Comments for Sample AD28900 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 12-16-2001 Time: 12:24:12

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds, except for the presence of Decanedioic acid bis(2-Ethylhexyl)ester, also known as Bis(2-ethylhexyl) Sebacate, at an estimated level of 53 ug/L, and with a fit of 91 ug/L. This compound is also present in the Laboratory Blank at a level of 270 ug/L. According to the Merck Index (ref. no. 1263) the source of this compound could be an oil used in vacuum pumps. Therefore its presence in samples may be due to laboratory contamination.

AD 28900
3566/42850
11/26/01
Deca
53 ug/L
91/100
FB 28862

User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 12/16/2001 Time: 12:24:16

Sample: AD28900
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 12/16/01 12:15 Ended: 12/16/01 12:15 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		123		5.0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC0701\28900.D Vial: 5
Acq On : 7 Dec 2001 6:50 pm Operator: 209 GALOS
Sample : 11/28 gc/ms scan Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 11 15:47 2001 Quant Results File: GCMS1126.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed Nov 28 15:06:24 2001
Response via : Initial Calibration
DataAcq Meth : GCMS1126

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.67	152	805994	20.00	ug/l	-0.03
10) Naphthalene-d8	15.28	136	3067862	20.00	ug/l	-0.03
17) Acenaphthene-d10	20.56	164	1498554	20.00	ug/l	-0.02
29) Phenanthrene-d10	24.97	188	2189680	20.00	ug/l	-0.02
38) Chrysene-d12	33.00	240	1410769	20.00	ug/l	-0.03
44) Perylene-d12	37.10	264	984775	20.00	ug/l	-0.02
System Monitoring Compounds						
37) 2,4-DDD	30.06	235	160024	6.14	ug/mL	-0.01
Spiked Amount 5.000			Recovery = 122.80%			
Target Compounds						Qvalue
2) N-nitroso-dimethyl amine	5.25	74	121	N.D.		
3) bis(2-Chloroethyl)ether	0.00	93	0	N.D.		
4) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
5) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
6) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
7) 2,2'-oxybis(1-Chloropropan	0.00	45	0	N.D.		
8) N-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
9) Hexachloroethane	0.00	117	0	N.D.		
11) Nitrobenzene	0.00	77	0	N.D.		
12) Isophorone	0.00	82	0	N.D.		
13) bis(2-Chloroethoxy)methane	0.00	93	0	N.D.		
14) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
15) Naphthalene	15.33	128	2470	N.D.		
16) Hexachlorobutadiene	0.00	225	0	N.D.		
18) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
19) 2-Chloronaphthalene	0.00	162	0	N.D.		
20) Dimethylphthalate	0.00	163	0	N.D.		
21) 2,6-Dinitrotoluene	0.00	165	0	N.D.	d	
22) Acenaphthylene	0.00	152	0	N.D.		
23) Acenaphthene	0.00	153	0	N.D.		
24) 2,4-Dinitrotoluene	21.11	165	117	N.D.		
25) Diethylphthalate	22.07	149	1610	N.D.		
26) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
27) Fluorene	0.00	166	0	N.D.		
28) Azobenzen/ 1,2-Diphenylhyd	23.07	77	175	N.D.		

(#) = qualifier out of range (m) = manual integration

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Title : 209 625/TCLP calibration table
Last Update : Wed Nov 28 15:06:24 2001
Response via : Initial Calibration
DataAcq Meth : GCMS1126

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30)	N-Nitrosodiphenylamine	0.00	168	0	N.D.	
31)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
32)	Hexachlorobenzene	0.00	284	0	N.D.	
33)	Phenanthrene	25.05	178	1043	N.D.	
34)	Anthracene	25.05	178	1043	N.D.	
35)	Di-n-butylphthalate	26.99	149	35550	N.D.	
36)	Fluoranthene	0.00	202	0	N.D.	
39)	Pyrene	0.00	202	0	N.D.	
40)	Butylbenzylphthalate	31.49	149	395	N.D.	
41)	Benzo(a)anthracene	33.01	228	4064	N.D.	
42)	Bis(2-ethylhexyl)phthalate	33.29	149	17677	N.D.	
43)	Chrysene	33.08	228	329	N.D.	
45)	Di-n-Octylphthalate	35.03	149	711	N.D.	
46)	Benzo(b)fluoranthene	36.06	252	1113	N.D.	
47)	Benzo(k)fluoranthene	36.13	252	2289	N.D.	
48)	Benzo(a)pyrene	36.94	252	569	N.D.	
49)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
50)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
51)	Benzo(g,h,i)perylene	41.92	276	260	N.D.	

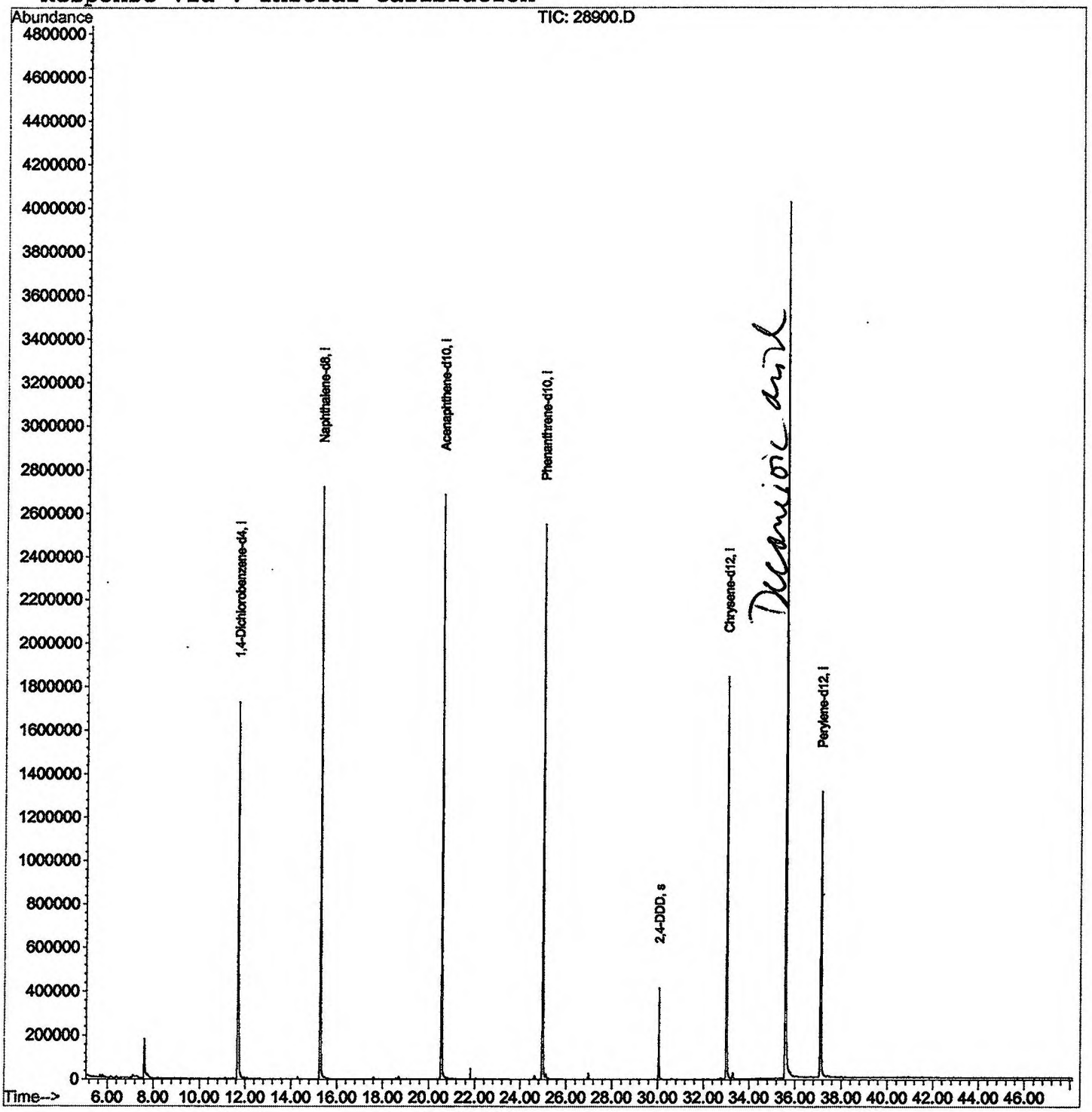
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC0701\28900.D
Acq On : 7 Dec 2001 6:50 pm
Sample : 11/28 gc/ms scan
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 11 15:47 2001

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00
Quant Results File: GCMS1126.RES

Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed Nov 28 15:06:24 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC0701\28900.D Vial: 5
Acq On : 7 Dec 2001 6:50 pm Operator: 209 GALOS
Sample : 11/28 gc/ms scan Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

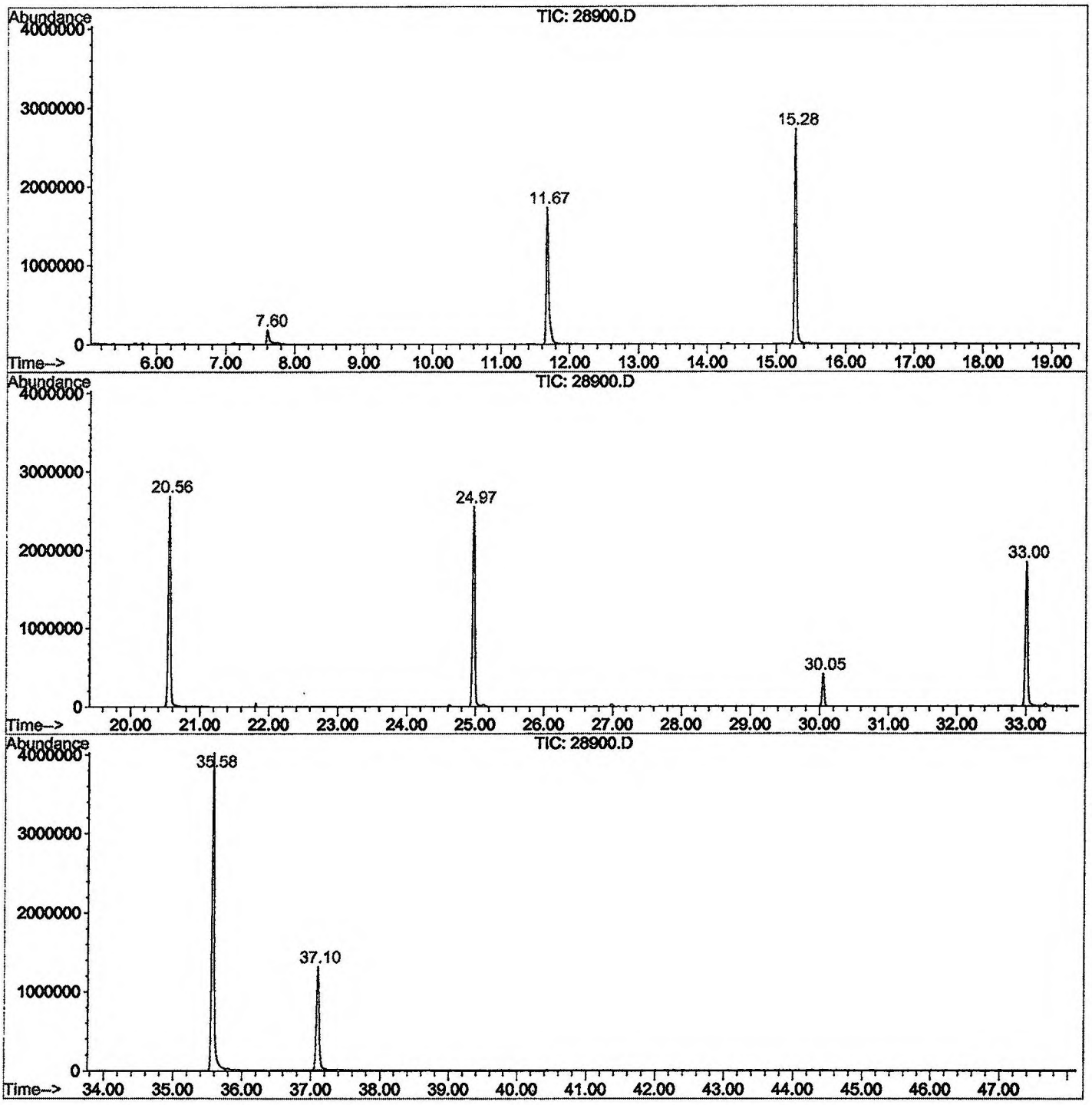
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	7.603	275	279	292	rBV	179027	481996	5.03%	1.174%
2	11.670	717	722	741	rBV	1726583	4378230	45.66%	10.660%
3	15.278	1109	1115	1133	rBV	2722098	5792489	60.41%	14.103%
4	20.556	1683	1690	1710	rBV	2686767	6113802	63.76%	14.885%
5	24.972	2165	2171	2183	rBV2	2550118	5801018	60.50%	14.124%
6	30.049	2720	2724	2731	rBV	414140	860624	8.98%	2.095%
7	33.005	3040	3046	3067	rBV2	1844288	4425735	46.16%	10.775%
8	35.575	3318	3326	3347	rBV	4020429	9588469	100.00%	23.345%
9	37.099	3484	3492	3513	rBV	1304968	3629876	37.86%	8.838%

Sum of corrected areas: 41072239

28900.D GCMS1126.M Tue Dec 11 16:10:25 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\DEC0701\28900.D
Operator : 209 GALOS
Acquired : 7 Dec 2001 6:50 pm using AcqMethod GCMS1126
Instrument : GC/MS 209
Sample Name: 11/28 gc/ms scan
Misc Info :
Vial Number: 5
Quant File :GCMS1126.RES (RTE Integrator)



28900.D GCMS1126.M Tue Dec 11 16:10:31 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0701\28900.D
Acq On : 7 Dec 2001 6:50 pm
Sample : 11/28 gc/ms scan
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

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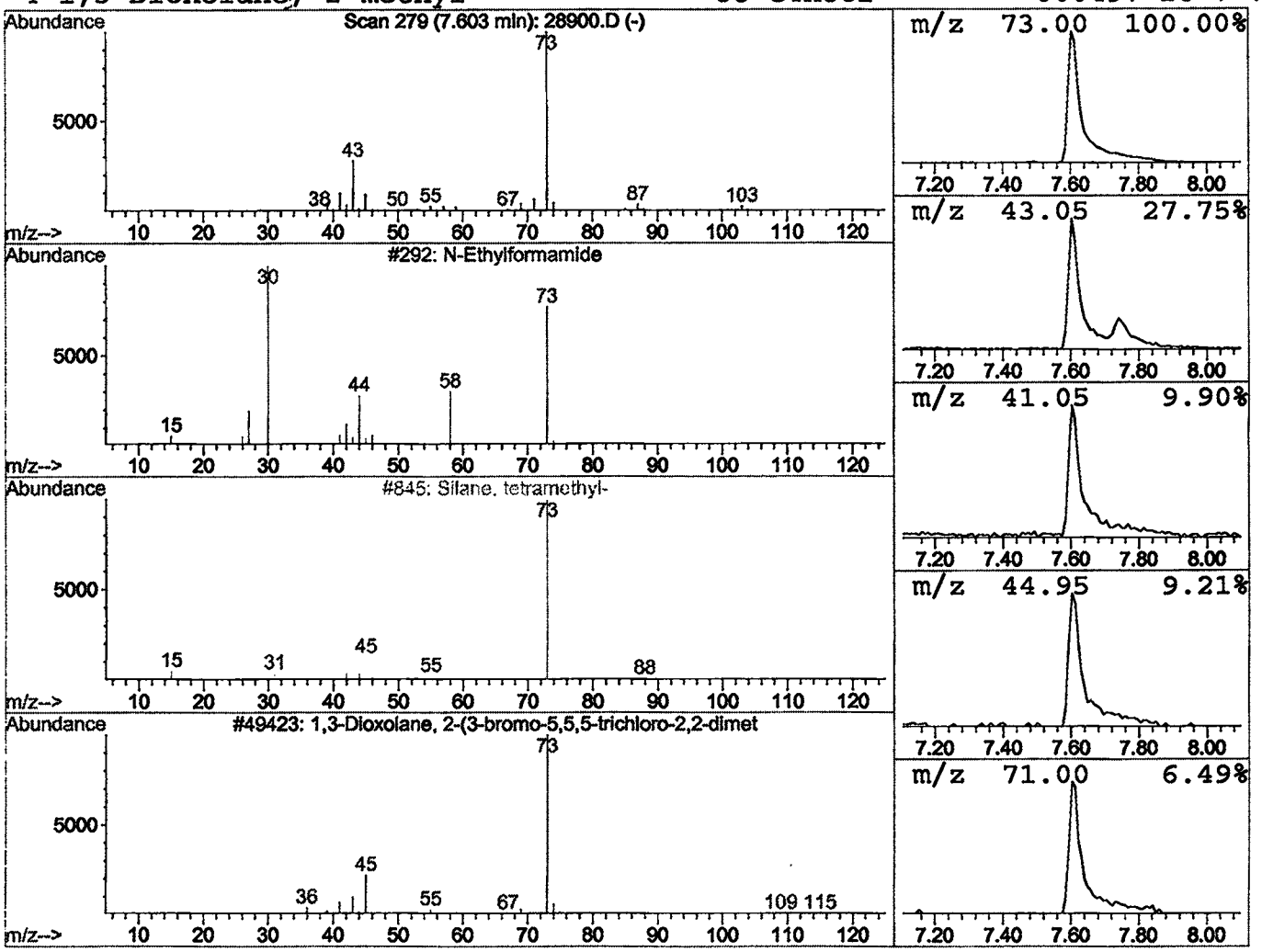
Peak Number 1 N-Ethylformamide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.60	2.20 ug/l	481996	1,4-Dichlorobenzene-d4	11.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	N-Ethylformamide	73	C3H7NO	000627-45-2	9
2	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9
3	1,3-Dioxolane, 2-(3-bromo-5,5,5-tri	352	C10H16BrCl3O2	000000-00-0	9
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	7



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0701\28900.D
Acq On : 7 Dec 2001 6:50 pm
Sample : 11/28 gc/ms scan
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

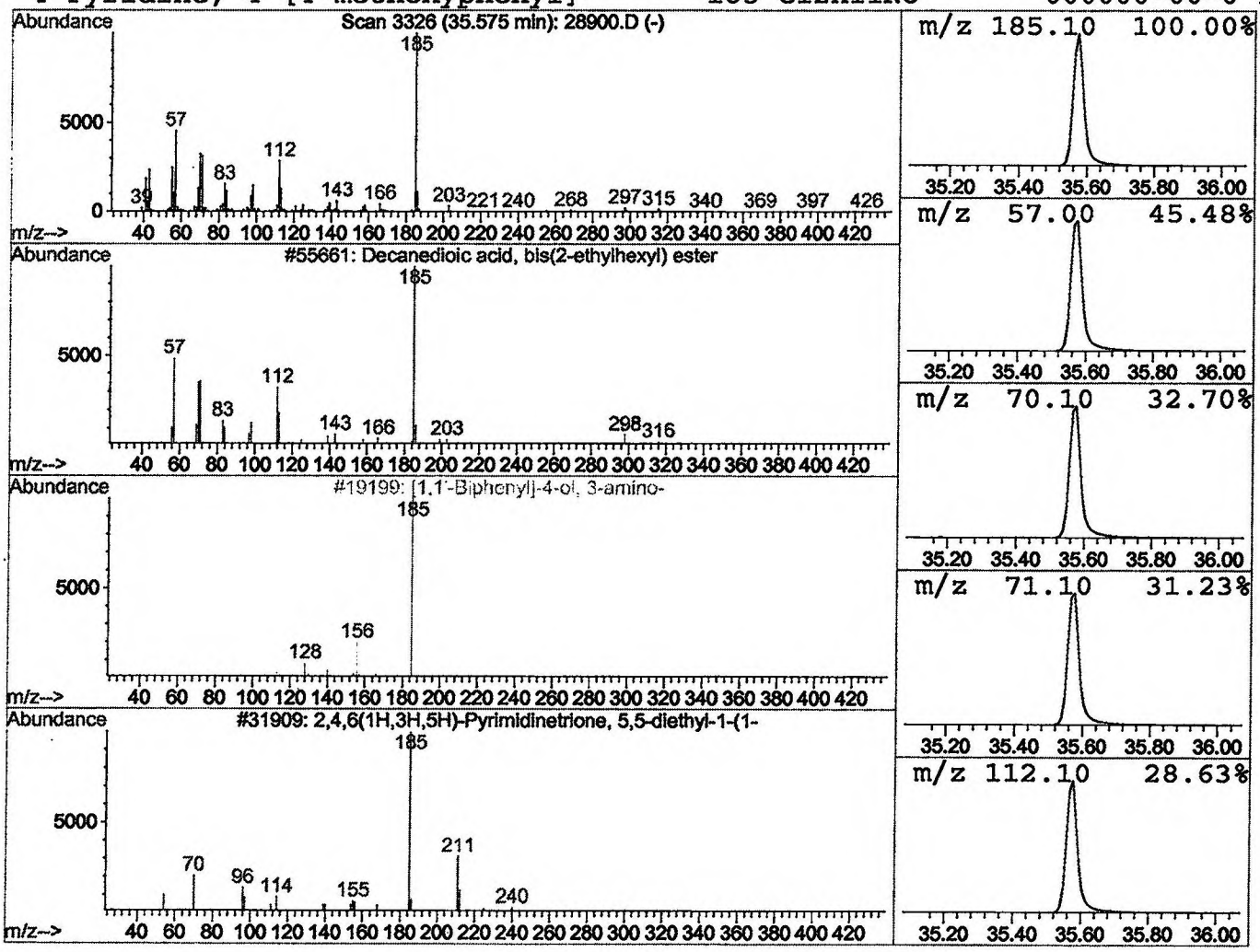
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Decanedioic acid, bis(2-ethylh Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
35.58	52.83 ug/l	9588470	Perylene-d12	37.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decanedioic acid, bis(2-ethylhexyl)	426	C26H50O4	000122-62-3	91
2	[1,1'-Biphenyl]-4-ol, 3-amino-	185	C12H11NO	001134-36-7	38
3	2,4,6(1H,3H,5H)-Pyrimidinetrione, 5	240	C12H20N2O3	051209-93-9	25
4	Pyridine, 4-[4-methoxyphenyl]-	185	C12H11NO	000000-00-0	17



Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 7 Dec 2001 6:50 pm
Data File: C:\HPCHEM\1\DATA\DEC0701\28900.D
Name: 11/28 gc/ms scan
Misc:
Method: C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title: 209 625/TCLP calibration table
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
N-Ethylformamide	7.60	2.2	ug/l	481996	ISTD01	11.67	4378230	20.0
Decanedioic acid, bi	35.58	52.8	ug/l	9588470	ISTD06	37.10	3629880	20.0

28900.D GCMS1126.M Tue Dec 11 16:10:45 2001