

User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/20/2002 Time: 09:40:41

Sample: AE10208
Analysis: \$GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/20/02 09:40 Ended: 5/20/02 09:40 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		75		10.0

FB
collected
4/28/02

Comments for Sample AE10208 - Analysis \$GCMS

Westchester Dept. of Labs & Research

User: Vinci, David L

Date: 05-20-2002 Time: 09:44:30

The GCMS scan, from 35 to 550 amu, reveals the presence of 4-(3-(4-butoxyphenoxy)Morpholine at an estimated level of 0.50 ug/l and with a fit of 72 out of 100, and 4-Octadecyl Morpholine at an estimated level of 0.83 ug/l and with a fit of 78 out of 100, and again at an estimated level of 0.68 ug/l and with a fit of 56 out of 100. This sample is the Field Blank.

Data File : C:\MSDCHEM\1\DATA\020509\10208.D

Vial: 10

Acq On : 9 May 2002 7:31 pm

Operator: Nefliu

Sample : sample

Inst : Instrumen

Misc :

Multiplr: 1.00

MS Integration Params: lscint.e

Quant Time: May 10 08:05:45 2002

Quant Results File: SCAN020507.RE

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

Title : Method 508 GC/MS Scan

Last Update : Thu May 09 09:21:01 2002

Response via : Initial Calibration

DataAcq Meth : 508SCAN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.38	152	641260	40.00	ug/l	-0.01
10) Naphthalene-d8	16.54	136	2432017	40.00	ug/l	-0.03
17) Acenaphthene-d10	24.47	164	1300540	40.00	ug/l	-0.01
30) Phenanthrene-d10	31.72	188	2224678	40.00	ug/l	-0.02
38) Chrysene-d12	39.94	240	1753493	40.00	ug/l	-0.05
44) Perylene-d12	43.16	264	1159045	40.00	ug/l	-0.02

System Monitoring Compounds

27) TCMX	27.53	207	77954	7.50	ug/l	-0.04
Spiked Amount	10.000		Recovery	=	75.00%	

Target Compounds

43) Bis(2-ethylhexyl)phthalate	40.52	149	10881	0.29	ug/l	Qvalue 89
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FB
has some ph

(#) = qualifier out of range (m) = manual integration (+) = signals summed
10208.D SCAN020507.M Tue May 14 14:13:33 2002 Page 1

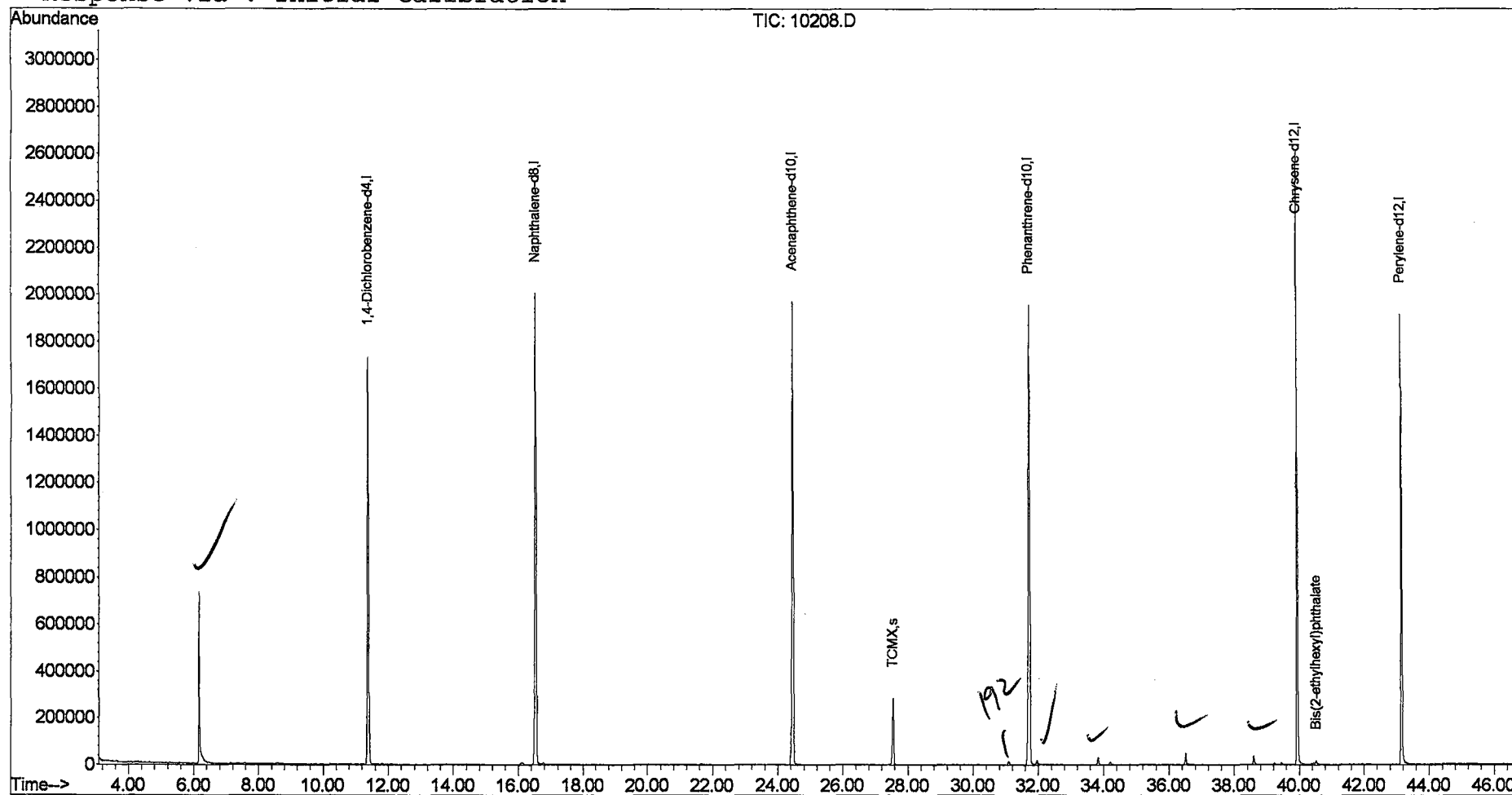
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\020509\10208.D
 Acq On : 9 May 2002 7:31 pm
 Sample : sample
 Misc :
 MS Integration Params: lscint.e
 Quant Time: May 10 8:07 2002

Vial: 10
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: SCAN020507.RES

Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Last Update : Thu May 09 09:21:01 2002
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\020509\10208.D

Acq On : 9 May 2002 7:31 pm

Sample : sample

Misc :

MS Integration Params: rteint.e

Vial: 10

Operator: Nefliu

Inst : Instrumen

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

Title : Method 508 GC/MS Scan

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0.7 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

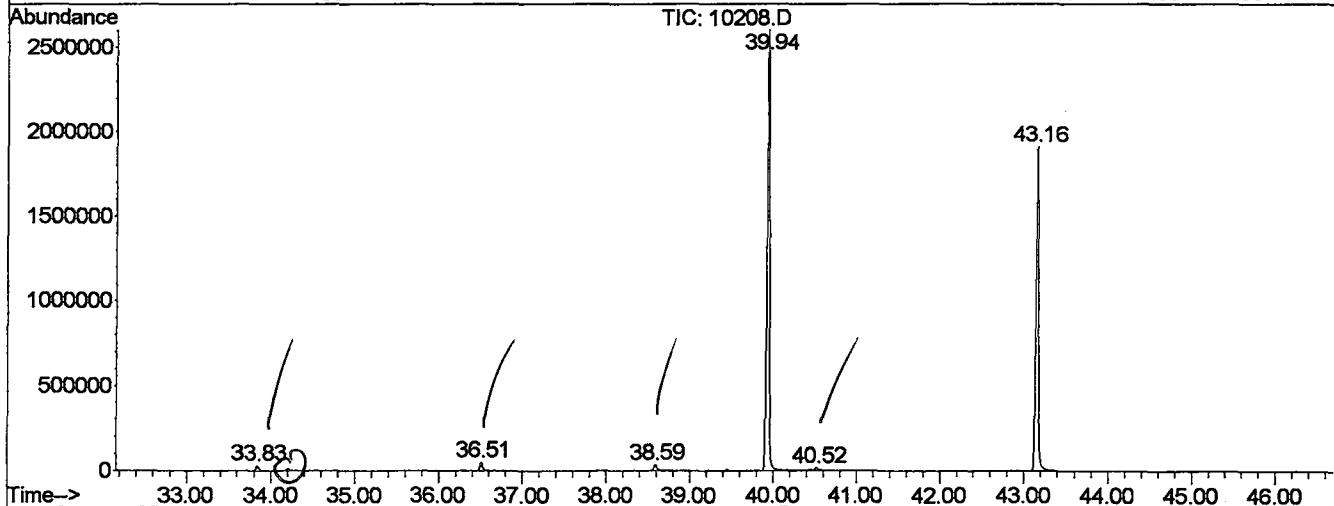
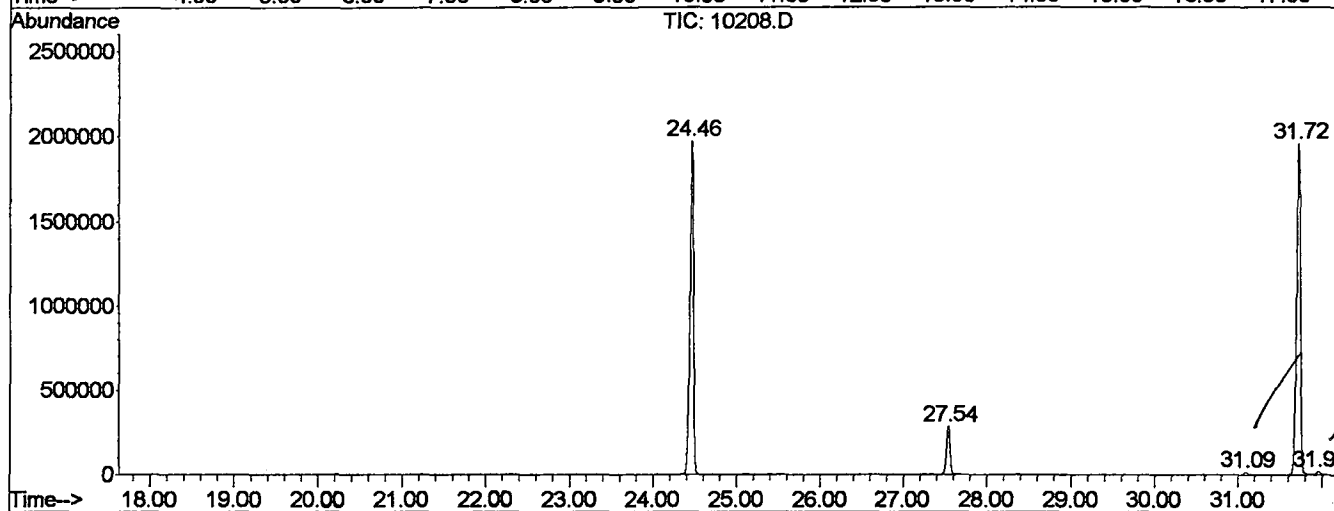
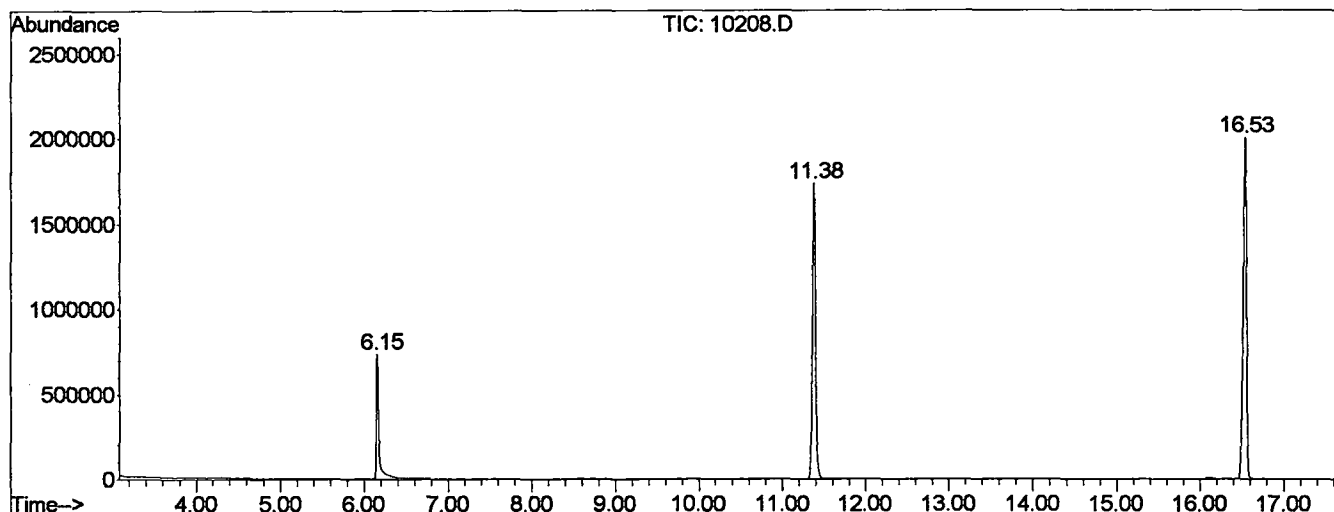
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.152	514	523	564	rBV	735442	1514230	24.26%	4.418%
2	11.375	1400	1412	1434	rBV	1734688	4431657	70.99%	12.930%
3	16.534	2275	2290	2313	rBV	2004193	5617549	89.99%	16.391%
4	24.460	3618	3639	3659	rBV	1971349	5839060	93.54%	17.037%
5	27.539	4147	4163	4177	rBV4	285096	807667	12.94%	2.357%
6	31.088	4756	4767	4782	rBV4	15435	50112	0.80%	0.146%
7	31.723	4855	4875	4899	rBV2	1957615	6242618	100.00%	18.214%
8	31.952	4906	4914	4923	rVB3	18598	49344	0.79%	0.144%
9	33.832	5223	5234	5244	rBV	31273	78785	1.26%	0.230%
10	36.505	5679	5689	5699	rBV	48336	111622	1.79%	0.326%
11	38.591	6031	6044	6057	rBV	35282	91039	1.46%	0.266%
12	39.937	6259	6273	6301	rBV2	2603274	5391722	86.37%	15.732%
13	40.524	6366	6373	6390	rVB5	15653	46445	0.74%	0.136%
14	43.156	6807	6821	6841	rBV2	1913225	4001057	64.09%	11.674%

Sum of corrected areas: 34272907

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\020509\10208.D
 Operator : Nefliu
 Acquired : 9 May 2002 7:31 pm using AcqMethod 508SCAN1
 Instrument : Instrumen
 Sample Name: sample
 Misc Info :
 Vial Number: 10
 Quant File :SCAN020507.RES (RTE Integrator)



Data File : C:\MSDCHEM\1\DATA\020509\10208.D
 Acq On : 9 May 2002 7:31 pm
 Sample : sample
 Misc :
 MS Integration Params: rteint.e

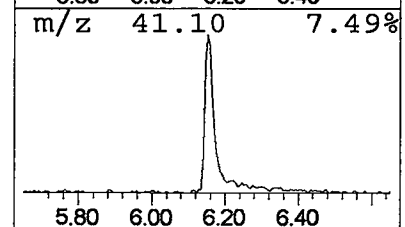
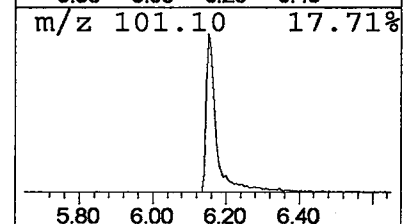
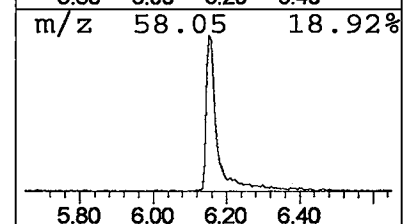
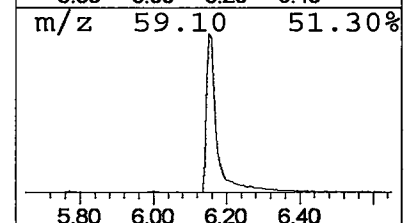
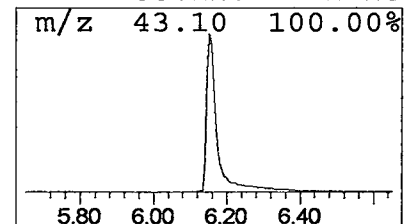
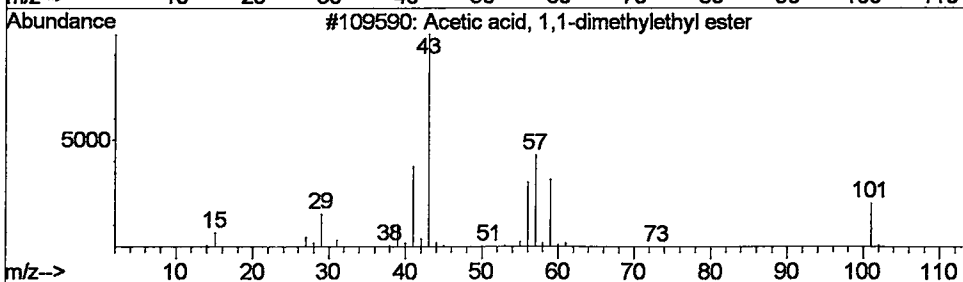
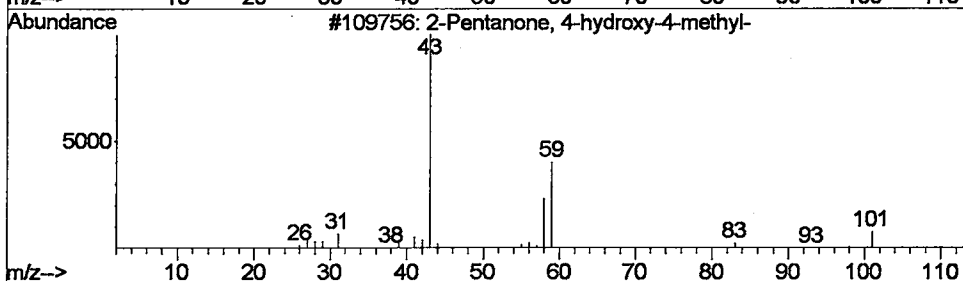
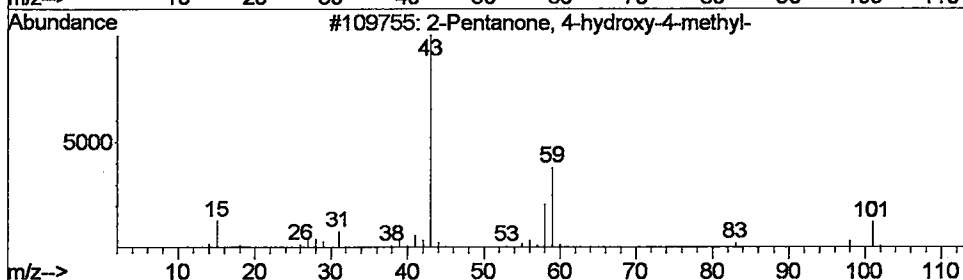
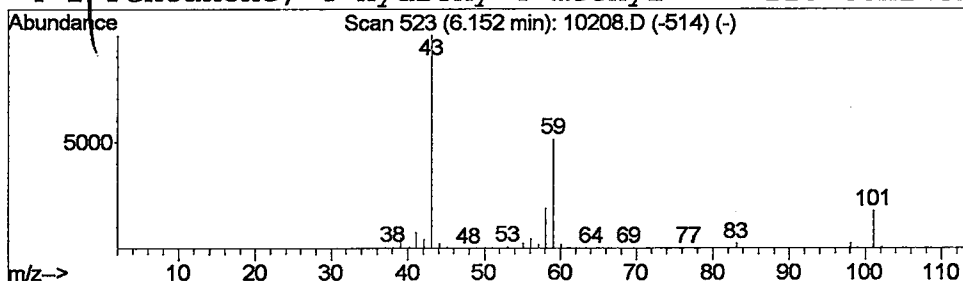
Vial: 10
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.15	13.67 ug/l	1514230	1,4-Dichlorobenzene-d4	11.38

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
✓ 1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
3			Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
4			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28



Data File : C:\MSDCHEM\1\DATA\020509\10208.D
 Acq On : 9 May 2002 7:31 pm
 Sample : sample
 Misc :
 MS Integration Params: rteint.e

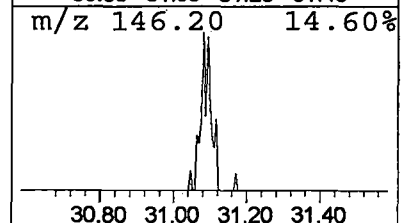
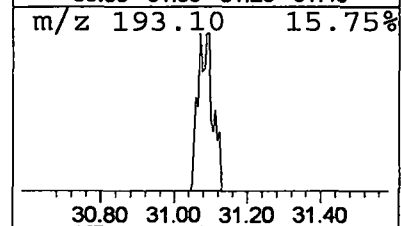
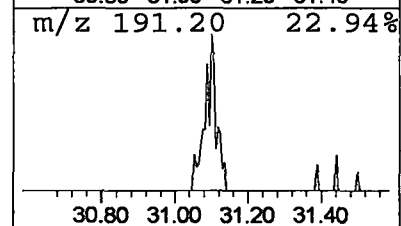
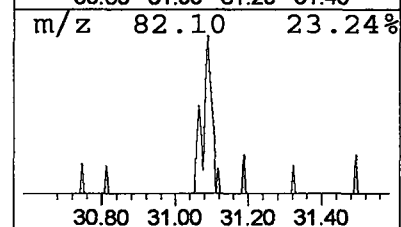
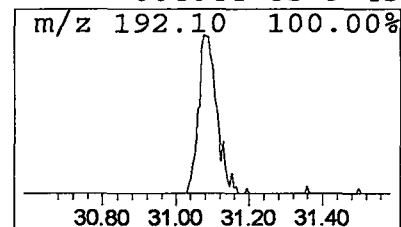
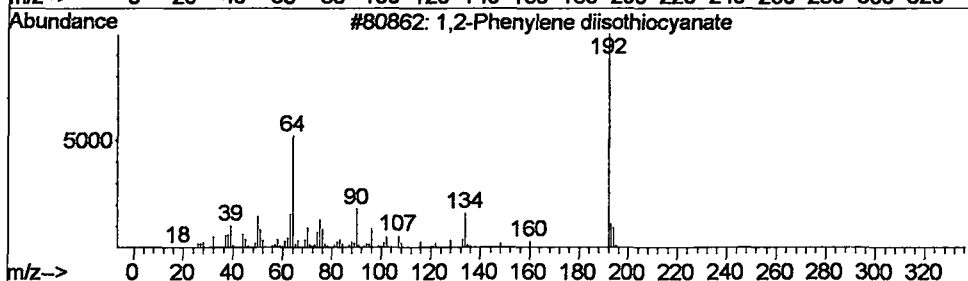
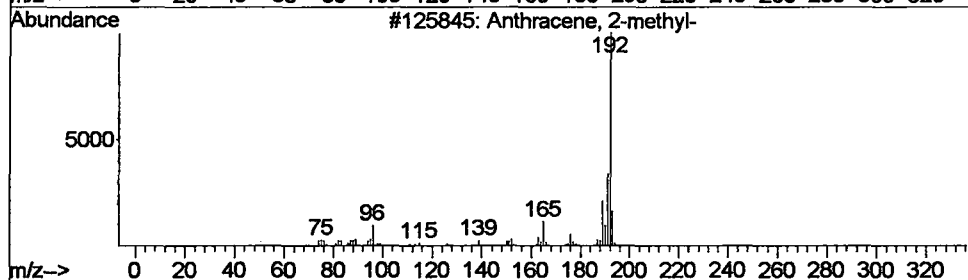
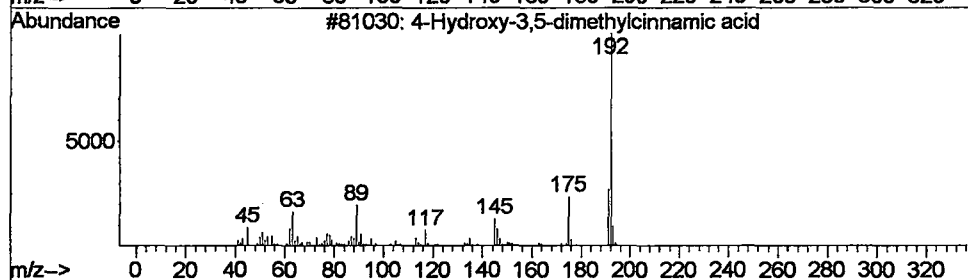
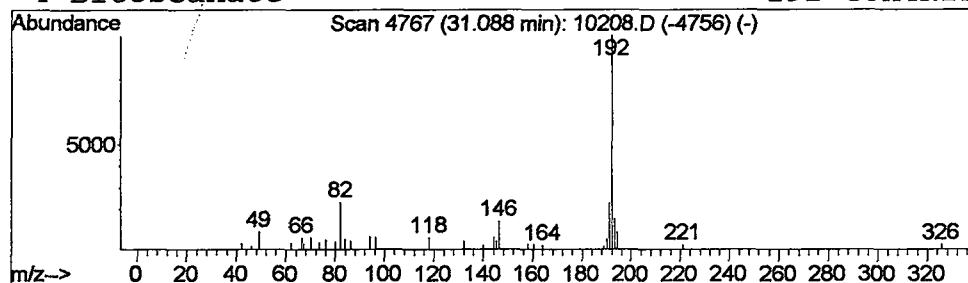
Vial: 10
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 2 4-Hydroxy-3,5-dimethylcinna... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.09	0.32 ug/l	50112	Phenanthrene-d10	31.72

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4-Hydroxy-3,5-dimethylcinnamic acid	192	C11H12O3	1000132-15-8	53
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	53
3		1,2-Phenylene diisothiocyanate	192	C8H4N2S2	071105-17-4	46
4		Bitoscanate	192	C8H4N2S2	004044-65-9	43



Data File : C:\MSDCHEM\1\DATA\020509\10208.D
 Acq On : 9 May 2002 7:31 pm
 Sample : sample
 Misc :
 MS Integration Params: rteint.e

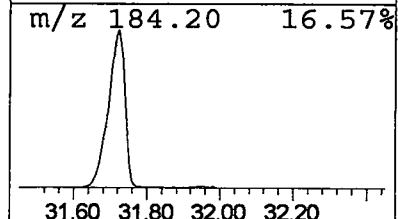
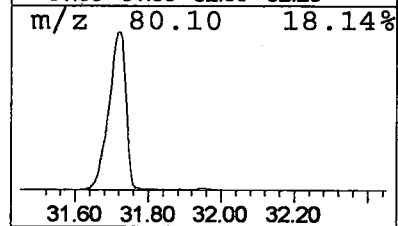
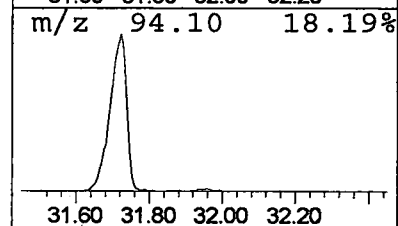
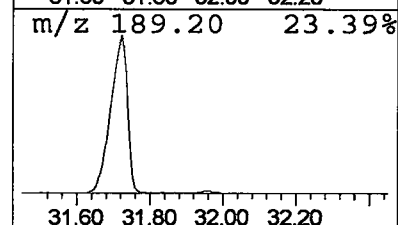
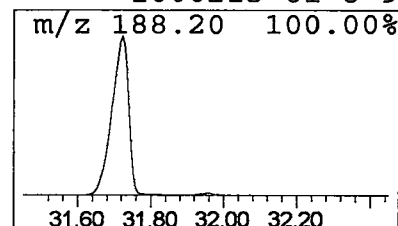
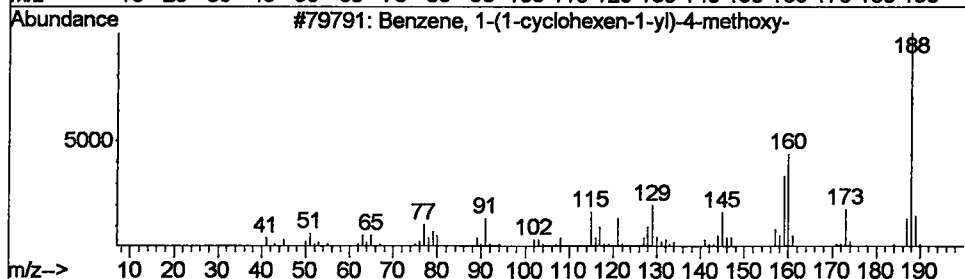
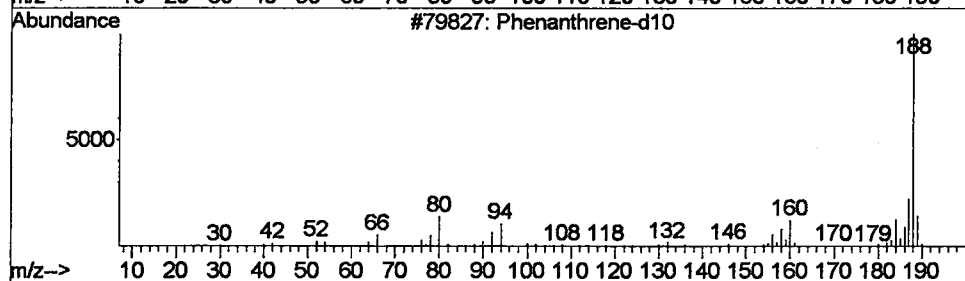
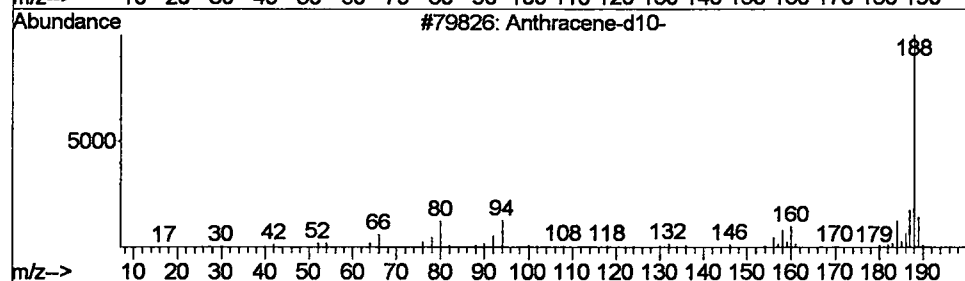
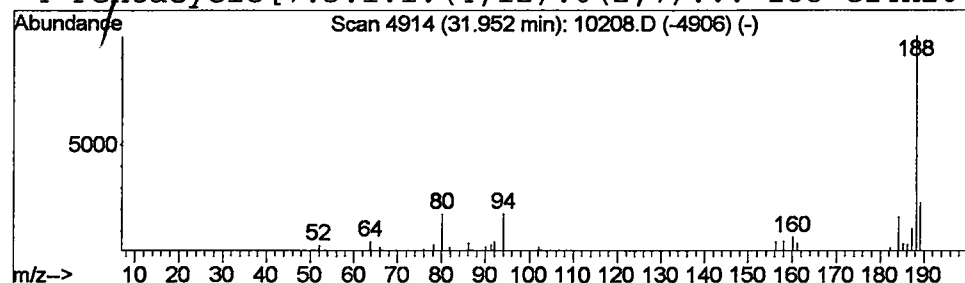
Vial: 10
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 3 Anthracene-d10- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.95	0.32 ug/l	49344	Phenanthrene-d10	31.72

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Anthracene-d10-	188	C14D10	001719-06-8	64
2		Phenanthrene-d10	188	C14D10	001517-22-2	64
3		Benzene, 1-(1-cyclohexen-1-yl)-4...	188	C13H16O	020758-60-5	33
4		Pentacyclo[7.3.1.1.1.(4,12).0(2,7)...]	188	C14H20	1000215-61-8	9



Data File : C:\MSDCHEM\1\DATA\020509\10208.D
 Acq On : 9 May 2002 7:31 pm
 Sample : sample
 Misc :
 MS Integration Params: rteint.e

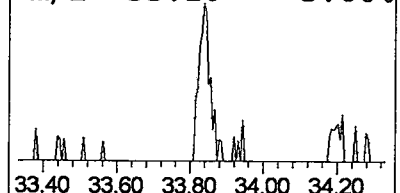
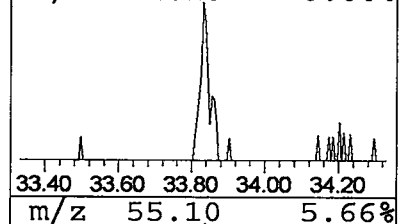
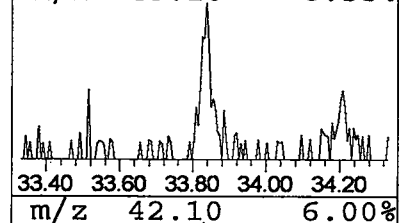
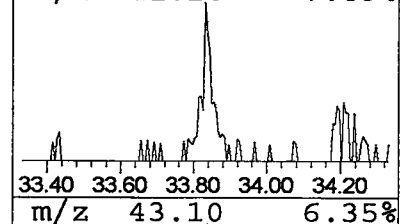
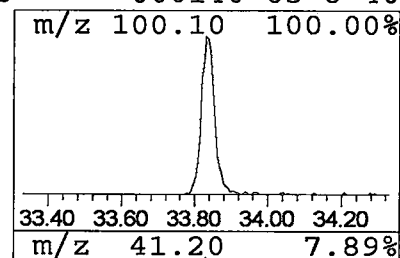
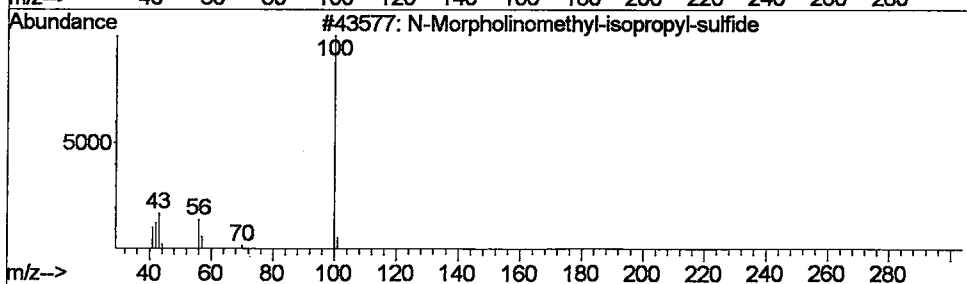
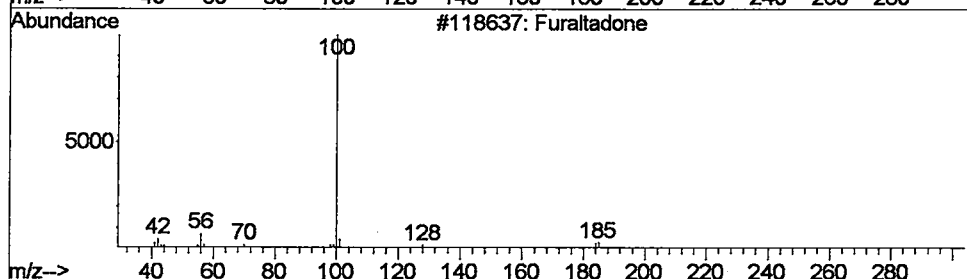
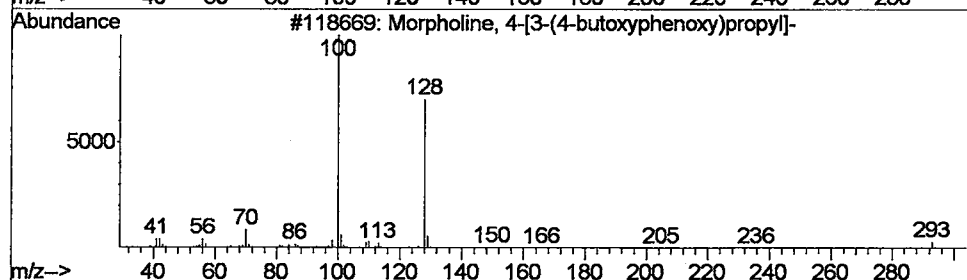
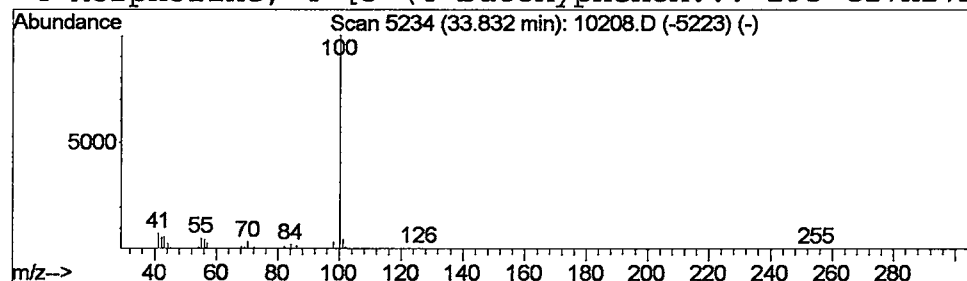
Vial: 10
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 4 Morpholine, 4-[3-(4-butoxyphenox... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.83	0.50 ug/l	78785	Phenanthrene-d10	31.72

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Morpholine, 4-[3-(4-butoxyphenox...	293	C17H27NO3	000140-65-8	72
2			Furaltadone	324	C13H16N4O6	000139-91-3	72
3			N-Morpholinomethyl-isopropyl-sul...	175	C8H17NOS	1000145-15-9	45
4			Morpholine, 4-[3-(4-butoxyphenox...	293	C17H27NO3	000140-65-8	40



Data File : C:\MSDCHEM\1\DATA\020509\10208.D
 Acq On : 9 May 2002 7:31 pm
 Sample : sample
 Misc :
 MS Integration Params: rteint.e

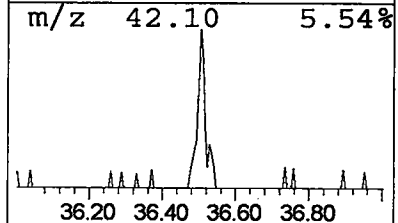
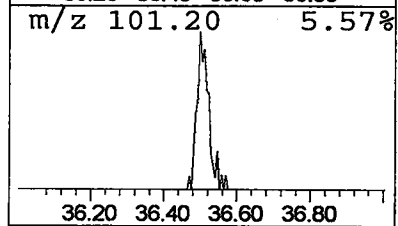
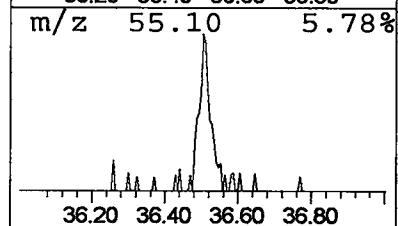
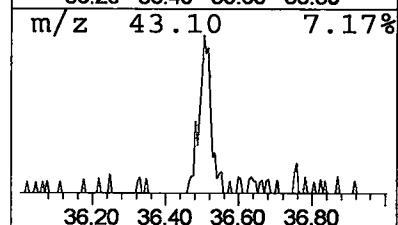
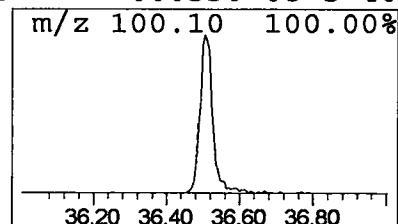
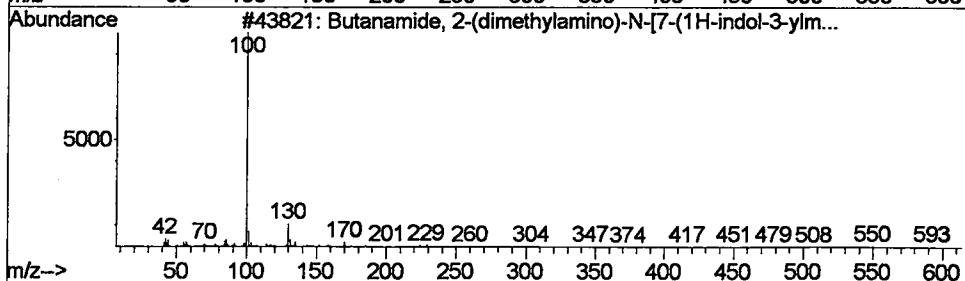
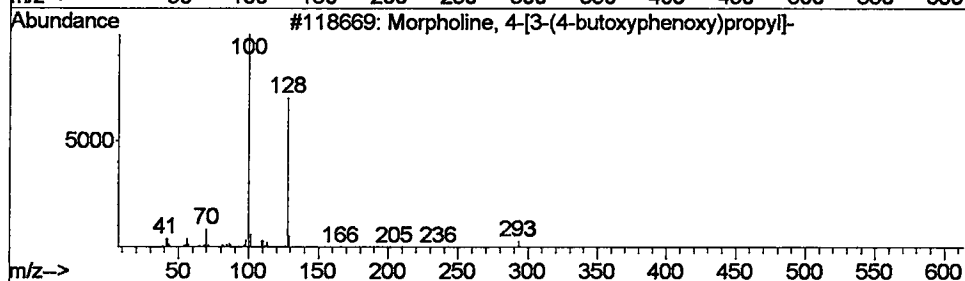
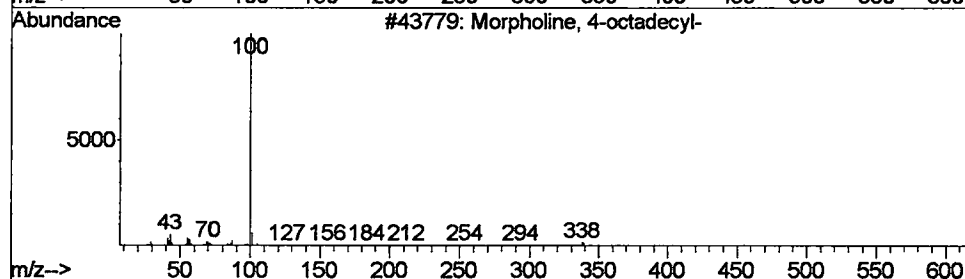
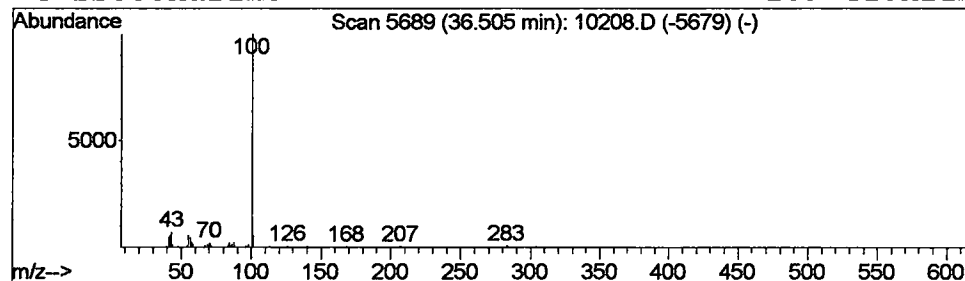
Vial: 10
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 5 Morpholine, 4-octadecyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
36.51	0.83 ug/l	111622	Chrysene-d12	39.94

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Morpholine, 4-octadecyl-	339	C22H45NO	016528-77-1	78
2			Morpholine, 4-[3-(4-butoxyphenox...	293	C17H27NO3	000140-65-8	56
3			Butanamide, 2-(dimethylamino)-N...	593	C35H39N5O4	018397-13-2	56
4			Isoetharine	239	C13H21NO3	000530-08-5	40



Data File : C:\MSDCHEM\1\DATA\020509\10208.D
 Acq On : 9 May 2002 7:31 pm
 Sample : sample
 Misc :
 MS Integration Params: rteint.e

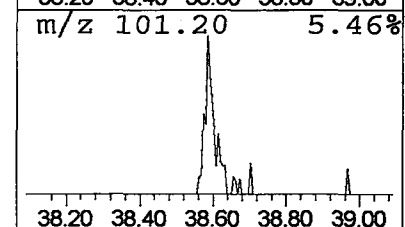
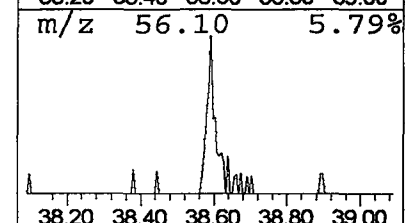
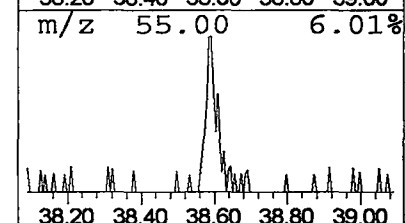
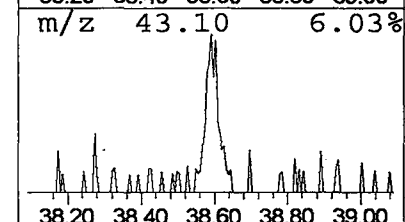
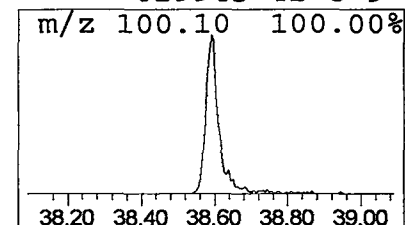
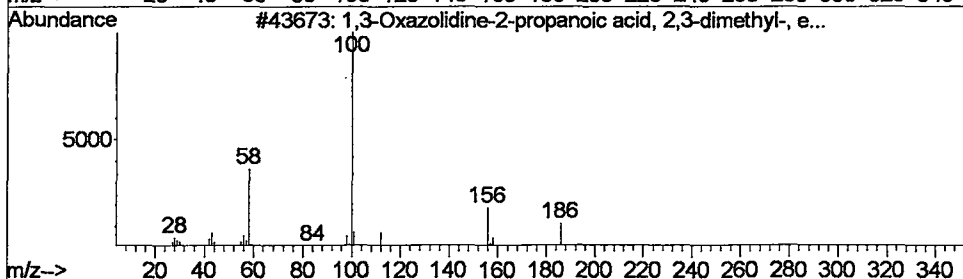
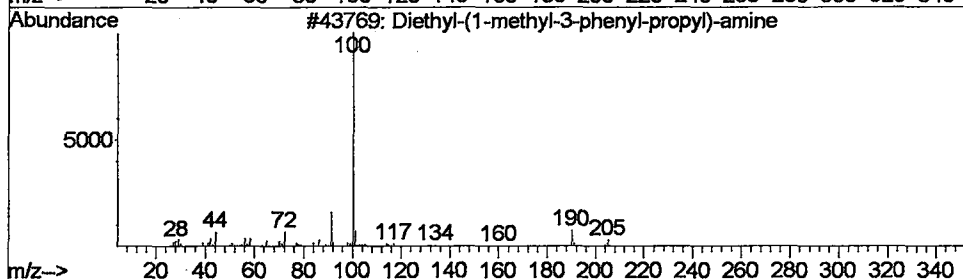
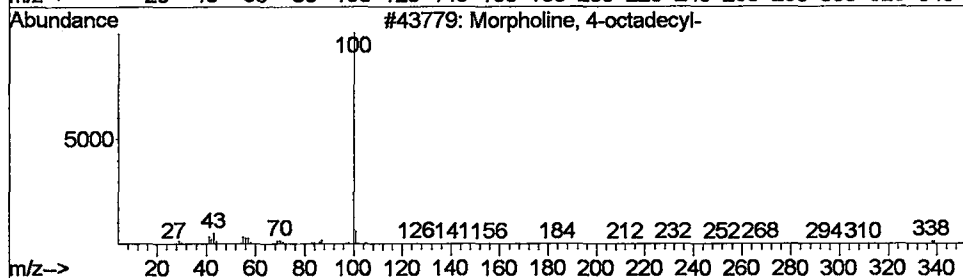
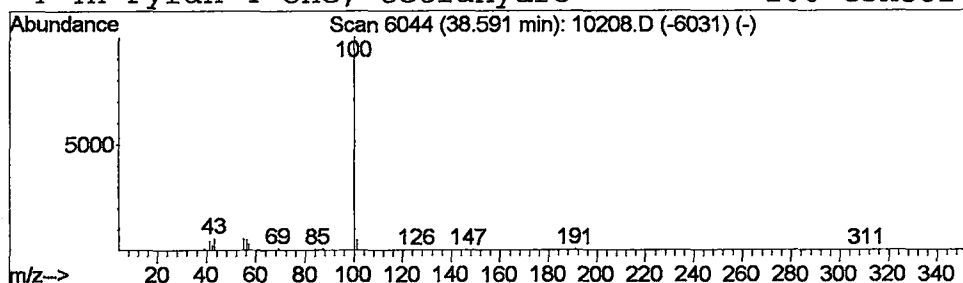
Vial: 10
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 6 Morpholine, 4-octadecyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
38.59	0.68 ug/l	91039	Chrysene-d12	39.94

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Morpholine, 4-octadecyl-	339	C22H45NO	016528-77-1	56
2			Diethyl-(1-methyl-3-phenyl-propy...	205	C14H23N	1000194-24-3	40
3			1,3-Oxazolidine-2-propanoic acid...	201	C10H19NO3	1000139-28-1	40
4			4H-Pyran-4-one, tetrahydro-	100	C5H8O2	029943-42-8	9



Operator ID: Nefliu Date Acquired: 9 May 2002 7:31 pm
Data File: C:\MSDCHEM\1\DATA\020509\10208.D
Name: sample
Misc:
Method: C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
Title: Method 508 GC/MS Scan
Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
✓ 2-Pentanone, 4-hy...	6.15	13.7	ug/l	1514230	1	11.38	4431660	40.0
4-Hydroxy-3,5-dim...	31.09	0.3	ug/l	50112	4	31.72	6242620	40.0
✓ Anthracene, 1,2,3-tri...	31.95	0.3	ug/l	49344	4	31.72	6242620	40.0
Morpholine, 4-[3-...	33.83	0.5	ug/l	78785	4	31.72	6242620	40.0
Morpholine, 4-oct...	36.51	0.8	ug/l	111622	5	39.94	5391720	40.0
Morpholine, 4-oct...	38.59	0.7	ug/l	91039	5	39.94	5391720	40.0

ENVIRONMENTAL SERVICES SAMPLE SUBMISSION FORM
WESTCHESTER COUNTY LABORATORIES AND RESEARCH2 Dana Road, Valhalla, New York 10595
(914) 231-1620 Fax (914) 231-1772NYS-ELAP No. 10108
Form A-70 (rev.10/01)

Time/Date Set:

Sample Type (circle one):

1. Potable 3. Non Potable Treated
2. Non Potable 4. Other _____

Time/Date Collected: 4/28/02Collected By: LAB Agency Code: newq

Collected From:

Location's/Individual's Name FBD

Street _____

City/St/Zip _____

Identification of Source _____

Collection Point FBDBottle #'s: Q 3413 P 714Chain of Custody? Yes No

Comments: _____

PWS #: _____ Source ID: _____ Type Descriptor: _____

Bill to:

Name/Company _____

Street _____

City/St/Zip _____

Phone#: _____ Fax#: _____

CA,CH, BI? _____ Check#: _____ Amount\$ _____

BACTERIOLOGICAL ANALYSIS

Lab#: _____

- ☐ Heterotrophic Plate Count
(hemodialysis & all others)
☐ Coliform P/A (Public supplies)
☐ Coliform MPN (priv well, raw, stp)
☐ Fecal Coliform (all samples)
☐ Microscopic
☐ Macroscopic
☐ API
☐ Other: _____

Refrigerated? yes noChlorinated:? yes no

Free Chlorine Res: _____ mg/L

Total Chlorine Res: _____ mg/L

pH _____

RADIOCHEMICAL ANALYSIS

☐ Radon☐ Other _____Lab#: 10208

ORGANIC POTABLE ANALYSIS

- ☐ Trihalomethanes (524)
☐ Volatile Halocarbons (524)
☐ Volatile Aromatics (524)
☐ Total Trihalomethane Potential (510)
☐ Microextractables (504)
☐ Pesticides/PCB screen (508)
☐ PCB as Decachlorobiphenyl (508A)
☐ Herbicides (515)
☐ Pesticides (525)
☐ Carbamate Pesticides (531)
☐ Glyphosate (547)
☐ Diquat (549)
☐ Chlorination Disinfection Byproducts (551)
☐ Haloacetic Acids (552)
☐ Other Pesticides (SM18/6630)
☐ UCMR List 1
☐ MtBE Only (524)

ORGANIC NONPOTABLE/SOLID ANALYSIS

- ☐ Purgeable Halocarbons (624/8260)
☐ Purgeable Aromatics (624/8260)
☐ Acrolein & Acrylonitrile (8260)
☐ Organochlorine Pesticides (608/8081)
☐ PCB's (Arochors) (608/8081)
☐ Herbicides (SM18/6630,8151)
☐ Other Pesticides (SM18/6630)
☐ Petroleum Hydrocarbon Scan (310-13)
☐ Glycols in Water
☐ Acid Extractables (625/8270)
☐ Base Neutral Extractables (625/8270)
☒ GC/MS Unknown Scan
☐ Phthalates (606MS)
☐ Other: _____

INORGANIC ANALYSIS REQUESTED - Lab#: _____

- ☐ Color
☐ Turbidity
☐ pH
☐ Conductivity
☐ Corrosivity (temp: _____ °C)
☐ BOD (5 day)
☐ Carbonaceous BOD (5 day)
☐ Soluble BOD (5 day)
☐ Chemical Oxygen Demand
☐ Dissolved Oxygen
☐ Total Organic Carbon
☐ Total Organic Halides
☐ Solids, Percent (%)
☐ Solids, Settleable
☐ Solids, Suspended
☐ Solids, Total
☐ Solids, Total Dissolved
☐ Solids, Total Volatile
☐ Other: _____

- ☐ Acidity
☐ Alkalinity
☐ Bromide
☐ Bromate/Chlorate/Chlorite
☐ Chloride
☐ Cyanide
☐ Fluoride
☐ Hardness, Total as CaCO₃
☐ Nitrogen, Ammonia as N
☐ Nitrogen, Nitrate as N
☐ Nitrogen, Nitrite as N
☐ Nitrogen, Total Kjeldahl as N
☐ Oil and Grease
☐ Phenol
☐ Phosphorus Total as P
☐ Phosphorus, Ortho as P
☐ Sulfates
☐ Surfactants
☐ UV254

- ☐ Aluminum
☐ Antimony
☐ Arsenic
☐ Barium
☐ Beryllium
☐ Boron
☐ Cadmium
☐ Calcium, as CaCO₃
☐ Calcium, Ca²⁺
☐ Chromium, Total
☐ Chromium, Hexavalent
☐ Cobalt
☐ Copper
☐ Iron
☐ Lead
☐ Magnesium
☐ Manganese
☐ Mercury
☐ Molybdenum
☐ Nickel

- ☐ Potassium
☐ Selenium
☐ Silver
☐ Sodium
☐ Thallium
☐ Vanadium
☐ Zinc

CLP

- ☐ Metals/CN
☐ Volatiles
☐ Semi-volatiles
☐ Pesticides/PCB's

TCLP

- ☐ TCLP-Metals
☐ TCLP-Pesticides
☐ TCLP-Herbicides
☐ TCLP-Volatiles
☐ TCLP-BNA's