Comments for Sample AD28651 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 12-07-2001 Time: 14:55:09

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds.
The recovery for the Surrogate Standard in this sample was 107%. Recoveries for 16 of the 44 compounds in the LCS Standard were outside of their acceptance ranges. The pH of this sample when received was less than 2.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV3001\28651.D Vial: 49
Acq On : 30 Nov 2001 2:41 pm Operator: 209 GALOS
Sample : 11/23 scan Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 30 15:31 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	11.71	152	856612	20.00	ug/l	0.00
15) Naphthalene-d8	15.31	136	3316641	20.00	ug/l	0.00
26) Acenaphthene-d10	20.58	164	1594675	20.00	ug/l	0.00
42) Phenanthrene-d10	25.00	188	2216831	20.00	ug/l	0.00
53) Chrysene-d12	33.03	240	1315310	20.00	ug/l	0.00
59) Perylene-d12	37.12	264	876476	20.00	ug/l	0.00
System Monitoring Compounds						
52) 2,4-DDD	30.08	235	141499	5.36	ug/mL	0.00
Spiked Amount 5.000			Recovery = 107.20%			
Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-nitroso-dimethyl amine	5.27	74	101	N.D.		
4) Phenol	11.00	94	192	N.D.		
5) bis(2-Chloroethyl)ether	0.00	93	0	N.D.		
6) 2-Chlorophenol	0.00	128	0	N.D.		
7) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
8) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
9) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
10) 2-Methylphenol	0.00	108	0	N.D.		
11) 2,2'-oxybis(1-Chloropropan	0.00	45	0	N.D.		
12) 3&4-Methylphenol	0.00	108	0	N.D.		
13) N-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
14) Hexachloroethane	0.00	117	0	N.D.		
16) Nitrobenzene	0.00	77	0	N.D.		
17) Isophorone	0.00	82	0	N.D.		
18) 2-Nitrophenol	0.00	139	0	N.D.		
19) 2,4-Dimethylphenol	0.00	107	0	N.D.		
20) bis(2-Chloroethoxy)methane	0.00	93	0	N.D.		
21) 2,4-Dichlorophenol	0.00	162	0	N.D.		
22) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
23) Naphthalene	15.37	128	428	N.D.		
24) Hexachlorobutadiene	0.00	225	0	N.D.		
25) 4-Chloro-3-methylphenol	0.00	107	0	N.D.		
27) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
28) 2,4,6-Trichlorophenol	0.00	196	0	N.D.		
29) 2,4,5-Trichlorophenol	0.00	196	0	N.D.		
30) 2-Chloronaphthalene	0.00	162	0	N.D.		
31) Dimethylphthalate	0.00	163	0	N.D.		
32) 2,6-Dinitrotoluene	0.00	165	0	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

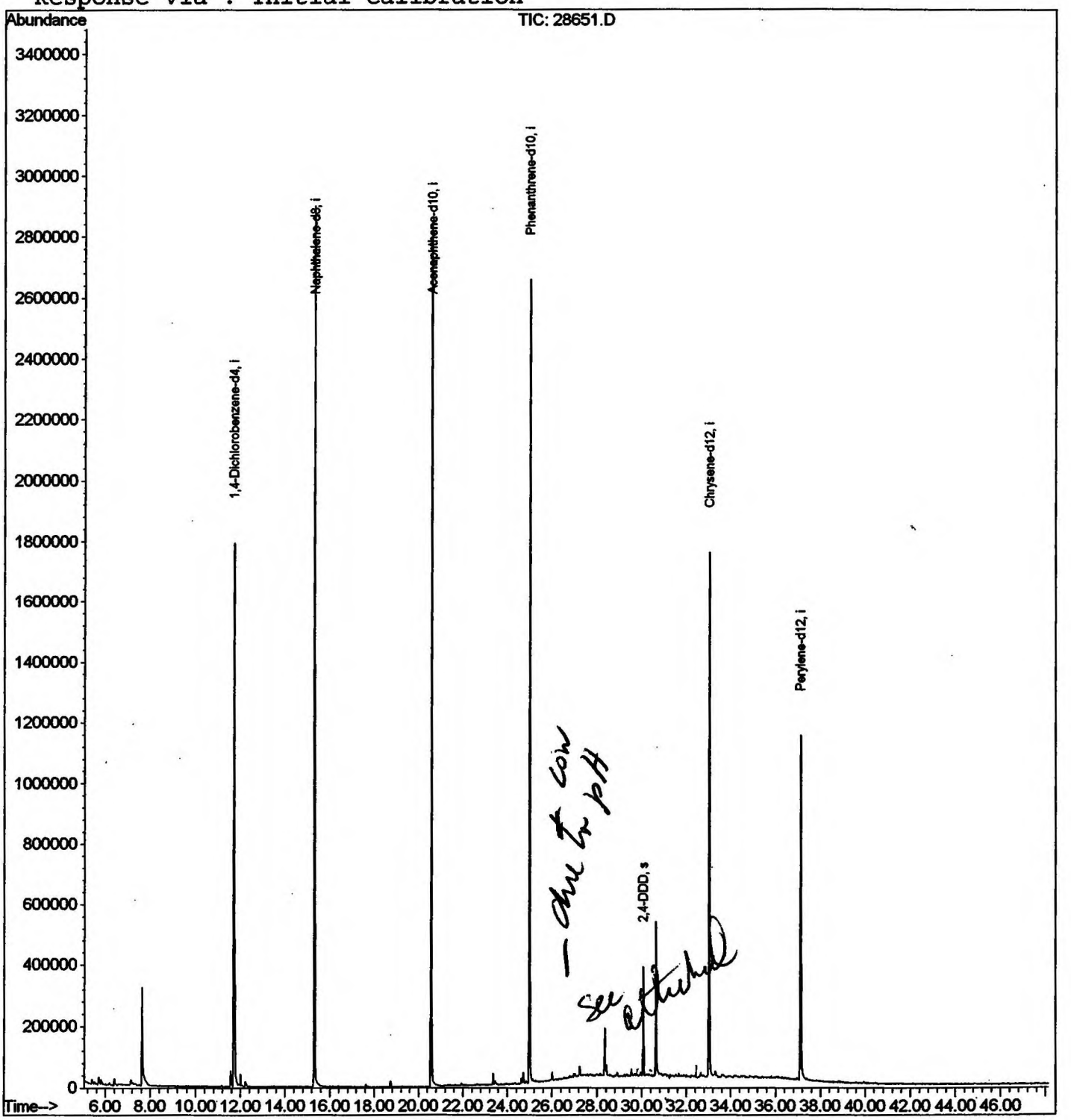
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
33)	Acenaphthylene	0.00	152	0	N.D.	
34)	Acenaphthene	0.00	153	0	N.D.	
35)	2,4-Dinitrophenol	0.00	184	0	N.D.	
36)	4-Nitrophenol	21.14	65	187	N.D.	
37)	2,4-Dinitrotoluene	21.01	165	289	N.D.	
38)	Diethylphthalate	22.09	149	659	N.D.	
39)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
40)	Fluorene	0.00	166	0	N.D.	
41)	Azobenzen/ 1,2-Diphenylhyd	0.00	77	0	N.D.	
43)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
44)	N-Nitrosodiphenylamine	0.00	168	0	N.D.	
45)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
46)	Hexachlorobenzene	0.00	284	0	N.D.	
47)	Pentachlorophenol	0.00	266	0	N.D.	
48)	Phenanthrene	25.06	178	369	N.D.	
49)	Anthracene	25.06	178	369	N.D.	
50)	Di-n-butylphthalate	27.01	149	12466	N.D.	
51)	Fluoranthene	28.70	202	787	N.D.	
54)	Pyrene	29.36	202	1086	N.D.	
55)	Butylbenzylphthalate	31.52	149	4524	N.D.	
56)	Benzo(a)anthracene	33.03	228	4322	N.D.	
57)	Bis(2-ethylhexyl)phthalate	33.31	149	12983	N.D.	
58)	Chrysene	33.11	228	799	N.D.	
60)	Di-n-Octylphthalate	35.04	149	1255	N.D.	
61)	Benzo(b)fluoranthene	36.09	252	607	N.D.	
62)	Benzo(k)fluoranthene	36.14	252	1130	N.D.	
63)	Benzo(a)pyrene	36.95	252	490	N.D.	
64)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
65)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
66)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV3001\28651.D Vial: 49
Acq On : 30 Nov 2001 2:41 pm Operator: 209 GALOS
Sample : 11/23 scan Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 30 15:31 2001 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\NOV3001\28651.D Vial: 49
Acq On : 30 Nov 2001 2:41 pm Operator: 209 GALOS
Sample : 11/23 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

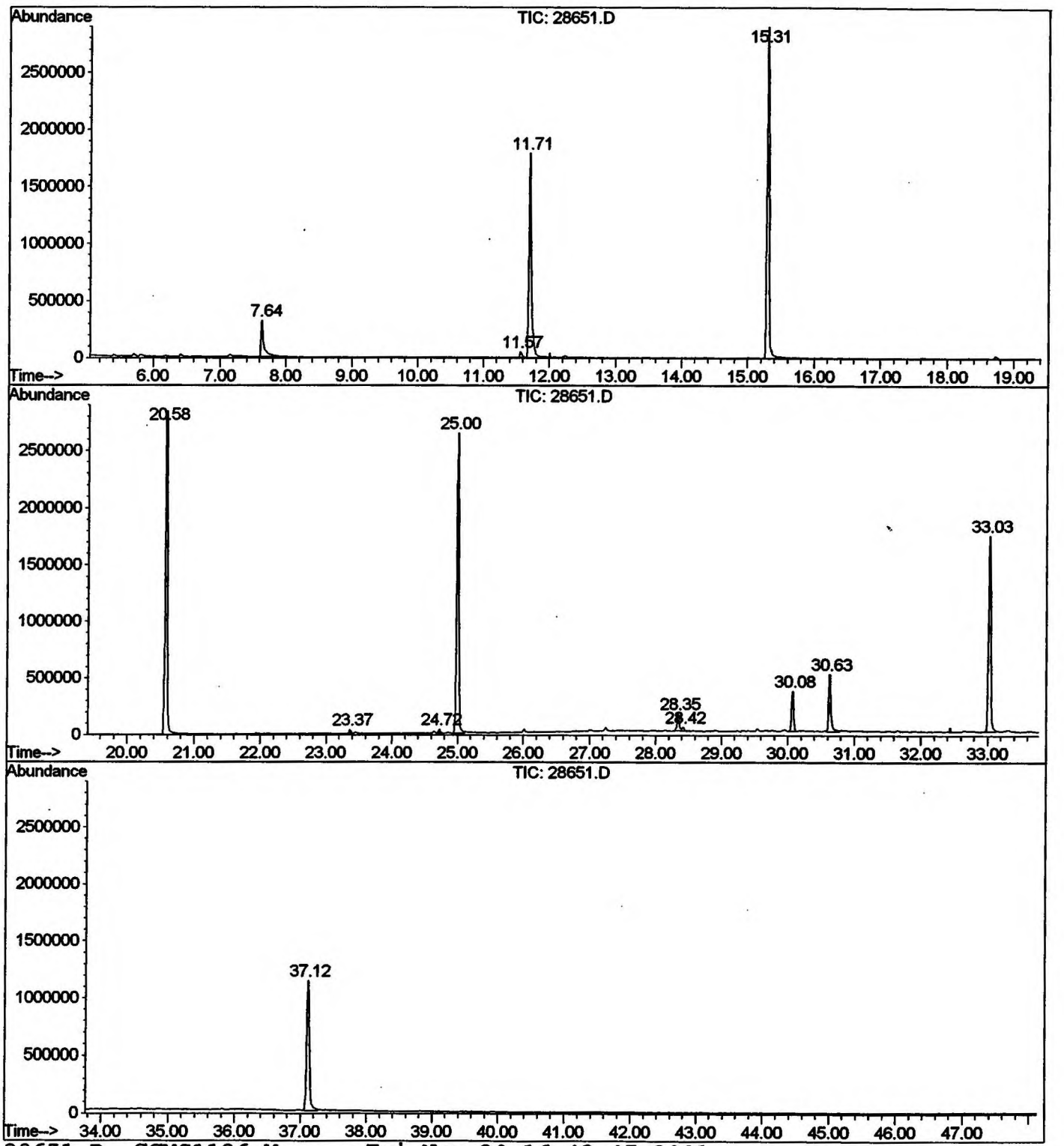
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	7.640	278	283	318	rBV	319008	984833	15.50%	2.918%
2	11.569	706	711	720	rBV	51706	125693	1.98%	0.372%
3	11.707	720	726	745	rBV	1787215	4572827	71.96%	13.547%
4	15.305	1112	1118	1137	rBV	2896937	6157442	96.90%	18.242%
5	20.584	1686	1693	1707	rBV	2840974	6354475	100.00%	18.826%
6	23.375	1991	1997	2001	rBV	35110	69222	1.09%	0.205%
7	24.724	2140	2144	2149	rVB	34838	64785	1.02%	0.192%
8	25.000	2167	2174	2186	rBV2	2643132	5713547	89.91%	16.927%
9	28.350	2533	2539	2544	rBV	149319	342627	5.39%	1.015%
10	28.424	2544	2547	2553	rVB2	34888	78409	1.23%	0.232%
11	30.076	2721	2727	2734	rVB	353641	762893	12.01%	2.260%
12	30.627	2782	2787	2803	rBV	504972	1212132	19.08%	3.591%
13	33.032	3042	3049	3062	rBV2	1721759	4103825	64.58%	12.158%
14	37.118	3487	3494	3510	rBV2	1129934	3211757	50.54%	9.515%

Sum of corrected areas: 33754467

28651.D GCMS1126.M Fri Nov 30 16:42:45 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\NOV3001\28651.D
Operator : 209 GALOS
Acquired : 30 Nov 2001 2:41 pm using AcqMethod GCMS1126
Instrument : GC/MS 209
Sample Name: 11/23 scan
Misc Info :
Vial Number: 49
Quant File :GCMS1126.RES (RTE Integrator)



28651.D GCMS1126.M Fri Nov 30 16:42:47 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\NOV3001\28651.D
Acq On : 30 Nov 2001 2:41 pm
Sample : 11/23 scan
Misc :
MS Integration Params: LSCINT.P

Vial: 49
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

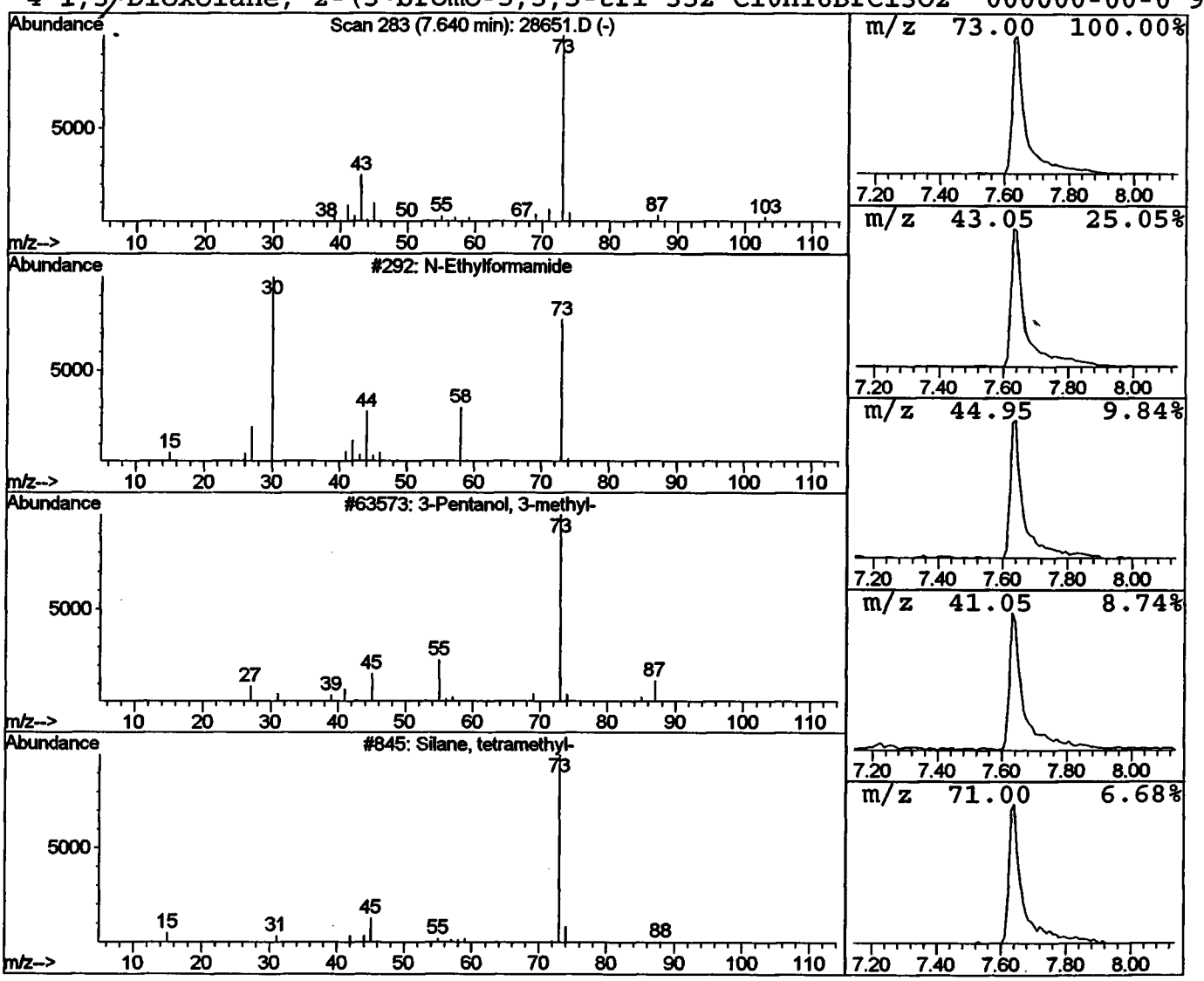
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 N-Ethylformamide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.64	4.31 ug/l	984833	1,4-Dichlorobenzene-d4	11.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	N-Ethylformamide	73	C3H7NO	000627-45-2	9
2	3-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	9
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9
4	1,3-Dioxolane, 2-(3-bromo-5,5,5-tri	352	C10H16BrCl3O2	000000-00-0	9



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\NOV3001\28651.D
Acq On : 30 Nov 2001 2:41 pm
Sample : 11/23 scan
Misc :
MS Integration Params: LSCINT.P

Vial: 49
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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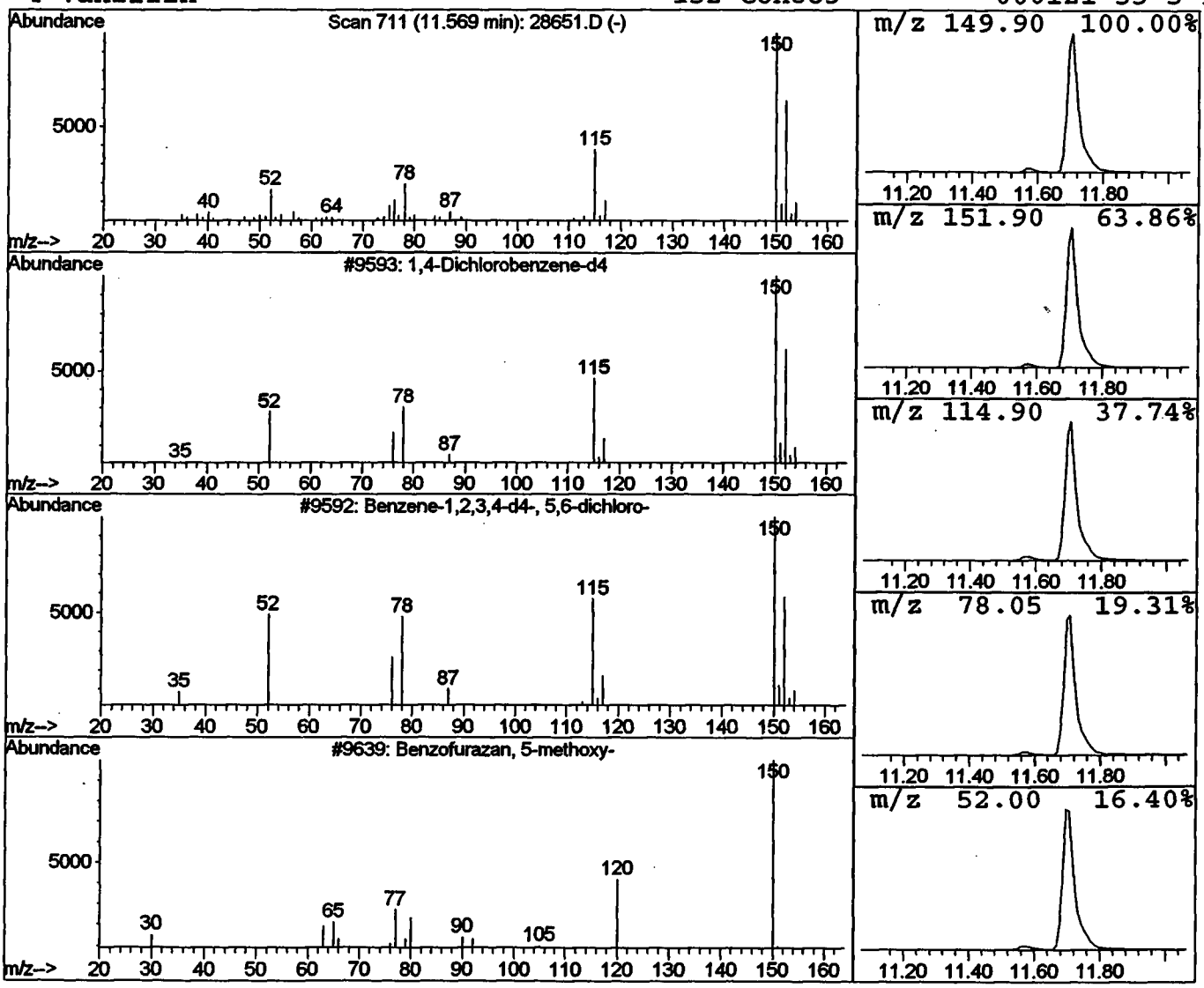
Peak Number 2 1,4-Dichlorobenzene-d4 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.57	0.55 ug/l	125693	1,4-Dichlorobenzene-d4	11.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dichlorobenzene-d4	150	C6Cl2D4	003855-82-1	53
2	Benzene-1,2,3,4-d4-, 5,6-dichloro-	150	C6Cl2D4	002199-69-1	37
3	Benzofurazan, 5-methoxy-	150	C7H6N2O2	004413-48-3	9
4	Vanillin	152	C8H8O3	000121-33-5	9



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\NOV3001\28651.D
Acq On : 30 Nov 2001 2:41 pm
Sample : 11/23 scan
Misc :
MS Integration Params: LSCINT.P

Vial: 49
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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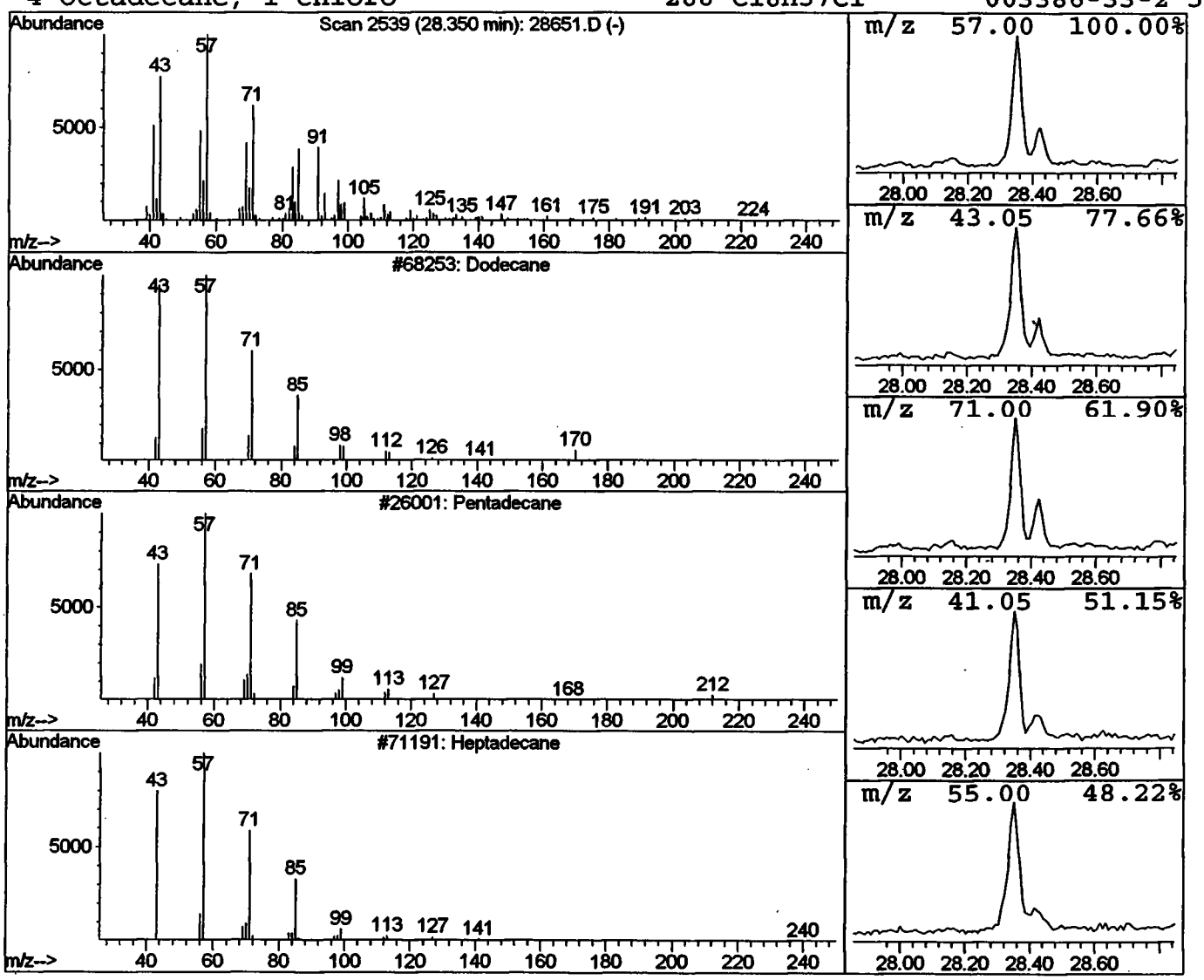
Peak Number 3 Dodecane — Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
28.35	1.20 ug/l	342627	Phenanthrene-d10	25.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	64
2	Pentadecane	212	C15H32	000629-62-9	58
3	Heptadecane	240	C17H36	000629-78-7	53
4	Octadecane, 1-chloro-	288	C18H37Cl	003386-33-2	52



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\NOV3001\28651.D
Acq On : 30 Nov 2001 2:41 pm
Sample : 11/23 scan
Misc :
MS Integration Params: LSCINT.P

Vial: 49
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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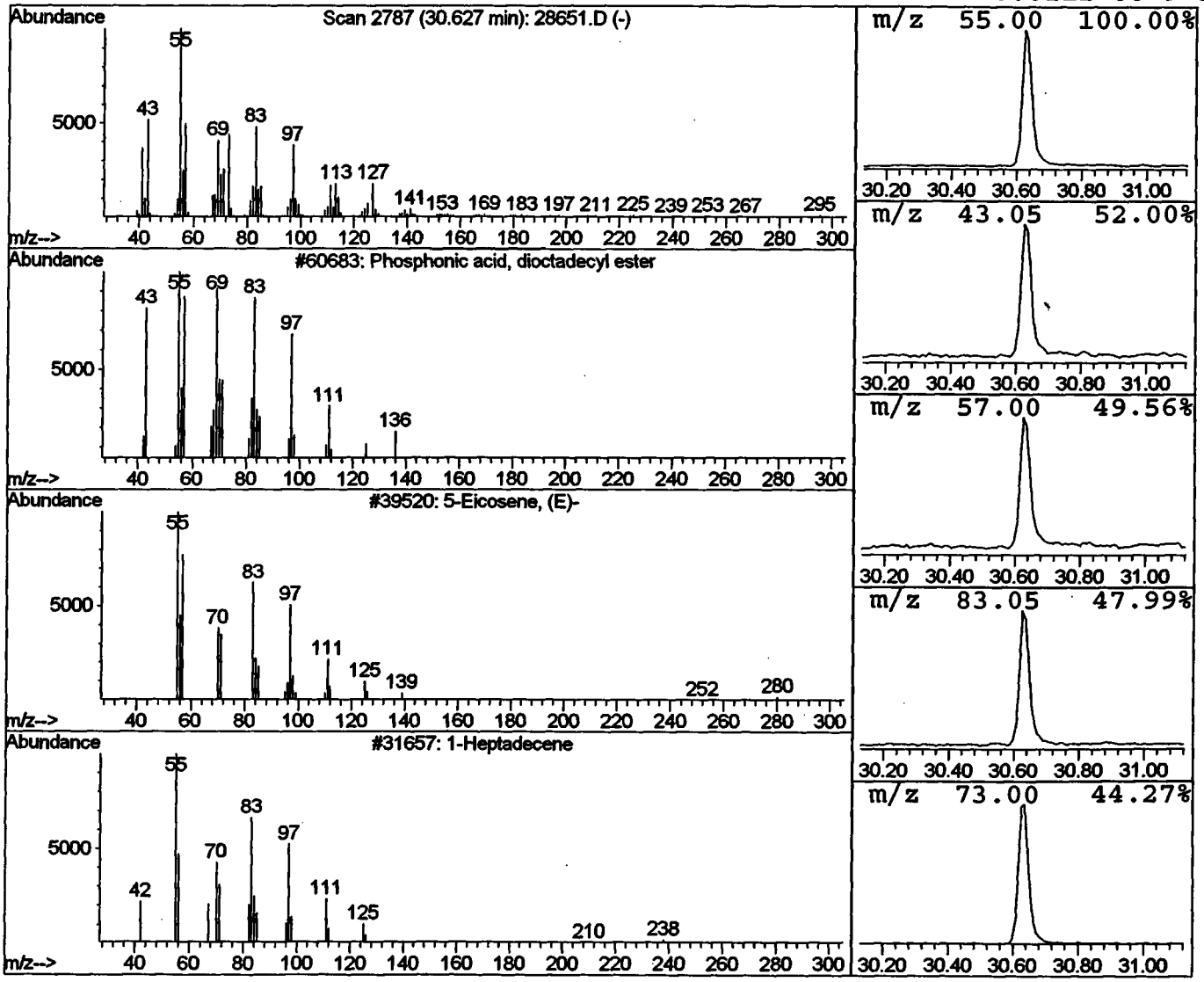
Peak Number 4 Phosphonic acid, dioctadecyl e Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.63	5.91 ug/l	1212130	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphonic acid, dioctadecyl ester	587	C36H75O3P	019047-85-9	81
2	5-Eicosene, (E)-	280	C20H40	074685-30-6	74
3	1-Heptadecene	238	C17H34	006765-39-5	72
4	1-Octadecene	252	C18H36	000112-88-9	55



Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 30 Nov 2001 2:41 pm
Data File: C:\HPCHEM\1\DATA\NOV3001\28651.D
Name: 11/23 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	7.64	4.3	ug/l	984833	ISTD01	11.71	4572830	20.0
1,4-Dichlorobenzene-	11.57	0.5	ug/l	125693	ISTD01	11.71	4572830	20.0
Dodecane	28.35	1.2	ug/l	342627	ISTD04	25.00	5713550	20.0
Phosphonic acid, dio	30.63	5.9	ug/l	1212130	ISTD05	33.03	4103830	20.0

28651.D GCMS1126.M Fri Nov 30 16:42:58 2001