Comments for Sample AD28678 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 12-07-2001 Time: 17:34:04

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 63%. Recoveries for 9 of the 44 compounds in the LCS Standard were outside of their acceptance ranges. The chromatogram reveals contamination which has been identified to be from the TurboVap concentrator.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC0401\28678.D Vial: 16
Acq On : 5 Dec 2001 3:01 am Operator: 209 GALOS
Sample : gc/ms 11/24 Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 3:49 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	11.72	152	836537	20.00	ug/l	0.02
15) Naphthalene-d8	15.31	136	3133241	20.00	ug/l	0.00
26) Acenaphthene-d10	20.58	164	1491884	20.00	ug/l	0.00
42) Phenanthrene-d10	25.01	188	2037132	20.00	ug/l	0.02
53) Chrysene-d12	33.03	240	1187786	20.00	ug/l	0.00
59) Perylene-d12	37.13	264	760644	20.00	ug/l	0.00
System Monitoring Compounds						
52) 2,4-DDD	30.08	235	75961	3.13	ug/mL	0.00
Spiked Amount 5.000			Recovery = 62.60%			
Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-nitroso-dimethyl amine	5.23	74	101	N.D.		
4) Phenol	11.42	94	123	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	15.38	128	427	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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Response via : Initial Calibration
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	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	21.63	65	419	N.D.	
37)	2,4-Dinitrotoluene	21.05	165	268	N.D.	
38)	Diethylphthalate	22.10	149	724	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	25.02	178	563	N.D.	
49)	Anthracene	25.02	178	563	N.D.	
50)	Di-n-butylphthalate	27.01	149	11763	N.D.	
51)	Fluoranthene	0.00	202	0	N.D.	
54)	Pyrene	0.00	202	0	N.D.	
55)	Butylbenzylphthalate	31.57	149	458	N.D.	
56)	Benzo(a)anthracene	33.04	228	2551	N.D.	
57)	Bis(2-ethylhexyl)phthalate	33.31	149	2963	N.D.	
58)	Chrysene	33.04	228	2551	N.D.	
60)	Di-n-Octylphthalate	0.00	149	0	N.D.	
61)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
62)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
63)	Benzo(a)pyrene	37.14	252	2771	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

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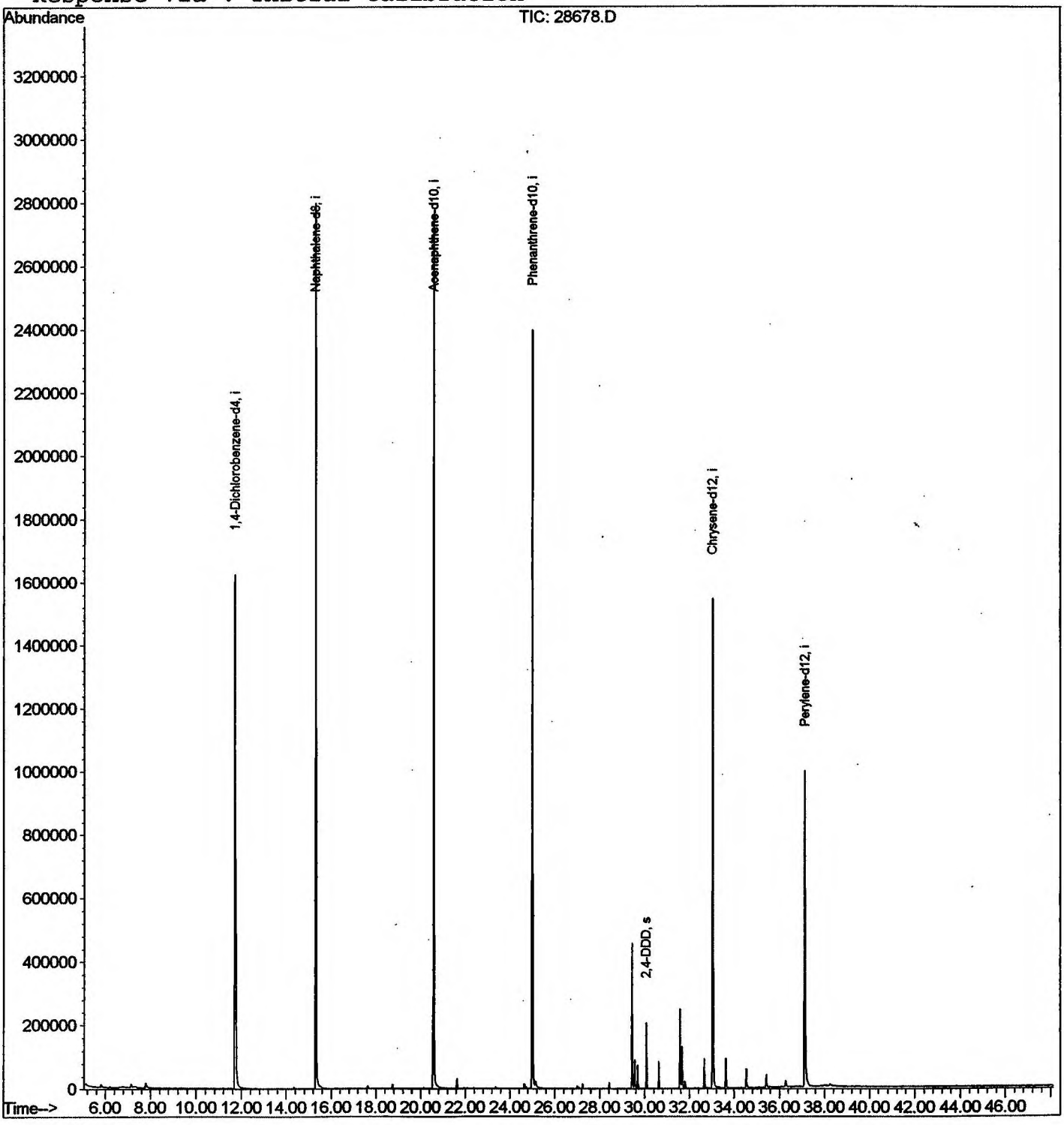
Sample : gc/ms 11/24
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 3:49 2001

Vial: 16
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\DEC0401\28678.D Vial: 16
Acq On : 5 Dec 2001 3:01 am Operator: 209 GALOS
Sample : gc/ms 11/24 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

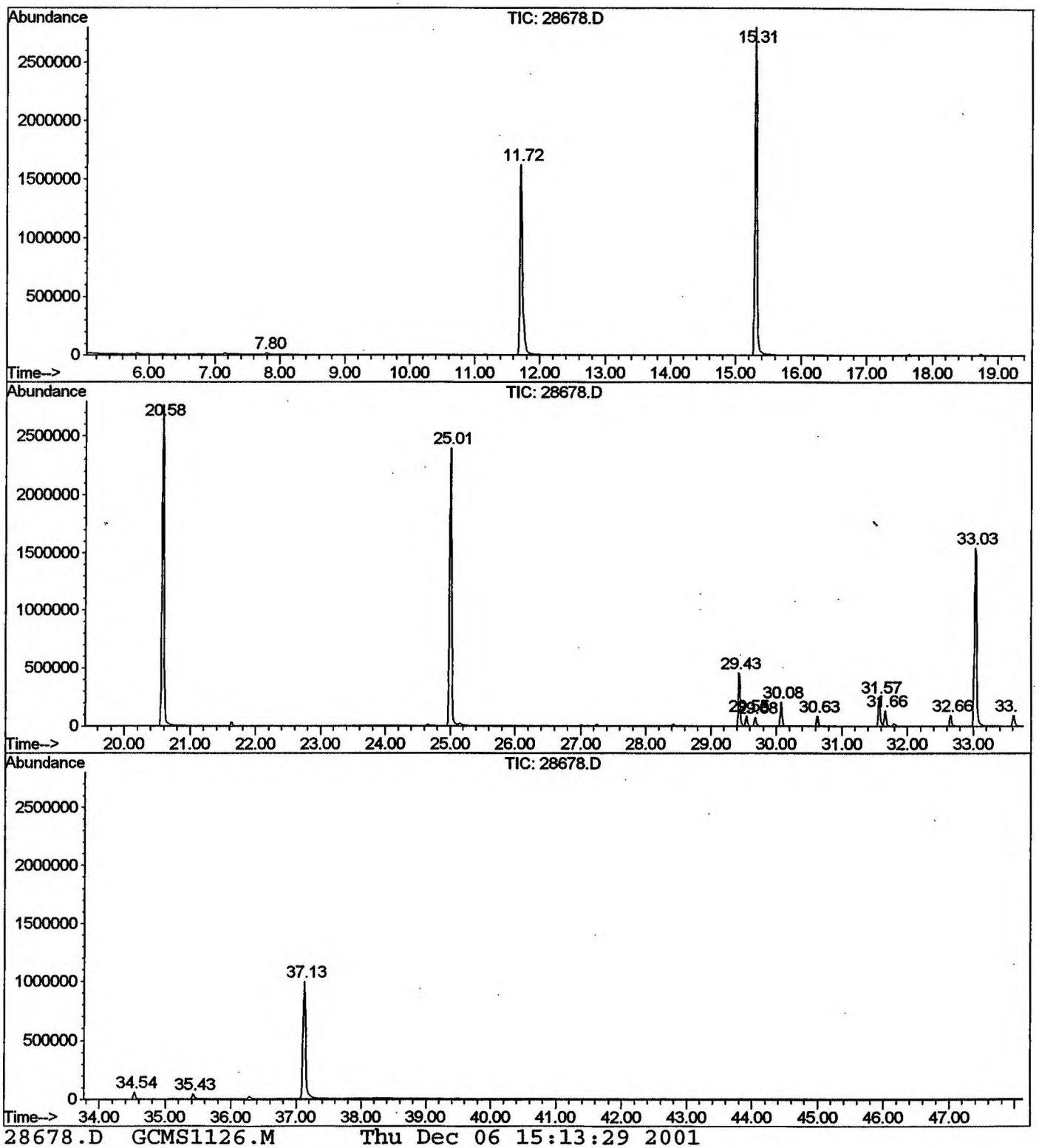
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	7.796	296	300	319	rVB	15373	63895	1.06%	0.202%
2	11.716	721	727	747	rBV	1622846	4513420	74.98%	14.256%
3	15.314	1113	1119	1137	rBV	2797152	5858098	97.32%	18.503%
4	20.584	1687	1693	1712	rBV	2763272	6019240	100.00%	19.012%
5	25.009	2168	2175	2187	rBV2	2396087	5381914	89.41%	16.999%
6	29.434	2649	2657	2665	rBV	455787	897511	14.91%	2.835%
7	29.553	2665	2670	2676	rVV	89126	187690	3.12%	0.593%
8	29.682	2679	2684	2694	rVB	72943	154706	2.57%	0.489%
9	30.076	2722	2727	2735	rVB	205803	406673	6.76%	1.284%
10	30.627	2781	2787	2796	rBV	85920	175698	2.92%	0.555%
11	31.573	2885	2890	2896	rBV	248936	504766	8.39%	1.594%
12	31.664	2896	2900	2908	rVV	131384	284971	4.73%	0.900%
13	32.656	3002	3008	3020	rBV	94154	206783	3.44%	0.653%
14	33.032	3043	3049	3070	rBV2	1544493	3731722	62.00%	11.787%
15	33.611	3107	3112	3121	rBV	93140	219189	3.64%	0.692%
16	34.538	3208	3213	3222	rBV	58658	129555	2.15%	0.409%
17	35.428	3304	3310	3320	rBV	40655	106142	1.76%	0.335%
18	37.127	3488	3495	3513	rBV2	991706	2818270	46.82%	8.902%

Sum of corrected areas: 31660243

28678.D GCMS1126.M Thu Dec 06 15:13:27 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\DEC0401\28678.D
Operator : 209 GALOS
Acquired : 5 Dec 2001 3:01 am using AcqMethod GCMS1126
Instrument : GC/MS 209
Sample Name: gc/ms 11/24
Misc Info :
Vial Number: 16
Quant File :GCMS1126.RES (RTE Integrator)



28678.D GCMS1126.M Thu Dec 06 15:13:29 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28678.D
Acq On : 5 Dec 2001 3:01 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 16
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

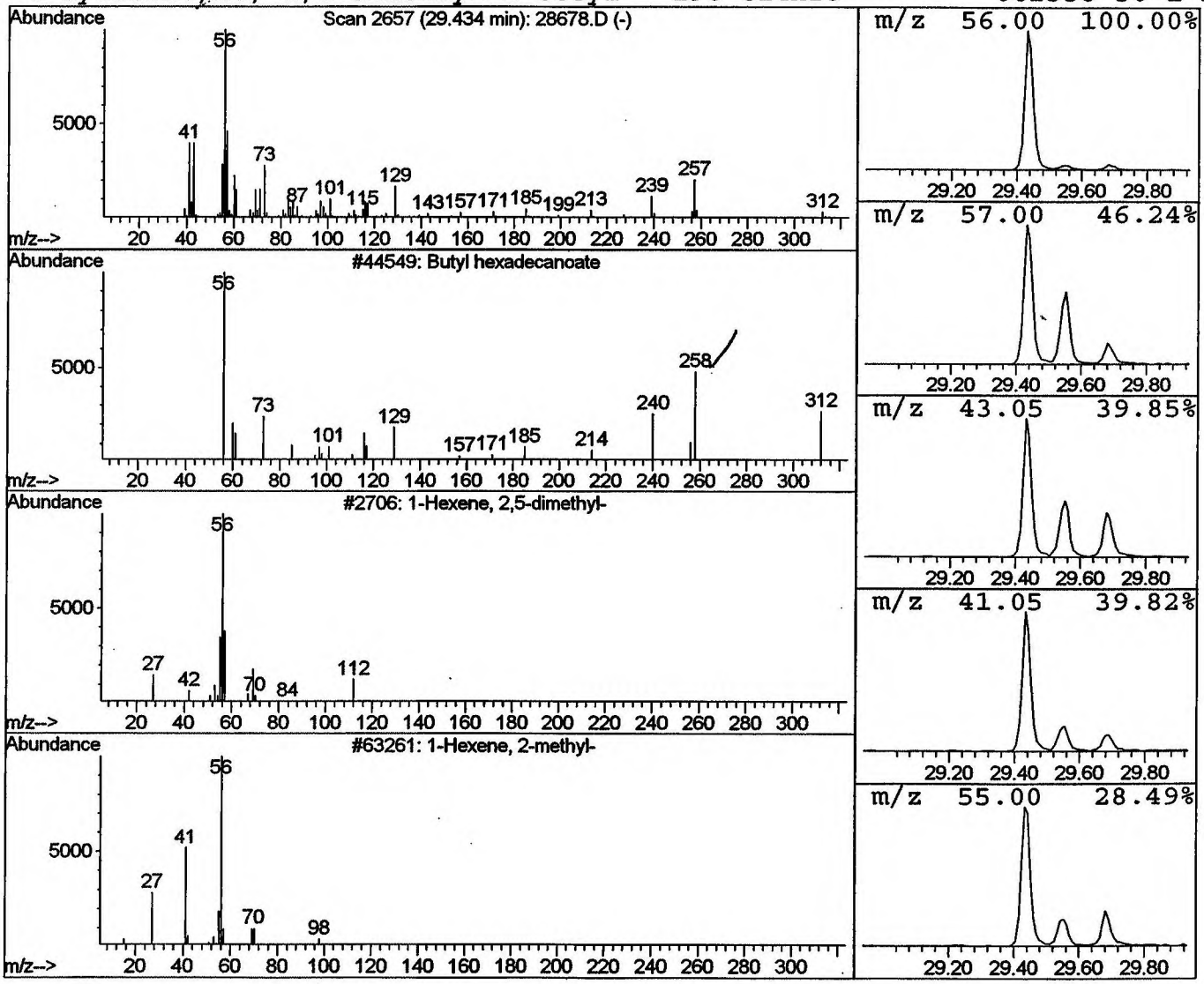
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Butyl hexadecanoate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.43	4.81 ug/l	897511	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl hexadecanoate	312	C20H40O2	000000-00-0	35
2	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	27
3	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
4	Cyclobutane, 1,1-dimethyl-2-octyl-	196	C14H28	062338-30-1	27



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Acq On : 5 Dec 2001 3:01 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 16
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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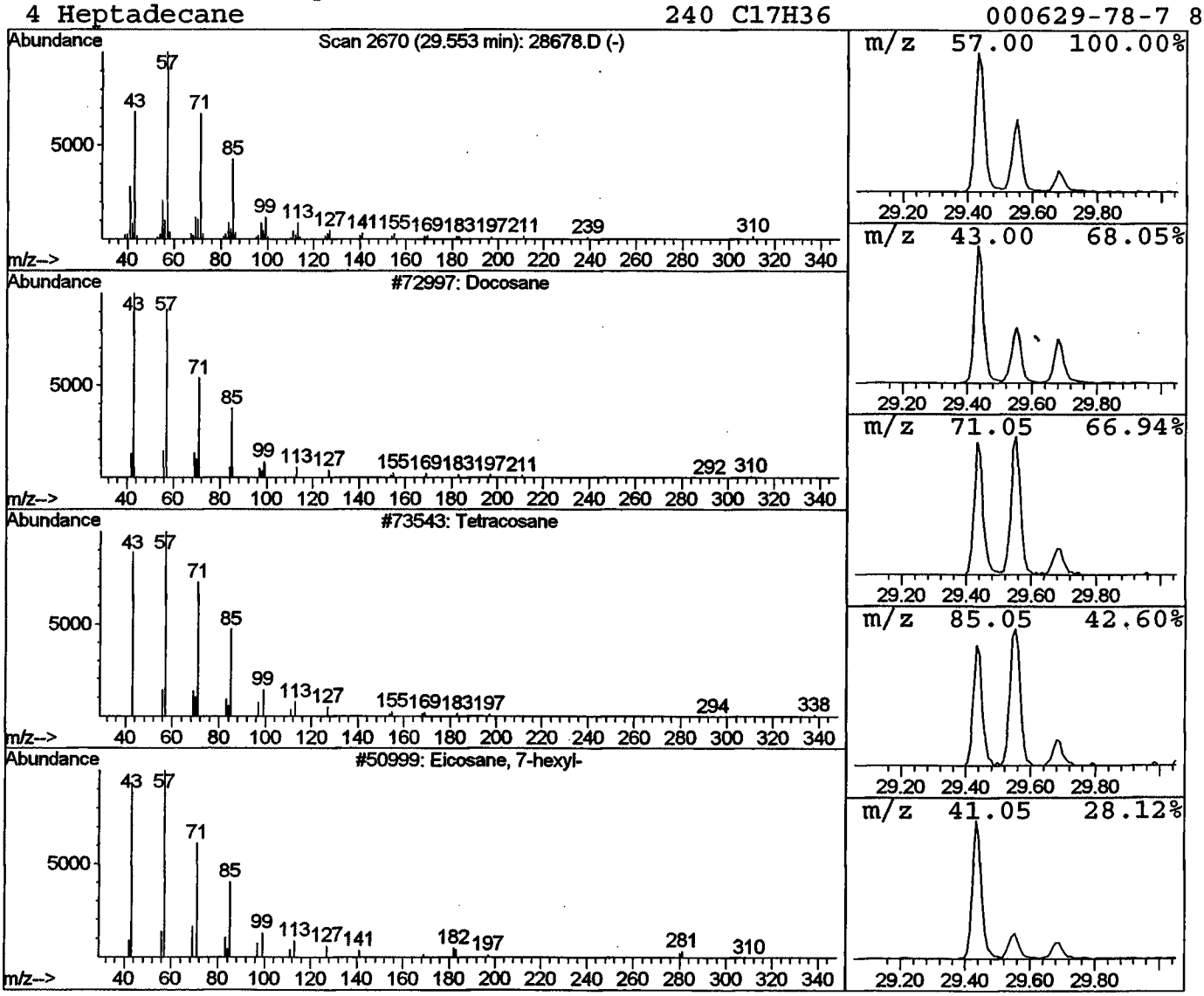
Peak Number 2 Docosane — Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.55	1.01 ug/l	187690	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	94
2	Tetracosane	338	C24H50	000646-31-1	90
3	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	87
4	Heptadecane	240	C17H36	000629-78-7	87



Library Search Compound Report

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Acq On : 5 Dec 2001 3:01 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 16
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
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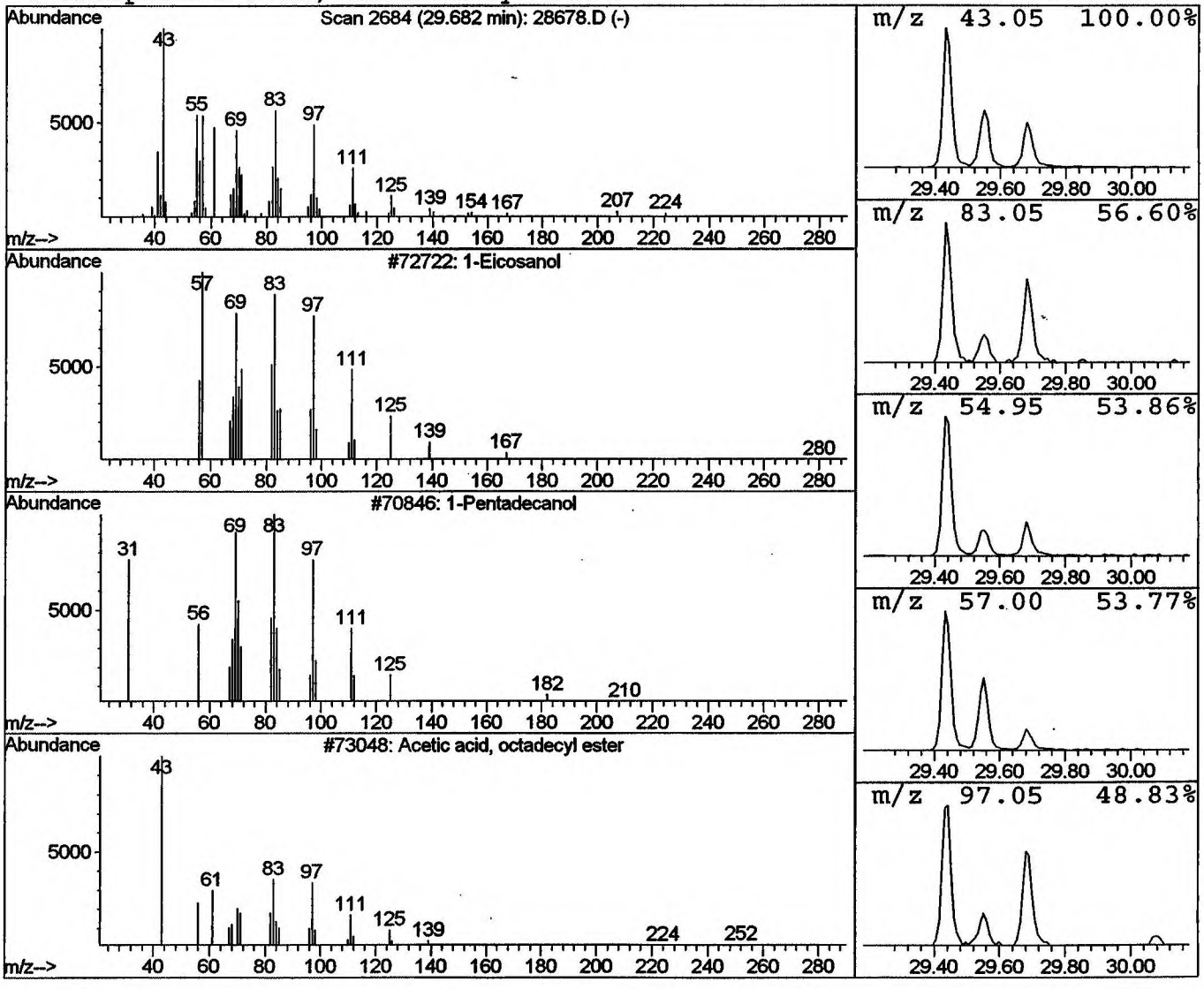
Peak Number 3 1-Eicosanol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.68	0.83 ug/l	154706	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Eicosanol	298	C20H42O	000629-96-9	76
2	1-Pentadecanol	228	C15H32O	000629-76-5	74
3	Acetic acid, octadecyl ester	312	C20H40O2	000822-23-1	70
4	Phosphonic acid, dioctadecyl ester	587	C36H75O3P	019047-85-9	70



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Vial: 16
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Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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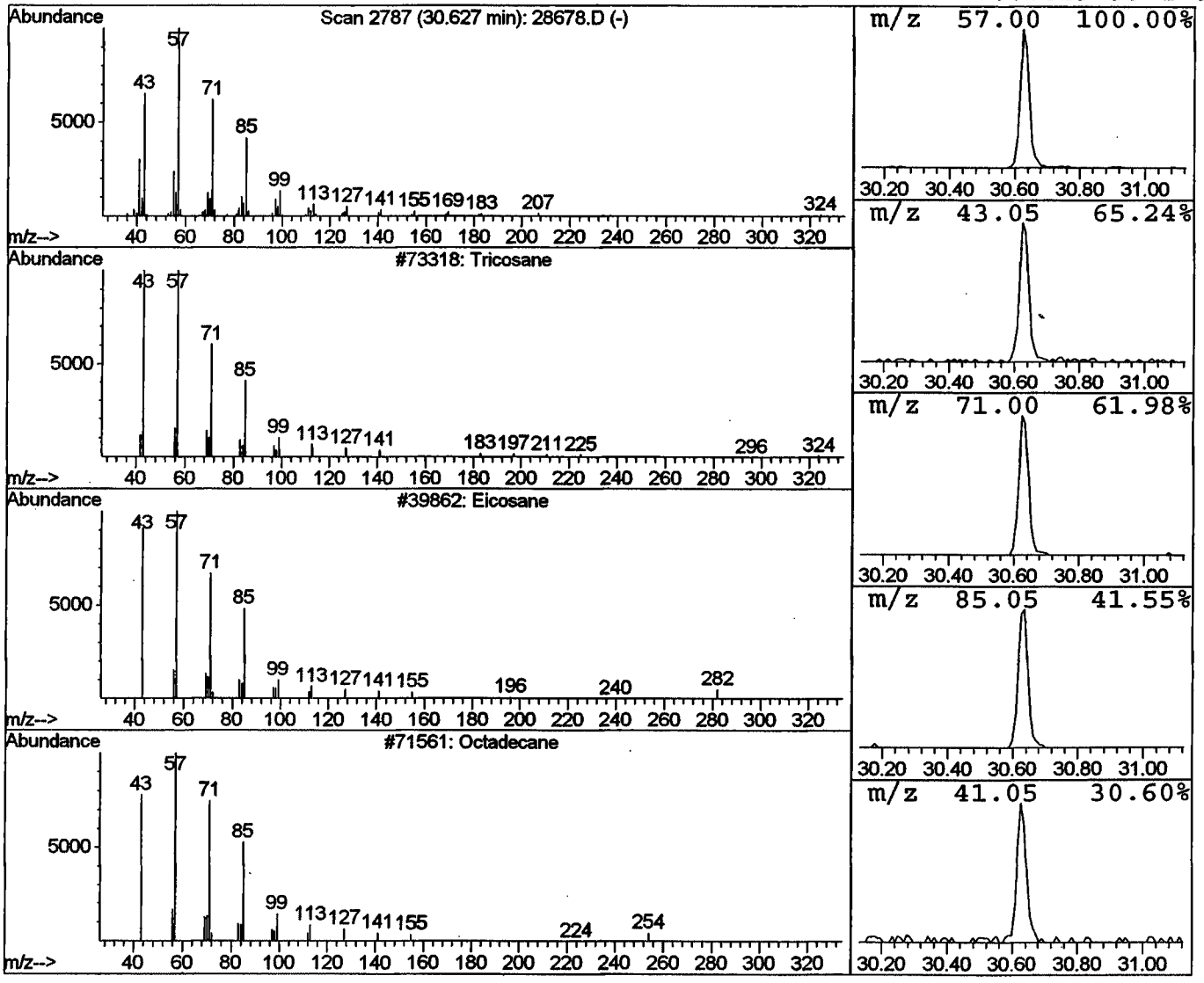
Peak Number 4 Tricosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.63	0.94 ug/l	175698	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosane	324	C23H48	000638-67-5	94
2	Eicosane	282	C20H42	000112-95-8	91
3	Octadecane	254	C18H38	000593-45-3	91
4	Pentacosane	352	C25H52	000629-99-2	91



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Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 16
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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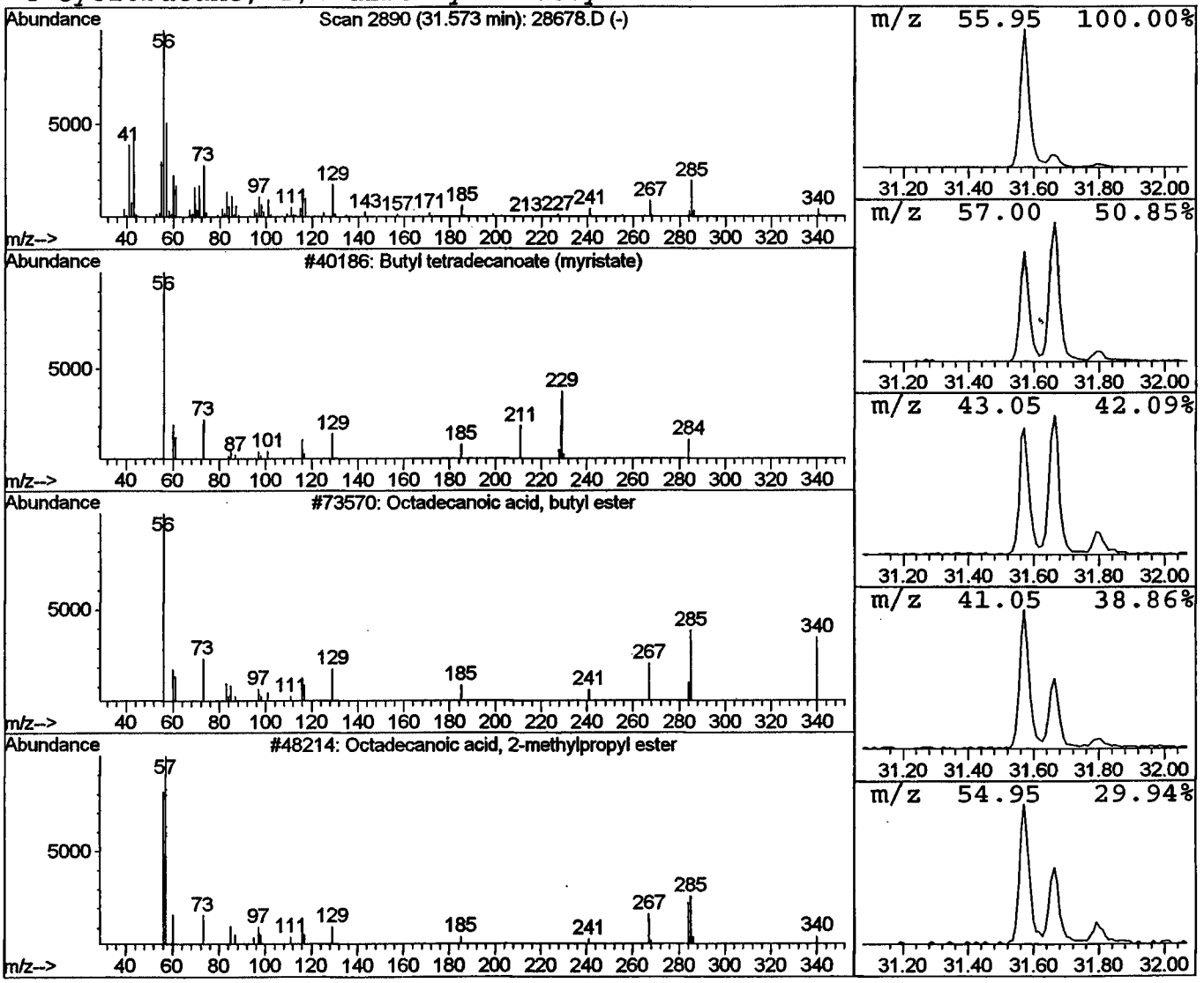
Peak Number 5 Butyl tetradecanoate (myristat Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.57	2.71 ug/l	504766	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl tetradecanoate (myristate)	284	C18H36O2	000000-00-0	80
2	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	72
3	Octadecanoic acid, 2-methylpropyl e	340	C22H44O2	000646-13-9	55
4	Cyclobutane, 1,1-dimethyl-2-octyl-	196	C14H28	062338-30-1	35



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Multiplr: 1.00

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Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

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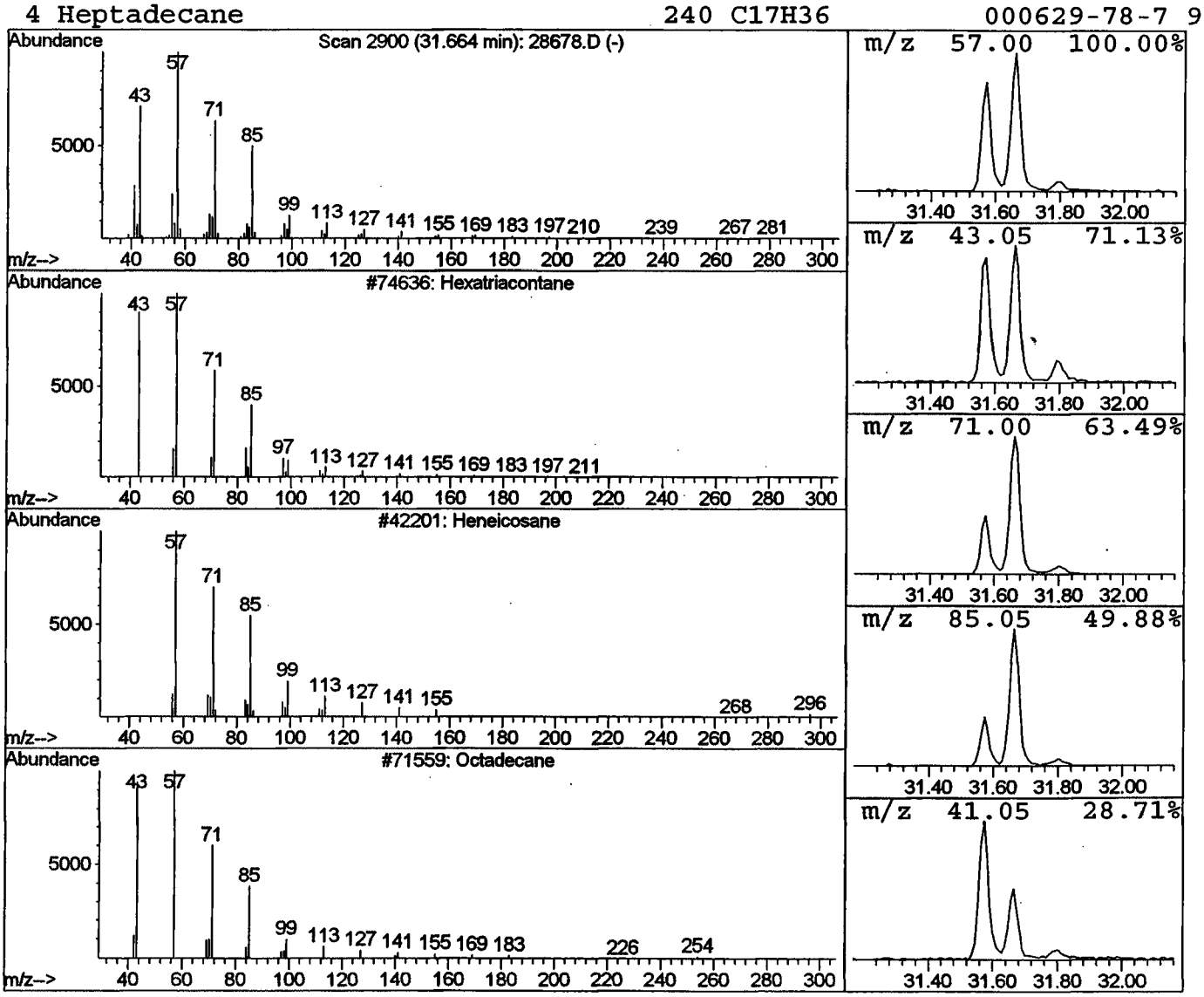
Peak Number 6 Hexatriacontane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.66	1.53 ug/l	284971	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontane	507	C36H74	000630-06-8	91
2	Heneicosane	296	C21H44	000629-94-7	90
3	Octadecane	254	C18H38	000593-45-3	90
4	Heptadecane	240	C17H36	000629-78-7	90



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Inst : GC/MS 209
Multiplr: 1.00

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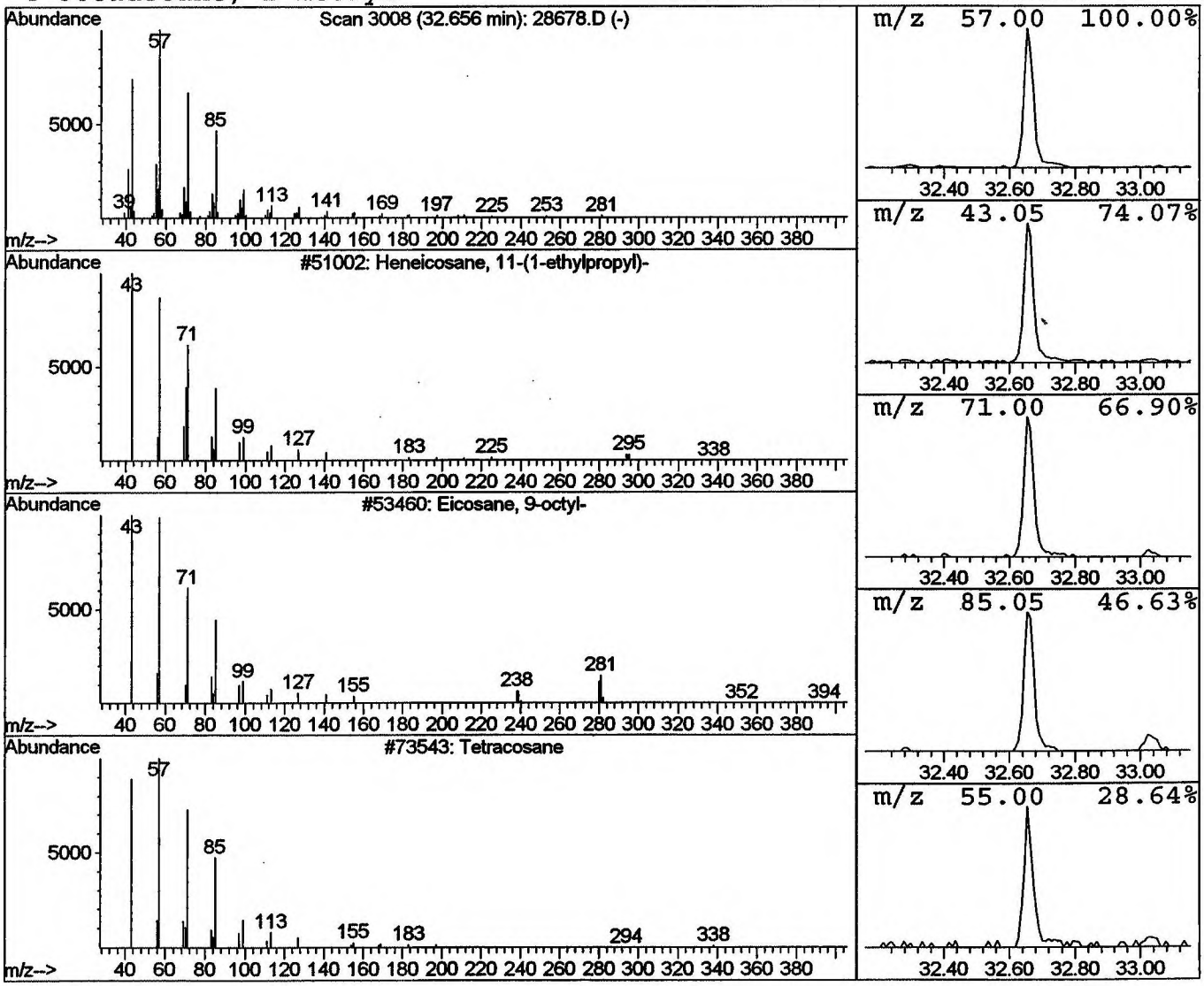
Peak Number 7 Heneicosane, 11-(1-ethylpropyl Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.66	1.11 ug/l	206783	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	91
2	Eicosane, 9-octyl-	394	C28H58	013475-77-9	91
3	Tetracosane	338	C24H50	000646-31-1	90
4	Octadecane, 2-methyl-	268	C19H40	001560-88-9	90



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Library : C:\DATABASE\NBS75K.L

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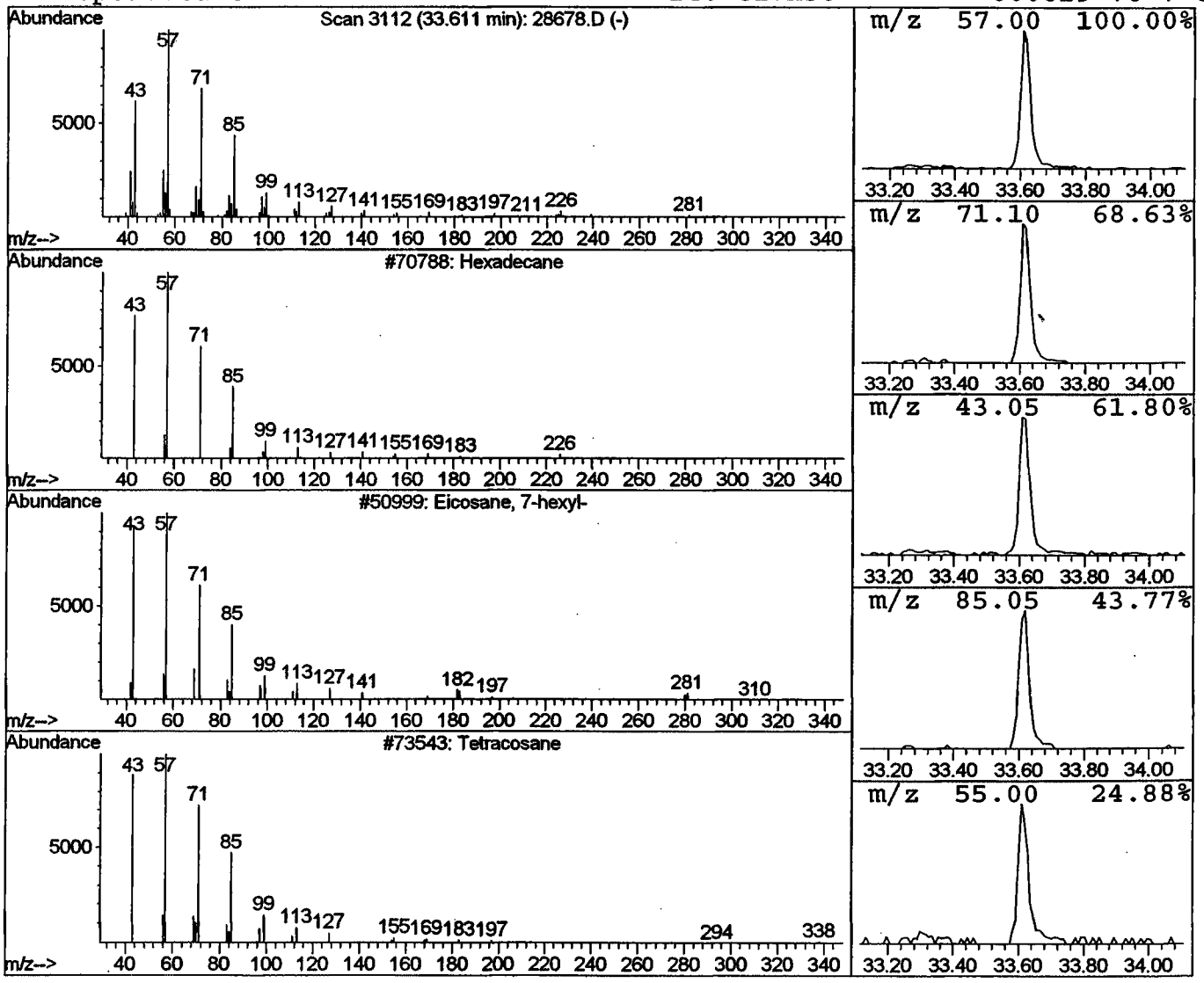
Peak Number 8 Hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.61	1.17 ug/l	219189	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	97
2	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
3	Tetracosane	338	C24H50	000646-31-1	90
4	Heptadecane	240	C17H36	000629-78-7	87



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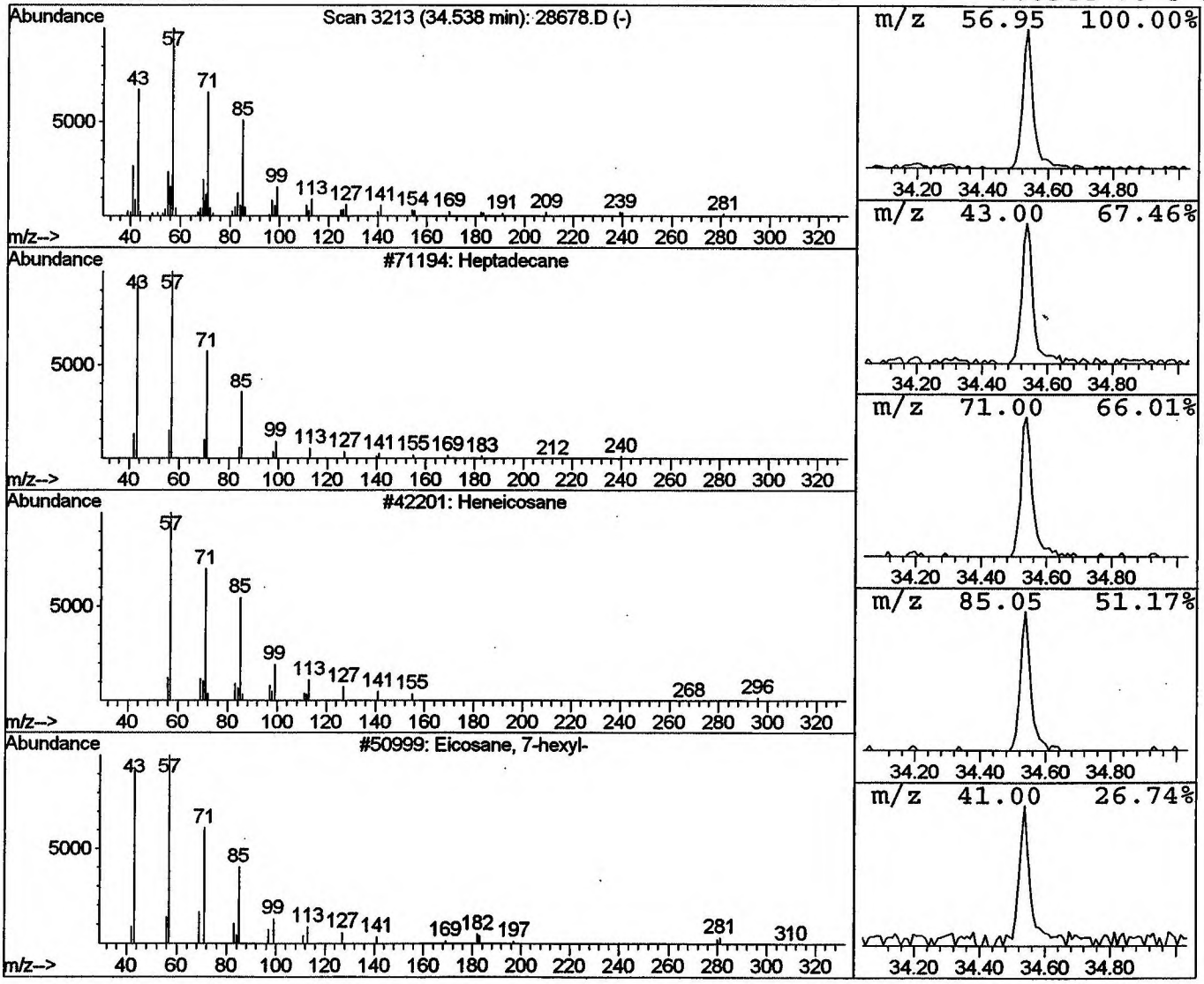
****

Peak Number 9 Heptadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
34.54	0.69 ug/l	129555	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	94
2	Heneicosane	296	C21H44	000629-94-7	91
3	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
4	Hexadecane	226	C16H34	000544-76-3	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28678.D
Acq On : 5 Dec 2001 3:01 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 16
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

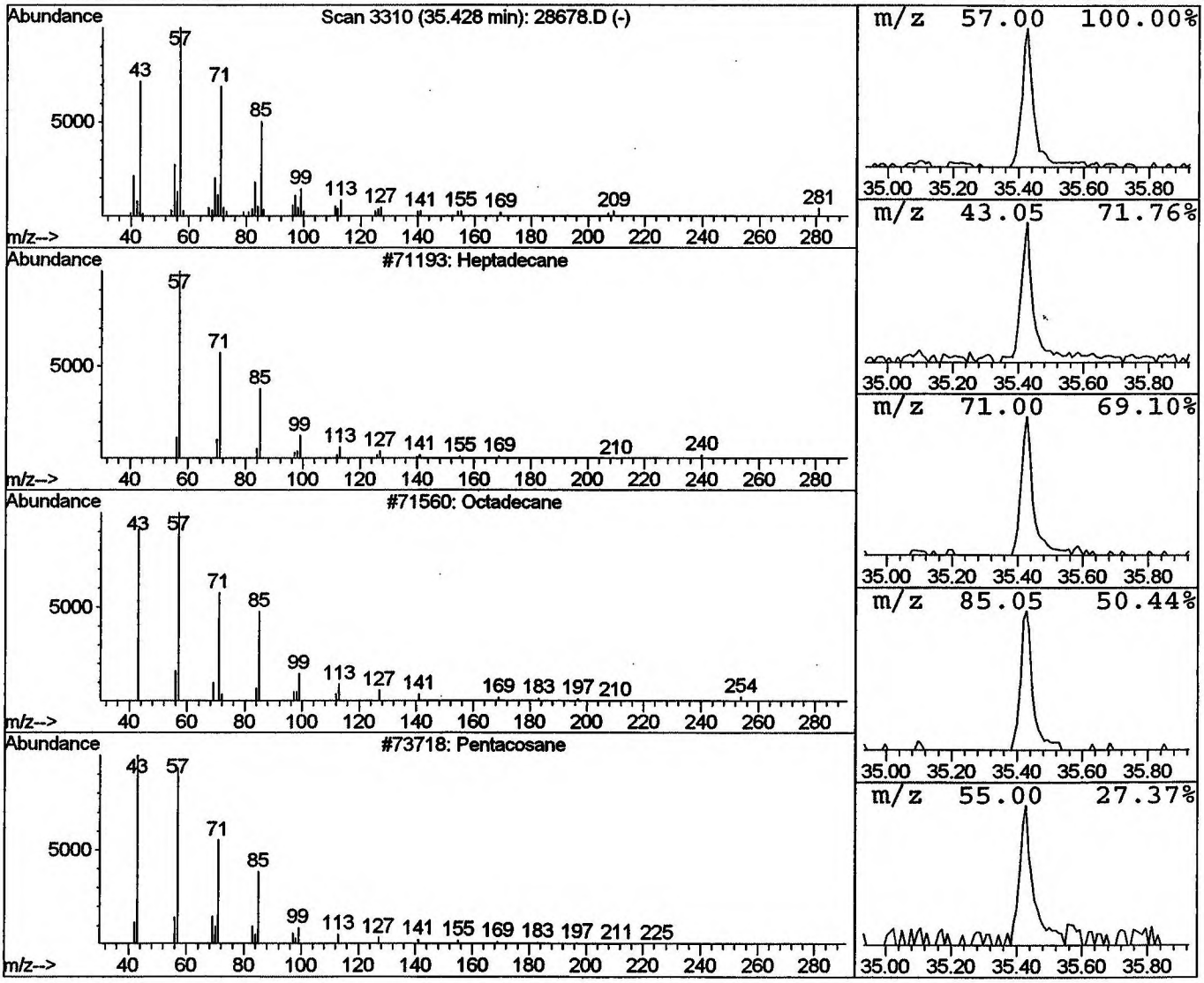
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 10 Heptadecane — Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
35.43	0.75 ug/l	106142	Perylene-d12	37.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	87
2	Octadecane	254	C18H38	000593-45-3	86
3	Pentacosane	352	C25H52	000629-99-2	86
4	Tetracosane	338	C24H50	000646-31-1	86



Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 5 Dec 2001 3:01 am
Data File: C:\HPCHEM\1\DATA\DEC0401\28678.D
Name: gc/ms 11/24
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
Butyl hexadecanoate	29.43	4.8	ug/l	897511	ISTD05	33.03	3731720	20.0
Docosane	29.55	1.0	ug/l	187690	ISTD05	33.03	3731720	20.0
1-Eicosanol	29.68	0.8	ug/l	154706	ISTD05	33.03	3731720	20.0
Tricosane	30.63	0.9	ug/l	175698	ISTD05	33.03	3731720	20.0
Butyl tetradecanoate	31.57	2.7	ug/l	504766	ISTD05	33.03	3731720	20.0
Hexatriacontane	31.66	1.5	ug/l	284971	ISTD05	33.03	3731720	20.0
Heneicosane, 11-(1-e	32.66	1.1	ug/l	206783	ISTD05	33.03	3731720	20.0
Hexadecane	33.61	1.2	ug/l	219189	ISTD05	33.03	3731720	20.0
Heptadecane	34.54	0.7	ug/l	129555	ISTD05	33.03	3731720	20.0
Heptadecane	35.43	0.8	ug/l	106142	ISTD06	37.13	2818270	20.0

28678.D GCMS1126.M Thu Dec 06 15:13:53 2001

Turbine grease