
  8   577 DIALLATE (TRANS ISOMER)
  9   541 DIMETHOATE (Z9#44)
 10   433 HEXACHLOROBENZENE (G4#5) <118-74-1>
 11   485 4-AMINOBIPHENYL (Z9#45)
 12   522 PRONAMIDE (Z9#46)
 13   609 PENTACHLOROPHENOL (G4#6) <87-86-5>
 14   453 PENTACHLORONITROBENZENE (Z9#47)
 15   444 PHENANTHRENE (G4#7) <85-01-8>
 16   403 ANTHRACENE (G4#8) <120-12-7>
 17   426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
 18   516 METHAPYRILENE (Z9#48)
 19   549 CYCLOPHOSPHAMIDE (Z9#49)
 20   431 FLUORANTHENE (G4#10) <206-44-0>
 21   *459 D12-CHRYSENE (IS#5)
 22   404 BENZIDINE (G5#2) <92-87-5>
 23   445 PYRENE (G5#3) <129-00-0>
 24   530 ARAMITE (Z9#50) <140-57-4>
 25   487 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
 26   523 CHLOROBENZILATE (Z9#52)
 27   545 3,3'-DIMETHYLBENZIDINE (Z9#53)
 28   415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
 29   488 2-ACETYLAMINO FLUORENE (F5#2)
 30   489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
 31   423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
 32   533 DIMETHOXYBENZIDINE (Z9#57)
 33   413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
 34   405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
 35   418 CHRYSENE (G5#8) <218-01-9>
 36   *497 D10-PERYLENE (IS#6)
 37   429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
 38   407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
 39   517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
 40   409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
 41   406 BENZO(A)PYRENE (G6#5) <50-32-8>
 42   565 3-METHYLCHLORANTHRENE (F6#2)
 43   566 DIBENZO(A,J)ACRIDINE
 44   437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
 45   419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
 46   408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
```

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
1	188	845	12:52	1	1.000	A BB	254240.	40.000	NG	32.76
2	198	NOT FOUND								
3	169	NOT FOUND								
4	169	NOT FOUND								
5	213	NOT FOUND								
6	108	NOT FOUND								
7	248	NOT FOUND								
8	234	NOT FOUND								
9	125	NOT FOUND								
10	284	NOT FOUND								
11	169	NOT FOUND								
12	173	NOT FOUND								
13	266	NOT FOUND								
14	237	NOT FOUND								
15	178	NOT FOUND								
16	178	NOT FOUND								
17	149	NOT FOUND								
18	97	NOT FOUND								
19	211	NOT FOUND								
20	202	NOT FOUND								
21	240	1087	16:33	21	1.000	A BB	134644.	40.000	NG	32.76
22	184	NOT FOUND								
23	202	NOT FOUND								
24	185	973	14:49	21	0.895	A BB	288.	2.150	NG	1.76 NG
25	225	NOT FOUND								
26	139	NOT FOUND								
27	212	NOT FOUND								
28	149	NOT FOUND								
29	181	NOT FOUND								
30	231	NOT FOUND								
31	252	NOT FOUND								
32	244	NOT FOUND								
33	149	NOT FOUND								
34	228	NOT FOUND								
35	226	NOT FOUND								
36	264	1291	19:40	36	1.000	A BB	94492.	40.000	NG	32.76
37	149	NOT FOUND								
38	252	NOT FOUND								
39	256	NOT FOUND								
40	252	NOT FOUND								
41	252	NOT FOUND								
42	268	NOT FOUND								
43	279	NOT FOUND								
44	276	NOT FOUND								
45	278	NOT FOUND								
46	276	NOT FOUND								
47	234	NOT FOUND								

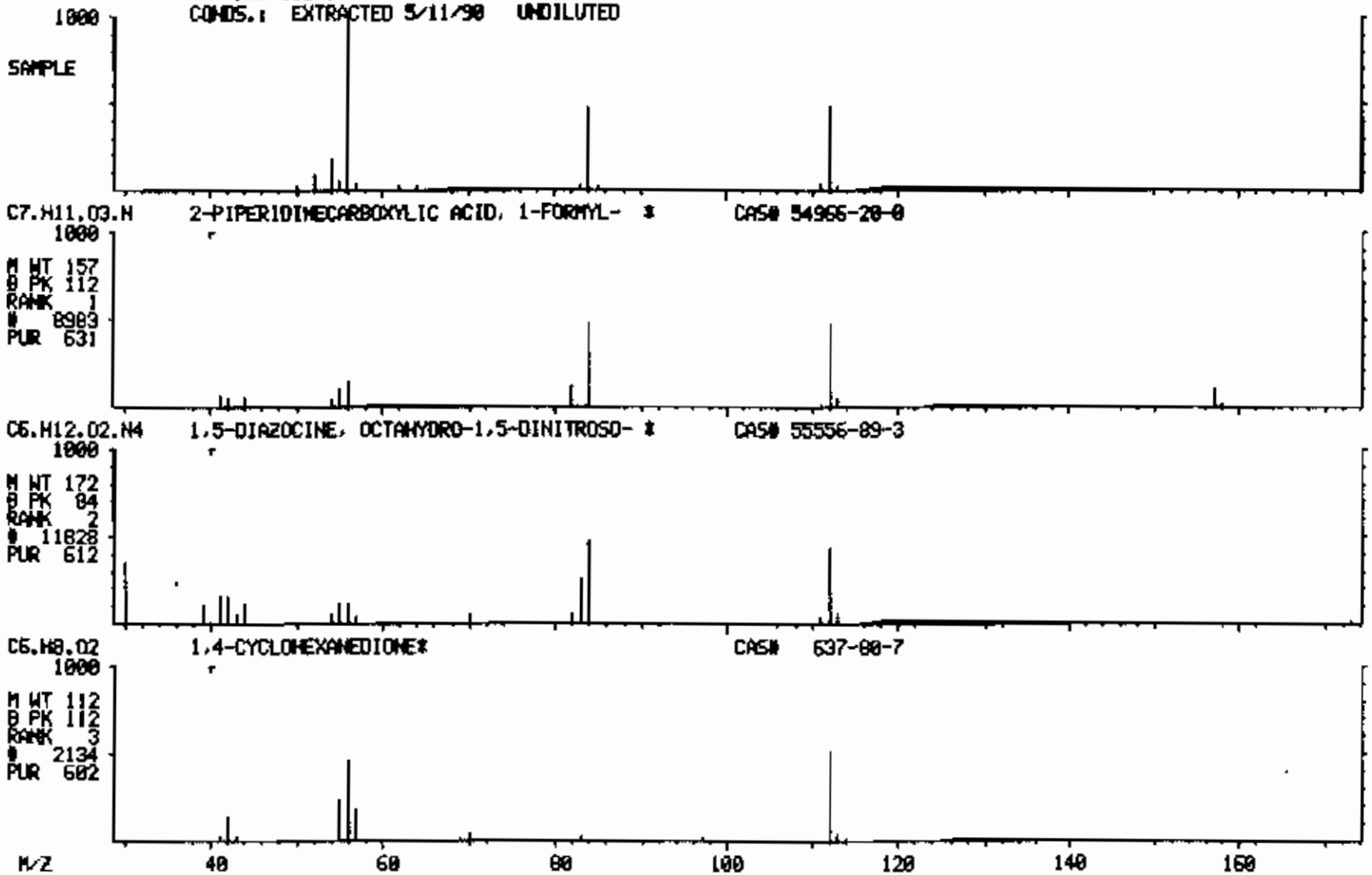
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	12:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000 ✓	1.00
2	11:43		30.000			50.00		0.111 ✓	
3	11:45		10.000			100.00		0.815	
4	11:45		10.000			100.00		0.815	

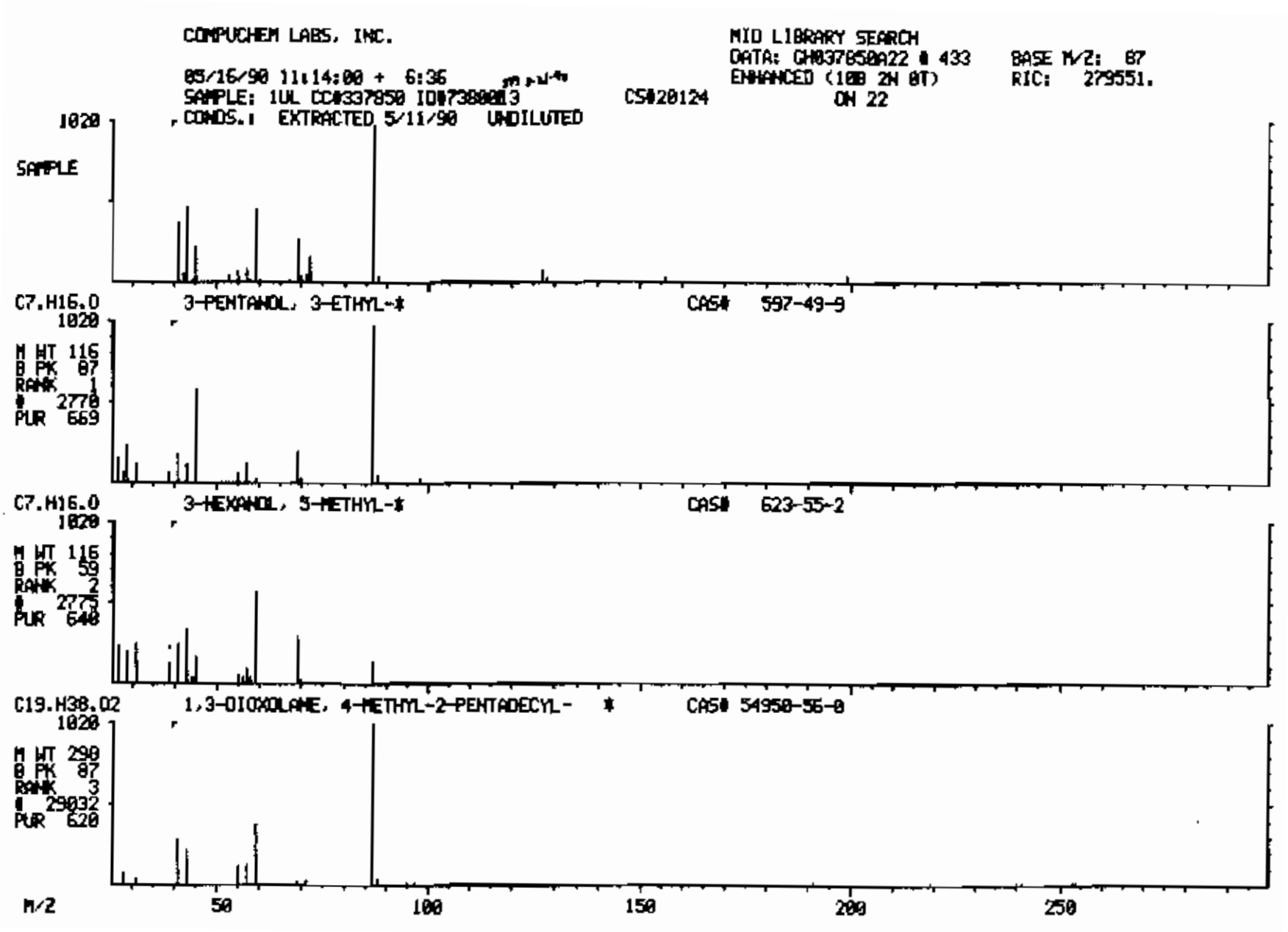
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:06		20.000			50.00		0.060	
6	12:08		10.000			50.00		0.642	
7	12:14		10.000			50.00		0.165	
8	12:09		10.000			25.00		0.106	
9	12:25		10.000			50.00		0.180	
10	12:28		10.000			50.00		0.197	
11	12:35		10.000			50.00		0.749	
12	12:40		10.000			50.00		0.412	
13	12:41		20.000			50.00		0.104	
14	12:48		10.000			50.00		0.078	
15	12:55		10.000			50.00		1.304	
16	12:59		10.000			50.00		1.311	
17	13:36		10.000			50.00		1.997	
18	14:03		20.000			50.00		0.408	
19	14:19		50.000			200.00		0.024	
20	14:32		10.000			50.00		1.024	
21	16:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	14:38		10.000			50.00		0.134	
23	14:51		10.000			50.00		2.070	
24	14:49	1.00	20.000	0.04	2.15	50.00	0.002	0.040	0.04
25	15:10		10.000			50.00		0.271	
26	15:13		10.000			50.00		1.379	
27	15:37		20.000			50.00		0.509	
28	15:36		10.000			50.00		1.321	
29	16:00		10.000			50.00		0.619	
30	16:23		10.000			50.00		0.179	
31	16:25		10.000			50.00		0.242	
32	16:21		10.000			50.00		0.147	
33	16:25		10.000			50.00		1.809	
34	16:32		10.000			50.00		1.166	
35	16:36		10.000			50.00		1.114	
36	19:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:30		10.000			50.00		2.896	
38	18:41		10.000			100.00		1.002	
39	18:41		10.000			50.00		0.487	
40	18:41		10.000			100.00		1.002	
41	19:31		10.000			50.00		1.192	
42	20:32		10.000			50.00		0.582	
43	22:25		10.000			50.00		0.886	
44	23:12		10.000			50.00		1.334	
45	23:12		10.000			50.00		1.100	
46	24:15		10.000			50.00		1.065	
47	12:17		10.000			25.00		0.135	

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GH037850A22 # 385 BASE M/Z: 56
ENHANCED (100 2N 0T) RIC: 170239.
ON 22

05/16/90 11:14:00 + 5:52
SAMPLE: 1UL CC#337850 ID#73000#3 CS#20124
CONDS.: EXTRACTED 5/11/90 UNDILUTED




COMPUCHEM LABS, INC.
05/16/90 11:14:00 + 6:36
SAMPLE: 1UL CC#337850 ID#738000
CONDS.: EXTRACTED 5/11/90 UNDILUTED
CS#20124
MID LIBRARY SEARCH
DATA: GH037850A22 # 433
ENHANCED (100 2N 0T)
BASE M/Z: 87
RIC: 279551.
ON 22
1020
SAMPLE
C7.H16.O
3-PENTANOL, 3-ETHYL-*
CAS# 597-49-9
M WT 116
B PK 87
RANK 1
2770
PUR 669
C7.H16.O
3-HEXANOL, 5-METHYL-*
CAS# 623-55-2
M WT 116
B PK 59
RANK 2
2775
PUR 640
C19.H38.O2
1,3-DIOXOLANE, 4-METHYL-2-PENTADECYL- *
CAS# 54950-56-0
M WT 298
B PK 87
RANK 3
29032
PUR 620
M/Z
50
100
150
200
250

LAB INSTRUCTIONS:
SEE FPS#407 CASE#RA090 SDG#0507

PPS#: _____

MAST 5-6

RECEIPT DATE: 05/09/90 CASE#: 20124

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 337850

J1[ ] J3[ ] D[ ] (:1)
2J1[ ] J4[ ] D2[ ] (:1)

GC/MS; FULL LIST S-V; WATER;3rd Ed 8270

Sample Prep Code--- -79
Instrument Code---- 286
Compound List------ 379
Surrogate Std------ 393
Internal Std------- 35

SAMPLE ID#: 7380011J

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid _____ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date Sample Bottle Analyzed 5/11/90
DFTPP Filename DH900516C22 Disk (303#4)
Standard Filename HH900516C22 Disk ( )
Sample Filename GH037850A22 Disk ( )

[redacted]

ANALYST(S): Injection 740 Work-up _____

GC/MS REVIEW

CONDITION CODE | A | AAA |

Disposition: [✓] Complete

Extraneous Peak Search Results:

[ ] Reinjection required

[ ] Reextraction required

# of Peaks Found: 2

# of Hits: 0

[ ] Dilute (:1)

# of Surrogate Outliers: 3

[ ] Reinject Neat

Quality Assurance Notice(s):

[ ] Send to QA

Notices Required 0

COMMENTS:

#GC/MS Review [signature] Date___/___/___ Auditor_____ Date___/___/___

REPORT INTEGRATION Total # of Injections: _____
Final Reportable Package(s): GR037850A0C / GH037850A22

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC0793

554

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: CA Carl Hooker

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1787

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL/ml SV B/N	FINAL EXTRACT VOL/ml ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337842	-079	20124	73580 105			3/3	1000	1.0		13	1	* Use 500ml sample volume for SS only
2	337843			73800 106			3/3	1000	1.0		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337844			73580 107			3/3	1000	1.0		13	1	Conc. to 0.5ml final volume
4	337845			73580 108			3/3	1000	1.0		13	1	add _____ ml validation spike to BS only
5	337846			73580 109			1/3	1000	1.0		13	1	
6	337847			73580 112			7/9	1000	1.0		13	1	
7	337848			73580 110			1/3	1000	1.0		13	1	
8	337849			73580 109			2/3	1000	1.0		13	1	
9	337850		↓	73580 113			1/3	1000	1.0		13	1	
10	336210[illegible]		19698	8020 56000			3/3	1000 ml	1.0		13	1	*
11													
12													
13	53834[illegible]	↓		SBLK BL	B1			1000ml	1.0		13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	1.0 ml				
	LOT	31922				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT					

MANUAL COUNTER 510/889

FINAL VOLUME VERIFIED CaDA Hooker

SUPERVISOR REVIEWED [signature]

EXTRACTS RECEIVED BY [signature] 5-11-90

SURROGATE & SPIKE ADDED CORRECTLY A.W. 5-11-90 (INT / DATE)

ISSUED BY: _____

[illegible]ID

HYDEC RA090 0507 ORGANIC

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	454	166000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	10
481	79		PYRIDINE (Z9#1)				BDL	10
509	69		ETHYLMATHACRYLATE (Z9#2)				BDL	10
542	89		PARALDEHYDE (Z9#3)				BDL	10
510	93		2-PICOLINE (Z9#36)				BDL	20
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	10
543	80		METHYL METHANE SULFONATE (Z				BDL	10
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	10
514	109		ETHYL METHANESULFONATE (Z9#				BDL	10
610	94		PHENOL (G1#3)				BDL	10
473	93		ANILINE (G1#4)				BDL	10
505	167		PENTACHLORDETHANE (Z9#8)				BDL	10
411	93		BIS(2-CHLORDETHYL)ETHER (G1				BDL	20
601	128		2-CHLOROPHENOL (G1#6)				BDL	10
421	146		1,3-DICHLORDBENZENE (G1#7)				BDL	10
506	91		BENZYL CHLORIDE (Z9#9)				BDL	10
422	146		1,4-DICHLORDBENZENE (G1#8)				BDL	10
474	108		BENZYL ALCOHOL (G1#9)				BDL	10
420	146		1,2-DICHLORDBENZENE (G1#10)				BDL	10
620	108		2-METHYLPHENOL (G1#11)				BDL	10
412	45		BIS(2-CHLORDISOPROPYL)ETHER				BDL	10
621	108		3-METHYLPHENOL (F1#2)				BDL	10
622	108		4-METHYLPHENOL (G1#13)				BDL	10
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	10
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	10
500	105		ACETOPHENONE (Z9#11)				BDL	10
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	10
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	10
436	117		HEXACHLORDETHANE (G1#15)				BDL	10
460	136	I	DB-NAPHTHALENE (IS#2)	562	328000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	10
502	114		N-NITROSOPIPERIDINE				BDL	10
438	82		ISOPHORONE (G2#2)				BDL	10
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	10
606	139		2-NITROPHENOL (G2#3)				BDL	10
451	180		1,3,5-TRICHLORDBENZENE (Z9#				BDL	10
518	125		BENZAL CHLORIDE (Z9#16)				BDL	10
625	122		BENZOIC ACID (G2#5)				BDL	100
410	93		BIS(2-CHLORDETHOXY)METHANE				BDL	10
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	10
446	180		1,2,4-TRICHLORDBENZENE (G2#				BDL	10
439	128		NAPHTHALENE (G2#9)				BDL	10

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLORDANILINE (B2#10)				BDL	10
631	162		2,6-DICHLOROPHENOL (Z9#18)				BDL	20
524	108		O-PHENYLENEDIAMINE (Z9#19)			~~31.0~~	~~31~~ BDL	10
515	91		ALPHA,ALPHA DIMETHYLPHENETH			7.4	~~73~~ BDL	10
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	10
434	225		HEXACHLOROBUTADIENE (B2#11)				BDL	10
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	10
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	20
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	10
608	107		P-CHLORO-M-CRESOL (B2#12)				BDL	10
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	10
503	162		SAFROLE (Z9#27)				BDL	10
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	10
477	142		2-METHYLNAPHTHALENE (B2#13)				BDL	10
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	10
495	164	I	D10-ACENAPHTHENE (IS#3)	715	231000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	10
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	10
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	10
611	196		2,4,6-TRICHLOROPHENOL (B3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (B3#4				BDL	20
527	162		ISOSAFROLE (Z9#30)				BDL	20
416	162		2-CHLORONAPHTHALENE (B3#5)				BDL	10
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	10
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	10
478	65		2-NITROANILINE (B3#6)				BDL	10
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	20
491	168		1,4-DINITROBENZENE (F3#2)				BDL	20
425	163		DIMETHYL PHTHALATE (B3#7)				BDL	10
428	165		2,6-DINITROTOLUENE (B3#15)				BDL	10
402	152		ACENAPHTHYLENE (B3#8)				BDL	10
479	138		3-NITROANILINE (B3#9)				BDL	20
401	153		ACENAPHTHENE (B3#10)				BDL	10
605	184		2,4-DINITROPHENOL (B3#11)				BDL	40
607	109		4-NITROPHENOL (B3#12)				BDL	10
427	165		2,4-DINITROTOLUENE (B3#14)				BDL	10
476	168		DIBENZOFURAN (B3#13)				BDL	10
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	10
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	20
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	20
630	232		2,3,4,6-TETRACHLOROPHENOL (				BDL	20
424	149		DIETHYL PHTHALATE (B3#16)				BDL	10
519	97		ZINOPHOS (Z9#38)				BDL	10

CORRECTED/REVIEWED BY S. Rem
(QC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	10
432	166		FLUORENE (G3#18)				BDL	10
480	138		4-NITROANILINE (G3#19)				BDL	20
498	152		5-NITRO-O-TOLUIDINE (Z9#34)				BDL	20
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	10
467	188	I	D10-PHENANTHRENE (IS#4)	845	254000	40.0		
459	240	I	D12-CHRYSENE (IS#5)	1087	135000	40.0		
497	264	I	D10-PERYLENE (IS#6)	1291	94500	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			0.0	0.%	
612	99	S	D5-PHENOL (SS#2)			0.0	0.%	
447	82	S	D5-NITROBENZENE (SS#3)			68.4	68.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			80.6	81.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			1.2	1.%	
471	212	S	D10-PYRENE (SS#6)			77.6	78.%	
496	244	S	D14-TERPHENYL (SS#7)			77.1	77.%	
CHECKSUMS:								
14270.				4954	1408500.	603.0		98.

CORRECTED/REVIEWED BY S. Hendl
(QC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
95	619	2-FLUOROPHENOL (SS#1)	NOT FOUND			21-100		X
96	612	D5-PHENOL (SS#2)	NOT FOUND			10- 94		X
97	447	D5-NITROBENZENE (SS#3)	68.4	100.0	68.	35-114	X	
98	448	2-FLUOROBIPHENYL (SS#4)	80.6	100.0	81.	43-116	X	
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	1.2	200.0	1.	10-123		X
#1	471	D10-PYRENE (SS#6)	77.6	100.0	78.	40-130+	X	
#1	496	D14-TERPHENYL (SS#7)	77.1	100.0	77.	33-141	X	

3✓

+ ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ ML}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ ML}{1000.\ ML} \times 1.0\ ML \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ UL}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000\ UL}{1000\ UL} \times 1.0\ ML \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hewett
(QC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	845	254000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	30
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	10
567	169		DIPHENYLAMINE (F3#3)				BDL	10
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	20
539	108		PHENACETIN (Z9#42)				BDL	10
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	10
577	234		DIALLATE (TRANS ISOMER)				BDL	10
541	125		DIMETHOATE (Z9#44)				BDL	10
433	284		HEXACHLOROBENZENE (G4#5)				BDL	10
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	10
522	173		PRONAMIDE (Z9#46)				BDL	10
609	266		PENTACHLOROPHENOL (G4#6)				BDL	20
453	237		PENTACHLORONITROBENZENE (Z9				BDL	10
444	178		PHENANTHRENE (G4#7)				BDL	10
403	178		ANTHRACENE (G4#8)				BDL	10
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	10
516	97		METHAPYRILENE (Z9#48)				BDL	20
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	50
431	202		FLUORANTHENE (G4#10)				BDL	10
459	240	I	D12-CHRYSENE (IS#5)	1087	135000	40.0		
404	184		BENZIDINE (G5#2)				BDL	10
445	202		PYRENE (G5#3)				BDL	10
530	185		ARAMITE (Z9#50)			2.2	2.2 BDL	20
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	10
523	139		CHLOROBENZILATE (Z9#52)				BDL	10
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	10
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	10
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	10
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	10
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	10
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	10
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	10
418	228		CHRYSENE (G5#8)				BDL	10
497	264	I	D10-PERYLENE (IS#6)	1291	94500	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	10
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	10
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	10
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	10
406	252		BENZO(A)PYRENE (G6#5)				BDL	10
565	268		3-METHYLCHLORANTHRENE (F6#2				BDL	10
566	279		DIBENZO(A,J)ACRIDINE				BDL	10

CORRECTED/REVIEWED BY L. Hem
(QC/MS DATA REVIEWER)

DATE 5-21-90

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	10
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	10
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	10
376	234		DIALLATE (CIS ISOMER)				BDL	10
331	234		DIALLATE (TOTAL)				BDL	10
CHECKSUMS:								
10115.				3223	483500.	122.2		2.

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-21-90

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times 1.0\ \text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Hendt
(QC/MB DATA REVIEWER)

DATE 5-21-96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800113RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337850

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037850A06

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATIDH UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
110-86-1	Pyridine	10	U
97-63-2	Ethyl methacrylate	10	U
123-63-7	Paraldehyde	10	U
109-06-8	2-Picoline	20	U
10595-95-6	Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesulfonate	10	U
108-95-2	Phenol	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-5	Ethyl methanesulfonate	10	U
62-53-3	Aniline	10	U
76-01-7	Pentachloroethane	10	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
100-44-7	Benzyl chloride	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
59-89-2	N-Nitrosomorpholine	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
636-21-5	o-Toluidine hydrochloride	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U

(1) - Cannot be separated from Diphenylamine

108-70-3	1,3,5-Trichlorobenzene	10 U
98-87-3	Benzal chloride	10 U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U
87-65-0	2,6-Dichlorophenol	20 U
95-54-5	o-Phenylenediamine	10 U
122-09-8	dimethylphenylethylamine	10 U
1888-71-7	Hexachloropropene	10 U
87-68-3	Hexachlorobutadiene	10 U
87-61-6	1,2,3-Trichlorobenzene	10 U
98-07-7	Benzotrichloride	20 U
924-16-3	N-Nitroso-di-n-butylamine	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
106-50-3	P-Phenylenediamine	10 U
94-59-7	Safrole	10 U
106-50-3	m-Phenylenediamine	10 U
91-57-6	2-Methylnaphthalene	10 U
90-12-0	1-Methylnaphthalene	10 U
95-94-3	1,2,4,5-Tetrachlorobenzene	10 U
634-90-2	1,2,3,5-Tetrachlorobenzene	10 U
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	20 U
95-95-4	2,4,5-Trichlorophenol	20 U
120-58-1	Isosafrole	20 U
91-58-7	2-Chloronaphthalene	10 U
90-13-1	1-Chloronaphthalene	10 U
634-66-2	1,2,3,4-Tetrachlorobenzene	10 U
88-74-4	2-Nitroaniline	10 U
130-15-4	1,4-Naphthoquinone	20 U
100-25-4	1,4-Dinitrobenzene	20 U
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800111RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337850

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037850A06

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	2-Naphthylamine	20	U
606-20-2	2,6-Dinitrotoluene	10	U
134-32-7	1-Naphthylamine	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U
84-66-2	Diethylphthalate	10	U
297-97-2	Zinophos	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
99-55-8	5-Nitro-o-toluidine	20	U
534-52-1	4,6-Dinitro-2-Methylphenol	30	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	20	U
122-66-7	1,2-Diphenylhydrazine	10	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
2303-16-4	Diallate	10	U
60-51-5	Dimethoate	10	U
118-74-1	Hexachlorobenzene	10	U
92-67-1	4-Aminobiphenyl	10	U
23950-58-5	Pronamide	10	U
87-86-5	Pentachlorophenol	20	U
82-68-8	Pentachloronitrobenzene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U

(1) - Cannot be separated from Diphenylamine

91-80-5	Methapyrilene	20	U
50-18-0	Cyclophosphamide	50	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	10	U
129-00-0	Pyrene	10	U
140-57-8	Aramite	20	U
60-11-7	p-Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
53-96-3	2-Acetylaminofluorene	10	U
101-14-4	Methylene-bis(2-chloroaniline	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
106-51-4	3,3'-Dimethoxybenzidine	10	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
57-97-6	7,12-Dimethylbenzanthracene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
56-49-5	3-Methylcholanthrene	10	U
224-42-0	Dibenzo(a,j)acridine	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

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

7J800113RE

Lab Name: COMPUCHEM LABS Contract: 12-88)-REVS

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 02

Matrix: (soil/water) WATER Lab Sample ID: 337850

Sample wt/vol: 500 (g/mL) ML Lab File ID: GR037850A06

Lavel: (low/mad) LOW Date Received: 05/09/90

% Moisture: not dac. ____ dec. ____ Date Extracted: 05/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

Humber TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.97	52	J
2.	UNKNOWN	6.70	22	J
3.	UNKNOWN	12.79	8.0	J
4.	UNKNOWN	16.99	14	J

COMPUCHEM LABS

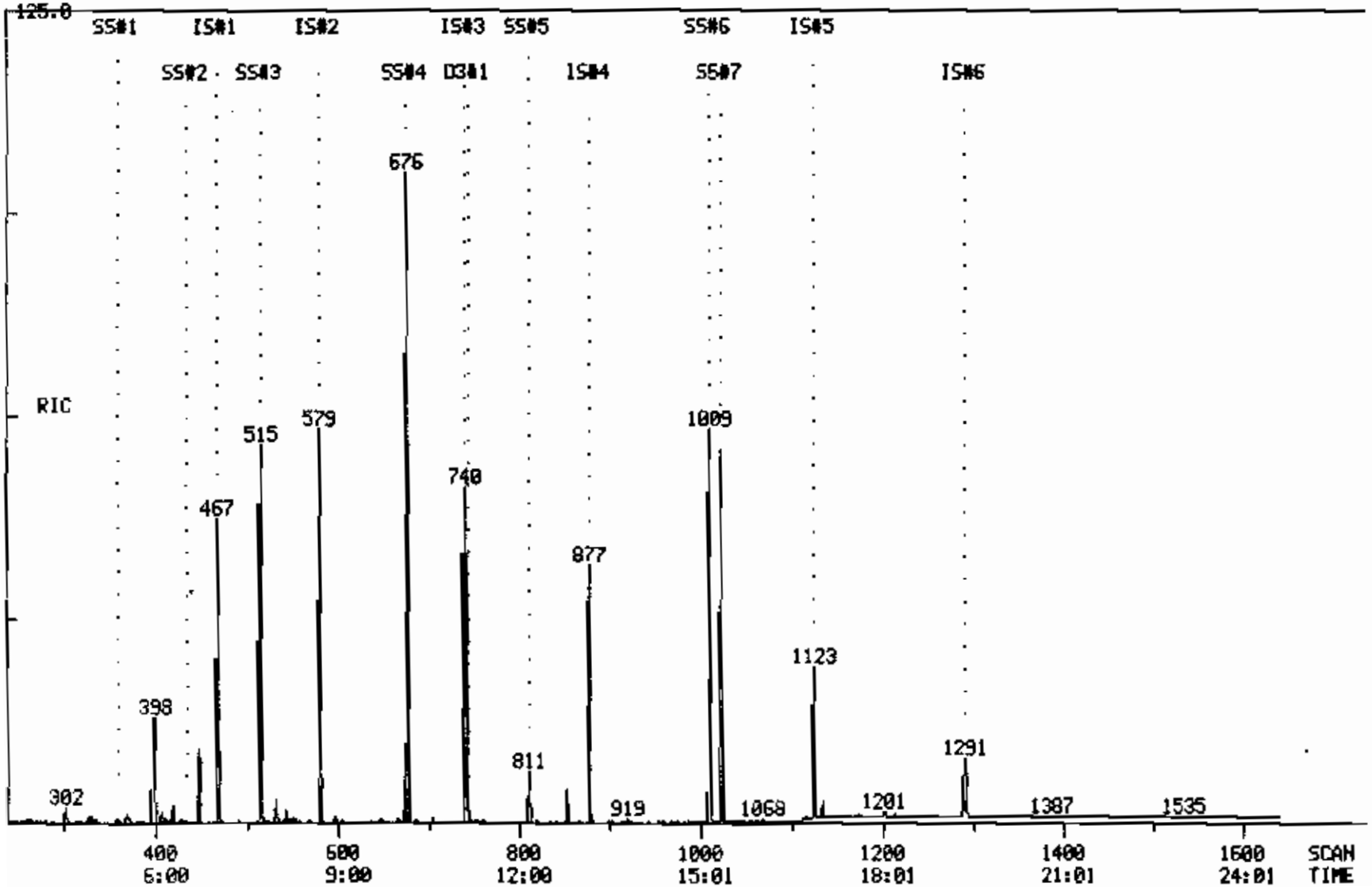
RIC
05/18/90 13:19:00
SAMPLE: 1UL CC#337858 ID#73000113AE CS#20124
CONDS.: EXTRACTED 05/17/90 UNDILUTED

COMPUCHEM DATA: GR037850A06 SCANS 235 TO 1640
OUT OF 235 TO 1640

OH 6

2191350.

125.0



QUANTITATION REPORT FILE: GR037850A06
DATA: GR037850A06.TI
05/18/90 13:19:00
SAMPLE: 1UL CC#337850 ID#73800113 RE ﾌﾘｯﾌﾟ CS#20124 ON 6
CONDS.: EXTRACTED 05/17/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 1591

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*467 D10-PHENANTHRENE (IS#4)
2	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
3	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
4	567 DIPHENYLAMINE (F3#3)
5	508 1,3,5-TRINITROBENZENE (Z9#41)
6	539 PHENACETIN (Z9#42) <63-44-2>
7	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <1D1-55-J>
8	577 DIALLATE (TRANS ISOMER)
9	541 DIMETHOATE (Z9#44)
10	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
11	485 4-AMINOBIPHENYL (Z9#45)
12	522 PRONAMIDE (Z9#46)
13	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
14	453 PENTACHLORONITROBENZENE (Z9#47)
15	444 PHENANTHRENE (G4#7) <85-01-8>
16	403 ANTHRACENE (G4#8) <120-12-7>
17	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
18	516 METHAPYRILENE (Z9#48)
19	549 CYCLOPHOSPHAMIDE (Z9#49)
20	431 FLUORANTHENE (G4#10) <206-44-0>
21	*459 D12-CHRYSENE (IS#5)
22	404 BENZIDINE (G5#2) <92-87-5>
23	445 PYRENE (G5#3) <129-00-0>
24	530 ARAMITE (Z9#50) <140-57-4>
25	457 P-DIMETHYLAMINOAZOBENZENE (Z9#51)
26	523 CHLOROBENZILATE (Z9#52)
27	545 3,3'-DIMETHYLBENZIDINE (Z9#53)
28	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
29	498 2-ACETYLAMINO FLUORENE (F5#2)
30	489 4,4'-METHYLENE-BIS(2-CHLOROANILINE) (Z9#54)
31	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
32	533 DIMETHOXYBENZIDINE (Z9#57)
33	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
34	405 BENZO(A)ANTHRACENE (G5#6) <56-55-J>
35	418 CHRYSENE (G5#8) <218-01-9>
36	*497 D12-PERYLENE
37	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
38	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
39	517 7,12-DIMETHYLBENZANTHRACENE (Z9#55)
40	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
41	406 BENZO(A)PYRENE (G6#5) <50-32-8>
42	565 3-METHYLCHLORANTHRENE (F6#2)
43	566 DIBENZO(A,J)ACRIDINE
44	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
45	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
46	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>

NO	NAME
47	576 DIALLATE (CIS ISOMER)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	188	877	13:10	1	1.000	A BB	370880.	40.000 NG	33.34
2	198	NOT FOUND							
3	169	NOT FOUND							
4	169	NOT FOUND							
5	213	NOT FOUND							
6	106	NOT FOUND							
7	248	NOT FOUND							
8	234	NOT FOUND							
9	125	NOT FOUND							
10	284	NOT FOUND							
11	169	NOT FOUND							
12	173	NOT FOUND							
13	266	NOT FOUND							
14	237	NOT FOUND							
15	178	NOT FOUND							
16	178	NOT FOUND							
17	149	NOT FOUND							
18	97	NOT FOUND							
19	211	NOT FOUND							
20	202	NOT FOUND							
21	240	1123	16:51	21	1.000	A BB	223820.	40.000 NG	33.34
22	184	NOT FOUND							
23	202	NOT FOUND							
24	185	NOT FOUND							
25	225	NOT FOUND							
26	139	NOT FOUND							
27	212	NOT FOUND							
28	149	NOT FOUND							
29	181	NOT FOUND							
30	231	NOT FOUND							
31	252	NOT FOUND							
32	244	NOT FOUND							
33	149	NOT FOUND							
34	228	NOT FOUND							
35	228	NOT FOUND							
36	264	1290	19:22	36	1.000	A BB	163384.	40.000 NG	33.34
37	149	NOT FOUND							
38	252	NOT FOUND							
39	256	NOT FOUND							
40	252	NOT FOUND							
41	252	NOT FOUND							
42	268	NOT FOUND							
43	279	NOT FOUND							
44	276	NOT FOUND							
45	278	NOT FOUND							
46	276	NOT FOUND							
47	234	NOT FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	11:57		30.000			50.00		0.152	
3	12:02		10.000			100.00		0.621	
4	12:02		10.000			100.00		0.621	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
5	12:23		20.000			50.00		0.106	
6	12:27		10.000			50.00		0.653	
7	12:34		10.000			50.00		0.208	
8	12:25		10.000			25.00		0.123	
9	12:41		10.000			50.00		0.221	
10	12:40		10.000			50.00		0.326	
11	12:55		10.000			50.00		0.723	
12	12:58		10.000			50.00		0.453	
13	12:56		20.000			50.00		0.202	
14	12:57		10.000			50.00		0.113	
15	13:15		10.000			50.00		1.268	
16	13:20		10.000			50.00		1.289	
17	13:56		10.000			50.00		1.963	
18	14:23		20.000			50.00		0.491	
19	14:40		50.000			200.00		0.047	
20	14:54		10.000			50.00		1.185	
21	16:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
22	15:02		10.000			50.00		0.140	
23	15:14		10.000			50.00		1.461	
24	15:25		20.000			50.00		0.230	
25	15:35		10.000			50.00		0.261	
26	15:37		10.000			50.00		1.028	
27	16:03		20.000			50.00		0.425	
28	16:02		10.000			50.00		1.159	
29	16:25		10.000			50.00		0.527	
30	16:30		10.000			50.00		0.206	
31	16:50		10.000			50.00		0.298	
32	16:45		10.000			50.00		0.144	
33	16:49		10.000			50.00		1.604	
34	16:55		10.000			50.00		1.162	
35	16:58		10.000			50.00		1.143	
36	19:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
37	17:46		10.000			50.00		3.641	
38	18:38		10.000			50.00		1.561	
39	18:36		10.000			50.00		0.545	
40	18:41		10.000			50.00		0.520	
41	19:19		10.000			50.00		1.191	
42	20:05		10.000			50.00		0.659	
43	21:40		10.000			50.00		0.812	
44	22:17		10.000			50.00		1.221	
45	22:19		10.000			50.00		1.110	
46	23:09		10.000			50.00		0.877	
47	12:33		10.000			25.00		0.172	

QUANTITATION REPORT FILE: GR037850A06
DATA: GR037850A06.TI
05/18/90 13:19:00 ✓ ✓ ✓
SAMPLE: 1UL CC#337850 ID#73800113 RE[illegible] CS#20124 ON 6
CONDS.: EXTRACTED 05/17/90 UNDILUTED
SUBMITTED BY: 6 ANALYST: 1591

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	481 PYRIDINE (Z9#1)
4	509 ETHYLMATHACRYLATE (Z9#2)
5	542 PARALDEHYDE (Z9#3)
6	510 2-PICOLINE (Z9#56)
7	535 NITROSOMETHYLETHYLAMINE (Z9#4) <10595-95-6>
8	543 METHYL METHANE SULFONATE (Z9#5) <66-27-3>
9	499 N-NITROSODIETHYLAMINE (Z9#6)
10	514 ETHYL METHANESULFONATE (Z9#7) <62-50-0>
11	610 PHENOL (G1#3) <108-95-2>
12	473 ANILINE (G1#4) <62-53-3>
13	505 PENTACHLOROETHANE (Z9#8)
14	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
15	601 2-CHLOROPHENOL (G1#6) <95-57-8>
16	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
17	506 BENZYL CHLORIDE (Z9#9)
18	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
19	474 BENZYL ALCOHOL (G1#9) <100-51-6>
20	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
21	620 2-METHYLPHENOL (G1#11) <95-48-7>
22	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
23	621 3-METHYLPHENOL (F1#2) <108-39-4>
24	622 4-METHYLPHENOL (G1#13) <106-44-5>
25	528 N-NITROSOPYRROLIDINE (Z9#10) <930-55-2>
26	544 N-NITROSOMORPHOLINE (Z9#12) <59-89-2>
27	500 ACETOPHENONE (Z9#11)
28	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
29	512 O-TOLUIDINE HYDROCHLORIDE (Z9#13)
30	436 HEXACHLOROETHANE (G1#15) <67-72-1>
31	*460 D8-NAPHTHALENE (IS#2)
32	440 NITROBENZENE (G1#16) <98-95-3>
33	502 N-NITROSODIPIPERIDINE (Z9#14)
34	438 ISOPHORONE (G2#2) <78-59-1>
35	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
36	606 2-NITROPHENOL (G2#3) <88-75-5>
37	451 1,3,5-TRICHLOROBENZENE (Z9#22) <180-20-3>
38	518 BENZAL CHLORIDE (Z9#16) <98-87-3>
39	625 BENZOIC ACID (G2#5) <65-85-0>
40	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
41	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
42	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
43	439 NAPHTHALENE (G2#9) <91-20-3>
44	475 4-CHLOROANILINE (G2#10) <106-47-8>
45	631 2,6-DICHLOROPHENOL (Z9#18)
46	524 O-PHENYLENEDIAMINE (Z9#19) <108-45-2>

NO	NAME
47	515 ALPHA,ALPHA DIMETHYLPHENETHYLAMINE (Z9#17) <122-09-8>
48	537 HEXACHLOROPROPENE (Z9#21) <1888-71-7>
49	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
50	450 1,2,3-TRICHLOROBENZENE (Z9#15) <87-61-6>
51	534 BENZOTRICHLORIDE (Z9#23) <98-07-7>
52	536 N-NITROSO-DI-N-BUTYLAMINE (Z9#24) <924-16-3>
53	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
54	526 P-PHENYLENEDIAMINE (Z9#20) <108-45-2>
55	503 SAFROLE (Z9#27)
56	525 M-PHENYLENEDIAMINE (Z9#26) <108-45-2>
57	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
58	569 1-METHYLNAPHTHALENE (T2#28) <90-12-0>
59	*495 D10-ACENAPHTHENE (IS#3)
60	457 1,2,4,5-TETRACHLOROBENZENE (Z9#31) <95-94-3>
61	513 1,2,3,5-TETRACHLOROBENZENE (Z9#29) <634-90-2>
62	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
63	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
64	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
65	527 ISOSAFROLE (Z9#30) <120-58-1>
66	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
67	564 1-CHLORONAPHTHALENE (F4#2)
68	456 1,2,3,4-TETRACHLOROBENZENE (Z9#28) <634-66-2>
69	478 2-NITROANILINE (G3#6) <88-74-4>
70	504 1,4-NAPTHOQUINONE (Z9#32)
71	491 1,4-DINITROBENZENE (F3#2) <100-25-4>
72	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
73	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
74	402 ACENAPHTHYLENE (G3#8) <208-96-8>
75	479 3-NITROANILINE (G3#9) <99-09-2>
76	401 ACENAPHTHENE (G3#10) <83-32-9>
77	#605 2,4-DINITROPHENOL (G3#11) <51-28-4>
78	607 4-NITROPHENOL (G3#12) <100-02-7>
79	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
80	476 DIBENZOFURAN (G3#13) <132-64-9>
81	507 PENTACHLOROBENZENE (Z9#33)
82	484 2-NAPHTHYLAMINE (Z9#35)
83	483 1-NAPHTHYLAMINE (Z9#36)
84	630 2,3,4,6-TETRACHLOROPHENOL (Z9#37)
85	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
86	519 ZINOPHOS (Z9#38)
87	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
88	432 FLUORENE (G3#18) <86-73-7>
89	480 4-NITROANILINE (G3#19) <100-01-6>
90	498 5-NITRO-O-TOLUIDINE (Z9#34)
91	430 1,2-DIPHENYLHYDRAZINE (AZOBENZENE) (Z9#39)
92	*467 D10-PHENANTHRENE (IS#4)
93	*459 D12-CHRYSENE (IS#5)
94	*497 D12-PERYLENE
95	#619 2-FLUOROPHENOL (SS#1)
96	#612 D5-PHENOL (SS#2)
97	#447 D5-NITROBENZENE (SS#3)
98	#448 2-FLUOROBIPHENYL (SS#4)
99	#628 2,4,6-TRIBROMOPHENOL (SS#5)
100	#471 D10-PYRENE
101	#496 D14-TERPHENYL (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	467	7:01	1	1.000	A BB	196108.	40.000 NG	6.23
2	42	NOT FOUND							
3	79	NOT FOUND							
4	69	NOT FOUND							
5	89	NOT FOUND							
6	93	NOT FOUND							
7	88	NOT FOUND							
8	80	NOT FOUND							
9	102	NOT FOUND							
10	109	NOT FOUND							
11	94	NOT FOUND							
12	93	NOT FOUND							
13	167	NOT FOUND							
14	93	NOT FOUND							
15	128	NOT FOUND							
16	146	NOT FOUND							
17	91	NOT FOUND							
18	146	NOT FOUND							
19	108	NOT FOUND							
20	146	NOT FOUND							
21	108	NOT FOUND							
22	45	NOT FOUND							
23	108	NOT FOUND							
24	108	NOT FOUND							
25	100	NOT FOUND							
26	116	NOT FOUND							
27	105	NOT FOUND							
28	70	NOT FOUND							
29	106	NOT FOUND							
30	117	NOT FOUND							
31	136	579	8:41	31	1.000	A BB	603924.	40.000 NG	6.23
32	77	NOT FOUND							
33	114	NOT FOUND							
34	82	NOT FOUND							
35	107	NOT FOUND							
36	139	NOT FOUND							
37	180	NOT FOUND							
38	125	NOT FOUND							
39	122	NOT FOUND							
40	93	NOT FOUND							
41	162	NOT FOUND							
42	180	NOT FOUND							
43	128	NOT FOUND							
44	127	NOT FOUND							
45	162	NOT FOUND							
46	108	579	8:41	31	1.000	A BB	86656.	50.213 NG	7.82 NO
47	91	NOT FOUND							
48	213	NOT FOUND							
49	225	NOT FOUND							
50	180	NOT FOUND							
51	159	NOT FOUND							
52	84	NOT FOUND							
53	107	NOT FOUND							
54	108	NOT FOUND							
55	162	NOT FOUND							
56	108	NOT FOUND							

NYDEC RA090 0507 ORGANIC

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
57	142	NOT FOUND								
58	1A2	NOT FOUND								
59	164	740	11:06	59	1.000	A BB	305640.	40.000	NG	6.23
60	216	NOT FOUND								
61	216	NOT FOUND								
62	237	NOT FOUND								
63	196	NOT FOUND								
64	196	NOT FOUND								
65	162	NOT FOUND								
66	162	NOT FOUND								
67	162	NOT FOUNO								
68	216	NOT FOUND								
69	65	NOT FOUND								
70	158	NOT FOUND								
71	168	NOT FOUND								
72	163	NOT FOUND								
73	165	NOT FOUNO								
74	152	NOT FOUNO								
75	138	NOT FOUND								
76	153	NOT FOUND								
77	184	NOT FOUND								
78	109	NOT FOUND								
79	165	NOT FOUNO								
80	168	NOT FOUND								
81	250	NOT FOUND								
82	143	NOT FOUNO								
83	143	NOT FOUND								
84	232	NOT FOUND								
85	149	NOT FOUNO								
86	97	NOT FOUNO								
87	204	NOT FOUNO								
88	166	NOT FOUNO								
89	138	NOT FOUND								
90	152	NOT FOUND								
91	77	NOT FOUNO								
92	188	877	13:10	92	1.000	A BB	370880.	40.000	NG	6.23
93	240	1123	16:51	93	1.000	A BB	223820.	40.000	NG	6.23
94	264	1290	19:22	94	1.000	A BB	163384.	40.000	NG	6.23
95	112	359	5:23	1	0.769	A BB	10464.	1.283	NG	0.20
96	99	NOT FOUNO								
97	82	515	7:44	31	0.889	A BB	584424.	71.689	NG	11.16
98	172	676	10:09	59	0.914	A BB	720256.	75.349	NG	11.73
99	330	811	12:10	59	1.096	A BB	23060.	13.675	NG	2.13
100	212	1009	15:09	93	0.898	A BV	674908.	90.004	NG	14.02
101	244	1021	15:19	93	0.909	A BB	564624.	99.991	NG	15.57

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:02	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:47		10.000			50.00		0.739	
3	3:48		10.000			50.00		1.387	
4	4:21		10.000			50.00		1.417	
5	4:19		10.000			50.00		0.347	
6	4:45		20.000			50.00		1.494	
7	4:53		10.000			50.00		1.576	
8	5:13		10.000			50.00		0.953	
9	5:42		10.000			50.00		0.828	

NYDEC RA090 0507 ORGANIC

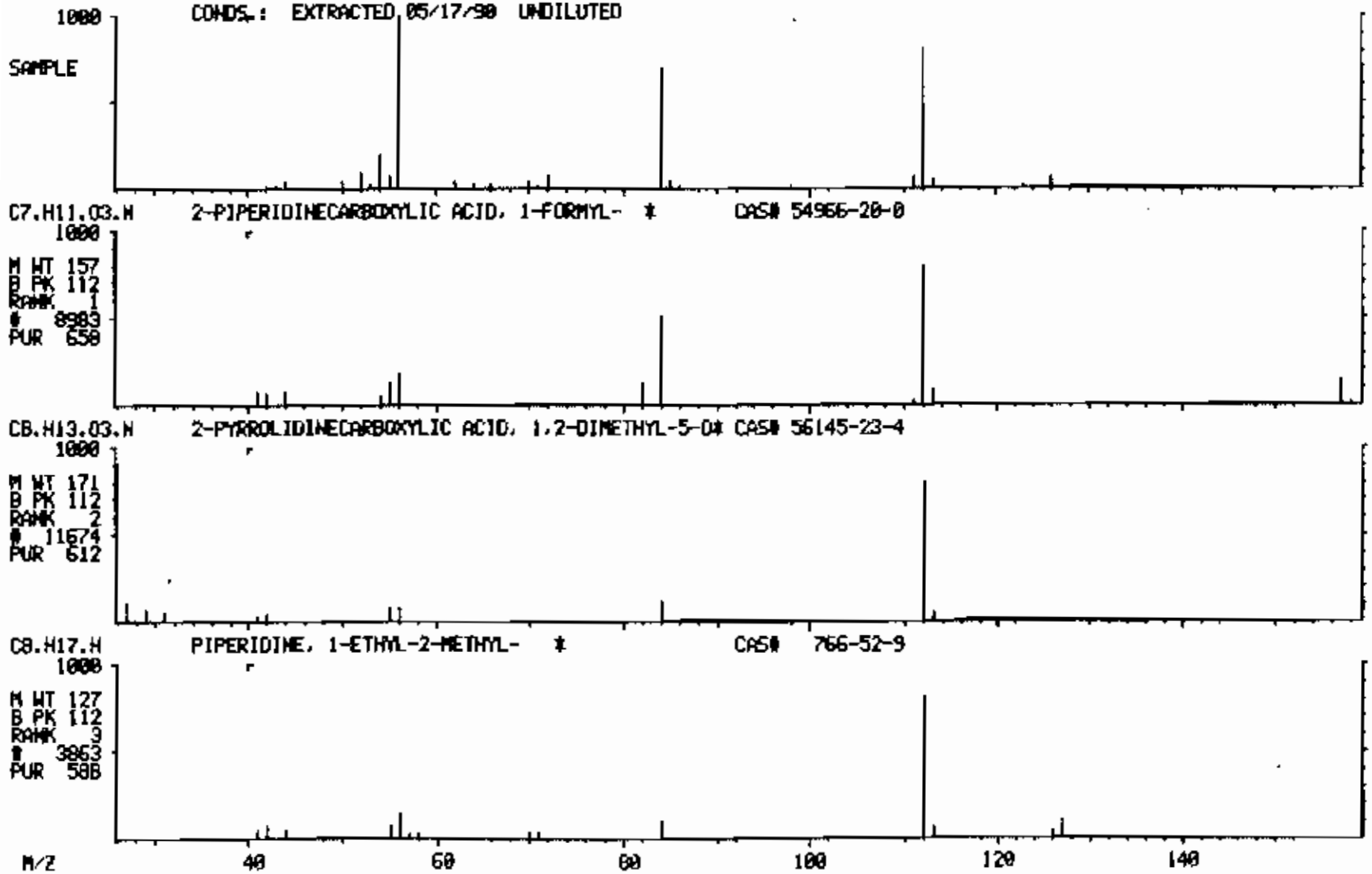
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
10	6:04		10.000			50.00		0.919	
11	6:33		10.000			50.00		2.028	
12	6:37		10.000			50.00		2.460	
13	6:42		10.000			50.00		0.625	
14	6:41		20.000			50.00		1.874	
15	6:46		10.000			50.00		1.846	
16	6:59		10.000			50.00		1.839	
17	7:02		10.000			50.00		3.265	
18	7:04		10.000			50.00		1.761	
19	7:11		10.000			50.00		0.996	
20	7:16		10.000			50.00		1.755	
21	7:19		10.000			50.00		1.459	
22	7:22		10.000			50.00		1.748	
23	7:31		10.000			100.00		1.260	
24	7:31		10.000			100.00		1.260	
25	7:32		10.000			50.00		0.821	
26	7:35		10.000			50.00		0.476	
27	7:33		10.000			50.00		2.221	
28	7:33		10.000			50.00		1.166	
29	7:36		10.000			50.00		1.970	
30	7:43		10.000			50.00		1.036	
31	8:43	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
32	7:47		10.000			50.00		0.534	
33	7:59		10.000			50.00		0.225	
34	8:05		10.000			50.00		0.944	
35	8:14		10.000			50.00		0.440	
36	8:12		10.000			50.00		0.239	
37	8:13		10.000			50.00		0.339	
38	8:15		10.000			50.00		0.727	
39	8:20		100.000			50.00		0.218	
40	8:22		10.000			50.00		0.559	
41	8:31		10.000			50.00		0.315	
42	8:38		10.000			50.00		0.341	
43	8:45		10.000			50.00		1.218	
44	8:48		10.000			50.00		0.661	
45	8:49		20.000			50.00		0.334	
46	8:43	1.00	10.000	0.10	50.21	50.00	0.115	0.114	1.00
47	9:06		10.000			50.00		0.057	
48	8:52		10.000			50.00		0.198	
49	8:54		10.000			50.00		0.190	
50	8:57		10.000			50.00		0.326	
51	9:01		20.000			50.00		0.426	
52	9:14		10.000			50.00		0.200	
53	9:26		10.000			50.00		0.435	
54	9:26		10.000			50.00		0.038	
55	9:33		10.000			50.00		0.253	
56	9:33		10.000			50.00		0.003	
57	9:42		10.000			50.00		0.853	
58	9:50		10.000			50.00		0.502	
59	11:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	9:55		10.000			100.00		0.601	
61	9:55		10.000			100.00		0.601	
62	9:54		10.000			50.00		0.339	
63	10:03		20.000			50.00		0.415	
64	10:07		20.000			50.00		0.417	
65	10:16		20.000			50.00		0.514	

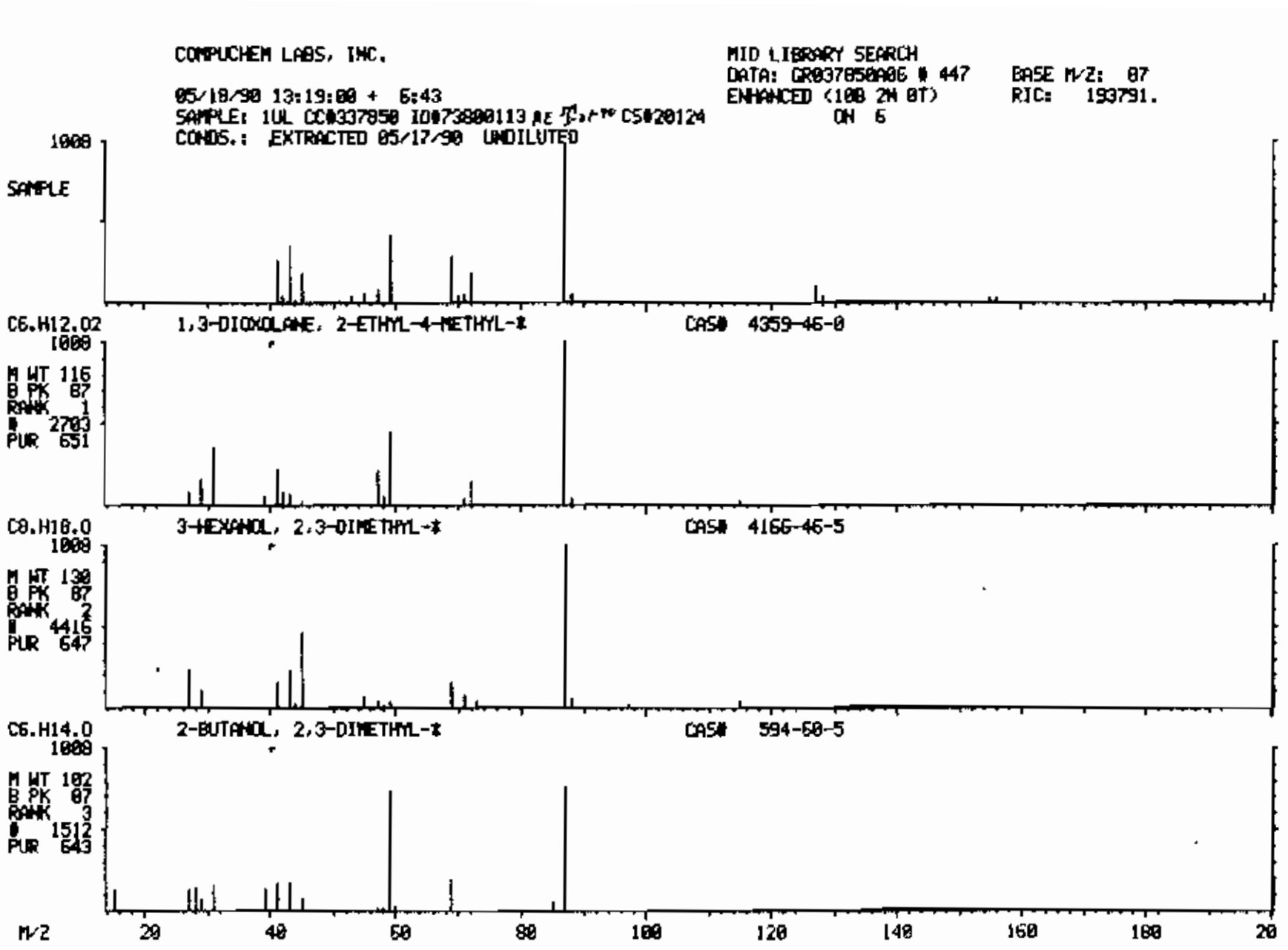
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
66	10:22		10.000			50.00		1.441	
67	10:25		10.000			50.00		1.170	
68	10:19		10.000			50.00		0.594	
69	10:29		10.000			50.00		0.545	
70	10:37		20.000			50.00		0.513	
71	10:40		20.000			50.00		0.278	
72	10:43		10.000			50.00		1.552	
73	10:49		10.000			50.00		0.393	
74	10:57		10.000			50.00		1.901	
75	11:04		20.000			50.00		0.424	
76	11:12		10.000			50.00		1.153	
77	11:13		40.000			50.00		0.149	
78	11:15		10.000			50.00		0.304	
79	11:23		10.000			50.00		0.478	
80	11:26		10.000			50.00		1.679	
81	11:23		10.000			50.00		0.527	
82	11:33		20.000			50.00		0.825	
83	11:39		20.000			50.00		0.873	
84	11:35		20.000			50.00		0.273	
85	11:42		10.000			50.00		1.776	
86	11:49		10.000			50.00		0.524	
87	11:52		10.000			50.00		0.511	
88	11:54		10.000			50.00		1.196	
89	11:55		20.000			50.00		0.406	
90	11:54		20.000			50.00		0.453	
91	12:07		10.000			50.00		2.581	
92	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
93	16:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
94	19:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
95	5:25	0.99	0.742	1.04	1.28	50.00	0.043	1.664	0.03
96	6:32		0.948			50.00		1.866	
97	7:46	1.00	0.875	1.02	71.69	50.00	0.774	0.540	1.43
98	10:11	1.00	0.906	1.01	75.35	50.00	1.885	1.251	1.51
99	12:14	1.00	1.118	0.98	13.67	50.00	0.060	0.221	0.27
100	15:12	1.00	10.000	0.09	90.00	50.00	2.412	1.340	1.80
101	15:23	1.00	0.907	1.00	99.99	50.00	2.018	1.009	2.00

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GR037050A06 # 350 BASE M/Z: 56
ENHANCED (10B 2N 0T) RIC: 259823.
ON 6

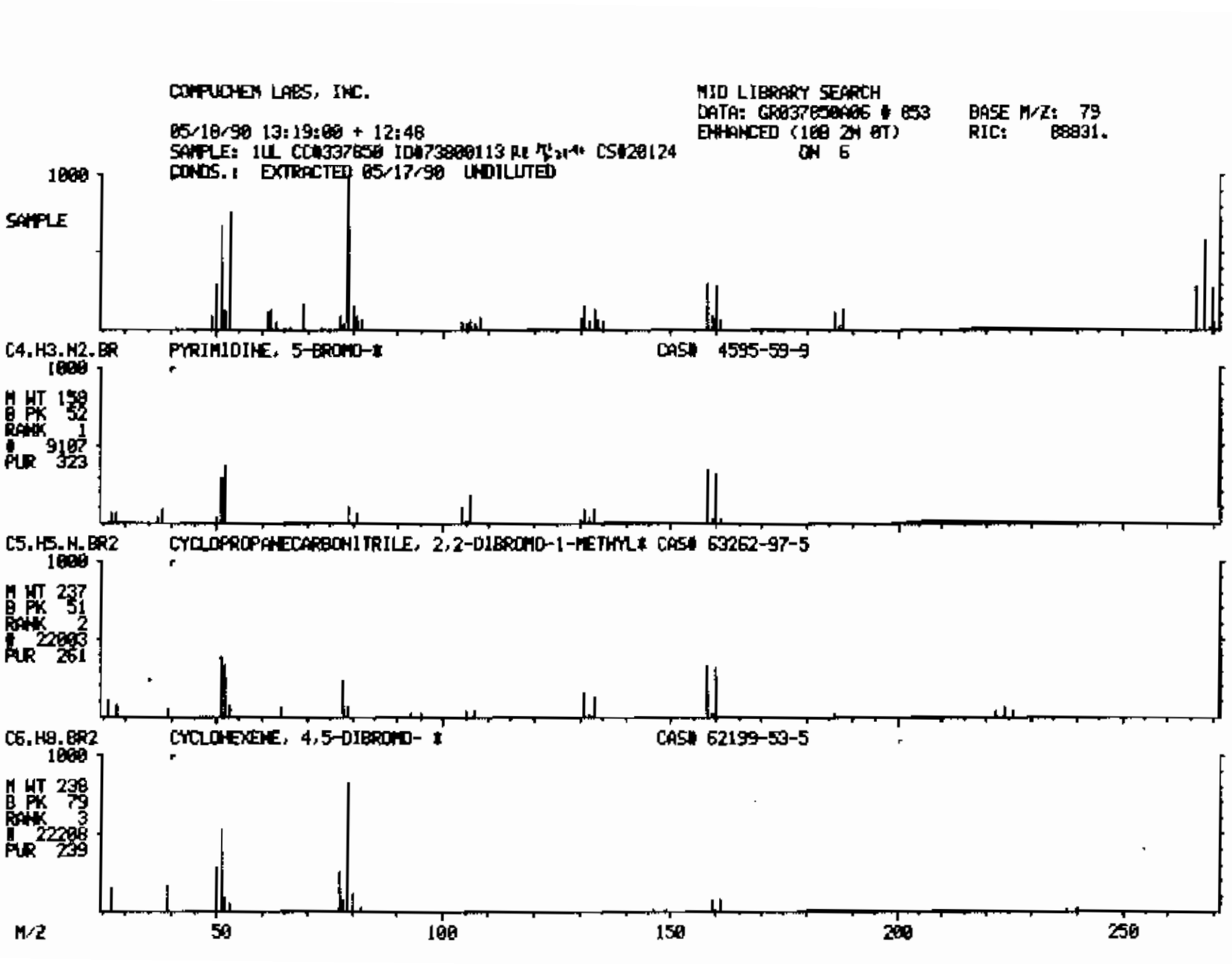
05/18/90 13:19:00 + 5:50
SAMPLE: 1UL CC#337850 ID#73000113 [illegible] CS#20124
CONDS.: EXTRACTED 05/17/90 UNDILUTED





NYDEC RA090 0507 ORGANIC

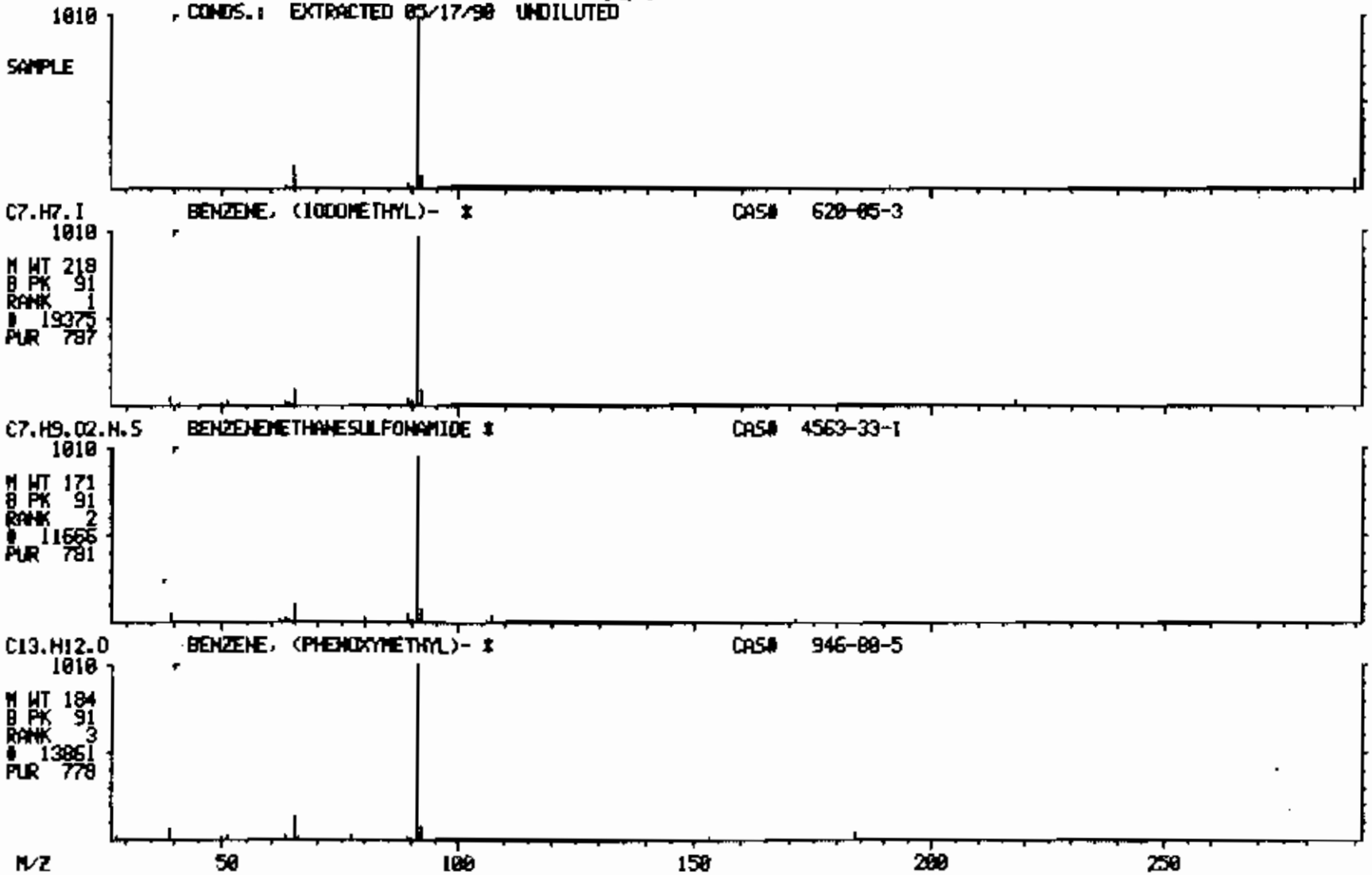
5


COMPUCHEM LABS, INC.
05/10/90 13:19:00 + 12:48
SAMPLE: 1UL CC#337850 ID#73000113 RT ﾌﾚｰﾑ# CS#20124
CONDS.: EXTRACTED 05/17/90 UNDILUTED
MID LIBRARY SEARCH
DATA: GR037850A06 # 853
ENHANCED (100 2M 0T)
BASE M/Z: 79
RIC: 88831.
ON 6
1000
SAMPLE
C4.H3.N2.BR PYRIMIDINE, 5-BROMO-# CAS# 4595-59-9
M WT 158
B PK 52
RANK 1
9107
PUR 323
C5.H5.N.BR2 CYCLOPROPANECARBONITRILE, 2,2-DIBROMO-1-METHYL# CAS# 63262-97-5
M WT 237
B PK 51
RANK 2
22003
PUR 261
C6.H8.BR2 CYCLOHEXENE, 4,5-DIBROMO- # CAS# 62199-53-5
M WT 238
B PK 79
RANK 3
22208
PUR 239
M/Z
50
100
150
200
250

COMPUCHEM LABS, INC.

MID LIBRARY SEARCH
DATA: GR037050A05 #1133 BASE M/Z: 91
ENHANCED (100 2N 0T) RIC: 41727.
ON 6

05/10/90 13:19:00 + 17:00
SAMPLE: 1UL CC#337050 ID#73000113 Rf T^{1}_{4}-t_{8} CS#20124
CONDS.: EXTRACTED 05/17/90 UNDILUTED



MAST5-6

LAB INSTRUCTIONS:

CASE#: 20124 DUE DATE:

GC/MS WORKSHEET COMPUCHEM#: 337850R J[ ] R[X] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

SEMI-VOA + L.S. 3rd Ed SW-846, METHOD 8270
S-V EXTRACTION, EPA/METHOD 3510
LOW LEVEL LIQUID

[redacted]

Sample Prep Code---079
Instrument Code----280
Compound List------379
Surrogate Std------393
Internal Std-------035

15 PEAK LIBRARY SEARCH REQUIRED

SAS#: EPA#: 730 5/16 73800113 RE 93-11-10

GC/MS ANALYSIS
Volumes mixed: BN 200 ul Acid ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 05/17/90
JFTPP Filename DH900518C06 Disk ( )
Standard Filename HH900518C06 Disk ( )
Sample Filename GR037850A06 Disk ( )

RECEIVED
MAY 22 1990

ANALYST(S): Injection [redacted] Work-up 159

GC/MS REVIEW

complete 5.18.90 (SM)

CONDITION CODE: ES

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,GL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CY,CS,PC,QT,HS ED,IF,LA,DI,CO,RN,DW,DA

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 4

# of Hits: 0

# of Surrogate Outliers: 3

Quality Assurance Notice(s):

Notices Required 2

GC/MS Review [signature] Date 5/21/90 Auditor [signature] Date 5/21/90

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): GA037850A06 / GH037850A22

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

AC516 (06/87)

EXTRACTION WORKSHEET

Semi-volatiles/Miscellaneous

CompuChem Laboratories Inc

ASSIGNED TO: Tammy Williams

DATE ASSIGNED 5/11/90

EMP ID NUMBER 1289

QUEUE 127

	SAMPLE NUMBER	PREP CODE	CASE #	CLIENT #	QC SAMPLE TYPE	QC SAMPLE ORIG NO.	BOTTLE #	SAMPLE VOLUME(ml)	FINAL EXTRACT VOL/ml SV B/N	FINAL EXTRACT VOL/ml ACID	ADJUSTED PH B/N	ADJUSTED PH A	COMMENTS
1	337843R	-079	20124	78800 106			2 of 3	500ml	0.5		13	1	Use 500ml sample volume for BE only (ALL Extractions)
2	337844R			78800 107			2 of 3	500ml	0.5		13	1	Add 0.5ml surr. Add 0.5ml spike.
3	337852R		↓	78800 113			2 of 3	500ml	0.5		13	1	Conc. to 0.5ml final volume
4	337846R						—	—	—	—	—	—	add (2x) ml validation spike to BE only
5	337848R						—	—	—	—	—	—	
6	337832R		20016	mw-4			2 of 3	500ml	0.5		13	1	
7	337858R		14698	E0205 1080									out RE: sample.
8	337856R		↓	E025 21024			3 of 3	500ml	0.5		13	1	
9	337857R		19652	AAFT $1095			3 of 3						→ continuous extract.
10													
11													
12													
13	340130	↓		SBLK 31	B1		N/A	500ml	0.5	~~0.5~~ 1.0	13	1	

		S-VOL	ACID	B/N	OTHER	OTHER
SURROGAT	NO.	393				
	AMT.	0.5ml				
	LOT	32071				
SPIKE	NO.		3012	2021		valid spike
	AMT.					
	LOT		N/A	N/A		N/A

MANUAL COUNTER 5101878

FINAL VOLUME VERIFIED Tammie Williams

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5-18-90

SURROGATE & SPIKE ADDED CORRECTLY BA 5-17-90 (INT / DATE)

ISSUED BY:

RECEIVED 1289

526

HYDEC RA090 0507 ORGANIC

COMPUCHEM # 037850 FILE: GR037850A06 COMPOUND LIST 170 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	467	196000	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	1
481	79		PYRIDINE (Z9#1)				BDL	1
509	69		ETHYLMATHACRYLATE (Z9#2)				BDL	1
542	89		PARALDEHYDE (Z9#3)				BDL	1
510	93		2-PICOLINE (Z9#56)				BDL	2
535	88		NITROSOMETHYLETHYLAMINE (Z9				BDL	1
543	80		METHYL METHANE SULFONATE (Z				BDL	1
499	102		N-NITROSODIETHYLAMINE (Z9#6				BDL	1
514	109		ETHYL METHANESULFONATE (Z9#				BDL	1
610	94		PHENOL (G1#3)				BDL	1
473	93		ANILINE (G1#4)				BDL	1
505	167		PENTACHLOROETHANE (Z9#8)				BDL	1
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	2
601	128		2-CHLOROPHENOL (G1#6)				BDL	1
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	1
506	91		BENZYL CHLORIDE (Z9#9)				BDL	1
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	1
474	108		BENZYL ALCOHOL (G1#9)				BDL	1
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	1
620	108		2-METHYLPHENOL (G1#11)				BDL	1
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	1
621	108		3-METHYLPHENOL (F1#2)				BDL	1
622	108		4-METHYLPHENOL (G1#13)				BDL	1
528	100		N-NITROSOPYRROLIDINE (Z9#10				BDL	1
544	116		N-NITROSOMORPHOLINE (Z9#12)				BDL	1
500	105		ACETOPHENONE (Z9#11)				BDL	1
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	1
512	106		O-TOLUIDINE HYDROCHLORIDE (				BDL	1
436	117		HEXACHLOROETHANE (G1#15)				BDL	1
460	136	I	D8-NAPHTHALENE (IS#2)	579	604000	40.0		
440	77		NITROBENZENE (G1#16)				BDL	1
502	114		N-NITROSODIPIPERIDINE (Z9#1				BDL	1
438	82		ISOPHORONE (G2#2)				BDL	1
603	107		2,4-DIMETHYLPHENOL (G2#4)				BDL	1
606	139		2-NITROPHENOL (G2#3)				BDL	1
451	180		1,3,5-TRICHLOROBENZENE (Z9#				BDL	1
518	125		BENZAL CHLORIDE (Z9#16)				BDL	1
625	122		BENZOIC ACID (G2#5)				BDL	1
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	1
602	162		2,4-DICHLOROPHENOL (G2#7)				BDL	1
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	1
439	128		NAPHTHALENE (G2#9)				BDL	1

CORRECTED/REVIEWED BY _____
(QC/MB DATA REVIEWER)

DATE 5-21-90

COMPUCHEM # 037850 FILE: QR037850A06 COMPOUND LIST 170 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
475	127		4-CHLORDANILINE (B2#10)				BDL	1
631	162		2,6-DICHLOROPHENOL (Z9#15)				BDL	2
324	108		O-PHENYLENEDIAMINE (Z9#19)			50.2	80 BDL	1
515	91		ALPHA,ALPHA DIMETHYLPHENETH				BDL	1
537	213		HEXACHLOROPROPENE (Z9#21)				BDL	1
434	225		HEXACHLOROBUTADIENE (B2#11)				BDL	1
450	180		1,2,3-TRICHLOROBENZENE (Z9#				BDL	1
534	159		BENZOTRICHLORIDE (Z9#23)				BDL	2
536	84		N-NITROSO-DI-N-BUTYLAMINE (				BDL	1
608	107		P-CHLORO-M-CRESOL (B2#12)				BDL	1
526	108		P-PHENYLENEDIAMINE (Z9#20)				BDL	1
503	162		SAFROLE (Z9#27)				BDL	1
525	108		M-PHENYLENEDIAMINE (Z9#26)				BDL	1
477	142		2-METHYLNAPHTHALENE (B2#13)				BDL	1
569	142		1-METHYLNAPHTHALENE (T2#28)				BDL	1
495	164	I	D10-ACENAPHTHENE (IS#3)	740	306000	40.0		
457	216		1,2,4,5-TETRACHLOROBENZENE				BDL	1
513	216		1,2,3,5-TETRACHLOROBENZENE				BDL	1
435	236		HEXACHLOROCYCLOPENTADIENE (				BDL	1
611	196		2,4,6-TRICHLOROPHENOL (B3#3				BDL	2
626	196		2,4,5-TRICHLOROPHENOL (B3#4				BDL	2
527	162		ISOSAFROLE (Z9#30)				BDL	2
416	162		2-CHLORONAPHTHALENE (B3#5)				BDL	1
564	162		1-CHLORONAPHTHALENE (F4#2)				BDL	1
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	1
478	65		2-NITROANILINE (B3#6)				BDL	1
504	158		1,4-NAPTHOQUINONE (Z9#32)				BDL	2
491	168		1,4-DINITROBENZENE (F3#2)				BDL	2
425	163		DIMETHYL PHTHALATE (B3#7)				BDL	1
428	165		2,6-DINITROTOLUENE (B3#15)				BDL	1
402	152		ACENAPHTHYLENE (B3#8)				BDL	1
479	138		3-NITROANILINE (B3#9)				BDL	2
401	153		ACENAPHTHENE (B3#10)				BDL	1
605	184		2,4-DINITROPHENOL (B3#11)				BDL	4
607	109		4-NITROPHENOL (B3#12)				BDL	1
427	165		2,4-DINITROTOLUENE (B3#14)				BDL	1
476	168		DIBENZOFURAN (B3#13)				BDL	1
507	250		PENTACHLOROBENZENE (Z9#33)				BDL	1
484	143		2-NAPHTHYLAMINE (Z9#35)				BDL	2
483	143		1-NAPHTHYLAMINE (Z9#36)				BDL	2
630	231		2,3,4,6-TETRACHLOROPHENOL (				BDL	2
424	149		DIETHYL PHTHALATE (B3#16)				BDL	1
519	97		ZINOPHOS (Z9#38)				BDL	1

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	1(
432	166		FLUORENE (GC#18)				BDL	1(
480	138		4-NITROANILINE (GC#19)				BDL	2(
498	152		5-NITRO-O-TOLUIDINE (I9#34)				BDL	2(
430	77		1,2-DIPHENYLHYDRAZINE (AZOB				BDL	1(
467	188	I	D10-PHENANTHRENE (IS#4)	877	371000	40.0		
499	240	I	D12-CHRYSENE (IS#5)	1123	224000	40.0		
497	264	I	D12-PERYLENE	1290	163000	40.0		
619	112	S	2-FLUOROPHENOL (SS#1)			1.3	1.%	
612	99	S	D5-PHENOL (SS#2)			0.0	0.%	
447	82	S	D5-NITROBENZENE (SS#3)			71.7	72.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			75.3	75.%	
628	330	S	2,4,6-TRIBROMOPHENOL (SS#5)			13.7	7.%	
471	212	S	D10-PYRENE			90.0	90.%	
496	244	S	D14-TERPHENYL (SS#6)			100.0	100.%	
CHECKSUMS:								
14265.				5076	1864000.	642.2		50.

CORRECTED/REVIEWED BY _____
(GC/MS DATA REVIEWER)

DATE 5-21-8

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
95	619	2-FLUOROPHENOL (SS#1)	1.3	200.0	1.	21-100	
96	612	05-PHENOL (SS#2)	NOT FOUND			10- 94	
97	447	D5-NITROBENZENE (SS#3)	71.7	100.0	72.	35-114	X
98	448	2-FLUOROBIPHENYL (SS#4)	75.3	100.0	75.	43-116	X
99	628	2,4,6-TRIBROMOPHENOL (SS#5)	13.7	200.0	7.	10-123	
*1	471	D10-PYRENE	90.0	100.0	90.	40-130*	X
*1	496	D14-TERPHENYL (SS#6)	100.0	100.0	100.	33-141	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

3✓

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\ \text{UL}}{\text{VOLUME SURROGATE ADDED (UL)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \frac{\text{DILUTION}}{\text{FACTOR}} \times 2 =$$

$$\frac{1000\ \text{UL}}{500\ \text{UL}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY L. Heard
(GC/MS DATA REVIEWER)

DATE 5-21-90

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
467	188	I	D10-PHENANTHRENE (IS#4)	877	371000	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	3(
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	1(
567	169		DIPHENYLAMINE (F3#3)				BDL	1(
508	213		1,3,5-TRINITROBENZENE (Z9#4				BDL	2(
539	108		PHENACETIN (Z9#42)				BDL	1(
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	1(
577	234		DIALLATE (TRANS ISOMER)				BDL	1(
541	125		DIMETHOATE (Z9#44)				BDL	1(
433	284		HEXACHLOROBENZENE (G4#5)				#DL	1(
485	169		4-AMINOBIPHENYL (Z9#45)				BDL	1(
522	173		PRONAMIDE (Z9#46)				BDL	1(
609	266		PENTACHLOROPHENOL (G4#6)				BDL	2(
453	236		PENTACHLORONITROBENZENE (Z9				BDL	1(
444	178		PHENANTHRENE (G4#7)				BDL	1(
403	178		ANTHRACENE (G4#8)				BDL	1(
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	1(
516	97		METHAPYRILENE (Z9#48)				BDL	2(
549	211		CYCLOPHOSPHAMIDE (Z9#49)				BDL	5(
431	202		FLUORANTHENE (G4#10)				BDL	1(
459	240	I	D12-CHRYSENE (IS#5)	1123	224000	40.0		
404	184		BENZIDINE (D5#2)				BDL	1(
445	202		PYRENE (G5#3)				BDL	1(
530	185		ARAMITE (Z9#50)				BDL	2(
487	225		P-DIMETHYLAMINOAZOBENZENE (				BDL	1(
523	139		CHLOROBENZILATE (Z9#52)				BDL	1(
545	212		3,3'-DIMETHYLBENZIDINE (Z9#				BDL	2(
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	1(
488	181		2-ACETYLAMINO FLUORENE (F5#				BDL	1(
489	231		4,4'-METHYLENE-BIS(2-CHLORO				BDL	1(
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	1(
533	244		DIMETHOXYBENZIDINE (Z9#57)				BDL	1(
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	1(
405	228		BENZO(A)ANTHRACENE (G5#6)				BDL	1(
418	228		CHRYSENE (G5#8)				BDL	1(
497	264	I	D12-PERYLENE	1290	163000	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	1(
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	1(
517	256		7,12-DIMETHYLBENZANTHRACENE				BDL	1(
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	1(
406	252		BENZO(A)PYRENE (G6#5)				BDL	1(
565	268		3-METHYLCHOLANTHRENE (F6#2				BDL	1(
566	279		DIBENZO(A,J)ACRIDINE				BDL	1(

CORRECTED/REVIEWED BY _____
(QC/MS DATA REVIEWER)

DATE 5-11-94

COMPUCHEM # 037850 FILE: GR037850A06 COMPOUND LIST 173 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	1
417	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	1
408	276		BENZO(G,H,I)FERYLENE (G6#8)				BDL	1
576	234		DIALLATE (CIS ISOMER)				BDL	1
531	234		DIALLATE (TOTAL)				BDL	1
CHECKSUMS:								
10114.				3290	758000.	120.0		0.

CORRECTED/REVIEWED BY L. Heyd
(QC/MB DATA REVIEWER)

DATE 5-21-91

CORRECTION FACTOR CALCULATION:

$$\frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{FINAL EXTRACT VOLUME (ML)} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1000.\ \text{ML}}{500.\ \text{ML}} \times 0.5\text{ML} \times 1.0 \times 1 = 1.000$$

VERSION 9

CORRECTED/REVIEWED BY S. Hoult
(QC/MB DATA REVIEWER)

DATE 5-21-90

QUALITY ASSURANCE NOTICE

CompuChem # 337850

Client ID # 73800113

Case 20124

Surrogate recoveries for the SV fraction of this sample fell outside quality control limit in both the original and repeated extractions. Results were comparable between the two analyses. Since all other QC criteria associated with these analyses were met, we have attributed the out-of-control surrogate recoveries to the particular sample matrix, rather than to deficiencies in the laboratory's analytical system.

Under some circumstances, depending on the client's requirements, both sets of data will be reported. When only one report is required, the analyst considers whether or not the reextraction was completed within holding time specification in deciding which set of data to report. If holding times were met for both extractions, the analysis that appears to be least effected by the sample matrix will be reported.

Reviewer's Initials/ID L. Hall / 1712

Date 5-21-90

QAN35
880208

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Surrogate standards are added to all samples being processed for organic analyses. These standards contain one or more compounds intended to analytically mimic the responses or recoveries of the target compounds of interest. The recovery of the surrogate compound is compared to a control limit range to determine whether or not the laboratory's analytical system was in control at the time of sample processing.

In most cases, these control limits have been mandated by a referenced method or statement-of-work (the Contract Laboratory Program, for example). For some methods, however, the surrogate control limit range has not been established. In such instances, the laboratory has generated "advisory" ranges based on method validation studies performed internally and initial experience with the method on "real world" samples. These ranges are used to guide the analyst in evaluating the data. Statistically-based control limits, which will be used to determine whether or not a particular analysis must be repeated, will be generated as soon as sufficient historical data is accumulated.

Robert J. Whitehead
Manager, Quality Assurance