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# **INVESTIGATION OF HYDROCARBON SOURCES AT THE FORMER MANUFACTURED GAS PLANT (MGP) SITE IN NYACK NEW YORK**

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# 1

## INTRODUCTION

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This report presents a review and interpretation of selected chemical analysis data from the former MGP site in Nyack New York. The overall objective of the work was to identify the sources of polycyclic aromatic hydrocarbons (PAHs) in the Hudson River sediments adjacent to the former MGP site. PAH sources were identified, when possible, using a combination of two methods. First, samples of potential source materials from soil borings and test pits, and sediment were analyzed for selected environmental forensic parameters including hydrocarbon fingerprints by gas chromatography with flame ionization detection (GC/FID) and extended PAH profiles (EPPs) by GC with mass spectrometric detection (GC/MS). The results of those analyses were reported by META Environmental, Inc. (META) in two reports titled, "Environmental Forensic Report Nyack MGP Site SDG RE010517, RE010523, RE010525" June 11, 2001, and "Environmental Forensic Report Nyack MGP Site SDG RE010611" June 20, 2001.

### 1.1 DEFINITIONS

The following terms will be used throughout this report. For clarity purposes their intended definitions are presented here.

Hydrocarbon – an organic compound that consists of only carbon and hydrogen. Typical hydrocarbons include alkanes, such as hexane, and PAHs. Hydrocarbons are the principle constituents of crude oil and its derivatives, of asphalt, and of pyrogenic matter, such a coal tar, creosote, and combustion byproducts.

Pyrogenic substances are complex mixtures of primarily hydrocarbons formed from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil by one of several processes. These materials are often called coal tar or oil tar. Coal-tar based products, such as roofing, paving sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt. For the purposes of this report, coal is considered petrogenic, but tar from the cracking of oil is considered pyrogenic.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remains following coal tar distillation. The composition of pitch can resemble severely weathered coal tar because it is the low molecular weight components of coal tar that are the most mobile and degradable.

A fingerprint is a collection of properties or chemical concentrations that are characteristic of a particular type of substance. However, unlike human fingerprints or DNA fingerprints, the chemical fingerprints of pyrogenic and petrogenic substances in the environment are not necessarily unique at the level of analysis conducted. Also, environmental fingerprints can be obscured by analytical variability, environmental alterations over time, or the mixing of several sources. It is the goal of environmental forensics to identify and interpret the effects of these processes on a material's fingerprint.

Parent PAHs are aromatic hydrocarbons that consist of two or more fused rings, mostly 6-membered, with no heteroatoms or attached functional groups. Common parent PAHs include naphthalene, phenanthrene, and benzo(a)pyrene.

Alkylated PAHs are parent PAHs that have one or more alkane functional groups attached to the aromatic fused ring backbone. Common alkylated PAHs include methylnaphthalene, dimethylnaphthalene, and ethylmethylnaphthalene.

## 1.2 APPROACH

As part of the remedial investigation at the former Nyack MGP site, samples of soil, sediment, and non-aqueous phase liquids (NAPL) were collected and analyzed for volatile and semivolatile organic compounds by U.S. EPA methods 8260 and 8270. The chemical concentrations derived from those analyses have been reported elsewhere and provide important information on the nature of chemical substances in each sample, if any. For example, high concentrations of PAHs (e.g., hundreds or thousands of parts per million) indicate the presence of coal tar-like materials or some petroleum products. However, the reported PAHs may not be the only chemicals present, nor the most abundant chemicals present.

The tabulated results from Methods 8260 and 8270 show only a portion of the chemical composition in the samples. This portion of the composition data often is inadequate for identifying the materials in mixed samples or discriminating among sources of similar materials. Fortunately, more information is present in the data produced by those analyses that can be extracted by subsequent data processing. This additional information can be helpful for identifying sample compositions and grouping samples by similar sources.

This report presents the results of additional analysis and evaluation of the existing site data. As described in the Methods section, the raw instrument data were obtained and reprocessed to



produce hydrocarbon fingerprints and certain diagnostic ratios and graphics. The compositions of the samples then were identified and samples of similar composition or origin were grouped together. A discussion of the data and its interpretation is included in Section 3 of the report.

## 2 METHODS

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The following subsections describe the methods used to analyze samples and extract the data for analysis.

### 2.1 ANALYSES OF SAMPLES BY META

Four soil samples, two non-aqueous phase liquid (NAPL) samples, and two sediment samples were received and analyzed by META. The NAPL samples were diluted to a concentration of 5 mg/ml in dichloromethane (DCM) (EPA 3580). Up to 2 grams of each soil or sediment sample was extracted with dichloromethane (DCM) (EPA 3570) and concentrated to about 1 mL final volume using the Kuderna-Danish technique.

Each extract was spiked with internal standard and analyzed by GC/FID (EPA 8100 mod.) and GC/MS/SIM (EPA 8260/8270 mod.). The concentrations of certain PAHs and their alkylated homologs were determined using the GC/MS/SIM method. This list of PAHs and their alkylated homologs is termed by META as extended PAH profiles (EPPs).

In addition to PAH concentrations, the chromatograms of selected characteristic ions were generated. For example, ion 85 highlights the normal alkanes, ion 113 highlights the isoprenoid hydrocarbons, and ion 216 highlights the methylated fluoranthenes and pyrenes.

Target PAHs were identified and labeled in the GC/FID fingerprints where possible. The whole sample composition was evaluated from the GC/FID fingerprints. The GC/MS/SIM data were reduced to concentrations using META's standard procedures and reported in tabular form. Bar graphs of the EPPs were generated and examined for indications of chemical nature and source.

### 2.2 ANALYSES OF SAMPLES BY SEVERN TRENT LABORATORIES

Two Severn Trent Laboratories, in Connecticut and Pennsylvania, analyzed samples of soil, NAPL, and sediment for acid/base/neutral extractable compounds by EPA Method 8270 (GC/MS). The hard copy laboratory reports were submitted to The RETEC Group as part of the site investigation report. Then, copies of the raw instrument files in HP Chemstation software format were placed on CD and sent to META for supplemental analysis of the data.

The data of 148 soil and sediment samples, plus their associated calibration and quality control samples, were provided to META in the electronic format. At META, the data were opened in HP Chemstation and reprocessed using HP Enviroquant software. Specifically, new calibration factors for PAHs and alkylated PAHs were generated from the continuing calibration data provided by STL. To minimize within-sample variability, the calibration factors for all compounds were determined relative to the internal standard, phenanthrene-d10. Then, the concentrations of PAHs and alkylated PAHs in each sample were re-calculated and checked. Finally, the new PAH concentration data were exported to Microsoft Excel spreadsheets for subsequent data manipulation. Appendix A lists these data.

In similar fashion to the samples analyzed at META's laboratory, bar graphs and ion chromatograms were generated for the STL data.

### **Data Analysis Tools**

PAH ratios, radial plots, bar graphs, and other data analyses were conducted using Microsoft Excel software. Factor Analysis (FA) was conducted using Statistica version 6 from Statsoft Corporation (Norman, OK).

## 3 RESULTS

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### 3.1 TOTAL ION CHROMATOGRAMS AND GC/FID FINGERPRINTS

One common method for determining the nature and source of hydrocarbons in environmental samples involves the generation of hydrocarbon fingerprints. This is often done using high resolution GC/FID because the flame ionization detector response is nearly the same for an equivalent mass of any hydrocarbon regardless of its chemical structure. Therefore, the relative amounts of individual chemicals in a mixture can be immediately assessed from a visual inspection of the GC/FID chromatogram. However, GC/FID fingerprints were not generated for the samples analyzed by Severn Trent Laboratories, so chromatographic interpretation had to be conducted using the total ion chromatograms (TICs) from the GC/MS analyses. Interpretation of TICs must be done with caution, since the relationship between chromatographic pattern and chemical composition may not be as direct as with GC/FID. Appendix D provides copies of all TICs for all samples analyzed by STL.

Several patterns were evident in the TICs indicating a range of chemical compositions among both on-shore and off-shore samples. The following discussion focuses on the sediment samples, identified as SDx or BSDx.

Many background sediment samples, identified as BSDx, contained little or no analyzable material and thus exhibited no distinct chromatographic pattern (large peaks in the chromatograms usually are standard compounds added by the laboratory as part of the analysis). For example, sample BSD2 (0-2) contains a few small peaks primarily late in the chromatogram (toward the right or higher x-axis values) that appear to be neither pyrogenic nor petrogenic. The pattern may be consistent with natural organic matter, such as decaying leaf litter. Table 1 lists the samples that contained this pattern.

In contrast, sample BSD14 (0-2) contains several large peaks corresponding to high molecular weight PAHs, plus a substantial “hump” in the baseline, called an unresolved complex mixture (UCM), indicative of the accumulation of weathered fuels and oils typical of urban background. The concentrations of PAHs range from 0.01 to about 3 mg/kg, also consistent with urban background. The samples that have this pattern are listed in Table 1. Samples BSD1 (0-2), BSD16 (0-2), and BSD18 (0-2) were included in the urban background category even though no UCM is clearly visible. This classification was based on the detection of petroleum biomarker compounds (hopanes) in the samples indicating that some petrogenic material was present.

No other distinct patterns, such as fuels, weathered fuels, coal tar, or creosote, were detected in any of the background sediment samples.

A similar examination of the remaining sediment samples, identified as SDx, was conducted. A greater number of chromatographic patterns were observed in the sediment samples as is seen in Appendix D. For example, an urban background pattern, similar to that found in the background sediment samples, is seen in SD1 (0.0-0.2) and other samples. However, an MGP tar signature can be seen in SD12 (4.4-4.7). Table 2 shows the classification of sediment sample composition based on a TIC review. Samples with no discernable pattern and little or no PAHs were classified as natural background. Samples with high concentrations of PAHs including 2- and 3-ring PAHs, but no indications of petrogenic matter, were classified as coal tar or MGP residuals. All samples with mixed pyrogenic and petrogenic patterns, including urban background and impacted site samples were grouped together. Subsequent data analysis techniques were used to further classify all of these samples.

No sediment samples were found that contained only petrogenic PAHs.

### 3.2 SPECIFIC RESPONSES TO NYSDEC COMMENTS

1. *The distribution of PAH compounds at each sampling location containing over 10 ppm PAH should be shown with a star diagram, segregating the overall PAH analyses into groups of 2, 3, 4, and 5-ring compounds.*
  - a. Star diagrams for all available samples are shown in Appendix E. Several general PAH patterns can be identified in the star diagrams. For example, samples containing relatively large amounts of Group 1 compounds (naphthalene and methylnaphthalenes) are usually coal tar-like materials that have not been altered by environmental weathering processes. Samples TP1 (8.0-9.0) and TP13 (8-9) illustrate this pattern which can be confirmed by examining their total ion chromatograms (TICs) in Appendix D.
  - b. Similarly, samples containing relatively low amounts of Group 1 compounds suggest weathered coal tar-like materials. The star diagram and TIC for Sample TP10 (9.5-10.5) illustrates this type of sample composition.
  - c. Another common pattern is illustrated by Sample TP14 HLDR B. The star diagram indicates relatively little Group 1 and Group 2 compounds. The sample is dominated by Group 3 compounds, including fluoranthene, pyrene, benz(a)anthracene, and chrysene. This is a common pattern for many pyrogenic sources including severely weathered tars, severely weathered creosotes, coal tar pitch, and many combustion sources. The star diagram pattern seen in Sample TP14 HLDR B is also similar to many of the sediment samples, such as SD1 (0.0-0.2) and SD10 (0.0-0.4).

- d. However, because of the confounding influences of environmental weathering and mixed sources, we do not recommend using star diagrams alone for source characterization. The pitfalls are clearly evident in the samples discussed in the previous paragraphs. Specifically, the star diagrams for samples TP14 HLDR B, SD1 (0.0-0.2), and SD10 (0.0-0.4) are nearly identical. An examination of their TICs reveals, however, that their hydrocarbon compositions are very different. Sample TP14 HLDR B contains a substantial amount of a middle weight petroleum product that appears to be severely weathered diesel fuel or similar product. This is in addition to lesser amounts of pyrogenic PAHs that may or may not be associated with the weathered fuel oil source. In contrast, Samples SD1 (0.0-0.2) and SD10 (0.0-0.4) contain mostly high molecular weight PAHs with lesser amounts of what appears to be a combination of heavy oils and natural organic matter. This pattern is typical of shallow sediment samples impacted by accumulated hydrocarbons from general urban runoff. Thus, while the star diagrams seem to indicate the same materials in each of these three samples, their TICs (and other data discussed later) show that the hydrocarbons in these samples are unrelated.
- e. Because the information provided by the star diagrams is limited, they were used only as a general classification tool for subsequent evaluations of the data. For example, all of the background sediment samples, except BSD3 (0-2), have nearly identical star plots. This suggests similar PAH sources and degree of weathering. In fact, similar star plots correspond to samples with similar TICs for the background sediment samples. Further, few samples from soil borings (identified as SBx or MWx) or test pits (identified as TPx) had star plots similar to those of the background sediment samples. Of the few samples from soil borings and test pits that have similar star plots, again caution must be used when grouping samples together because the plots can be misleading. For example, the star plots of samples BSD1 (0-2) and SB31 (9-9.5) are nearly identical, but their TICs are very different. Similar results are obtained when comparing BSD1 (0-2) to TP14 HLDR B.
- f. Given these cautions and summarizing the discussion above, several observations can be made using the star plots:
- i. The PAH patterns of all background sediment samples for which detectable PAHs were present are remarkably similar.
  - ii. The PAH patterns of samples from soil borings and test pits are not similar to those of the background sediment samples, with few exceptions. Most similarities between soil boring or test pit samples and background sediment samples can be discounted based on other measures, such as TICs.

- iii. Those sediment samples relatively near the site that have star plots similar to the background sediment samples also have similar TICs and therefore are likely urban background. Several sediment samples near the site do not have PAH patterns or TICs similar to the background sediments, however.
2. *The ratio of alkylated PAH compounds (those which contain side-chains, typically associated with petroleum sources) to the corresponding unsubstituted PAH compounds (more commonly associated with pyrolysis processes conducted at MGP facilities) should be calculated and plotted on a map.*
- a. We were not sure what ratio was being requested here; however, examining the patterns of parent and alkylated PAHs is a common source identification tool. We call this type of data extended PAH profiles (EPPs). We recovered the alkylated PAH data from the STL files and used them in several ways to understand the data. All recovered data are reported in Appendix C.
  - b. First, the ratios of total parent PAHs to alkylated PAHs were calculated. Those ratios are reported in Table 4. The ratios ranged from 0.15 to 4.51 for all samples pooled [a value of 10 was obtained for one very low concentration sample, SB19 (6.0-6.2), but was rejected because most of the alkylated PAHs were not detected]. Inspecting the TICs reveals that the low ratios correspond to samples dominated by fuels, weathered fuels, and heavy oils. The high ratios correspond to samples dominated by pyrogenic materials with little indication of petrogenic character. However, except for grouping samples by general composition, the parent/alkylated PAH ratio has little value. The ratios were widely distributed among all sample types. Specifically, the ratios for samples collected from soil borings and test pits ranged from 0.15 to 4.51 and included all types of hydrocarbon compositions. Similarly, the ratios from background sediment samples ranged from 0.85 to 2.38. However, the chromatographic variability among the background sediment samples was much less than among soil boring and test pit samples. For example the parent/alkylated PAH ratios for samples BSD15 (0-2) and BSD14 (0-2) were 0.86 and 2.38 respectively. However, their TICs are quite similar suggesting that small differences in composition or degree of weathering can manifest in substantial differences in this ratio. Similar results are obtained when considering the other sediment samples. For that group, the ratio ranged from 0.68 to 2.63.
  - c. Bar graphs are another common method of displaying and interpreting EPPs and they were generated for the samples from the Nyack site. Appendix F includes the bar graphs of all of the samples. With the bar graphs, both the relative amount of parent PAHs and alkylated PAHs in the sample are shown as well as the concentrations of each level of alkyl substitution. A wide range of patterns are evident in the bar graphs.

- i. Most bar graphs indicate a mixture of pyrogenic and petrogenic substances. The relative amount of pyrogenic to petrogenic material is seen in the relative heights of the parent to alkylated PAHs. In addition, many of the samples dominated by pyrogenic substances show the PAH patterns of weathered material – low relative 2-ring compounds; high relative 4- and 5-ring compounds.
  - ii. The background sediment samples have PAH patterns also indicative of mixtures of pyrogenic and petrogenic substances that have been severely weathered. The small variations among the samples likely are caused by variations in degree of weathering or analytical variations at low concentrations, or both.
  - iii. The ratios of selected compounds or compound groups can be used to classify samples by source type. Some of these ratios were calculated and are discussed later in this report. However, the bar graphs provide a qualitative or visual method for verifying the interpretation based on calculated ratios.
3. *Factor Analysis should be applied to the data set in order to determine whether patterns in PAH distributions can be identified.*

A factor analysis (FA) of the data was conducted in the following way. The full data set in Appendix C was modified as illustrated in Table 5. In particular, several pairs of parent PAHs, such as phenanthrene and anthracene, were combined into a single value. Also, for those samples with five or fewer non-detects, the non-detects were replaced with 0.0001 so that factor analysis could be conducted on those samples. Samples with more than five non-detected compounds were omitted from the factor analysis. Next, the data were normalized by dividing each PAH value for each sample by the sum of PAHs for that sample. This unit normalization removes the effect of concentration on the factor analysis results; thus, the final FA results were based on PAH patterns only.

The factor analysis was conducted on the covariance matrix using the Statistica software package from Statsoft Corporation. No factor rotation was applied. The first ten eigenvectors were retained and Table 6 shows their values; Figure 1 shows the scree plot of the data. Based on the cumulative variance and scree plot results, it was estimated that the data contained four principal factors. However, based on an examination of the chromatograms, more than four types of hydrocarbons are observed in the data. It appears that some hydrocarbon sources are present in so few



samples or at such low relative amounts that they do not contribute substantially to the overall variability of the data set.

Figures 2 to 6 show several views of the projections of the samples on the first two principal factors. In these figures, sample projections that cluster together have PAH patterns that are similar. As discussed above, the effects of different concentrations of PAHs has been removed by data normalization. Also, because unit normalization was used, the distances between the data points are related to the degree of similarity or dissimilarity in a linear way.

Three principal sample types appear to be present as indicated by the triangular shape of the projections. Samples similar to MW5D (2.0-4.0) contained principally pyrogenic patterns consistent with coal tar. Also, found in this region of the PA plot are samples MW5 (14.0-16.0) and TP6 (9.5-10.5). All three samples contained tar-like matter with similar EPPs that were consistent with relatively unweathered tar from a former MGP operating the carbureted water gas process (CWG). In addition, all three samples were collected from the same general area of the site near drainage pit A. Thus, for these samples the FA clearly groups samples by common type and likely source.

In contrast, samples similar to SB1 (10-12) contained principally petrogenic patterns consistent with fuels and heavy oils. Other samples that cluster with SB1 (10-12) include SB2 (8.5-10), TP2 (8.0-9.0), TP4 (9.5-10.0), and TP14 HLDR B. All of these samples contained mid-weight to heavy petroleum products with little evidence of pyrogenic PAHs. Sample SB2 (8.5-10) was collected near the former gas oil storage tanks.

Finally, samples similar to SB22 (7.0-7.3) and MW11-BC (10-11) contained principally high molecular weight PAHs of pyrogenic character. These samples are indicative of severely weathered pyrogenic materials, pitch, and urban background. It is interesting to note that both samples MW11-BC (10-11) and SB22 (7.0-7.3) contained relatively low concentrations of PAHs that were not inconsistent with urban background and that sample SB22 (7.0-7.3) was collected in a filled area at the southern limit of the site, while sample MW11-BC (10-11) was collected off-site and north of the former MGP site.

Samples that fall between these extremes contain some combination of pyrogenic and petrogenic PAHs. The sources of these pyrogenic and petrogenic PAHs may or may not be the same as the samples discussed in the previous paragraphs. Also, environmental weathering can alter the PAH patterns causing shifts in the projections

on the FA plot. Similarities and dissimilarities between samples as indicated by the FA results will be explored in the next several paragraphs.

Almost all of the sediment samples cluster together at the far left of Figures 2 through 6. As stated above, several soil boring and test pit samples also fall in this area. In every case, these soil boring and test pit samples contained low to relatively low concentrations of high molecular weight PAHs and various amounts of petrogenic materials. Also the TICs of the soil boring and test pit samples that cluster in this region exhibited varying degrees of environmental weathering. They cluster together even though their TICs show clear compositional differences because the variability in the chemical patterns cannot be described fully by only two factors.

Figure 2 shows that all of background sediment samples cluster together indicating similar compositions. This is consistent with the TICs and other data presentations discussed previously. Figure 6 shows only the sediment samples collected in the vicinity of the former MGP site labeled. As noted previously, many of those sediment samples had chemical compositions similar to the background sediment samples. However, some also have more tar character, such as SD12 (4.4-4.7), as indicated by substantially higher PAH concentrations and greater relative proportions of 2- and 3-ring PAHs. This observation is consistent with the star plots and bar graphs. Generally, the sediment samples with tar character were collected close to the shoreline of the former MGP site. It is important to note, however, most of the sediment samples project in a tight cluster with the background sediment samples.

As stated above, the discriminating power of the FA for this data set is increased when more than two factors are used to describe the data. Thus, when the factor scores plot is expanded to three dimensions, further separation of PAH patterns is evident. Figures 7 to 13 show various views of the FA results in three dimensions. As with the 2-D view, it is clear from Figure 8 that the background sediment samples are similar in composition, but different from most other samples on the former MGP site. In fact, none of the test pit samples, all of which were collected on the former MGP site, project close to the background sediment samples as shown in Figure 11.

In Figure 8, the spread in background sediment sample projections indicates varying ratios of high molecular weight PAHs. For example, sample BSD8 (0-2) has a ratio of fluoranthene/pyrene of 1.19 while BSD19 (0-2) has a ratio of fluoranthene/pyrene of 0.60. It is the combined effect of all of these small differences among the samples that determine the location of the sample projections on plots like Figure 8.

In Figure 12, the sediment samples with compositions similar to the background sediment samples are clearly identified. In contrast, the sediment samples substantially

different from the background samples also are evident. For example, the samples SD27 (6.4-6.9), SD27 (5.1-5.8), SD32 (0-2), SD15 (0-2), SD12 (4.4-4.7), SD3 (0.2-1.6), SD6 (0-0.2), SD6 (2.1-2.3), SD4 (0.4-1.4), SD22 (4.9-6.0), SD5 (0.5-1.3), SD31 (2.6-3.6), and SD11 (0.5-2.0) all project away from the background sediment cluster. Most of these sediment samples were collected either right along the shoreline near the former MGP or around the former mooring dolphins. Also, most of the samples were from the deeper portions of the sediment core, while shallow sediments from the same cores resembled the background sediments more closely. The principal differences among the sediment samples, manifested in the FA plots, are in their different PAH ratios. For example, the sediment samples listed in this paragraph have relatively low fluoranthene/pyrene ratios and relatively low dibenzofuran/fluorene ratios, characteristics typical of former MGP residuals. In contrast, shallower and more distant samples have relatively high fluoranthene/pyrene ratios and relatively high dibenzofuran/fluorene ratios, characteristics typical of coal tar products, combustion by-products, and urban background.

The TICs and diagnostic ratios (e.g., Figure 18) for these samples were examined and the following types of hydrocarbons were identified in the samples:

1. Samples SD27 (6.4-6.9), SD27 (5.1-5.8), SD32 (0-2), SD12 (4.4-4.7), SD3 (0.2-1.6), SD6 (2.1-2.3), SD4 (0.4-1.4), SD22 (4.9-6.0), SD5 (0.5-1.3), SD31 (2.6-3.6), and SD11 (0.5-2.0) contained pyrogenic PAHs in patterns similar to former MGP residuals.
2. Samples SD4 (0.4-1.4), SD22 (4.9-6.0), SD5 (0.5-1.3), SD31 (2.6-3.6), and SD11 (0.5-2.0) were weathered more so than the other MGP-like samples.
3. Samples SD6 (0-0.2) and SD15 (0-2) appeared to contain weathered coal tar.
4. In addition to pyrogenic PAHs from former MGP wastes, samples SD6 (2.1-2.3), SD4 (0.4-1.4), SD22 (4.9-6.0), SD5 (0.5-1.3), and SD11 (0.5-2.0) also contained various amounts of heavy petroleum residual. The specific nature of the petrogenic matter could not be determined because of the extensive weathering that has occurred.

Finally, many other samples that appeared to be closely related in the two-dimensional FA plot show significant differences in three dimensions. Figure 13 shows that soil boring samples that appear to have compositions similar to background sediment samples in Figure 4 are actually quite different. For example, the TICs and PAH ratios indicate that sample SB21 (6.3-6.6) contained pyrogenic PAHs with high temperature signature plus a substantial amount of heavy petroleum-derived oil. In

contrast, sample SB28 (7-10) consisted almost entirely of a second type of petrogenic oil.

It is impossible to view the data in more than three dimensions. However, it appears from this examination of the data, that the three-dimension FA plot combined with inspections of TICs and selected compound ratios (see below) provide the information needed to classify the samples.

### 3.3 OTHER PAH RATIOS

While fingerprints, star plots, bar graphs, and FA help to understand the composition of samples and to place them into groups of probable like sources, they are not very good tools for discrimination among samples of similar composition but different origins. This is a common situation at former MGP sites and in urban sediments. The ratios of indicator compounds or groups of compounds have been useful for identifying multiple sources of similar hydrocarbons.

Figure 14 to 18 show a series of double ratio plots of fluoranthene/pyrene verses dibenzofuran/fluorene. Both of these ratios have diagnostic value for pyrogenic substances. The plots show that there are three or more sources of PAHs at the site and in the sediments, as indicated by the spread of the data points. A single PAH source will give a relatively tight cluster of points within about  $\pm 0.2$  units.

A cluster of samples have fluoranthene/pyrene ratios around 0.6 and dibenzofuran/fluorene ratios about 0.15. These values are consistent with many MGP tars. No background sediment samples and about 50% of the other sediment samples fall in this cluster. Again, it is the deeper sediment samples that have PAH ratios similar to former MGP tars and the shallow samples with other ratios (Figure 18).

All but one test pit sample (Figure 17) and most soil samples (Figures 15 and 16) fall in the cluster of points with MGP-like pyrogenic patterns. Some soil boring and test pit samples that do not have ratios similar to MGP tar were either collected off-site, e.g., MW3S-CH (10-12), MW4-CH (6-8), and MW3s-CH (17.6-18.0), SB18 (11-11.5), or contained mostly petrogenic material, e.g., SB21 (6.3-6.6).

The data indicate that the PAHs in the background sediment samples and many of the other sediment samples did not originate with the CWG portion of the former MGP.

Other ratios also were examined. For example, plots of the ratio of benzofluorenes/methylpyrenes verses fluoranthene/pyrene (Figures 19 to 23) show a cluster of samples around 0.6, 0.35, as well as a scatter of samples with ratios greater than 0.7 and 0.45. This type of double ratio plot often exposes consistent differences among pyrogenic substances,

such as MGP and coal tars since higher benzo(a)fluorene/methylpyrene ratios are produced at higher temperatures. Therefore, high temperature coal tars often have higher ratios than tars produced by relatively lower temperature MGP processes. Further, benzo(a)fluorenes and methylpyrenes are multi-ring PAHs that are stable in the environment so they can provide valuable source information even for substantially weathered samples. Figures 19 to 23 show that most of the soil boring and test pit samples cluster together and away from the background sediment samples. However, samples BSD19 (0-2) and BSD20 (0-2) fall in the main cluster of soil boring and test pit samples using this combination of diagnostic parameters. However, these two samples do not cluster with soil boring and test pit samples when other diagnostics are used (Figure 14). In addition, when all PAH pattern information is used in a FA, these samples are well removed from the soil boring and test pit samples.

The ratio of dimethyldibenzothiophenes/dimethylphenanthrenes (C2D/C2PA) versus trimethyldibenzothiophenes/trimethylphenanthrenes (C3D/C3PA) was less informative. This double ratio plot often exposes consistent differences among petrogenic substances of similar general composition. It is clearly the case that the soil samples and the near site sediment samples have been impacted by a number of pyrogenic and petrogenic substances over the past decades, resulting in the wide range in the values of their ratios and therefore the observed spread on the double ratio plots. A similar scenario occurs in urban background where the number types and duration of discharges of hydrocarbons into the environment over time can be great. Thus, a range of PAH ratios will be observed in a complex urban sink, such as harbor sediments. This is observed in Figures 24 to 28.

Finally, the relative amount of perylene to other PAHs can be indicative of the relative amounts of natural and man-made hydrocarbons in a sample. This is clearly seen in Figures 29 to 33 where the ratio of perylene/benzo(a)pyrene is plotted against total PAHs. All the samples from soil borings and test pits fall in a narrow band between 0.1 and 0.25 over a wide range of total PAH concentrations. In contrast, the perylene/benzo(a)pyrene ratios for the sediment samples vary greatly, ranging from about 0.1 to greater than 50. Samples BSD2 (0-2), BSD3 (0-2), BSD4 (0-2), BSD5 (0-2), BSD6 (0-2), BSD7 (0-2), BSD9 (0-2), BSD10 (0-2), BSD11 (0-2), BSD12 (0-2), and BSD13 (0-2) contained no detectable or very low concentrations of parent or alkylated PAHs (Appendix C). However, every sample contained perylene, a PAH found in many marine sediments and an indicator of early diagenesis (the breakdown of natural organic matter). Perylene is also found in pyrogenic matter, including MGP tars, but at low relative amounts. For example, the ratio of perylene to benzo(a)pyrene for the 12 test pit samples ranged from 0.13 to 0.21. In contrast, the ratio of perylene to benzo(a)pyrene in the background sediment samples with detectable benzo(a)pyrene ranged from 0.32 to 1.66. Thus, samples with high perylene ratios do not appear related to MGP releases.

### 3.4 COMPARISON OF STL AND META DATA

Six samples from soil borings and monitoring wells were analyzed by META (CLMW3S (9.2-9.6), SB18 (12-14), MW5S (NAPL), MW9D (NAPL), SB14 (12-16), and CLMW4S (6-8). The sample depths for the STL and META samples from the same borings were not identical, so direct comparisons could not be made. Further, while META analyzed two NAPL samples from monitoring wells, STL did not analyze NAPL samples from those wells. One sample interval was the same however. META analyzed sample CLMW4S (6-8) and STL analyzed sample MW4-CH (6-8). Both samples contained indications of a mixture of weathered gasoline and HPAHs. The fluoranthene/pyrene ratios were similar too, 1.01 and 0.93 by META and STL respectively. While these ratios are not identical, they are within 10% relative percent difference (RPD) which is good for split samples analyzed by different laboratories.

Also, a comparison of samples from nearby locations shows generally consistent results. For example, SB18 (12-14) analyzed by META contained coal tar with a fluoranthene/pyrene ratio of 1.24. Sample SB18 (11-11.5) analyzed by STL also contained coal tar residues (determined by examination of the GC/MS chromatogram) with a fluoranthene/pyrene ratio of 1.13. Again, these ratios are within 10% RPD.

Of the sediment samples, META analyzed SD27 (5.1-5.8) and SD32 (0-2). The GC/FID fingerprints, PAH ratios, and EPPs indicated that both samples contained pyrogenic material, likely from a CWG process. The results obtained by STL for those samples were similar. For example, the fluoranthene/pyrene ratios for samples SD27 (5.1-5.8) and SD32 (0-2) were 0.68 and 0.7 respectively by META and 0.60 and 0.62 respectively by STL. Dibenzofuran/fluorene ratios were 0.13 and 0.12 for samples SD27 (5.1-5.8) and SD32 (0-2) respectively by META and 0.08 and 0.10 respectively by STL. These low values are characteristic some pyrogenic materials, including former MGP tars from CWG plants.

The consistent lower fluoranthene/pyrene ratios observed for STL samples as compared to META samples suggests a systematic difference between the results of the two laboratories. In particular, either the fluoranthene concentrations are consistently lower or the pyrene concentrations are consistently higher in the STL data sets. The integrations and calculations were checked and the source of the systematic difference could not be identified. Therefore, for all data analyses, the potential difference between concentrations and ratios between the two laboratories was considered when interpreting the results.

The data generated by META indicate that pyrogenic material from the former CWG plant at the Nyack site can be found in sediments at least as far off-shore as SD27 and SD32, in the area of the remains of the mooring dolphins.

### 3.5 LIMIT OF MGP IMPACT

A variety of indicators were used to determine whether sediment samples contained PAHs from the former MGP operation. These included examinations of fingerprints, star plots, bar graphs, ratios, and factor analysis. The results clearly show that several types of hydrocarbon materials exist in soil in and around the former MGP site and in sediments. These materials include coal tars, CWG tars, and weathered fuels. In addition, some sediments contain an accumulation of heavy oils and PAHs, likely from urban runoff. There are many general similarities among the MGP site samples and the sediment samples; however, when the chemical patterns are simplified and plotted in a multivariate factor analysis, it is clear that the background sediment samples are distinct from the MGP site samples. Further, many of the other sediment samples are distinct from the MGP site samples, including some sediment samples along the former MGP shoreline. In addition, shallow sediment samples, representing more recent deposits, generally show different compositions from deeper sediments in the same cores. The PAH patterns in the shallow samples most closely resemble the background sediment samples. It appears that the MGP impacts are limited to a fairly small area along the shoreline of the former MGP site and at few more distant off-shore locations, particularly near the former mooring dolphins. Also, the MGP impacts appear to be limited to deeper sediments except in a very few locations.

## 4 REFERENCES

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“Environmental Forensic Report Nyack MGP Site SDG RE010517, RE010523, RE010525” prepared by META Environmental, Inc., June 11, 2001.

“Environmental Forensic Report Nyack MGP Site SDG RE010611” prepared by META Environmental, Inc., June 20, 2001.

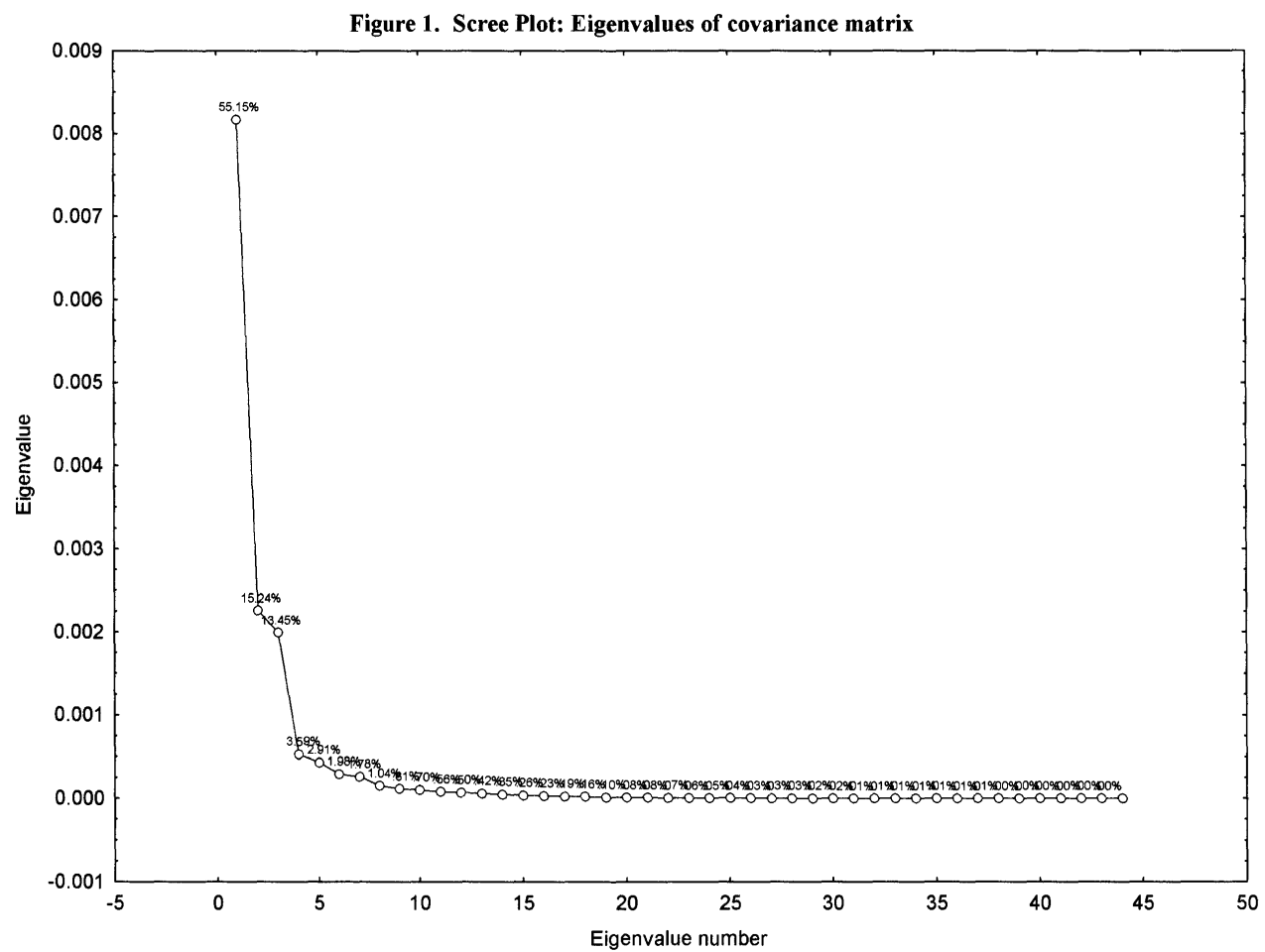
“Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,” SW-846, U.S. Environmental Protection Agency.

“Chemical Source Attribution at Former MGP Sites,” EPRI Technical Report No.1000728. December 2000.



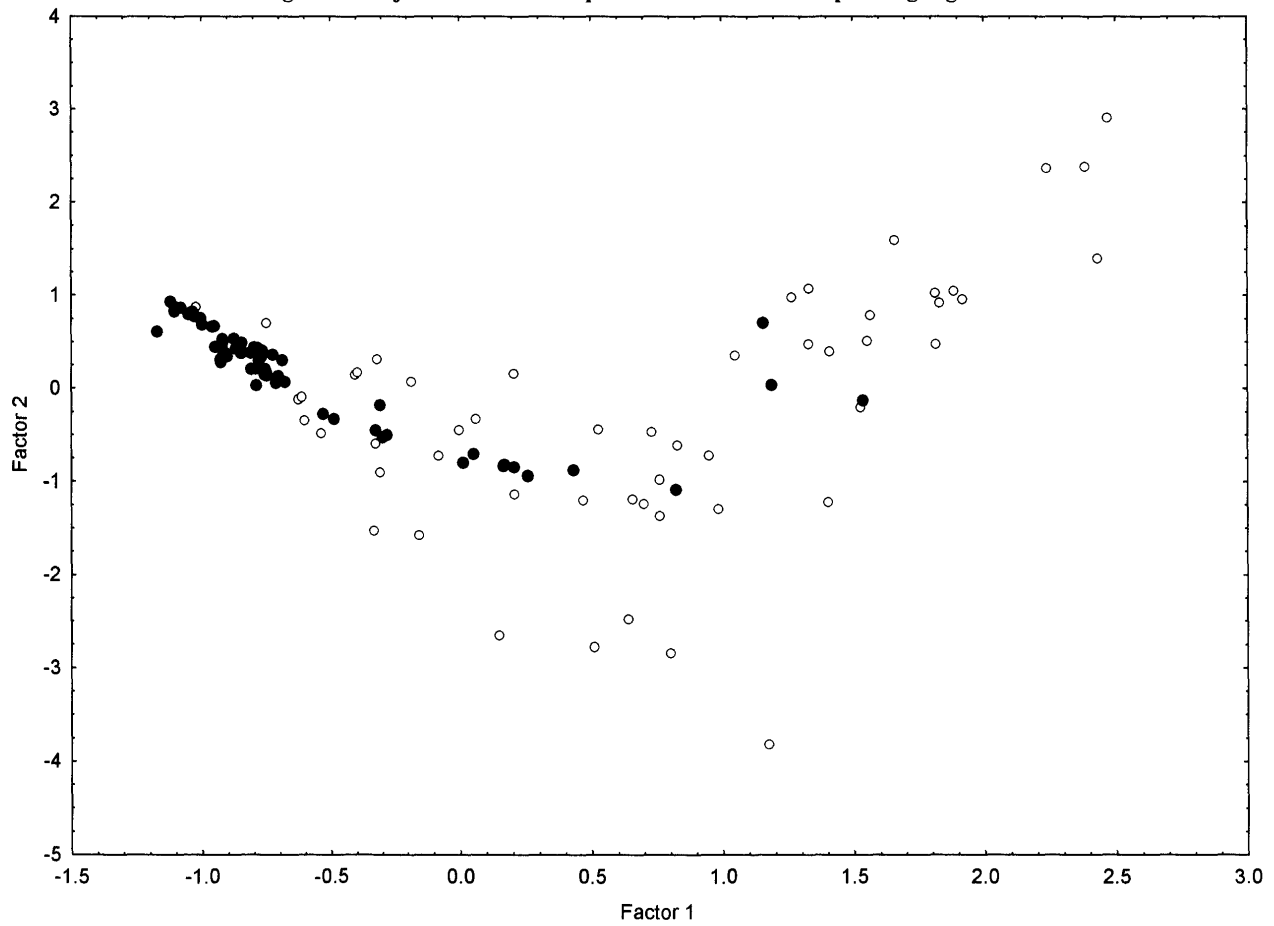
# A FIGURES

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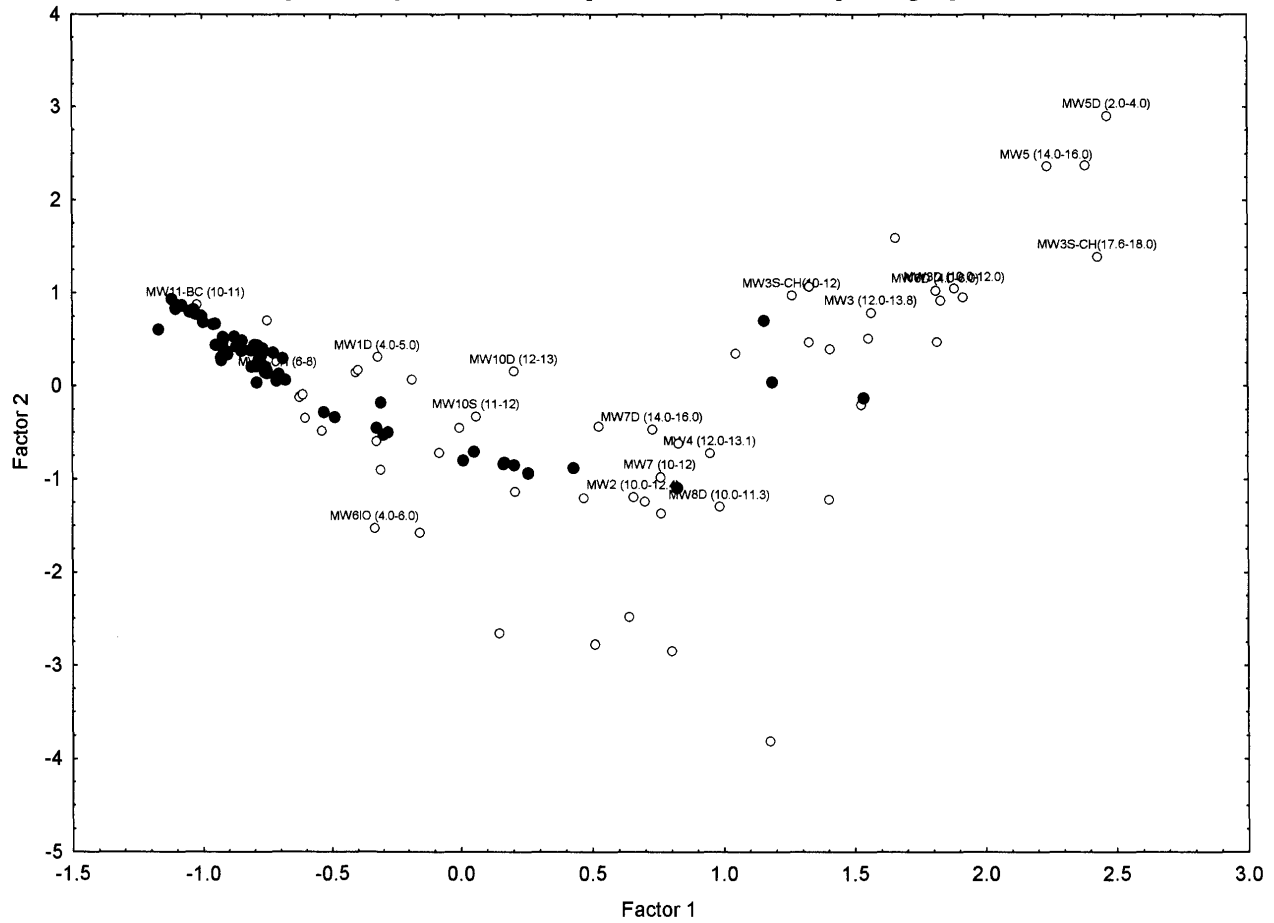
Graph in PCA

**Figure 2. Projections of all Samples with Sediment Samples Highlighted**



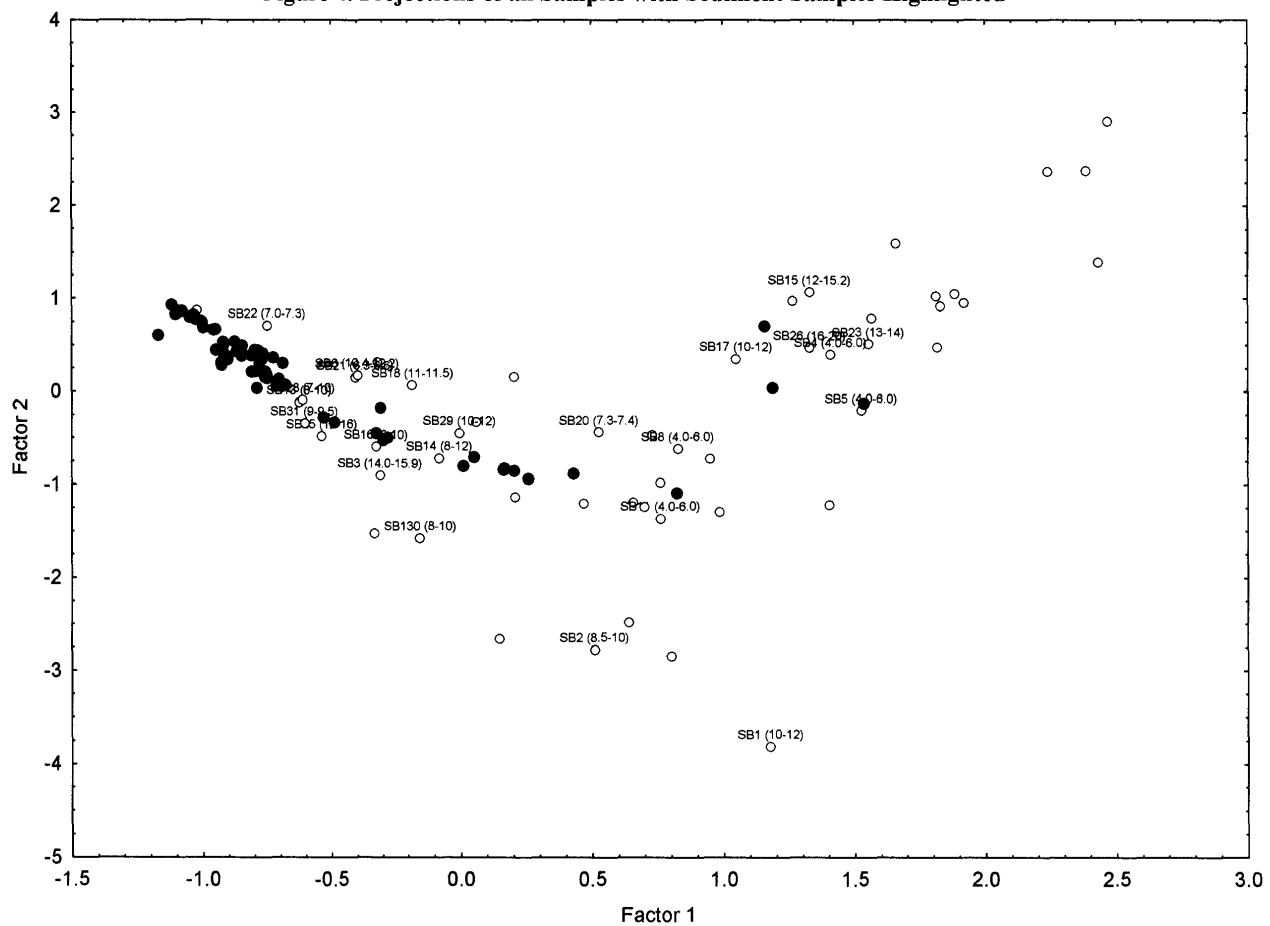
Graph in PCA

**Figure 3. Projections of all Samples with Sediment Samples Highlighted**



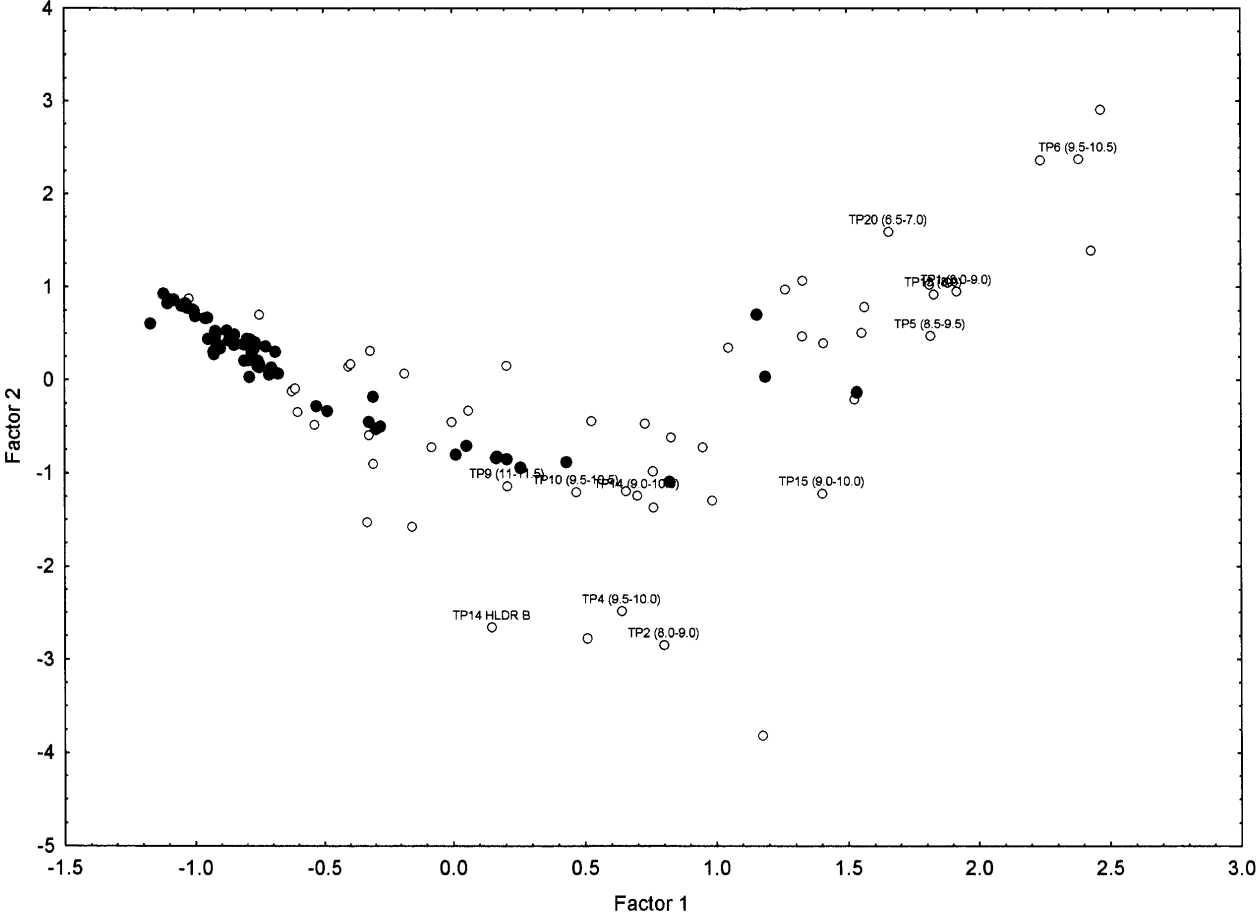
Graph in PCA

Figure 4. Projections of all Samples with Sediment Samples Highlighted



Graph in PCA

Figure 5. Projections of all Samples with Sediment Samples Highlighted



Graph in PCA

Scatter plot showing Factor 2 (Y-axis, ranging from -5 to 4) versus Factor 1 (X-axis, ranging from -1.5 to 3.0). The plot displays data points for 32 SD samples, categorized by their position relative to the Factor 1 axis. The left side of the plot (Factor 1 < 0) shows a dense cluster of points, while the right side (Factor 1 > 1.0) shows a more dispersed cluster. Several points are labeled with sample IDs and coordinates in parentheses.

Sample ID	Factor 1 (approx.)	Factor 2 (approx.)
SD16 (0.2)	-1.1	1.0
SD28 (0.2)	-1.2	0.6
SD31 (2.8-3.6)	1.2	0.7
SD3 (0.2-1.6)	1.1	0.0
SD12 (4.4-4.7)	1.5	-0.2
SD11 (0.5-2.0)	-0.4	-0.1
SD4 (0.5)	0.0	-0.8
SD32 (0.2)	0.1	-0.5
SD6 (2.1-2.3)	0.8	-1.1
SD5 (0.2-3.0)	0.3	-0.9
SD7 (6.4-6.9)	0.5	-0.9
SD8 (0.5-0.7)	0.2	-0.9
SD9 (0.5-0.7)	0.2	-0.9
SD10 (0.5-0.7)	0.2	-0.9
SD13 (0.5-0.7)	0.2	-0.9
SD14 (0.5-0.7)	0.2	-0.9
SD15 (0.5-0.7)	0.2	-0.9
SD17 (0.5-0.7)	0.2	-0.9
SD18 (0.5-0.7)	0.2	-0.9
SD19 (0.5-0.7)	0.2	-0.9
SD20 (0.5-0.7)	0.2	-0.9
SD21 (0.5-0.7)	0.2	-0.9
SD22 (0.5-0.7)	0.2	-0.9
SD23 (0.5-0.7)	0.2	-0.9
SD24 (0.5-0.7)	0.2	-0.9
SD25 (0.5-0.7)	0.2	-0.9
SD26 (0.5-0.7)	0.2	-0.9
SD27 (0.5-0.7)	0.2	-0.9

### Graph in PCA

Figure 7. 3D Projections of all Data with all Sediment Samples Highlighted

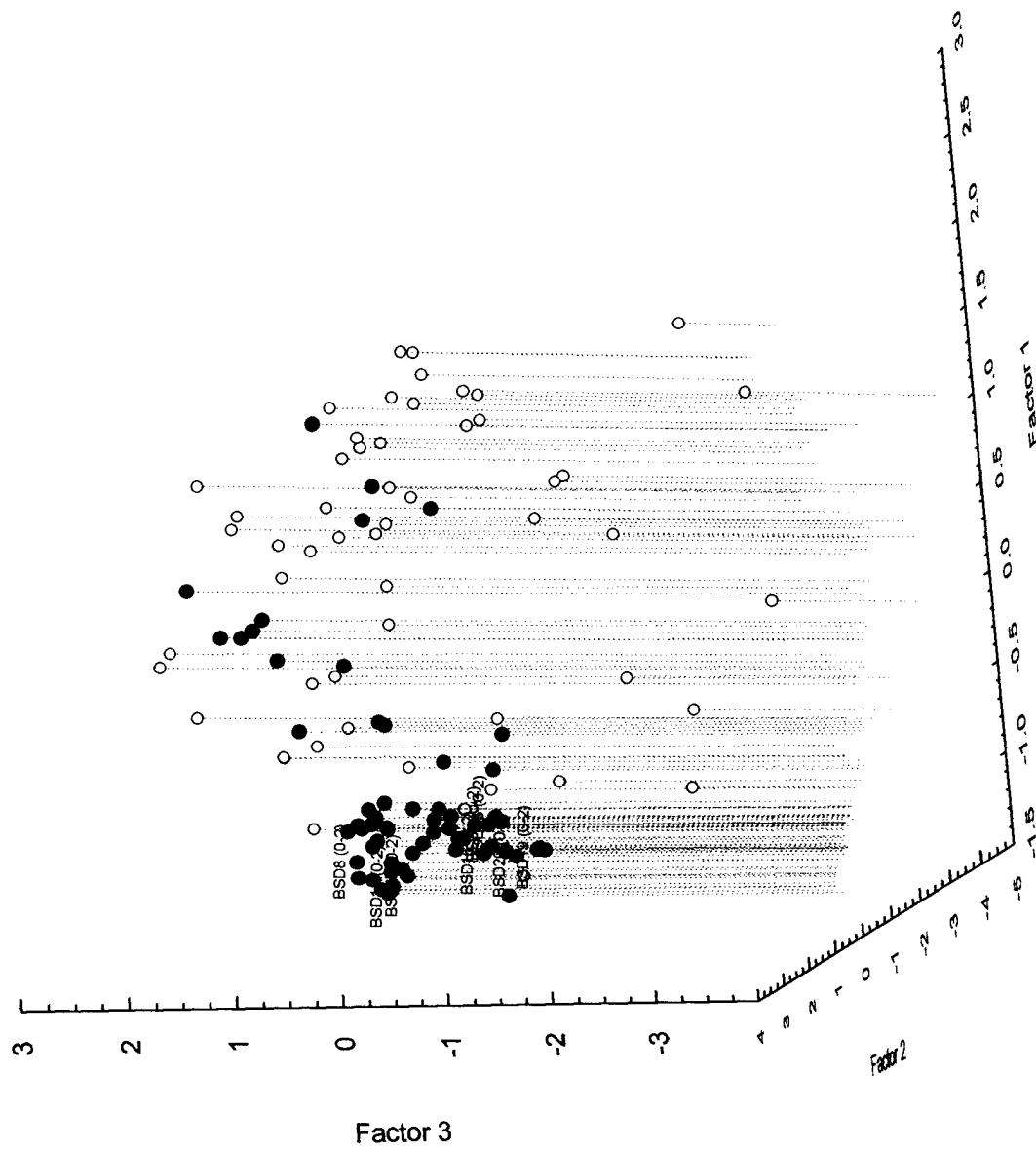




Figure 8. 3D Projections of all Data with all Sediment Samples Highlighted

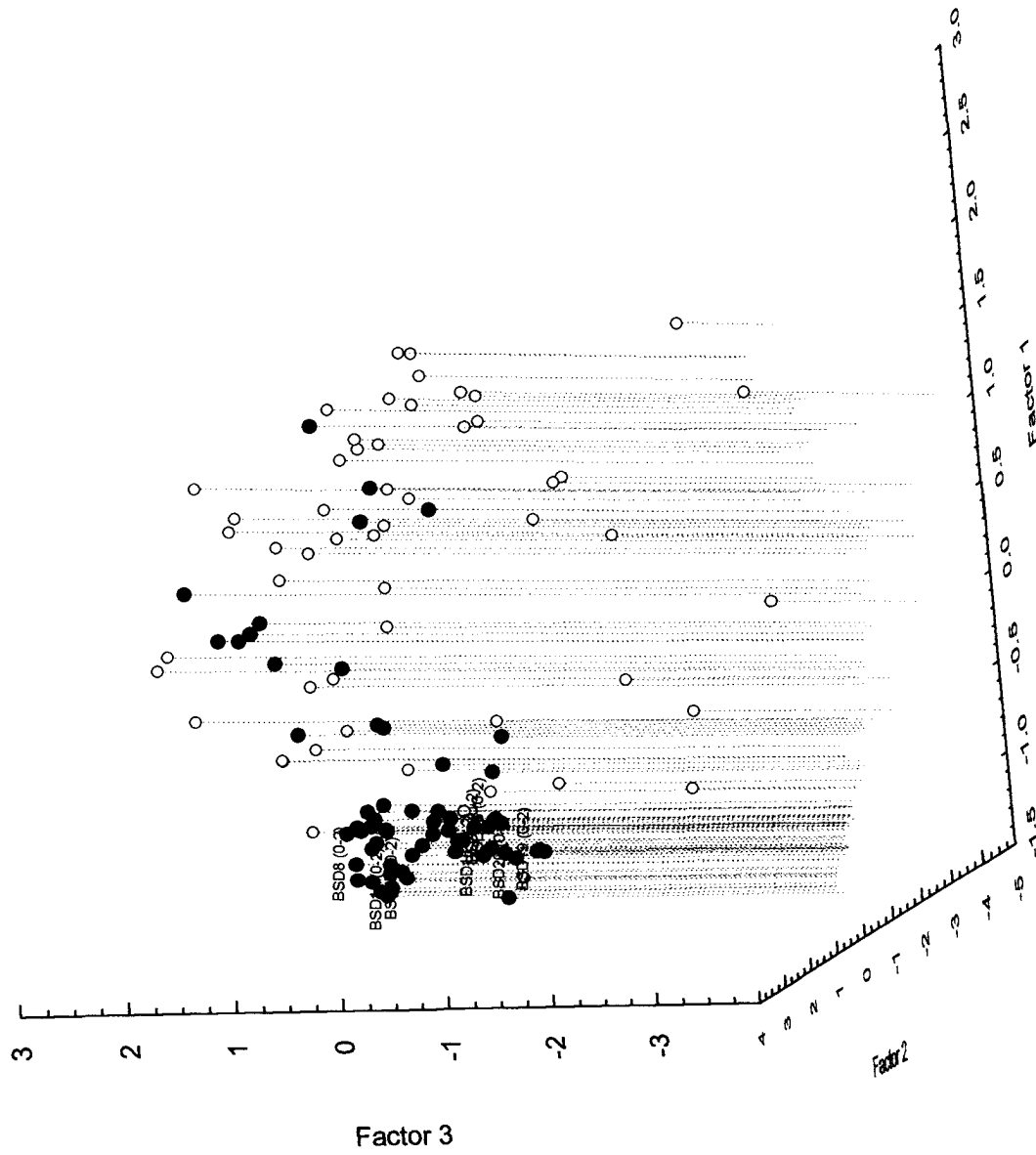


Figure 9. 3D Projections of all Data with all Sediment Samples Highlighted

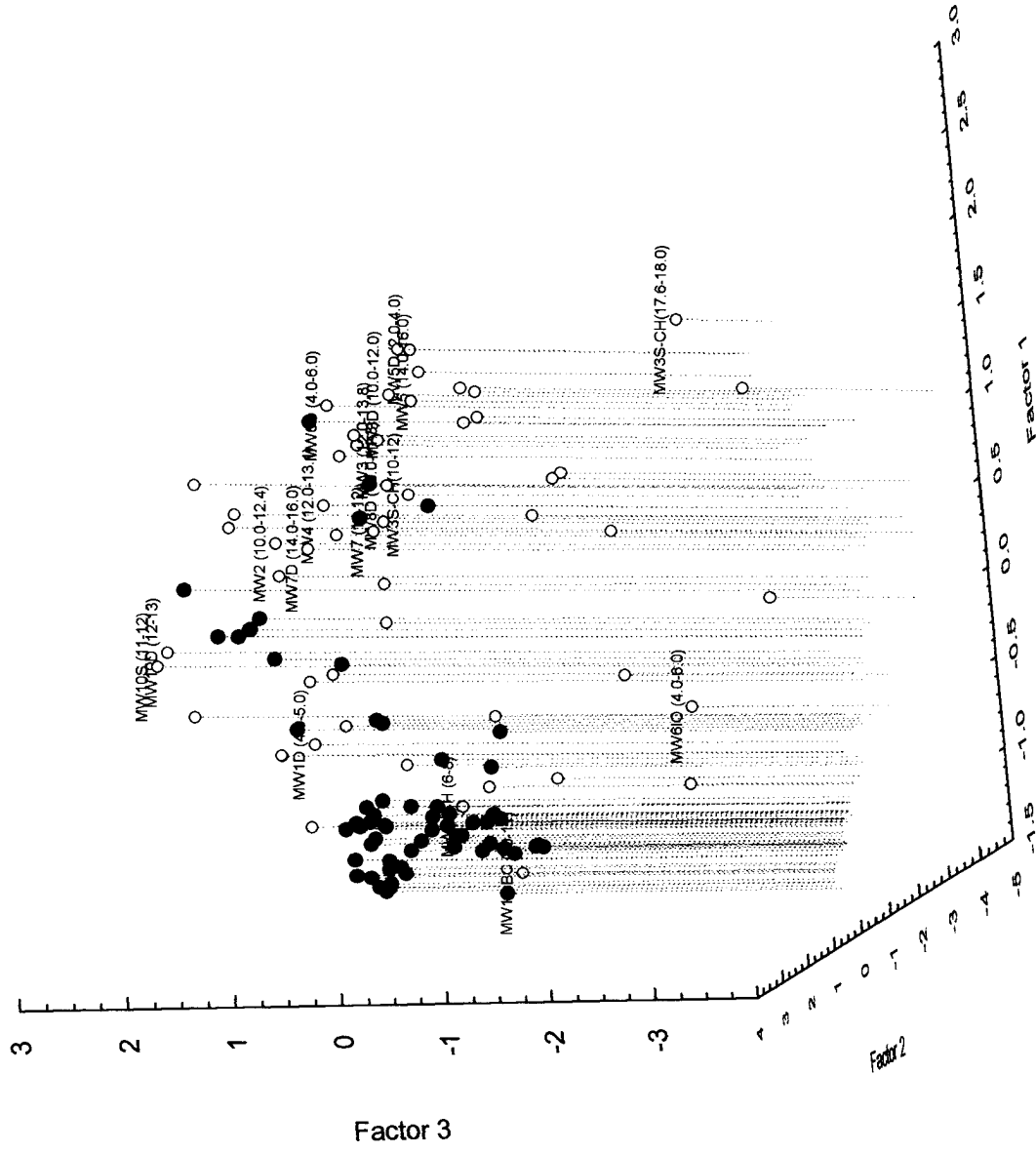


Figure 10. 3D Projections of all Data with all Sediment Samples Highlighted

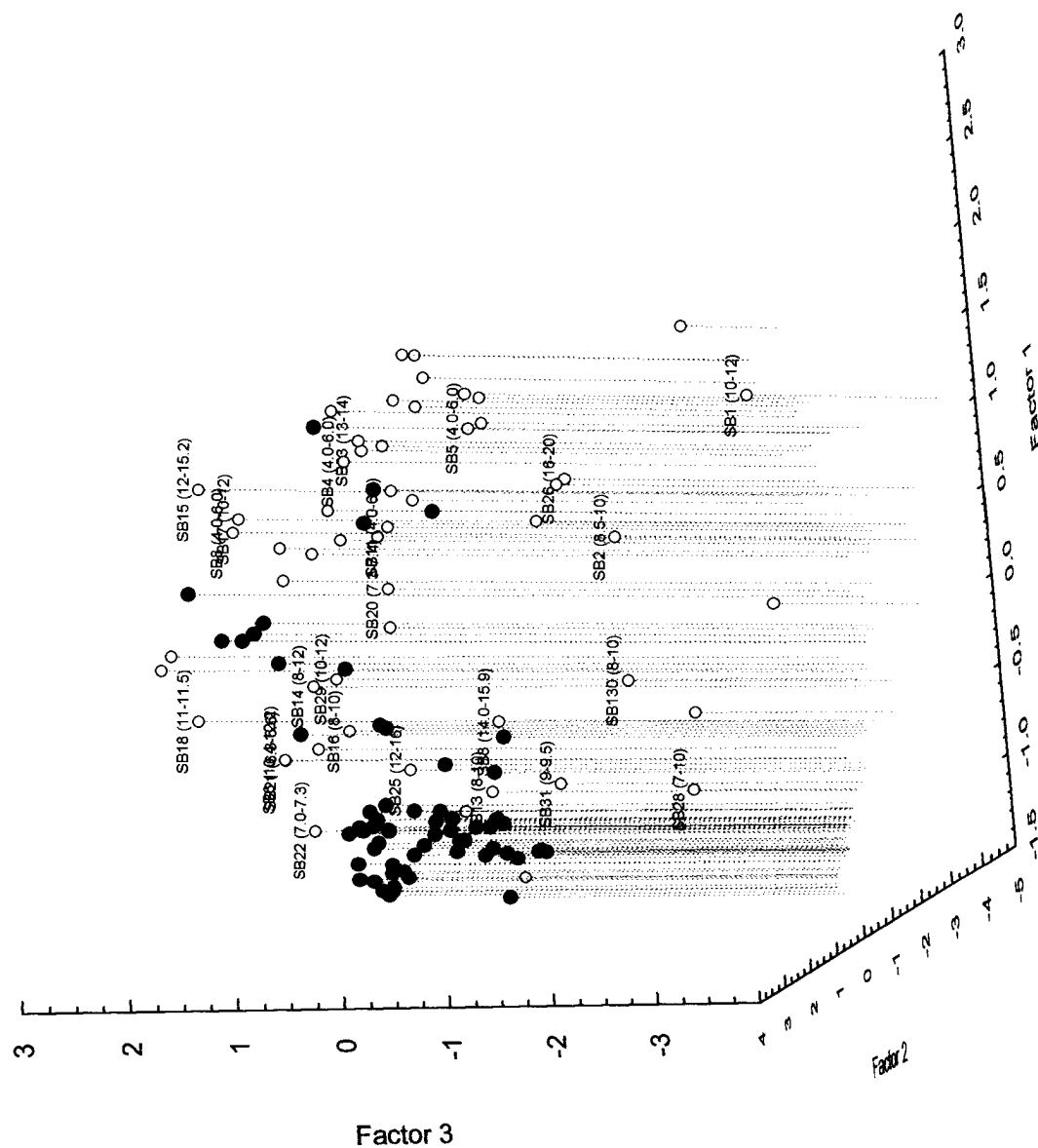


Figure 11. 3D Projections of all Data with all Sediment Samples Highlighted

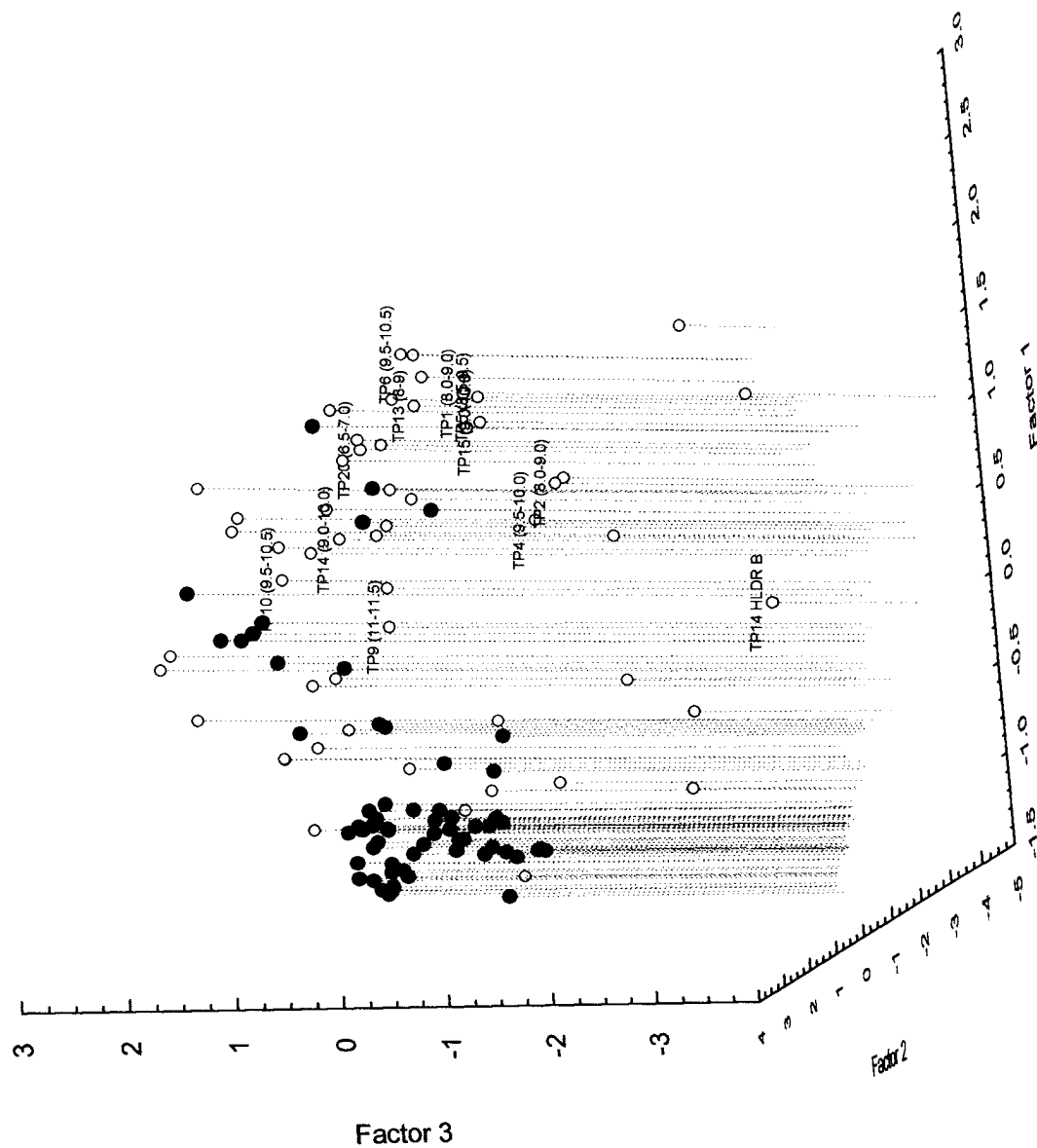
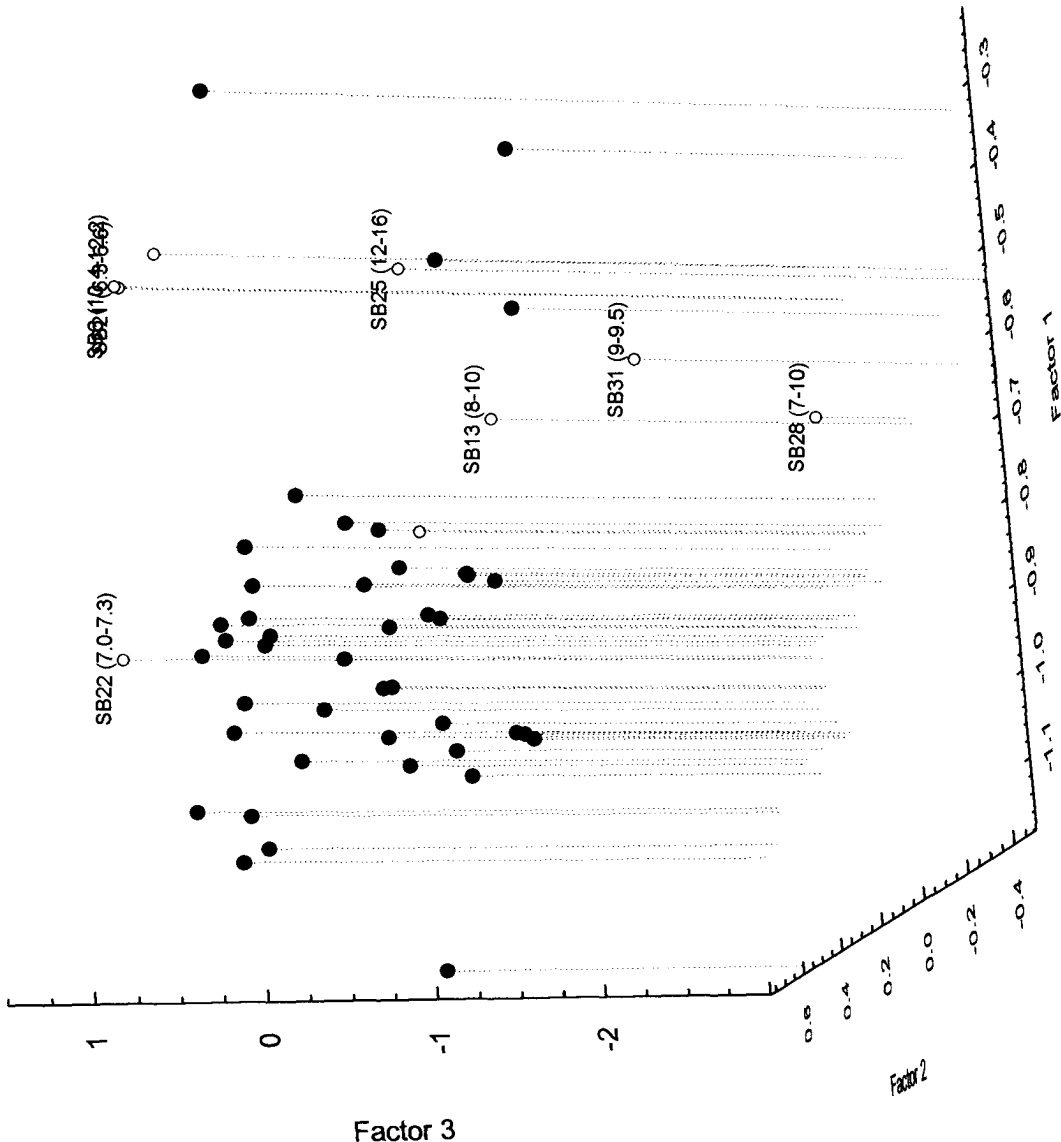
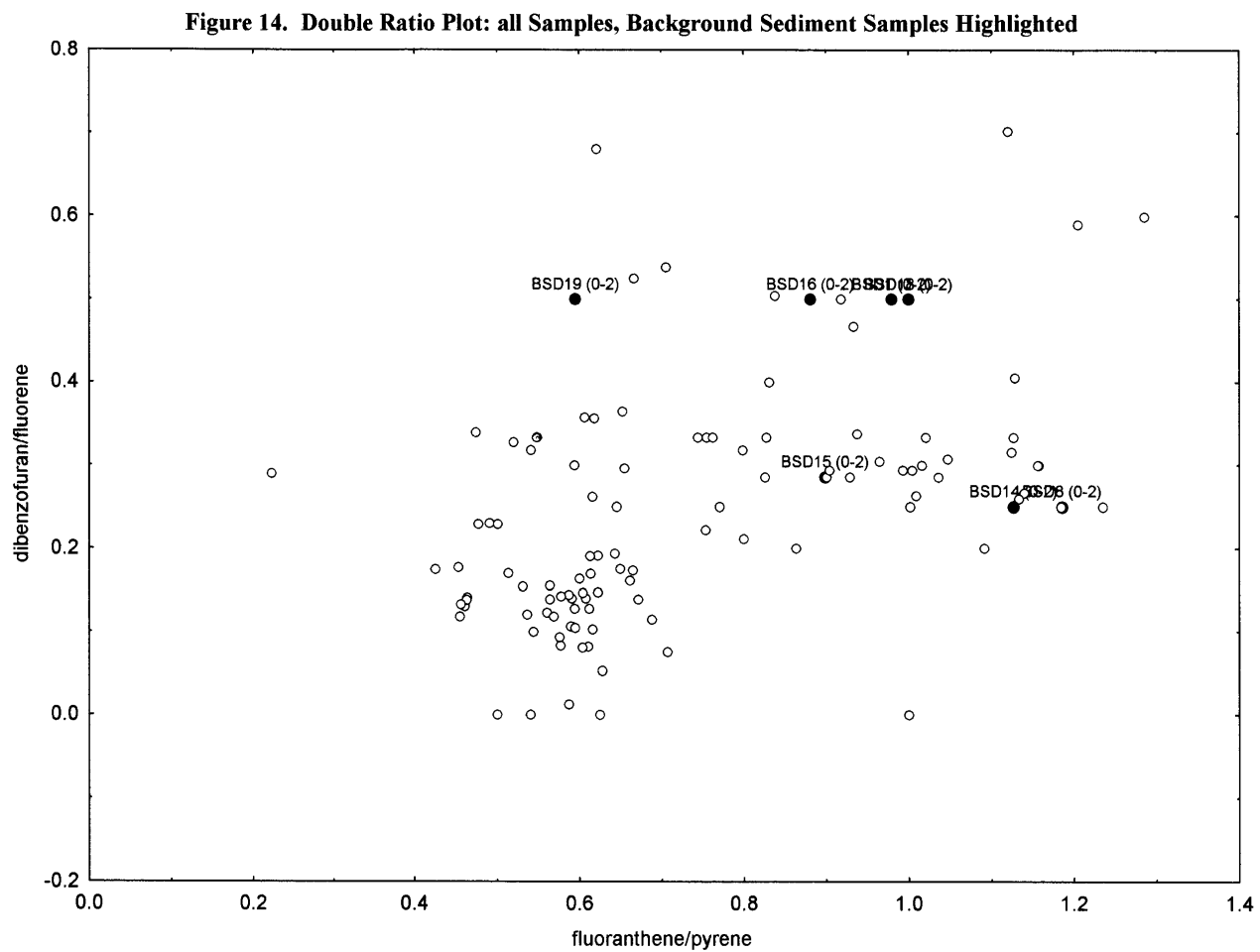




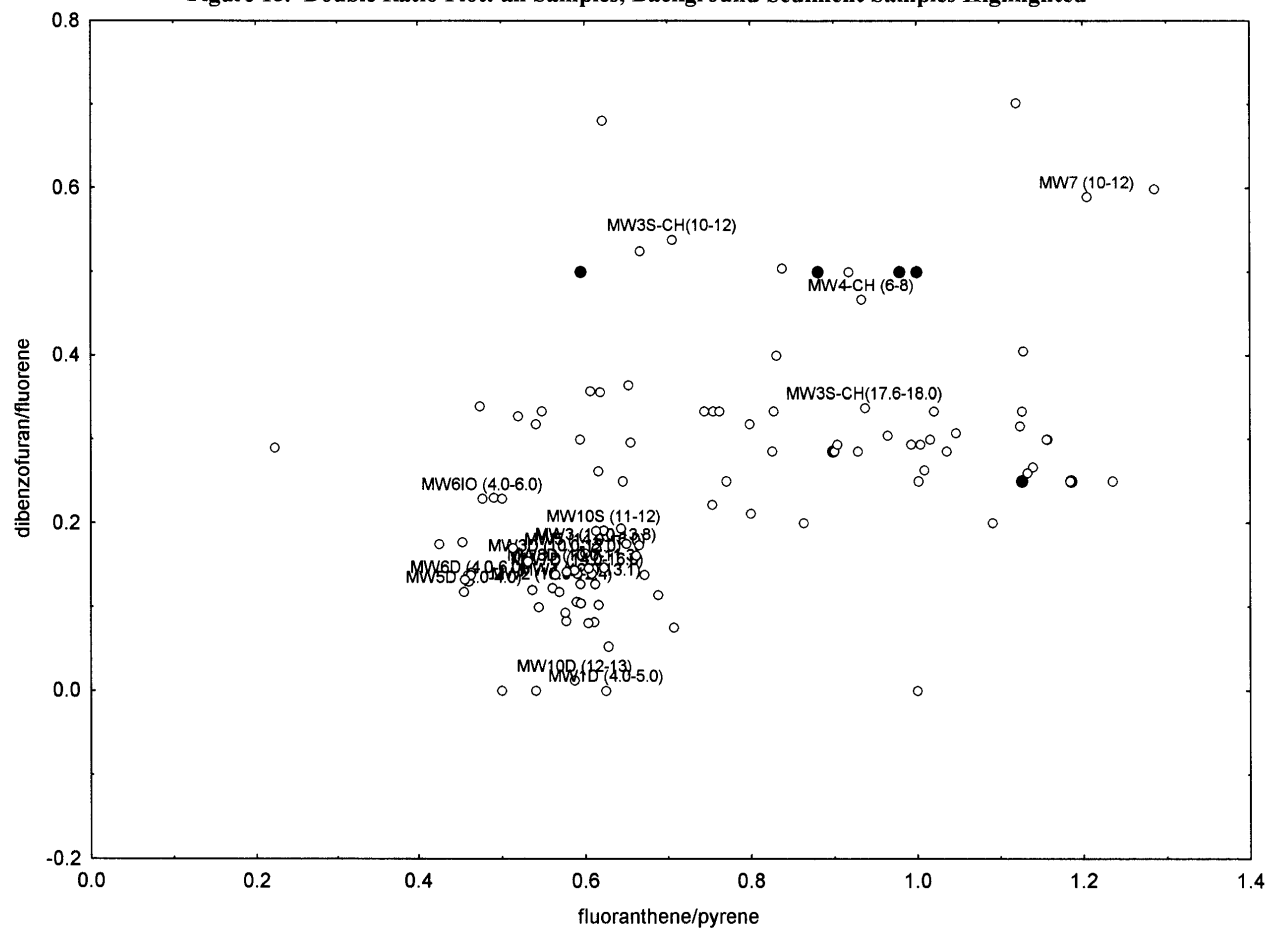
Figure 13. 3D Projections of Selected Data with Sediment Samples Highlighted





Graph in ratios - new

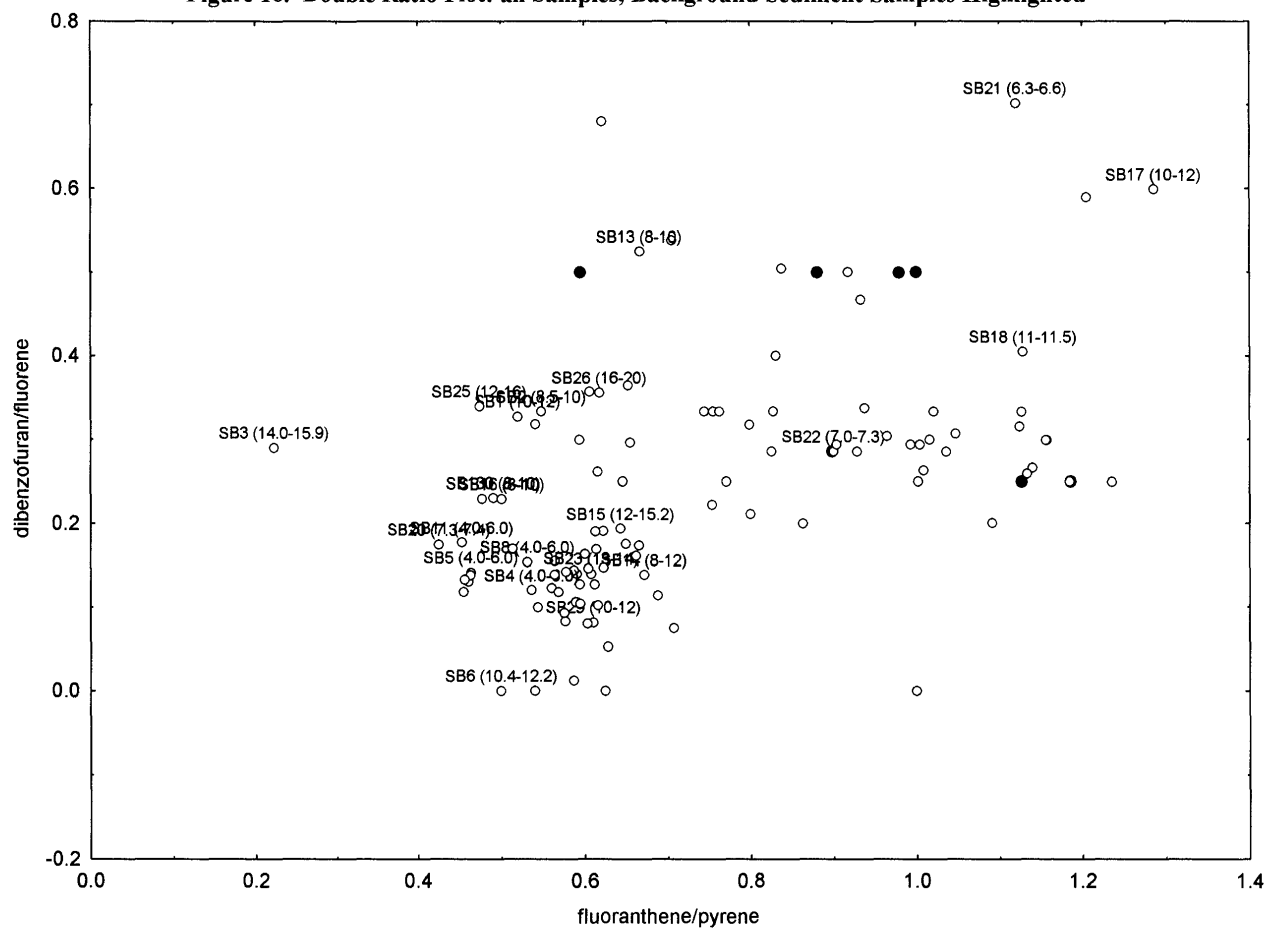
**Figure 15. Double Ratio Plot: all Samples, Background Sediment Samples Highlighted**



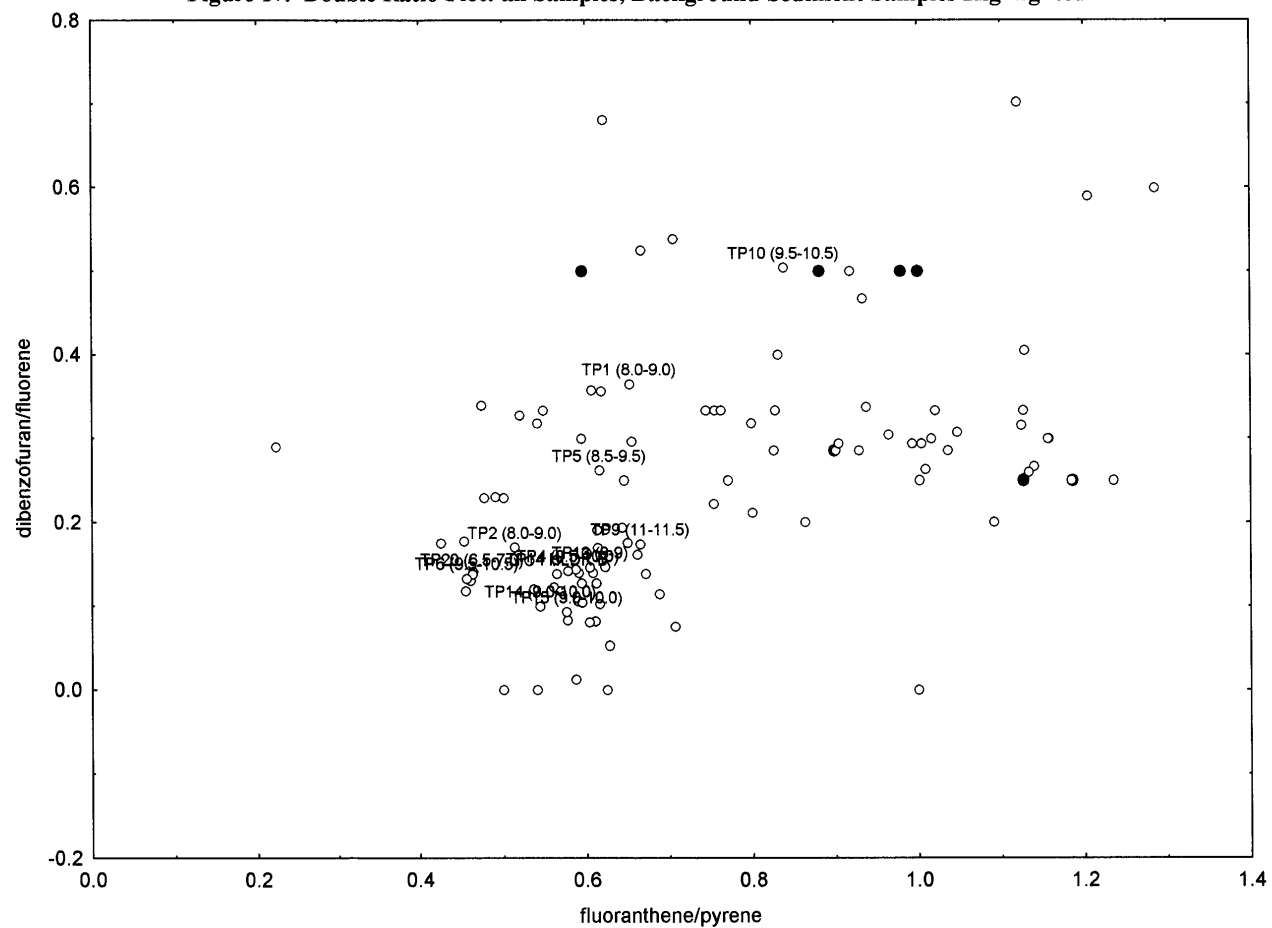
Graph in ratios - new



**Figure 16. Double Ratio Plot: all Samples, Background Sediment Samples Highlighted**



**Figure 17. Double Ratio Plot: all Samples, Background Sediment Samples Highlighted**



Graph in ratios - new

fluoranthene/pyrene

benzo[a]pyrene/fluoranthene

SD15 (0-2)

SD22 (0-2)

SD3 (0.0-0.2)

SD28 (0-2)

SD17 (0.0-0.2)

SD11 (0.0-0.2)

SD29 (0-2)

SD25 (0.2-0.4)

SD16 (0-2)

SD7 (0.0-0.2)

SD21 (0.0-0.2)

SD2 (0.0-0.2)

SD10 (0.0-0.4)

SD23 (0-2)

SD18 (0-2)

SD21 (0-2)

SD1 (0.4-1.4)

SD17 (0-2)

SD8 (0.0-0.2)

SD10 (0.2-2.0)

SD30 (0-2)

SD27 (0-2)

SD11 (0.5-2.0)

SD1 (0.2-2.2)

SD1 (0.4-1.4)

SD4 (0.4-1.4)

SD22 (0.2-2.3)

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SD220 (0.2-2.3)

SD221 (0.2-2.3)

SD222 (0.2-2.3)

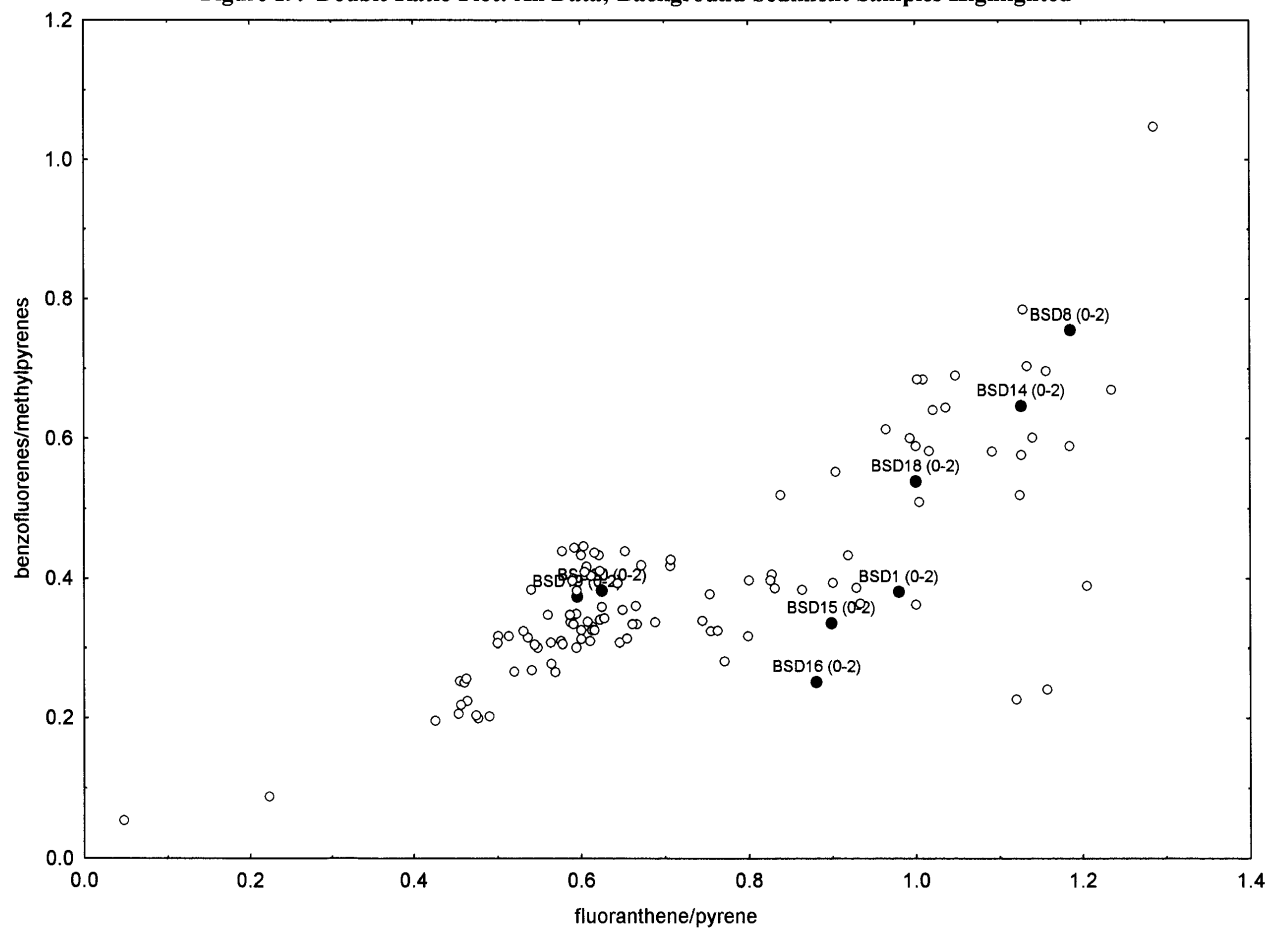
SD223 (0.2-2.3)

SD224 (0.2-2.3)

SD225 (

Graph in ratios - new

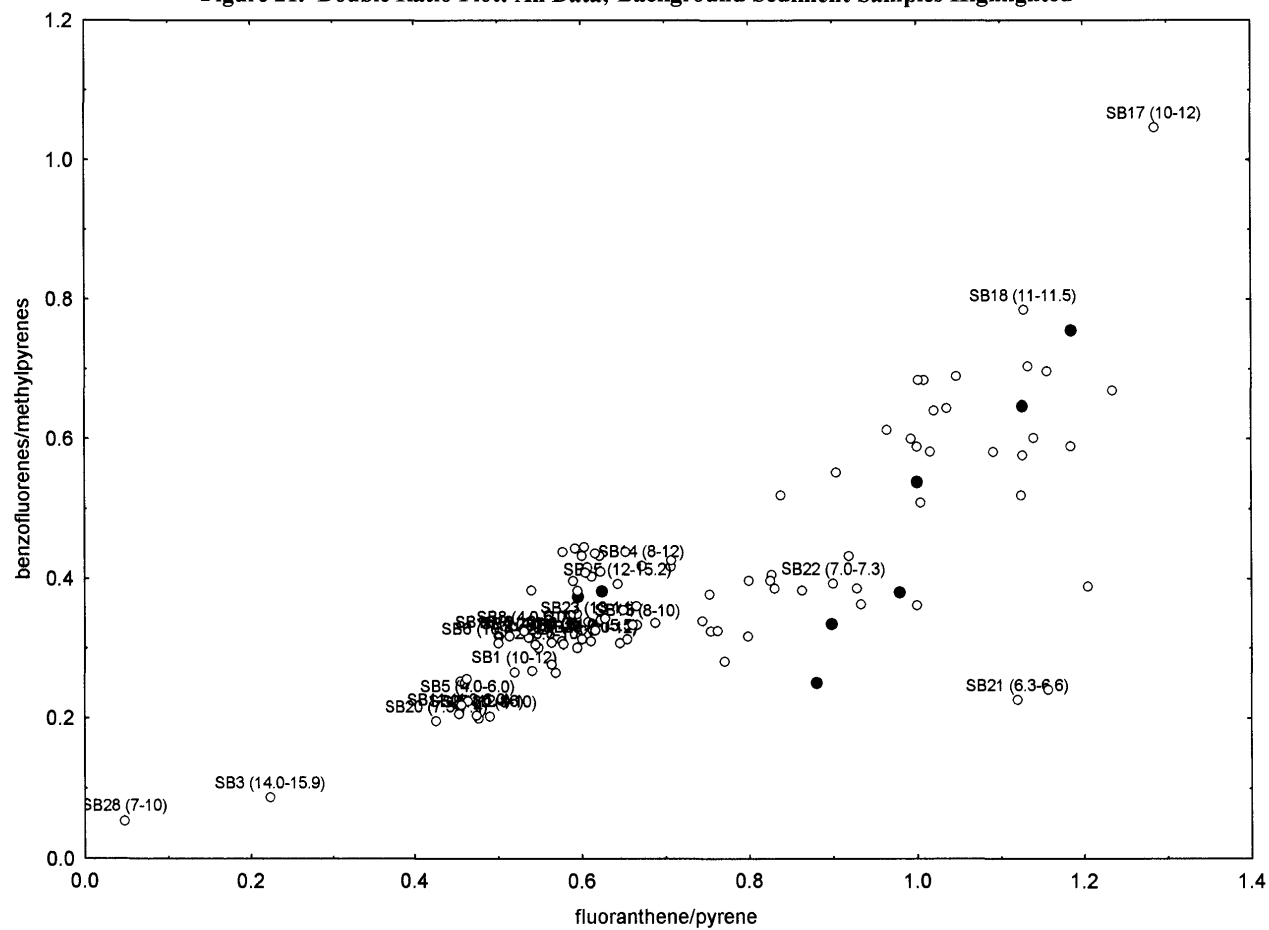
**Figure 19. Double Ratio Plot: All Data; Background Sediment Samples Highlighted**



Graph in benzofluorenes

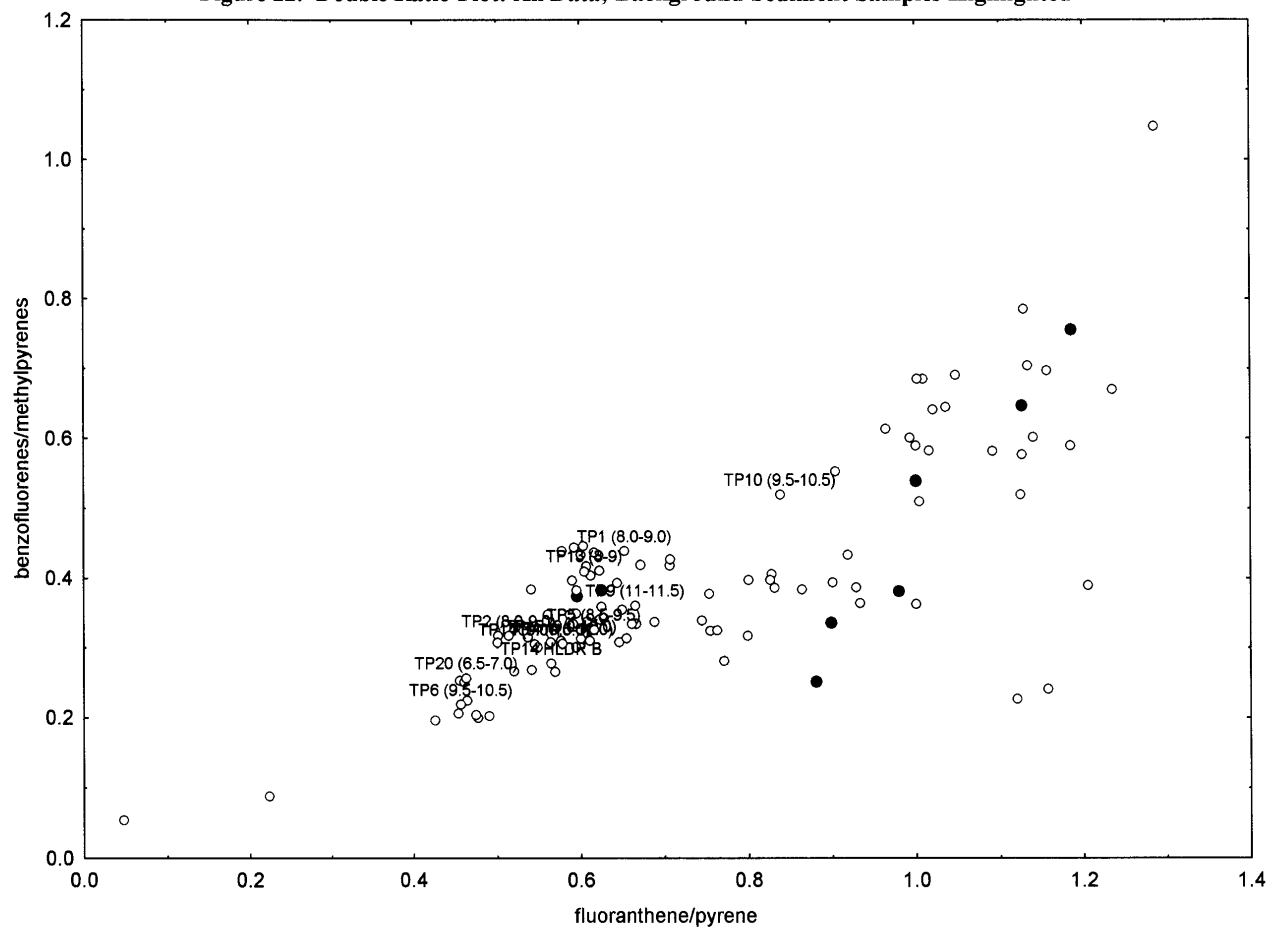
Graph in benzo[fluorenes]

Figure 21. Double Ratio Plot: All Data; Background Sediment Samples Highlighted



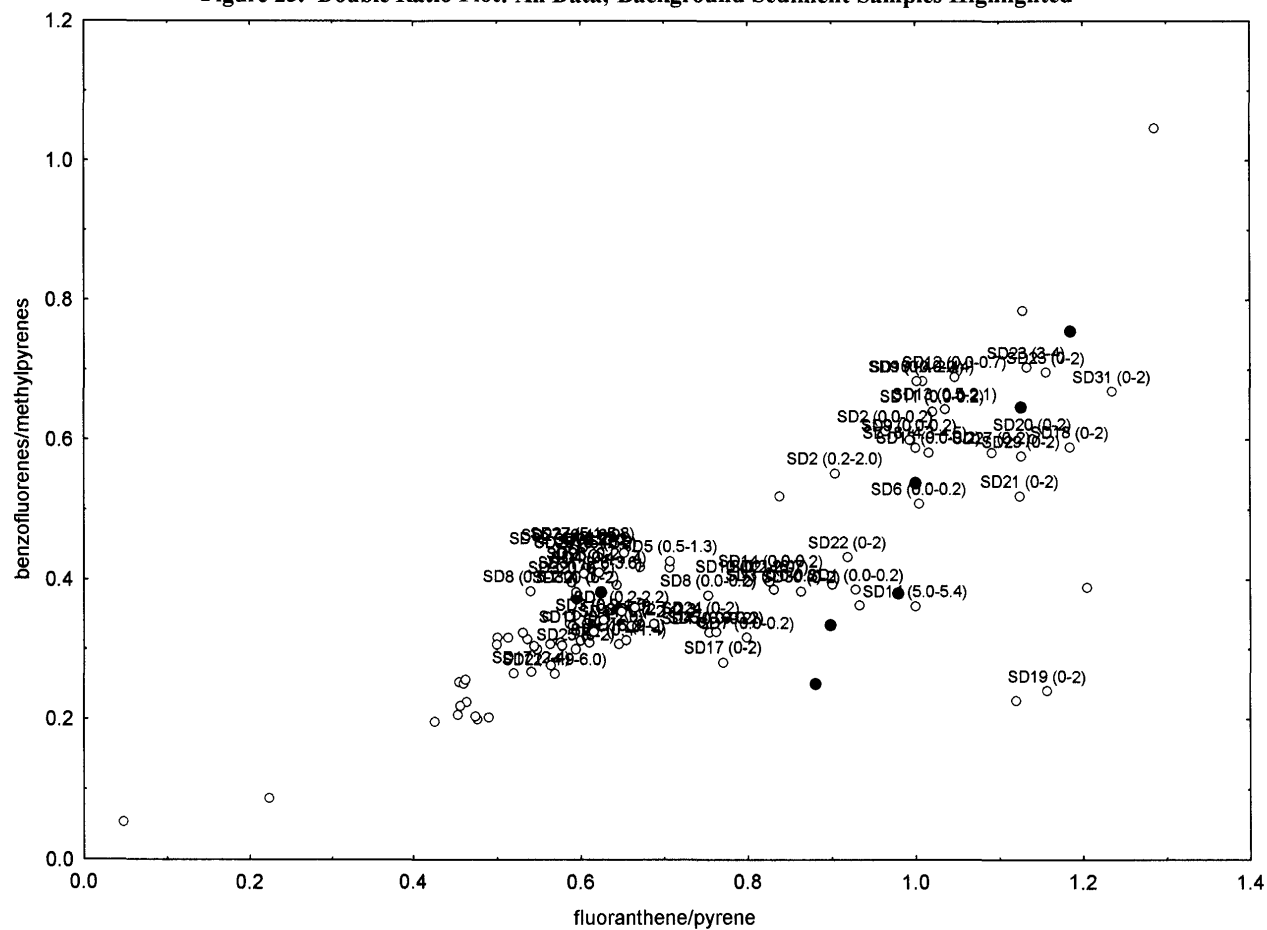
Graph in benzofluorenes

**Figure 22. Double Ratio Plot: All Data; Background Sediment Samples Highlighted**



Graph in benzofluorenes

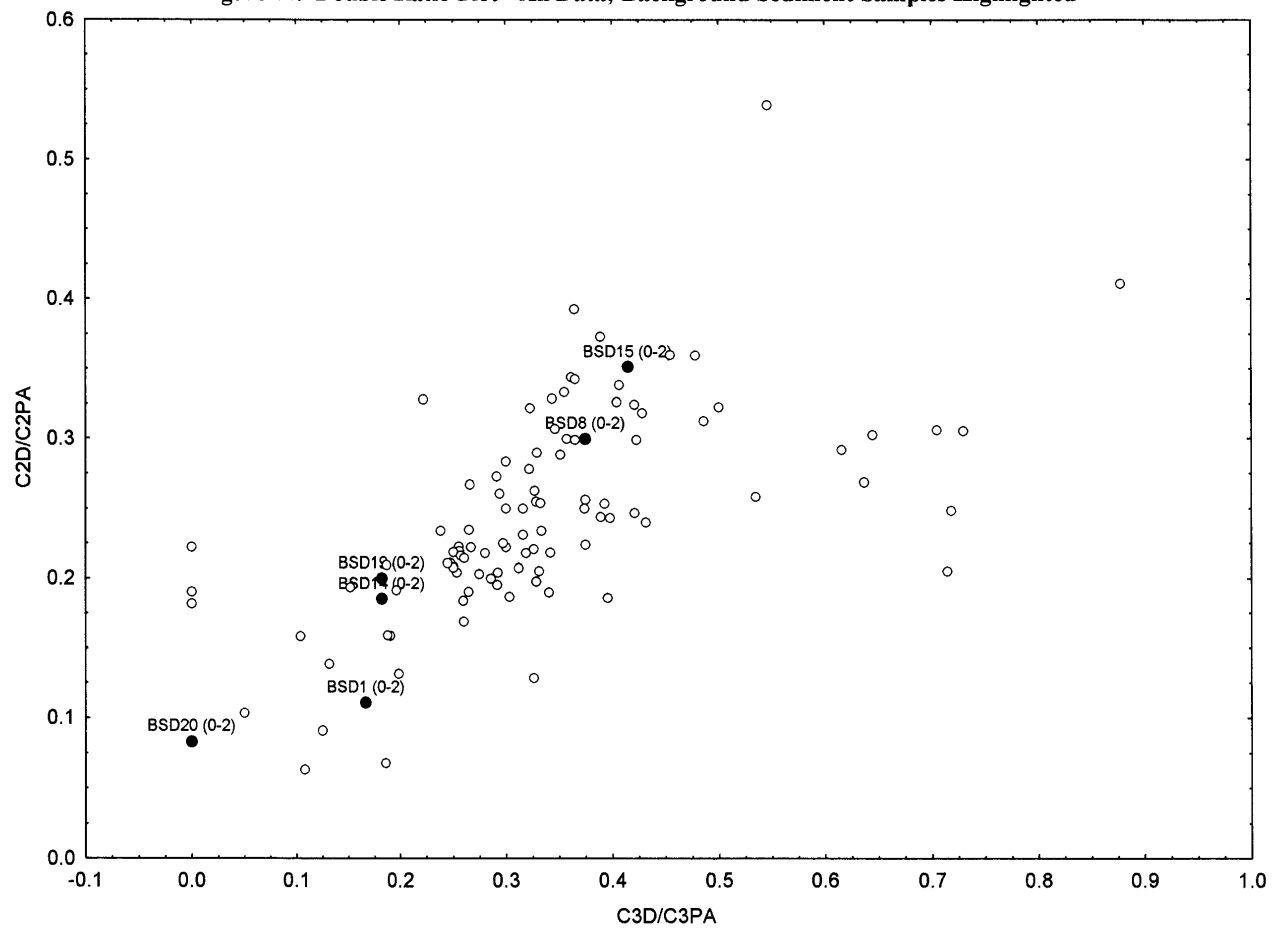
**Figure 23. Double Ratio Plot: All Data; Background Sediment Samples Highlighted**



Graph in benzofluorenes

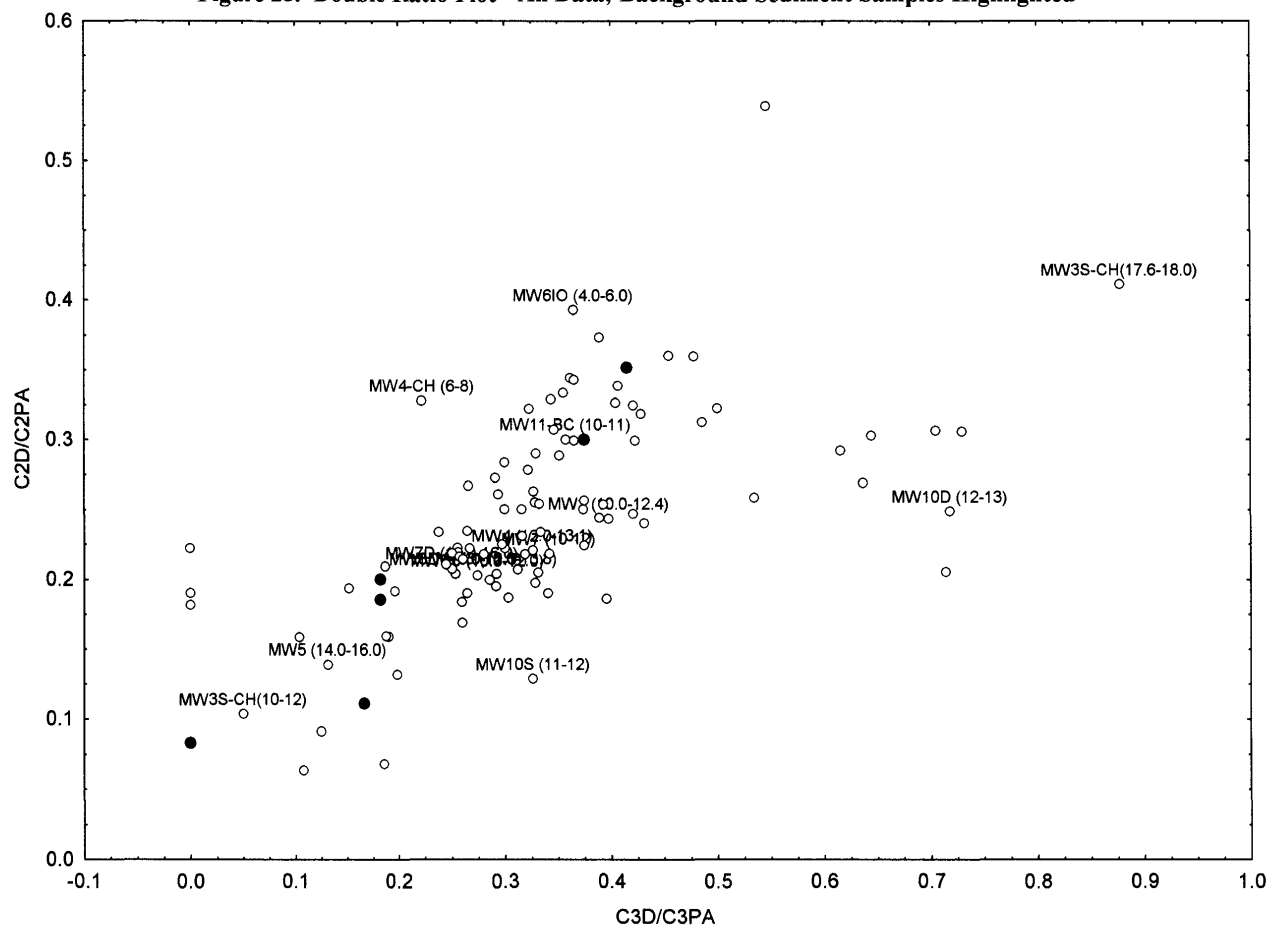


**Figure 24. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



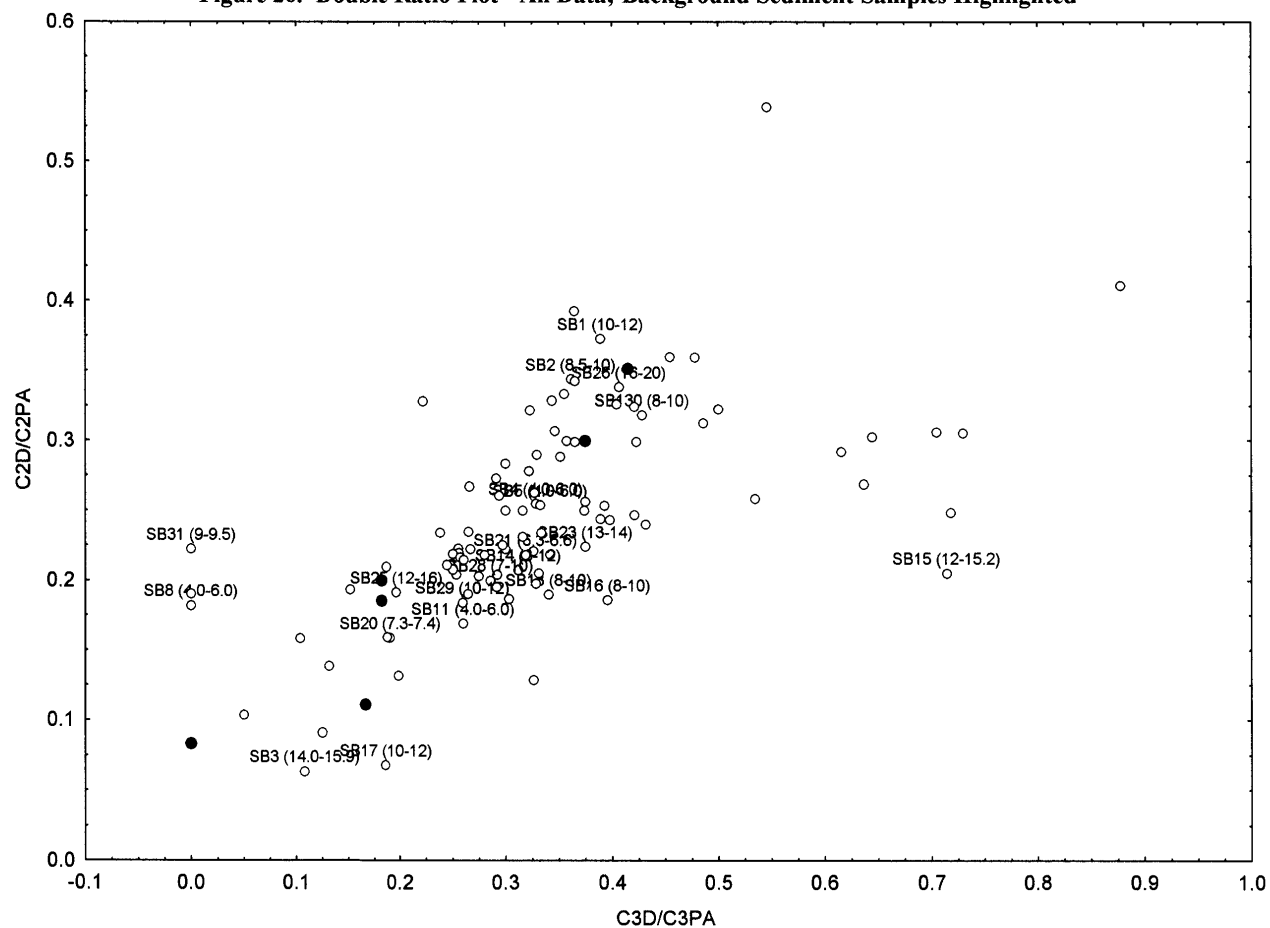
Graph in C3D-C3P

**Figure 25. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



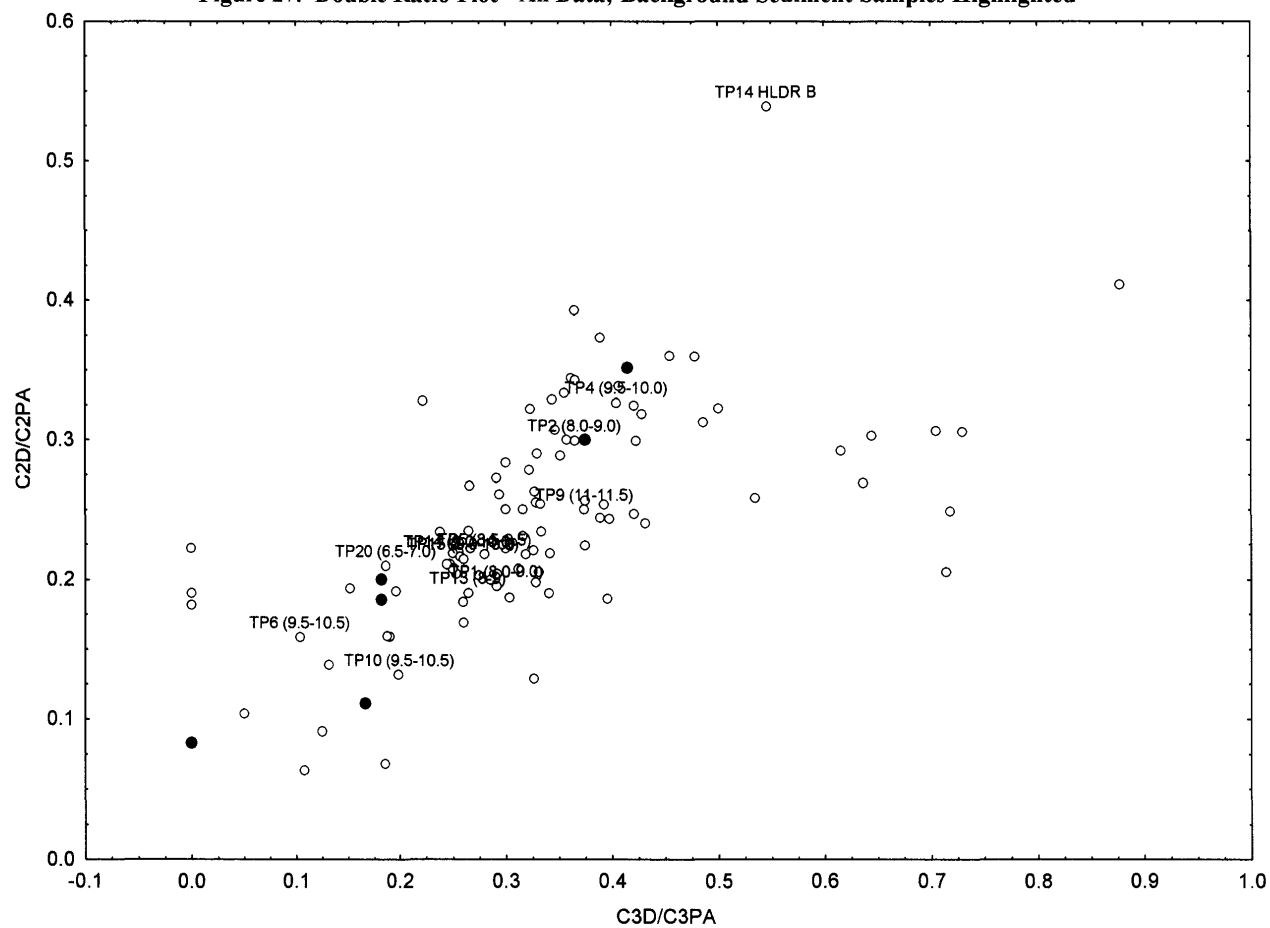
Graph in C3D-C3P

**Figure 26. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



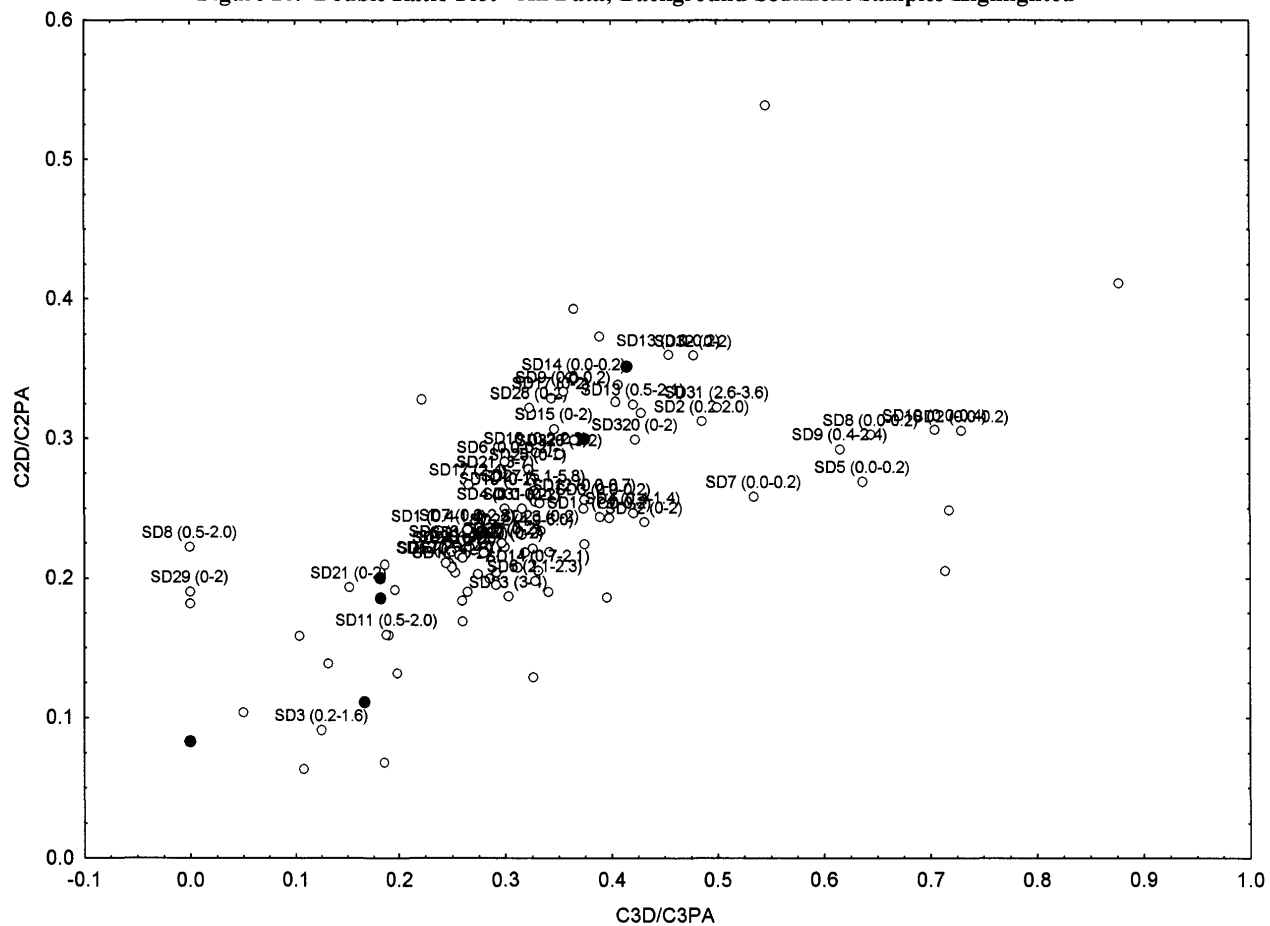
Graph in C3D-C3P

**Figure 27. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



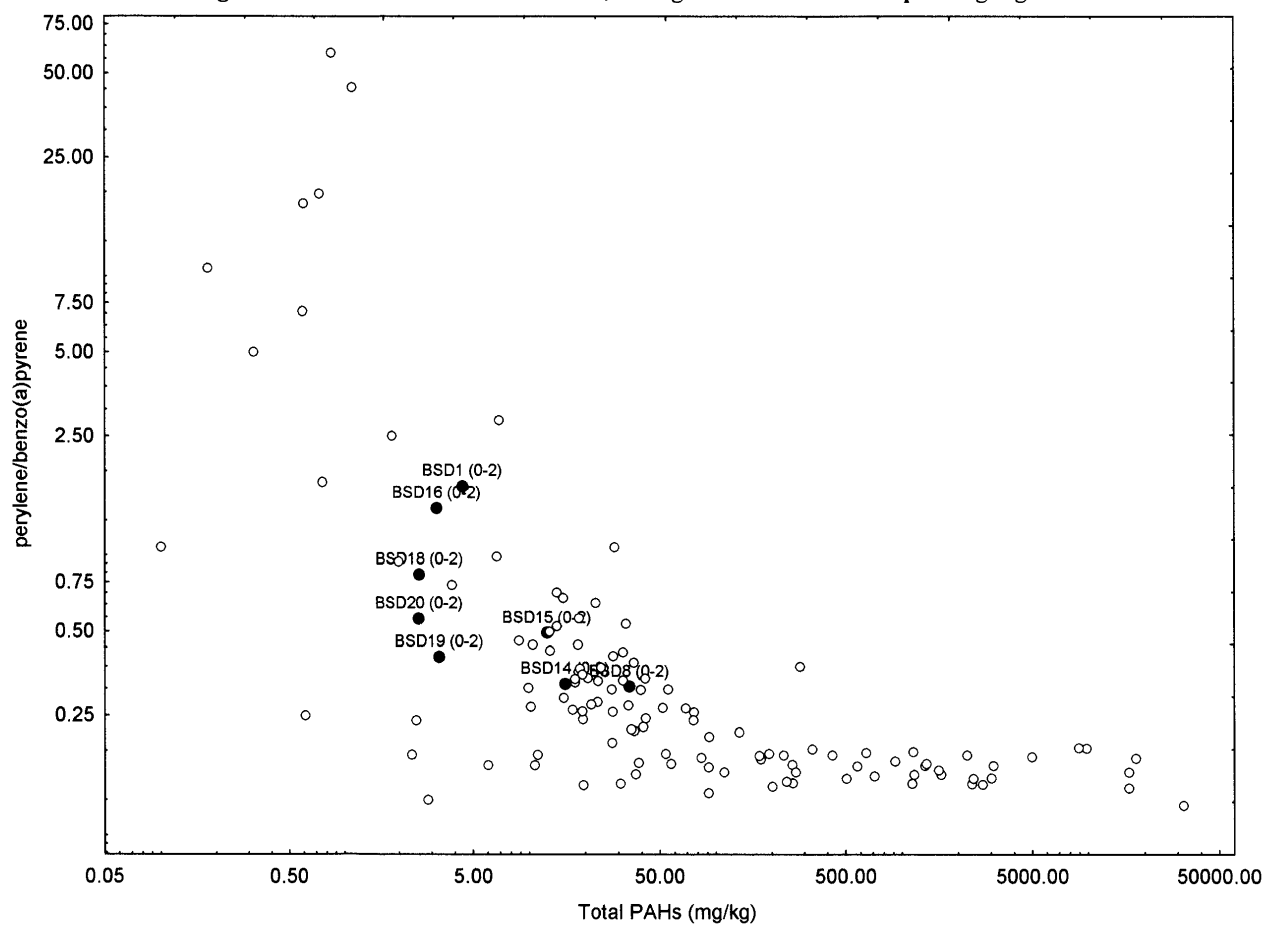
Graph in C3D-C3P

**Figure 28. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



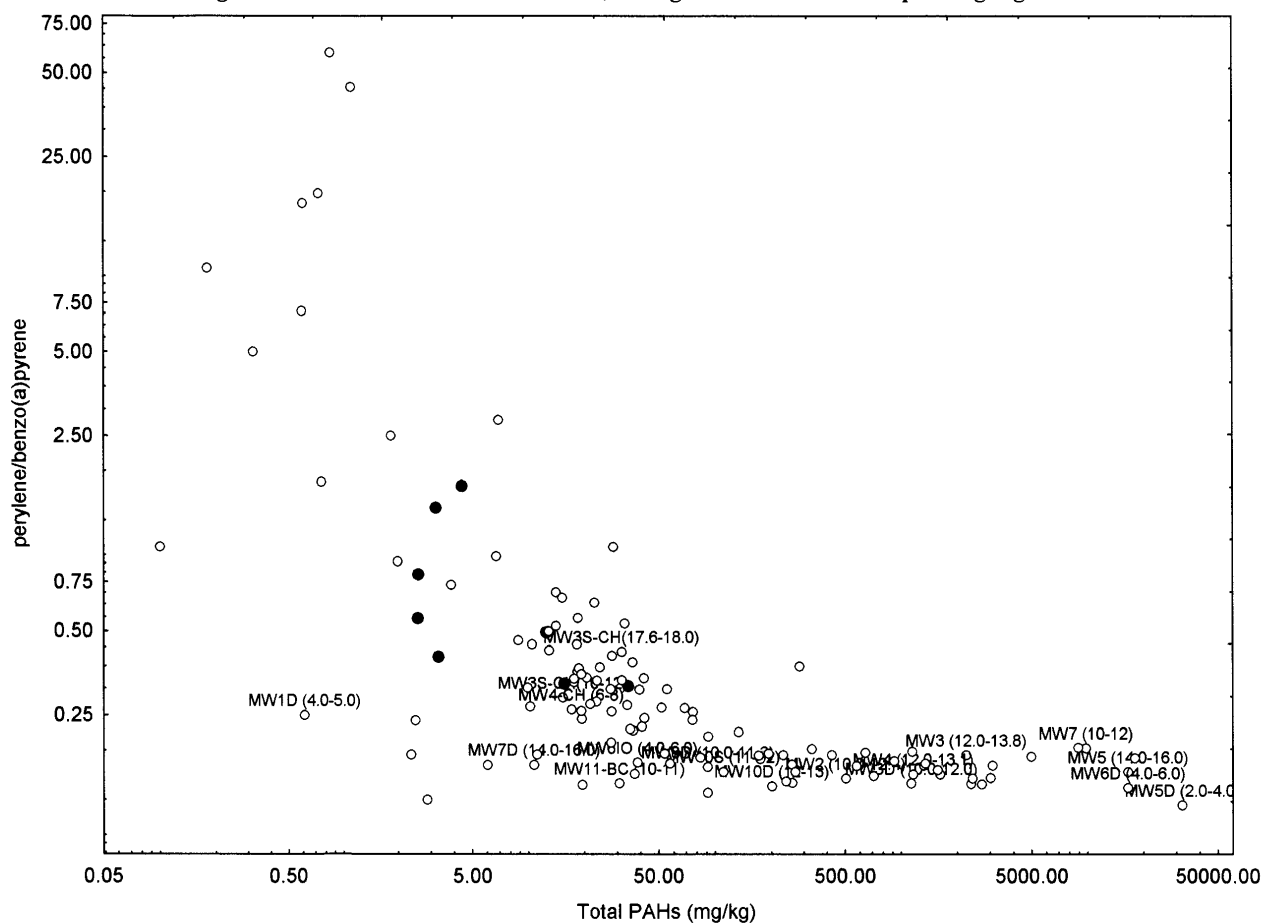
Graph in C3D-C3P

**Figure 29. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



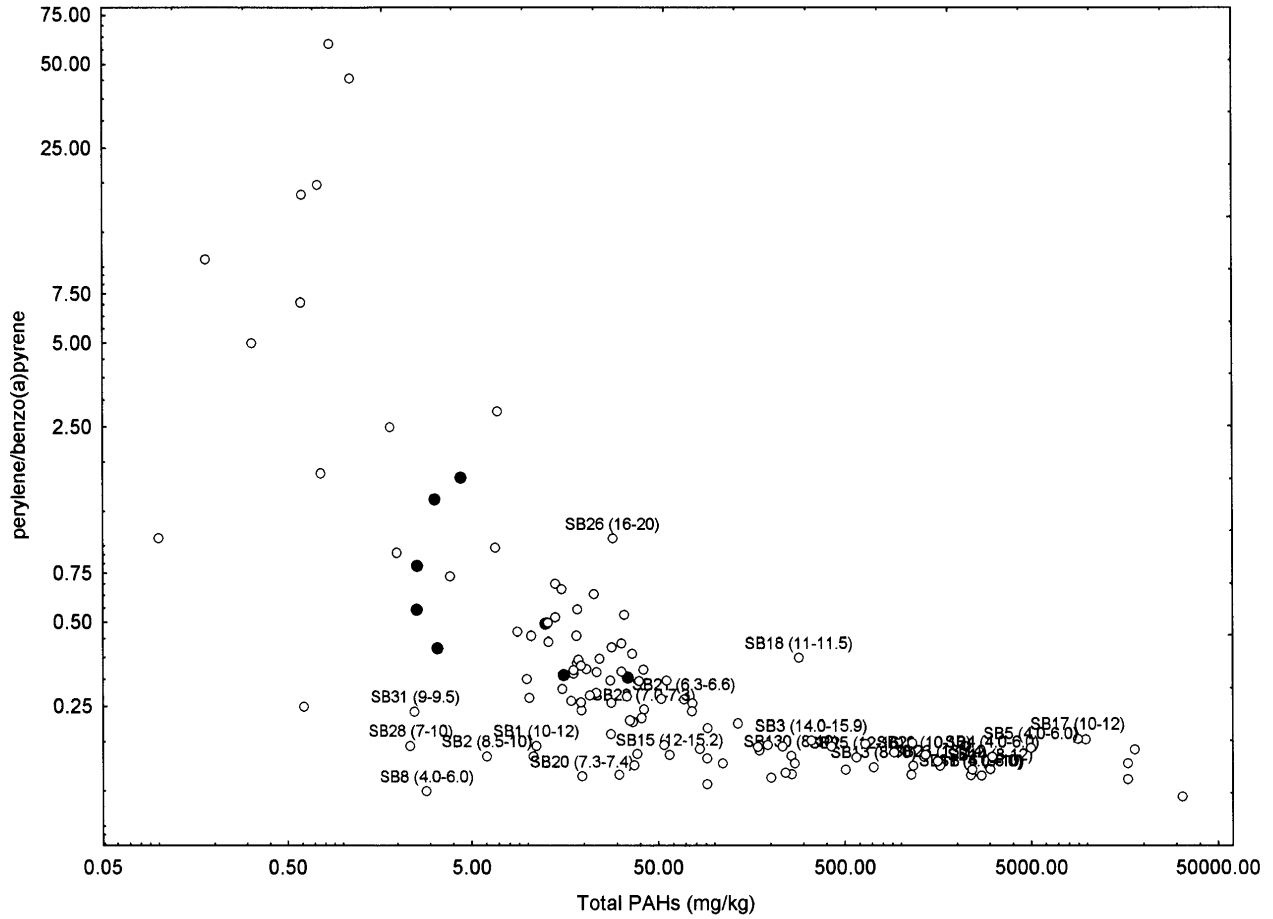
Graph in perylene-tPAH

**Figure 30. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



Graph in perylene-tPAH

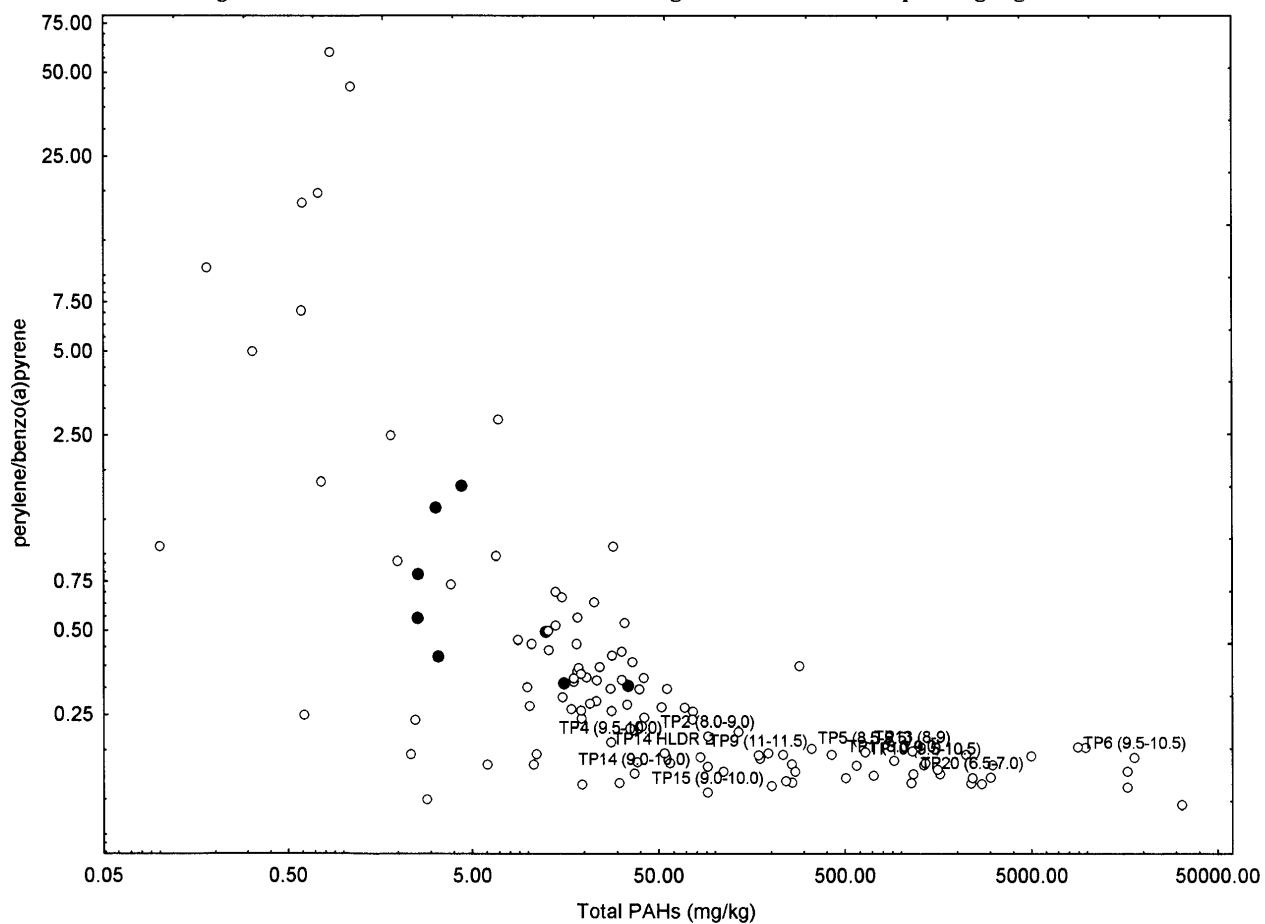
**Figure 31. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



Graph in perylene-tPAH

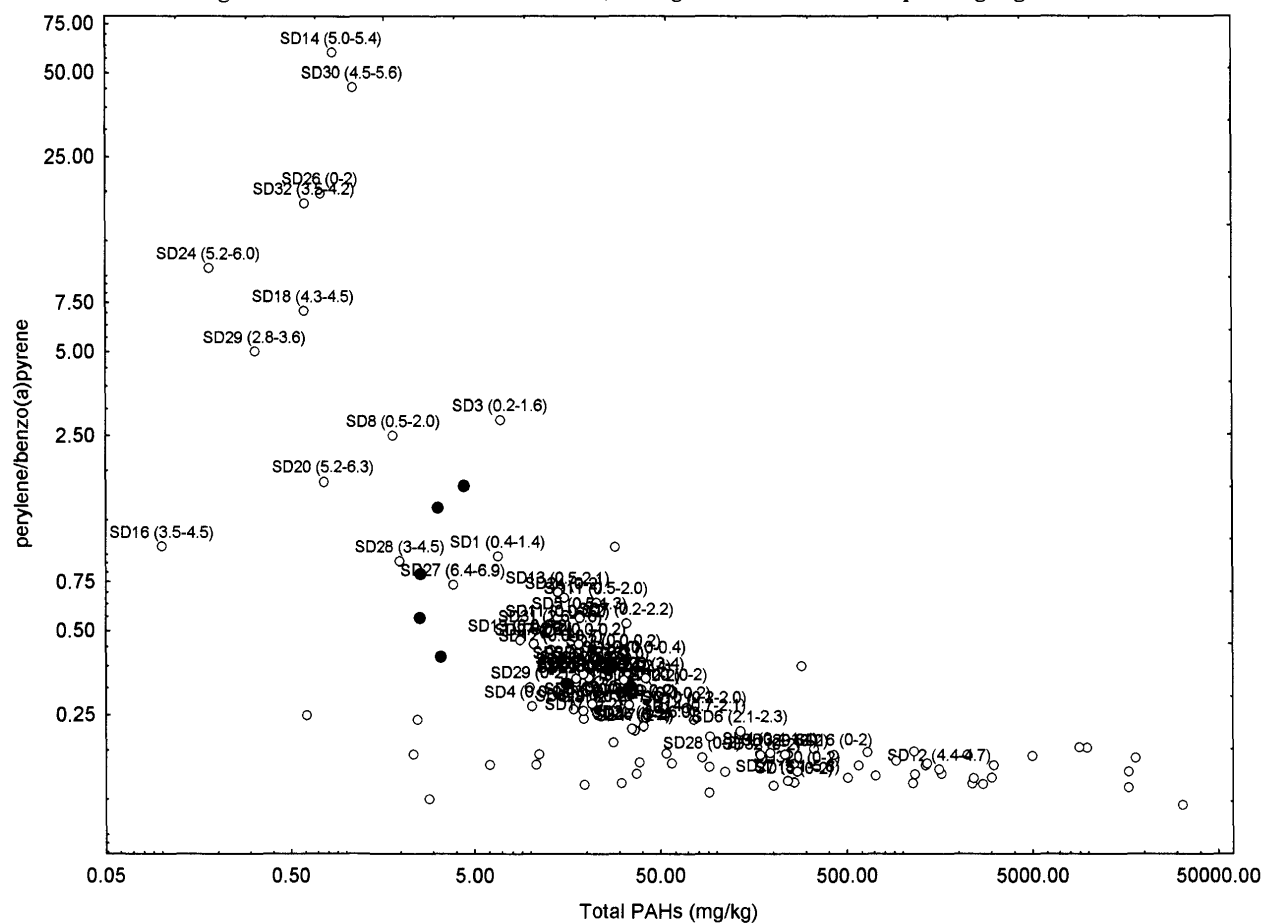


**Figure 32. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



Graph in perylene-tPAH

**Figure 33. Double Ratio Plot - All Data; Background Sediment Samples Highlighted**



Graph in perylene-tPAH

## B TABLES

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**Table 1. TIC Fingerprint Results for Background Sediment Samples**

<b>Natural background</b>	<b>Urban background</b>	<b>Coal tar or MGP residuals</b>	<b>Petroleum products</b>
BSD10 (0-2)	BSD1 (0-2)		
BSD11 (0-2)	BSD14 (0-2)		
BSD12 (0-2)	BSD15 (0-2)		
BSD13 (0-2)	BSD16 (0-2)		
BSD2 (0-2)	BSD17 (0-2)		
BSD3 (0-2)	BSD18 (0-2)		
BSD4 (0-2)	BSD19 (0-2)		
BSD5 (0-2)	BSD20 (0-2)		
BSD6 (0-2)	BSD8 (0-2)		
BSD7 (0-2)			
BSD9 (0-2)			

**Table 2. TIC Fingerprint Results for Sediment Samples**

<b>Natural background</b>	<b>Mixed pyrogenic and petrogenic material</b>		<b>Coal tar or MGP residuals</b>
SD19 (6.3-7.0)	SD11 (0.0-0.2)	SD1 (0.0-0.2)	SD12 (4.4-4.7)
SD25 (5.3-6)	SD12 (0.0-0.7)	SD1 (0.4-1.4)	SD15 (0-2)
SD26 (3.5-4.5)	SD13 (0.0-0.2)	SD10 (0.0-0.4)	SD16 (0-2)
SD34 (2.7-3.3)	SD13 (0.5-2.1)	SD10 (0.2-2.0)	SD17 (2-4)
	SD14 (5.0-5.4)	SD11 (0.5-2.0)	SD27 (5.1-5.8)
	SD15 (2.8-3.5)	SD14 (0.0-0.2)	SD27 (6.4-6.9)
	SD16 (3.5-4.5)	SD14 (0.7-2.1)	SD28 (0-2)
	SD18 (0-2)	SD17 (0-2)	SD31 (2.6-3.6)
	SD18 (4.3-4.5)	SD2 (0.0-0.2)	SD32 (0-2)
	SD19 (0-2)	SD2 (0.2-2.0)	SD320 (0-2)
	SD20 (5.2-6.3)	SD20 (0-2)	SD4 (0.4-1.4)
	SD22 (0-2)	SD21 (0-2)	SD6 (0.0-0.2)
	SD23 (0-2)	SD21 (6-7)	
	SD24 (0-2)	SD22 (4.9-6.0)	
	SD24 (5.2-6.0)	SD23 (3-4)	
	SD26 (0-2)	SD25 (0-2)	
	SD27 (0-2)	SD30 (0-2)	
	SD28 (3-4.5)	SD31 (0-2)	
	SD29 (0-2)	SD4 (0.0-0.2)	
	SD29 (2.8-3.6)	SD5 (0.0-0.2)	
	SD3 (0.0-0.2)	SD5 (0.5-1.3)	
	SD3 (0.2-1.6)	SD6 (2.1-2.3)	
	SD30 (4.5-5.6)	SD7 (0.0-0.2)	
	SD32 (3.5-4.2)	SD7 (0.2-2.2)	
	SD33 (0-2)	SD8 (0.0-0.2)	
	SD34 (0-2)	SD8 (0.5-2.0)	
	SD9 (0.0-0.2)	SD9 (0.4-2.4)	

**Table 3. Diagnostic Ratios and Measures**

Field ID:	BSD1 (0-2)	BSD10 (0-2)	BSD11 (0-2)	BSD12 (0-2)	BSD13 (0-2)	BSD14 (0-2)
fluoranthene/pyrene	0.980	NC	NC	NC	NC	1.127
dibenzofuran/fluorene	0.500	NC	NC	NC	NC	0.250
C3D/C3PA	0.167	NC	NC	NC	NC	0.182
C2D/C2PA	0.111	NC	NC	NC	NC	0.185
perylene/benzo(a)pyrene	1.658	NC	NC	NC	NC	0.325
benzo(a)pyrene/benzo(e)pyrene	1.226	NC	NC	NC	NC	1.212
benzofluorenes/methylpyrenes	0.381	NC	NC	NC	NC	0.647
Sum of PAHs	4.39	NC	NC	NC	NC	15.54
Group 1	0.05	0	0	0	0	0.04
Group 2	0.77	0	0	0	0	3.76
Group 3	1.5	0	0	0	0	6.78
Group 4	1.56	0	0	0	0	5.92

**Table 3. Diagnostic Ratios and Measures**

Field ID:	BSD15 (0-2)	BSD16 (0-2)	BSD18 (0-2)	BSD19 (0-2)	BSD2 (0-2)	BSD20 (0-2)
fluoranthene/pyrene	0.899	0.881	1.000	0.596	NC	0.625
dibenzofuran/fluorene	0.286	0.500	0.500	0.500	NC	1.000
C3D/C3PA	0.415	NC	NC	0.182	NC	0.000
C2D/C2PA	0.351	NC	0.000	0.200	NC	0.083
perylene/benzo(a)pyrene	0.494	1.385	0.800	0.405	NC	0.556
benzo(a)pyrene/benzo(e)pyrene	0.966	1.238	1.333	1.423	NC	1.421
benzofluorenes/methylpyrenes	0.336	0.252	0.539	0.374	NC	0.383
Sum of PAHs	12.47	3.2	2.57	3.3	NC	2.56
Group 1	0.1	0.04	0.02	0.03	0	0.02
Group 2	2.56	0.57	0.59	0.47	0	0.4
Group 3	4.94	1.19	1.11	1.24	0	1.03
Group 4	4.96	1.16	0.89	1.39	0	0.99

**Table 3. Diagnostic Ratios and Measures**

Field ID:	BSD3 (0-2)	BSD4 (0-2)	BSD5 (0-2)	BSD50 (0-2)	BSD6 (0-2)	BSD7 (0-2)
fluoranthene/pyrene	1.000	1.500	NC	NC	NC	#DIV/0!
dibenzofuran/fluorene	NC	NC	NC	NC	NC	NC
C3D/C3PA	NC	NC	NC	NC	NC	NC
C2D/C2PA	NC	NC	NC	NC	NC	NC
perylene/benzo(a)pyrene	NC	13.000	NC	NC	NC	NC
benzo(a)pyrene/benzo(e)pyrene	NC	1.000	NC	NC	NC	NC
benzofluorenes/methylpyrenes	NC	NC	NC	NC	NC	NC
Sum of PAHs	NC	NC	NC	NC	NC	NC
Group 1	0	0	0	0	0	0
Group 2	0.02	0.08	0	0	0	0
Group 3	0.02	0.12	0	0	0	0
Group 4	0.07	0.11	0	0	0	0



**Table 3. Diagnostic Ratios and Measures**

Field ID:	BSD8 (0-2)	BSDS9 (0-2)	MW10D (12-13)	MW10S (11-12)	MW11-BC (10-11)	MW1D (4.0-5.0)
fluoranthene/pyrene	1.186	NC	0.587	0.623	0.336	0.625
dibenzofuran/fluorene	0.250	NC	0.012	0.191	1.000	0.000
C3D/C3PA	0.375	NC	0.718	0.326	0.357	NC
C2D/C2PA	0.300	NC	0.248	0.129	0.300	0.000
perylene/benzo(a)pyrene	0.318	NC	0.140	0.157	0.143	0.250
benzo(a)pyrene/benzo(e)pyrene	1.325	NC	1.553	1.695	1.470	2.000
benzofluorenes/methylpyrenes	0.756	NC	0.337	0.341		0.359
Sum of PAHs	34.24	NC	202.02	110.5	30.83	0.61
Group 1	0.1	0	19.77	3.49	1.01	0.05
Group 2	9.64	0	73.84	44.77	3.05	0.16
Group 3	15.36	0.02	80.6	40.07	11.62	0.22
Group 4	11.8	0	27.84	21.79	13.34	0.18

**Table 3. Diagnostic Ratios and Measures**

Field ID:	MW2 (10.0-12.4)	MW3 (12.0-13.8)	MW3D (10.0-12.0)	MW3S-CH(10-12)	MW3S-CH(17.6-18.0)	MW4 (12.0-13.1)
fluoranthene/pyrene	0.561	0.613	0.564	0.706	0.938	0.594
dibenzofuran/fluorene	0.122	0.169	0.155	0.538	0.338	0.127
C3D/C3PA	0.398	0.292	0.274	0.050	0.878	0.326
C2D/C2PA	0.243	0.204	0.203	0.103	0.411	0.221
perylene/benzo(a)pyrene	0.149	0.181	0.143	0.289	0.422	0.154
benzo(a)pyrene/benzo(e)pyrene	1.726	1.757	1.760	1.552	2.250	1.816
benzofluorenes/methylpyrenes	0.348	0.331	0.308	0.418		0.349
Sum of PAHs	503.96	2234.25	1133.57	15.27	31.67	1163.04
Group 1	74.3	1010	561	6.11	23.73	361
Group 2	231.11	644.1	316.62	4.35	3.96	434.72
Group 3	144.7	411.6	172	2.97	2.42	263.3
Group 4	41.18	134.48	63.3	1.55	1.46	82.16

**Table 3. Diagnostic Ratios and Measures**

Field ID:	MW4-CH (6-8)	MW5 (14.0-16.0)	MW5D (2.0-4.0)	MW6D (4.0-6.0)	MW6IO (4.0-6.0)	MW7 (10-12)
fluoranthene/pyrene	0.933	0.600	0.455	0.460	0.477	1.205
dibenzofuran/fluorene	0.467	0.163	0.118	0.130	0.229	0.590
C3D/C3PA	0.222	0.131	NC	NC	0.365	0.342
C2D/C2PA	0.328	0.139	0.230	0.125	0.393	0.218
perylene/benzo(a)pyrene	0.262	0.157	0.120	0.138	0.170	0.191
benzo(a)pyrene/benzo(e)pyrene	1.343	1.797	1.711	1.820	1.128	1.857
benzofluorenes/methylpyrenes	0.364	0.326	0.253	0.251	0.200	0.390
Sum of PAHs	17.03	16508.8	32293.4	16489.9	38.55	9817.2
Group 1	0.24	9910	19170	8410	0.29	2595
Group 2	3.84	3362	5317	4295	7.52	3868
Group 3	6.77	2255	3746	2439	18.02	2525
Group 4	6.53	820.6	1554.4	964.5	12.55	771.9

**Table 3. Diagnostic Ratios and Measures**

Field ID:	MW7D (14.0-16.0)	MW8D (10.0-11.3)	SB1 (10-12)	SB11 (4.0-6.0)	SB13 (8-10)	SB130 (8-10)
fluoranthene/pyrene	0.591	0.587	0.520	0.453	0.667	0.490
dibenzofuran/fluorene	0.140	0.144	0.328	0.177	0.525	0.230
C3D/C3PA	0.250	0.253	0.389	0.260	0.340	0.428
C2D/C2PA	0.208	0.204	0.373	0.169	0.190	0.318
perylene/benzo(a)pyrene	0.167	0.164	0.182	0.143	0.152	0.167
benzo(a)pyrene/benzo(e)pyrene	1.636	1.500	1.222	1.520	1.669	1.351
benzofluorenes/methylpyrenes	0.334	0.348	0.267	0.206	0.334	0.203
Sum of PAHs	10.72	91.52	11.08	2372.69	714.06	258.35
Group 1	2.85	29.32	5.34	548.9	25.38	17.3
Group 2	3.77	34.42	3.43	900.4	162.61	59.82
Group 3	2.77	21.25	1.78	601.7	351.7	112
Group 4	1.14	5.13	0.38	245.19	177.49	62.41

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SB14 (8-12)	SB15 (12-15.2)	SB16 (8-10)	SB17 (10-12)	SB18 (11-11.5)	SB19 (6.0-6.2)
fluoranthene/pyrene	0.672	0.643	0.501	1.286	1.129	1.000
dibenzofuran/fluorene	0.138	0.194	0.229	0.599	0.405	NC
C3D/C3PA	0.312	0.714	0.396	0.186	NC	NC
C2D/C2PA	0.207	0.205	0.186	0.068	0.073	NC
perylene/benzo(a)pyrene	0.150	0.169	0.142	0.192	0.374	0.000
benzo(a)pyrene/benzo(e)pyrene	1.756	1.000	1.512	1.852	1.000	NC
benzofluorenes/methylpyrenes	0.419	0.393	0.317	1.047	0.785	
Sum of PAHs	3011.59	57.34	2709.56	8901.3	284.82	0.14
Group 1	83.59	17.63	37.89	2136	1.34	0.01
Group 2	1028.5	20.01	950.1	3129	103.04	0.06
Group 3	1179	14.43	1359	2137	126.1	0.06
Group 4	624.3	4.44	381.97	1119.1	60.18	0.02

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SB2 (8.5-10)	SB20 (7.3-7.4)	SB21 (6.3-6.6)	SB22 (7.0-7.3)	SB23 (13-14)	SB25 (12-16)
fluoranthene/pyrene	0.548	0.426	1.120	0.900	0.608	0.474
dibenzofuran/fluorene	0.333	0.175	0.702	0.286	0.140	0.339
C3D/C3PA	0.361	0.190	0.319	NC	0.375	0.196
C2D/C2PA	0.344	0.159	0.218	0.174	0.224	0.191
perylene/benzo(a)pyrene	0.167	0.141	0.266	0.244	0.154	0.165
benzo(a)pyrene/benzo(e)pyrene	1.385	0.802	1.433	1.365	1.840	1.632
benzofluorenes/methylpyrenes	0.301	0.196	0.227	0.394	0.338	0.204
Sum of PAHs	6.04	19.43	68.82	42.01	1614.59	578.12
Group 1	0.47	4.38	1.77	0.12	680	5.96
Group 2	2.65	6.05	23.19	10.53	509.68	152.26
Group 3	2.25	4.97	27.77	20.95	273	294.7
Group 4	0.57	3	18.85	12.86	118.25	131.79

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SB26 (16-20)	SB28 (7-10)	SB29 (10-12)	SB3 (14.0-15.9)	SB31 (9-9.5)	SB4 (4.0-6.0)
fluoranthene/pyrene	0.618	0.048	0.611	0.223	0.774	0.536
dibenzofuran/fluorene	0.356	NC	0.082	0.290	1.000	0.120
C3D/C3PA	0.407	0.286	0.260	0.108	0.000	0.328
C2D/C2PA	0.338	0.200	0.184	0.063	0.222	0.255
perylene/benzo(a)pyrene	1.000	0.182	0.166	0.190	0.240	0.166
benzo(a)pyrene/benzo(e)pyrene	1.000	0.611	1.523	1.067	1.316	1.531
benzofluorenes/methylpyrenes		0.055	0.31	0.088		0.315
Sum of PAHs	28.58	2.35	1322.46	330.14	2.48	3099.37
Group 1	13.41	0.02	97.2	15.05	0.04	1419
Group 2	4.16	0.14	430.6	75.83	0.46	919.5
Group 3	7.19	0.35	470	169.1	0.93	511.3
Group 4	1.51	1.43	255.45	58.54	0.99	207.27

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SB5 (4.0-6.0)	SB6 (10.4-12.2)	SB8 (4.0-6.0)	SB9 (14.0-15.5)	SD1 (0.0-0.2)	SD1 (0.4-1.4)
fluoranthene/pyrene	0.464	0.500	0.531	0.600	0.929	0.646
dibenzofuran/fluorene	0.141	0.000	0.154	NC	0.286	0.250
C3D/C3PA	0.333	NC	0.000	NC	0.255	0.238
C2D/C2PA	0.254	0.000	0.182	NC	0.223	0.234
perylene/benzo(a)pyrene	0.178	0.000	0.125	0.000	0.266	0.925
benzo(a)pyrene/benzo(e)pyrene	1.538	1.000	1.600	1.000	1.433	1.514
benzofluorenes/methylpyrenes	0.225	0.307	0.324	0.313	0.387	0.308
Sum of PAHs	4981.9	0.43	2.87	0.23	51.78	6.73
Group 1	2565	0.03	0.67	0.01	0.45	0.14
Group 2	1183	0.12	1.15	0.08	14.69	1.43
Group 3	780	0.2	0.73	0.11	24.5	3.17
Group 4	346.8	0.08	0.25	0.04	14.56	1.81



**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD10 (0.0-0.4)	SD10 (0.2-2.0)	SD11 (0.0-0.2)	SD11 (0.5-2.0)	SD12 (0.0-0.7)	SD12 (4.4-4.7)
fluoranthene/pyrene	1.009	0.800	1.021	0.613	1.047	0.577
dibenzofuran/fluorene	0.263	0.211	0.333	0.190	0.308	0.082
C3D/C3PA	0.705	0.329	0.389	0.188	0.375	0.247
C2D/C2PA	0.306	0.290	0.244	0.159	0.256	0.211
perylene/benzo(a)pyrene	0.388	0.257	0.523	0.633	0.427	0.160
benzo(a)pyrene/benzo(e)pyrene	1.526	1.702	1.375	1.546	1.477	1.991
benzofluorenes/methylpyrenes	0.685	0.398	0.642	0.326	0.691	0.439
Sum of PAHs	36.28	76.17	14.07	22.66	12.88	1568.42
Group 1	0.3	0.77	0.15	2.53	0.13	729
Group 2	10.43	20.74	3.63	5.24	3.7	544.7
Group 3	17.77	37.08	6.19	8.6	5.91	225.8
Group 4	10.03	20.7	4.65	5.75	3.75	63.86

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD13 (0.0-0.2)	SD13 (0.5-2.1)	SD14 (0.0-0.2)	SD14 (0.7-2.1)	SD14 (5.0-5.4)	SD15 (0-2)
fluoranthene/pyrene	1.016	1.036	0.828	0.661	1.000	0.621
dibenzofuran/fluorene	0.300	0.286	0.333	0.161	0.000	0.680
C3D/C3PA	0.455	0.421	0.365	0.331	NC	0.346
C2D/C2PA	0.360	0.324	0.343	0.205	NC	0.307
perylene/benzo(a)pyrene	0.463	0.690	0.332	0.240	59.000	0.144
benzo(a)pyrene/benzo(e)pyrene	1.241	1.450	1.478	1.651	1.000	1.921
benzofluorenes/methylpyrenes	0.583	0.645	0.406	0.334	0.363	0.433
Sum of PAHs	8.82	14.02	23.25	75.66	0.85	259.16
Group 1	0.14	0.19	0.3	2.14	0.01	2.93
Group 2	2.51	3.83	5.68	18.06	0.1	86.76
Group 3	4.15	6	10.11	31.43	0.09	116.1
Group 4	2.22	4.06	6.98	22.45	0.07	56.47

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD15 (2.8-3.5)	SD16 (0-2)	SD16 (3.5-4.5)	SD17 (0-2)	SD17 (2-4)	SD18 (0-2)
fluoranthene/pyrene	1.000	0.655	NC	0.770	0.541	1.184
dibenzofuran/fluorene	NC	0.296	NC	0.250	0.318	0.250
C3D/C3PA	NC	0.294	NC	0.344	0.266	0.250
C2D/C2PA	NC	0.261	NC	0.329	0.267	0.208
perylene/benzo(a)pyrene	NC	0.181	1.000	0.242	0.221	0.310
benzo(a)pyrene/benzo(e)pyrene	NC	1.407	NC	1.366	1.257	1.383
benzofluorenes/methylpyrenes		0.314		0.282	0.269	0.59
Sum of PAHs	0.34	422.55	0.1	19.37	36.5	27.7
Group 1	0	5.71	0	0.13	0.35	0.07
Group 2	0.03	117.68	0	3.76	7.23	6.9
Group 3	0.04	190.4	0	7.87	17.12	12.21
Group 4	0.03	118.45	0.05	7.51	12.22	10.39

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD18 (4.3-4.5)	SD19 (0-2)	SD19 (6.3-7.0)	SD2 (0.0-0.2)	SD2 (0.2-2.0)	SD20 (0-2)
fluoranthene/pyrene	1.000	1.157	0.000	0.965	0.904	1.140
dibenzofuran/fluorene	NC	0.300	NC	0.304	0.294	0.267
C3D/C3PA	NC	0.267	NC	0.730	0.486	0.256
C2D/C2PA	NC	0.222	NC	0.306	0.313	0.219
perylene/benzo(a)pyrene	7.000	0.280	NC	0.409	0.371	0.310
benzo(a)pyrene/benzo(e)pyrene	1.500	1.409	NC	1.425	1.427	1.547
benzofluorenes/methylpyrenes	0.59	0.241		0.614	0.553	0.602
Sum of PAHs	0.59	23.15	0.68	28.07	24.19	55.24
Group 1	0	0.07	0.01	0.22	0.2	0.13
Group 2	0.11	5.67	0	7.65	6.12	14.39
Group 3	0.18	10.02	0.01	13.76	12.11	24.78
Group 4	0.12	9.17	0.01	8.12	7.12	19.66

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD20 (5.2-6.3)	SD21 (0-2)	SD21 (6-7)	SD22 (0-2)	SD22 (4.9-6.0)	SD23 (0-2)
fluoranthene/pyrene	0.500	1.125	0.826	0.918	0.569	1.156
dibenzofuran/fluorene	NC	0.316	0.286	0.500	0.118	0.300
C3D/C3PA	NC	0.152	0.291	0.431	0.316	0.333
C2D/C2PA	NC	0.194	0.273	0.240	0.231	0.234
perylene/benzo(a)pyrene	1.714	0.309	0.258	0.329	0.228	0.358
benzo(a)pyrene/benzo(e)pyrene	1.750	1.408	1.473	1.215	1.528	1.446
benzofluorenes/methylpyrenes		0.52	0.398	0.433	0.266	0.697
Sum of PAHs	0.76	39.52	27.91	17.54	40.68	18.25
Group 1	0.15	0.11	0.29	0.13	1.61	0.08
Group 2	0.1	10.45	6.01	3.12	12.27	4.5
Group 3	0.22	18.66	11.88	6.88	15.99	8.05
Group 4	0.17	13.62	10.22	7.45	10.68	6.63

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD23 (3-4)	SD24 (0-2)	SD24 (5.2-6.0)	SD25 (0-2)	SD25 (5.3-6)	SD26 (0-2)
fluoranthene/pyrene	1.133	0.744	1.000	0.594	NC	1.167
dibenzofuran/fluorene	0.259	0.333	NC	0.300	NC	NC
C3D/C3PA	0.303	0.250	NC	0.322	NC	NC
C2D/C2PA	0.187	0.219	NC	0.278	NC	NC
perylene/benzo(a)pyrene	0.340	0.659	10.000	0.223	NC	18.500
benzo(a)pyrene/benzo(e)pyrene	1.502	1.584	NC	1.774	NC	1.000
benzofluorenes/methylpyrenes	0.704	0.339		0.301		
Sum of PAHs	41.73	15.14	0.18	35.22	0.11	0.73
Group 1	0.12	0.1	0	0.17	0	0
Group 2	11.28	2.22	0.02	4.91	0	0.13
Group 3	18.7	6.08	0.04	14.66	0	0.17
Group 4	14.75	5.81	0.03	14.56	0.01	0.1

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD26 (3.5-4.5)	SD27 (0-2)	SD27 (5.1-5.8)	SD27 (6.4-6.9)	SD28 (0-2)	SD28 (3-4.5)
fluoranthene/pyrene	NC	1.092	0.603	0.592	0.607	0.600
dibenzofuran/fluorene	NC	0.200	0.081	0.105	0.357	NC
C3D/C3PA	NC	0.300	0.327	NC	0.323	NC
C2D/C2PA	NC	0.222	0.263	0.167	0.322	NC
perylene/benzo(a)pyrene	NC	0.448	0.146	0.733	0.177	0.889
benzo(a)pyrene/benzo(e)pyrene	NC	1.359	1.814	1.667	1.867	1.636
benzofluorenes/methylpyrenes		0.582	0.446	0.444	0.417	0.433
Sum of PAHs	0.24	10.45	240.48	3.85	83.34	1.99
Group 1	0	0.06	12.91	0.43	0.25	0.05
Group 2	0	2.76	105.99	1.68	12.74	0.39
Group 3	0	4.39	79.9	1.09	42.5	0.77
Group 4	0	3.6	40.31	0.47	29.31	0.65

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD29 (0-2)	SD29 (2.8-3.6)	SD3 (0.0-0.2)	SD3 (0.2-1.6)	SD30 (0-2)	SD30 (4.5-5.6)
fluoranthene/pyrene	1.127	0.750	0.831	0.628	0.864	0.667
dibenzofuran/fluorene	0.333	NC	0.400	0.053	0.200	NC
C3D/C3PA	0.000	NC	0.393	0.125	0.297	NC
C2D/C2PA	0.190	NC	0.254	0.091	0.225	NC
perylene/benzo(a)pyrene	0.315	5.000	0.369	2.857	0.339	44.500
benzo(a)pyrene/benzo(e)pyrene	1.413	2.000	1.433	1.556	1.500	1.000
benzofluorenes/methylpyrenes	0.577		0.386	0.343	0.384	
Sum of PAHs	9.9	0.32	18.7	6.92	17.55	1.1
Group 1	0.06	0.01	0.22	3.05	0.34	0
Group 2	2.4	0.05	3.93	1.84	3.55	0.05
Group 3	4.29	0.11	8.03	1.12	6.97	0.07
Group 4	3.61	0.07	6.7	0.44	6.4	0.09



**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD31 (0-2)	SD31 (2.6-3.6)	SD32 (0-2)	SD32 (3.5-4.2)	SD320 (0-2)	SD320 (0-2)
fluoranthene/pyrene	1.235	0.612	0.616	0.667	0.590	0.595
dibenzofuran/fluorene	0.250	0.127	0.102	NC	0.106	0.104
C3D/C3PA	0.316	0.500	0.478	NC	0.423	0.351
C2D/C2PA	0.250	0.323	0.360	NC	0.299	0.288
perylene/benzo(a)pyrene	0.341	0.500	0.175	17.000	0.157	0.181
benzo(a)pyrene/benzo(e)pyrene	1.504	2.000	1.840	2.000	1.801	1.735
benzofluorenes/methylpyrenes	0.67	0.404	0.437		0.397	0.383
Sum of PAHs	20.53	12.85	173.81	0.6	269.98	231.33
Group 1	0.08	4.99	12.09	0.02	21.29	20.92
Group 2	5.24	3.91	67.41	0.08	115.64	96.24
Group 3	8.82	2.32	63.5	0.08	96.4	76.9
Group 4	7.66	1.42	28.34	0.08	38.7	36.78

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD33 (0-2)	SD34 (0-2)	SD34 (2.7-3.3)	SD4 (0.0-0.2)	SD4 (0.4-1.4)	SD5 (0.0-0.2)
fluoranthene/pyrene	1.000	1.000	NC	0.754	0.623	0.762
dibenzofuran/fluorene	NC	NC	NC	0.333	0.147	0.333
C3D/C3PA	NC	NC	NC	0.300	0.421	0.636
C2D/C2PA	NC	NC	NC	0.250	0.247	0.269
perylene/benzo(a)pyrene	NC	NC	NC	0.269	0.183	0.259
benzo(a)pyrene/benzo(e)pyrene	NC	NC	NC	1.409	1.528	1.434
benzofluorenes/methylpyrenes				0.324	0.411	0.325
Sum of PAHs	0.14	0.36	0.42	10.16	192.8	19.2
Group 1	0	0	0	0.09	10.88	0.24
Group 2	0.02	0.02	0	2.37	72.59	4.66
Group 3	0.02	0.02	0	4.57	74.1	8.37
Group 4	0.01	0.02	0	3.24	32.76	5.98

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD5 (0.5-1.3)	SD6 (0.0-0.2)	SD6 (2.1-2.3)	SD7 (0.0-0.2)	SD7 (0.2-2.2)	SD8 (0.0-0.2)
fluoranthene/pyrene	0.707	1.004	0.688	0.799	0.650	0.753
dibenzofuran/fluorene	0.075	0.294	0.114	0.318	0.175	0.222
C3D/C3PA	0.244	0.300	0.328	0.534	0.265	0.644
C2D/C2PA	0.211	0.283	0.198	0.259	0.235	0.303
perylene/benzo(a)pyrene	0.558	0.449	0.219	0.272	0.533	0.275
benzo(a)pyrene/benzo(e)pyrene	1.625	1.605	1.573	1.344	1.659	1.640
benzofluorenes/methylpyrenes	0.427	0.510	0.337	0.317	0.355	0.378
Sum of PAHs	18.47	18.15	133.6	33.93	32.92	21.39
Group 1	0.3	1.23	42.6	0.38	0.83	0.16
Group 2	5.95	8.43	46.19	8.12	9.28	4.25
Group 3	8.16	6.24	25.33	16.49	15.24	9.94
Group 4	3.99	2.66	15.55	10.22	7.51	7.45

**Table 3. Diagnostic Ratios and Measures**

Field ID:	SD8 (0.5-2.0)	SD9 (0.0-0.2)	SD9 (0.4-2.4)	SDS33 (2.6-3.5)	TP1 (8.0-9.0)	TP10 (9.5-10.5)
fluoranthene/pyrene	0.541	0.993	1.002	1.000	0.653	0.838
dibenzofuran/fluorene	0.000	0.294	0.250	NC	0.364	0.504
C3D/C3PA	0.000	0.355	0.615	NC	0.291	0.199
C2D/C2PA	0.222	0.333	0.292	NC	0.195	0.132
perylene/benzo(a)pyrene	2.500	0.352	0.333	NC	0.172	0.169
benzo(a)pyrene/benzo(e)pyrene	1.667	1.486	1.594	NC	1.765	1.701
benzofluorenes/methylpyrenes	0.384	0.601	0.685		0.439	0.520
Sum of PAHs	1.83	19.28	31.81	0.44	919.34	1349.33
Group 1	0.05	0.18	0.24	0	537.8	151.17
Group 2	0.46	5.19	9.44	0.03	199.1	633.6
Group 3	0.83	8.7	15.98	0.04	130.1	397
Group 4	0.34	5.89	8.43	0	41.01	155.57

**Table 3. Diagnostic Ratios and Measures**

Field ID:	TP13 (8-9)	TP14 (9.0-10.0)	TP14 HLDR B	TP15 (9.0-10.0)	TP2 (8.0-9.0)	TP20 (6.5-7.0)
fluoranthene/pyrene	0.604	0.544	0.565	0.576	0.514	0.463
dibenzofuran/fluorene	0.146	0.100	0.139	0.093	0.170	0.138
C3D/C3PA	0.264	0.257	0.546	0.260	0.365	0.187
C2D/C2PA	0.190	0.216	0.539	0.215	0.299	0.209
perylene/benzo(a)pyrene	0.186	0.155	0.183	0.132	0.210	0.149
benzo(a)pyrene/benzo(e)pyrene	1.713	1.447	1.034	1.432	1.526	1.635
benzofluorenes/methylpyrenes	0.410	0.305	0.278	0.310	0.317	0.257
Sum of PAHs	1148.1	37.11	53.56	91.39	91.74	2410.71
Group 1	645	6.28	1.72	47.1	16.38	1300
Group 2	240.5	16.58	13.98	25.81	40.25	498.9
Group 3	171	9.9	21.45	13.79	25.96	405
Group 4	74.17	3.74	15.45	3.41	7.89	176.05

**Table 3. Diagnostic Ratios and Measures**

Field ID:	TP4 (9.5-10.0)	TP5 (8.5-9.5)	TP6 (9.5-10.5)	TP9 (11-11.5)
fluoranthene/pyrene	0.578	0.616	0.456	0.665
dibenzofuran/fluorene	0.142	0.262	0.133	0.174
C3D/C3PA	0.404	0.280	0.104	0.374
C2D/C2PA	0.326	0.218	0.158	0.250
perylene/benzo(a)pyrene	0.200	0.184	0.176	0.180
benzo(a)pyrene/benzo(e)pyrene	1.172	1.592	1.806	1.517
benzofluorenes/methylpyrenes	0.306	0.326	0.219	0.361
Sum of PAHs	27.75	641.06	17950.7	171.24
Group 1	4.31	349.5	11160	19.17
Group 2	11.66	154.75	3664	68.57
Group 3	8.24	90.5	2173	58.35
Group 4	3.29	37.15	718.4	24.19

**Table 4. Ratios of Parent to Alkylated PAHs for all Samples**

Field ID:	parent/alkylated PAHs	Field ID:	parent/alkylated PAHs
BSD1 (0-2)	1.03	MW4 (12.0-13.1)	0.92
BSD10 (0-2)	NC	MW4-CH (6-8)	1.08
BSD11 (0-2)	NC	MW5 (14.0-16.0)	1.82
BSD12 (0-2)	NC	MW5D (2.0-4.0)	2.41
BSD13 (0-2)	NC	MW6D (4.0-6.0)	1.55
BSD14 (0-2)	2.38	MW6IO (4.0-6.0)	0.32
BSD15 (0-2)	0.86	MW7 (10-12)	0.78
BSD16 (0-2)	1.20	MW7D (14.0-16.0)	1.05
BSD18 (0-2)	2.03	MW8D (10.0-11.3)	0.67
BSD19 (0-2)	0.85	SB1 (10-12)	0.15
BSD2 (0-2)	NC	SB11 (4.0-6.0)	0.64
BSD20 (0-2)	0.92	SB13 (8-10)	0.88
BSD3 (0-2)	NC	SB130 (8-10)	0.42
BSD4 (0-2)	NC	SB14 (8-12)	1.06
BSD5 (0-2)	NC	SB15 (12-15.2)	3.93
BSD50 (0-2)	NC	SB16 (8-10)	0.97
BSD6 (0-2)	NC	SB17 (10-12)	2.58
BSD7 (0-2)	NC	SB18 (11-11.5)	3.47
BSD8 (0-2)	2.21	SB19 (6.0-6.2)	
BSDS9 (0-2)	NC	SB2 (8.5-10)	NC
MW10D (12-13)	3.63	SB20 (7.3-7.4)	0.83
MW10S (11-12)	3.29	SB21 (6.3-6.6)	1.83
MW11-BC (10-11)	1.35	SB22 (7.0-7.3)	4.51
MW1D (4.0-5.0)	1.94	SB23 (13-14)	1.23
MW2 (10.0-12.4)	0.93	SB25 (12-16)	0.80
MW3 (12.0-13.8)	1.32	SB26 (16-20)	0.82
MW3D (10.0-12.0)	1.38	SB28 (7-10)	0.28
MW3S-CH(10-12)	1.32	SB29 (10-12)	1.16
MW3S-CH(17.6-18.0)	0.68	SB3 (14.0-15.9)	0.49
Field ID:	parent/alkylated PAHs	Field ID:	parent/alkylated PAHs
SB31 (9-9.5)	0.78	SD2 (0.2-2.0)	1.43
SB4 (4.0-6.0)	1.24	SD20 (0-2)	2.30
SB5 (4.0-6.0)	0.77	SD20 (5.2-6.3)	1.03
SB6 (10.4-12.2)	1.71	SD21 (0-2)	2.11
SB8 (4.0-6.0)	1.26	SD21 (6-7)	0.96
SB9 (14.0-15.5)	NC	SD22 (0-2)	1.00
SD1 (0.0-0.2)	1.48	SD22 (4.9-6.0)	0.91
SD1 (0.4-1.4)	0.83	SD23 (0-2)	1.80
SD10 (0.0-0.4)	1.69	SD23 (3-4)	2.45
SD10 (0.2-2.0)	1.07	SD24 (0-2)	0.86
SD11 (0.0-0.2)	1.64	SD24 (5.2-6.0)	NC
SD11 (0.5-2.0)	0.68	SD25 (0-2)	0.84
SD12 (0.0-0.7)	1.69	SD25 (5.3-6)	NC
SD12 (4.4-4.7)	1.12	SD26 (0-2)	NC
SD13 (0.0-0.2)	1.52	SD26 (3.5-4.5)	NC
SD13 (0.5-2.1)	1.52	SD27 (0-2)	1.76
SD14 (0.0-0.2)	1.02	SD27 (5.1-5.8)	1.33

**Table 4. Ratios of Parent to Alkylated PAHs for all Samples**

<b>Field ID:</b>	<b>parent/alkylated PAHs</b>	<b>Field ID:</b>	<b>parent/alkylated PAHs</b>
SD14 (0.7-2.1)	0.73	SD27 (6.4-6.9)	1.46
SD14 (5.0-5.4)	0.80	SD28 (0-2)	1.15
SD15 (0-2)	1.19	SD28 (3-4.5)	1.51
SD15 (2.8-3.5)	NC	SD29 (0-2)	2.13
SD16 (0-2)	1.29	SD29 (2.8-3.6)	NC
SD16 (3.5-4.5)	NC	SD3 (0.0-0.2)	1.22
SD17 (0-2)	1.16	SD3 (0.2-1.6)	0.96
SD17 (2-4)	1.10	SD30 (0-2)	0.94
SD18 (0-2)	2.25	SD30 (4.5-5.6)	NC
SD18 (4.3-4.5)	NC	SD31 (0-2)	1.94
SD19 (0-2)	2.63	SD31 (2.6-3.6)	1.20
SD19 (6.3-7.0)	NC	SD32 (0-2)	1.18
SD2 (0.0-0.2)	1.77	SD32 (3.5-4.2)	NC
<b>Field ID:</b>	<b>parent/alkylated PAHs</b>		
SD320 (0-2)	1.17		
SD320 (0-2)	1.15		
SD33 (0-2)	NC		
SD34 (0-2)	NC		
SD34 (2.7-3.3)	NC		
SD4 (0.0-0.2)	1.03		
SD4 (0.4-1.4)	0.93		
SD5 (0.0-0.2)	1.12		
SD5 (0.5-1.3)	0.91		
SD6 (0.0-0.2)	1.11		
SD6 (2.1-2.3)	0.73		
SD7 (0.0-0.2)	1.33		
SD7 (0.2-2.2)	0.84		
SD8 (0.0-0.2)	1.04		
SD8 (0.5-2.0)	1.10		
SD9 (0.0-0.2)	1.45		
SD9 (0.4-2.4)	1.83		
SDS33 (2.6-3.5)	NC		
TP1 (8.0-9.0)	1.04		
TP10 (9.5-10.5)	0.96		
TP13 (8-9)	1.13		
TP14 (9.0-10.0)	0.80		
TP14 HLDR B	0.23		
TP15 (9.0-10.0)	0.50		
TP2 (8.0-9.0)	0.33		
TP20 (6.5-7.0)	1.66		
TP4 (9.5-10.0)	0.38		
TP5 (8.5-9.5)	0.92		
TP6 (9.5-10.5)	1.85		
TP9 (11-11.5)	0.74		



**Table 5. Normalized Data for Factor Analysis**

Field ID:	BSD1 (0-2)	BSD10 (0-2)	BSD11 (0-2)	BSD12 (0-2)
Acenaphthylene	0.006			
Acenaphthene	0.001			
Dibenzofuran	0.001			
Phenanthrene	0.026			
Anthracene	0.006			
Fluoranthene	0.060			
Pyrene	0.061			
Benz[a]anthracene	0.031			
Chrysene	0.035			
Benzo[b]fluoranthene	0.039			
Benzo[k]fluoranthene	0.031			
Benzo(e)pyrene	0.039			
Benzo[a]pyrene	0.048			
Perylene	0.079			
Indeno[1,2,3-cd]pyrene	0.034			
Dibenz[a,h]anthracene	0.006			
Benzo[g,h,i]perylene	0.038			
C0 - Naphthalene	0.004			
C1 - Naphthalene	0.001			
C2 - Naphthalene	0.003			
C3- Naphthalene	0.001			
C4- Naphthalene	0.000			
C0 - Fluorene	0.003			
C1 - Fluorene	0.004			
C2 - Fluorene	0.010			
C3 - Fluorene	0.003			
C0 - Phenanthrene/Anthracene	0.033			
C1 - Phenanthrene/Anthracene	0.054			
C2 - Phenanthrene/Anthracene	0.023			
C3 - Phenanthrene/Anthracene	0.008			
C4 - Phenanthrene/Anthracene	0.000			
C0 - Dibenzothiophene	0.001			
C1 - Dibenzothiophene	0.001			
C2 - Dibenzothiophene	0.003			
C3 - Dibenzothiophene	0.001			
C0 - Fluoranthene/Pyrene	0.126			
C1 - Fluoranthene/Pyrene	0.043			
C2 - Fluoranthene/Pyrene	0.021			
C3 - Fluoranthene/Pyrene	0.009			
C0 - Benz(a)anthracene/Chrysene	0.064			
C1 - Benz(a)anthracene/Chrysene	0.029			
C2 - Benz(a)anthracene/Chrysene	0.014			
C3 - Benz(a)anthracene/Chrysene	0.003			
C4 - Benz(a)anthracene/Chrysene	0.000			

**Table 5. Normalized Data for Factor Analysis**

Field ID:	BSD13 (0-2)	BSD14 (0-2)	BSD15 (0-2)	BSD16 (0-2)
Acenaphthylene		0.003	0.006	0.007
Acenaphthene		0.002	0.002	0.002
Dibenzofuran		0.001	0.001	0.002
Phenanthrene		0.039	0.030	0.022
Anthracene		0.006	0.005	0.007
Fluoranthene		0.091	0.058	0.064
Pyrene		0.081	0.064	0.073
Benz[a]anthracene		0.034	0.028	0.035
Chrysene		0.042	0.039	0.035
Benzo[b]fluoranthene		0.046	0.042	0.035
Benzo[k]fluoranthene		0.038	0.027	0.033
Benzo(e)pyrene		0.036	0.034	0.036
Benzo[a]pyrene		0.044	0.032	0.045
Perylene		0.014	0.016	0.062
Indeno[1,2,3-cd]pyrene		0.041	0.031	0.036
Dibenz[a,h]anthracene		0.008	0.007	0.009
Benzo[g,h,i]perylene		0.041	0.050	0.043
C0 - Naphthalene		0.001	0.002	0.003
C1 - Naphthalene		0.000	0.002	0.002
C2 - Naphthalene		0.001	0.003	0.002
C3- Naphthalene		0.000	0.003	0.000
C4- Naphthalene		0.000	0.001	0.000
C0 - Fluorene		0.003	0.003	0.003
C1 - Fluorene		0.003	0.006	0.003
C2 - Fluorene		0.001	0.004	0.003
C3 - Fluorene		0.003	0.011	0.002
C0 - Phenanthrene/Anthracene		0.045	0.035	0.031
C1 - Phenanthrene/Anthracene		0.017	0.034	0.031
C2 - Phenanthrene/Anthracene		0.010	0.028	0.019
C3 - Phenanthrene/Anthracene		0.004	0.016	0.010
C4 - Phenanthrene/Anthracene		0.000	0.006	0.000
C0 - Dibenzothiophene		0.002	0.003	0.002
C1 - Dibenzothiophene		0.001	0.006	0.000
C2 - Dibenzothiophene		0.002	0.010	0.000
C3 - Dibenzothiophene		0.001	0.006	0.000
C0 - Fluoranthene/Pyrene		0.174	0.129	0.142
C1 - Fluoranthene/Pyrene		0.032	0.047	0.052
C2 - Fluoranthene/Pyrene		0.017	0.027	0.028
C3 - Fluoranthene/Pyrene		0.008	0.016	0.009
C0 - Benz(a)anthracene/Chrysene		0.079	0.065	0.067
C1 - Benz(a)anthracene/Chrysene		0.020	0.033	0.031
C2 - Benz(a)anthracene/Chrysene		0.008	0.021	0.014
C3 - Benz(a)anthracene/Chrysene		0.002	0.009	0.000
C4 - Benz(a)anthracene/Chrysene		0.000	0.005	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	BSD18 (0-2)	BSD19 (0-2)	BSD2 (0-2)	BSD20 (0-2)
Acenaphthylene	0.004	0.011		0.008
Acenaphthene	0.002	0.002		0.002
Dibenzofuran	0.002	0.002		0.002
Phenanthrene	0.035	0.014		0.018
Anthracene	0.007	0.006		0.006
Fluoranthene	0.084	0.042		0.049
Pyrene	0.084	0.071		0.079
Benz[a]anthracene	0.038	0.038		0.039
Chrysene	0.040	0.036		0.036
Benzo[b]fluoranthene	0.042	0.042		0.034
Benzo[k]fluoranthene	0.031	0.032		0.036
Benzo(e)pyrene	0.033	0.039		0.037
Benzo[a]pyrene	0.044	0.056		0.053
Perylene	0.035	0.023		0.030
Indeno[1,2,3-cd]pyrene	0.035	0.035		0.032
Dibenz[a,h]anthracene	0.009	0.009		0.008
Benzo[g,h,i]perylene	0.035	0.036		0.034
C0 - Naphthalene	0.002	0.003		0.002
C1 - Naphthalene	0.002	0.002		0.002
C2 - Naphthalene	0.000	0.002		0.000
C3- Naphthalene	0.000	0.002		0.000
C4- Naphthalene	0.000	0.000		0.000
C0 - Fluorene	0.004	0.003		0.002
C1 - Fluorene	0.002	0.005		0.004
C2 - Fluorene	0.000	0.006		0.004
C3 - Fluorene	0.002	0.005		0.002
C0 - Phenanthrene/Anthracene	0.042	0.021		0.024
C1 - Phenanthrene/Anthracene	0.024	0.021		0.022
C2 - Phenanthrene/Anthracene	0.013	0.023		0.024
C3 - Phenanthrene/Anthracene	0.004	0.017		0.016
C4 - Phenanthrene/Anthracene	0.000	0.002		0.002
C0 - Dibenzothiophene	0.002	0.002		0.002
C1 - Dibenzothiophene	0.002	0.003		0.002
C2 - Dibenzothiophene	0.000	0.005		0.002
C3 - Dibenzothiophene	0.000	0.003		0.000
C0 - Fluoranthene/Pyrene	0.168	0.129		0.136
C1 - Fluoranthene/Pyrene	0.042	0.065		0.065
C2 - Fluoranthene/Pyrene	0.020	0.035		0.036
C3 - Fluoranthene/Pyrene	0.002	0.017		0.016
C0 - Benz(a)anthracene/Chrysene	0.075	0.071		0.073
C1 - Benz(a)anthracene/Chrysene	0.024	0.044		0.043
C2 - Benz(a)anthracene/Chrysene	0.007	0.020		0.020
C3 - Benz(a)anthracene/Chrysene	0.000	0.005		0.002
C4 - Benz(a)anthracene/Chrysene	0.000	0.000		0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	BSD3 (0-2)	BSD4 (0-2)	BSD5 (0-2)	BSD50 (0-2)	BSD6 (0-2)
Acenaphthylene					
Acenaphthene					
Dibenzofuran					
Phenanthrene					
Anthracene					
Fluoranthene					
Pyrene					
Benz[a]anthracene					
Chrysene					
Benzo[b]fluoranthene					
Benzo[k]fluoranthene					
Benzo(e)pyrene					
Benzo[a]pyrene					
Perylene					
Indeno[1,2,3-cd]pyrene					
Dibenz[a,h]anthracene					
Benzo[g,h,i]perylene					
C0 - Naphthalene					
C1 - Naphthalene					
C2 - Naphthalene					
C3- Naphthalene					
C4- Naphthalene					
C0 - Fluorene					
C1 - Fluorene					
C2 - Fluorene					
C3 - Fluorene					
C0 - Phenanthrene/Anthracene					
C1 - Phenanthrene/Anthracene					
C2 - Phenanthrene/Anthracene					
C3 - Phenanthrene/Anthracene					
C4 - Phenanthrene/Anthracene					
C0 - Dibenzothiophene					
C1 - Dibenzothiophene					
C2 - Dibenzothiophene					
C3 - Dibenzothiophene					
C0 - Fluoranthene/Pyrene					
C1 - Fluoranthene/Pyrene					
C2 - Fluoranthene/Pyrene					
C3 - Fluoranthene/Pyrene					
C0 - Benz(a)anthracene/Chrysene					
C1 - Benz(a)anthracene/Chrysene					
C2 - Benz(a)anthracene/Chrysene					
C3 - Benz(a)anthracene/Chrysene					
C4 - Benz(a)anthracene/Chrysene					

**Table 5. Normalized Data for Factor Analysis**

Field ID:	BSD7 (0-2)	BSD8 (0-2)	BSDS9 (0-2)	MW10D (12-13)
Acenaphthylene		0.002		0.005
Acenaphthene		0.003		0.038
Dibenzofuran		0.001		0.000
Phenanthrene		0.051		0.123
Anthracene		0.006		0.032
Fluoranthene		0.092		0.058
Pyrene		0.078		0.099
Benz[a]anthracene		0.033		0.054
Chrysene		0.041		0.057
Benzo[b]fluoranthene		0.048		0.024
Benzo[k]fluoranthene		0.027		0.025
Benzo(e)pyrene		0.031		0.021
Benzo[a]pyrene		0.042		0.032
Perylene		0.013		0.005
Indeno[1,2,3-cd]pyrene		0.034		0.006
Dibenz[a,h]anthracene		0.007		0.001
Benzo[g,h,i]perylene		0.031		0.006
C0 - Naphthalene		0.000		0.029
C1 - Naphthalene		0.001		0.006
C2 - Naphthalene		0.001		0.009
C3- Naphthalene		0.001		0.002
C4- Naphthalene		0.000		0.001
C0 - Fluorene		0.004		0.021
C1 - Fluorene		0.003		0.003
C2 - Fluorene		0.003		0.000
C3 - Fluorene		0.005		0.000
C0 - Phenanthrene/Anthracene		0.057		0.123
C1 - Phenanthrene/Anthracene		0.025		0.021
C2 - Phenanthrene/Anthracene		0.013		0.005
C3 - Phenanthrene/Anthracene		0.005		0.001
C4 - Phenanthrene/Anthracene		0.001		0.001
C0 - Dibenzothiophene		0.003		0.008
C1 - Dibenzothiophene		0.003		0.000
C2 - Dibenzothiophene		0.004		0.001
C3 - Dibenzothiophene		0.002		0.001
C0 - Fluoranthene/Pyrene		0.175		0.099
C1 - Fluoranthene/Pyrene		0.034		0.013
C2 - Fluoranthene/Pyrene		0.015		0.002
C3 - Fluoranthene/Pyrene		0.000		0.000
C0 - Benz(a)anthracene/Chrysene		0.072		0.047
C1 - Benz(a)anthracene/Chrysene		0.019		0.019
C2 - Benz(a)anthracene/Chrysene		0.009		0.002
C3 - Benz(a)anthracene/Chrysene		0.004		0.000
C4 - Benz(a)anthracene/Chrysene		0.000		0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	MW10S (11-12)	MW11-BC (10-11)	MW1D (4.0-5.0)
Acenaphthylene	0.007	0.009	0.010
Acenaphthene	0.052	0.001	0.010
Dibenzofuran	0.004	0.001	0.000
Phenanthrene	0.125	0.011	0.076
Anthracene	0.032	0.004	0.019
Fluoranthene	0.062	0.035	0.048
Pyrene	0.099	0.105	0.076
Benz[a]anthracene	0.037	0.033	0.038
Chrysene	0.040	0.042	0.048
Benzo[b]fluoranthene	0.024	0.058	0.019
Benzo[k]fluoranthene	0.025	0.029	0.029
Benzo(e)pyrene	0.022	0.053	0.019
Benzo[a]pyrene	0.037	0.078	0.038
Perylene	0.006	0.011	0.010
Indeno[1,2,3-cd]pyrene	0.018	0.036	0.019
Dibenz[a,h]anthracene	0.006	0.010	0.010
Benzo[g,h,i]perylene	0.019	0.037	0.057
C0 - Naphthalene	0.002	0.014	0.019
C1 - Naphthalene	0.000	0.003	0.010
C2 - Naphthalene	0.009	0.002	0.000
C3- Naphthalene	0.003	0.001	0.000
C4- Naphthalene	0.001	0.001	0.000
C0 - Fluorene	0.020	0.001	0.010
C1 - Fluorene	0.008	0.004	0.010
C2 - Fluorene	0.000	0.004	0.000
C3 - Fluorene	0.002	0.005	0.000
C0 - Phenanthrene/Anthracene	0.125	0.015	0.086
C1 - Phenanthrene/Anthracene	0.021	0.012	0.048
C2 - Phenanthrene/Anthracene	0.012	0.015	0.019
C3 - Phenanthrene/Anthracene	0.003	0.008	0.000
C4 - Phenanthrene/Anthracene	0.000	0.003	0.000
C0 - Dibenzothiophene	0.013	0.003	0.000
C1 - Dibenzothiophene	0.006	0.004	0.000
C2 - Dibenzothiophene	0.002	0.004	0.000
C3 - Dibenzothiophene	0.001	0.003	0.000
C0 - Fluoranthene/Pyrene	0.099	0.148	0.133
C1 - Fluoranthene/Pyrene	0.012	0.047	0.048
C2 - Fluoranthene/Pyrene	0.001	0.023	0.010
C3 - Fluoranthene/Pyrene	0.000	0.009	0.000
C0 - Benz(a)anthracene/Chrysene	0.034	0.072	0.067
C1 - Benz(a)anthracene/Chrysene	0.011	0.031	0.019
C2 - Benz(a)anthracene/Chrysene	0.001	0.011	0.000
C3 - Benz(a)anthracene/Chrysene	0.000	0.004	0.000
C4 - Benz(a)anthracene/Chrysene	0.000	0.002	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	MW2 (10.0-12.4)	MW3 (12.0-13.8)	MW3D (10.0-12.0)
Acenaphthylene	0.004	0.003	0.003
Acenaphthene	0.050	0.043	0.049
Dibenzofuran	0.003	0.004	0.003
Phenanthrene	0.094	0.075	0.077
Anthracene	0.032	0.026	0.025
Fluoranthene	0.030	0.026	0.022
Pyrene	0.053	0.043	0.039
Benz[a]anthracene	0.019	0.017	0.014
Chrysene	0.025	0.022	0.019
Benzo[b]fluoranthene	0.005	0.004	0.004
Benzo[k]fluoranthene	0.010	0.011	0.009
Benzo(e)pyrene	0.007	0.007	0.007
Benzo[a]pyrene	0.012	0.012	0.012
Perylene	0.002	0.002	0.002
Indeno[1,2,3-cd]pyrene	0.003	0.003	0.004
Dibenz[a,h]anthracene	0.001	0.001	0.001
Benzo[g,h,i]perylene	0.004	0.004	0.005
C0 - Naphthalene	0.020	0.152	0.181
C1 - Naphthalene	0.026	0.052	0.059
C2 - Naphthalene	0.042	0.037	0.042
C3- Naphthalene	0.019	0.015	0.017
C4- Naphthalene	0.005	0.004	0.005
C0 - Fluorene	0.024	0.021	0.021
C1 - Fluorene	0.031	0.019	0.021
C2 - Fluorene	0.013	0.011	0.011
C3 - Fluorene	0.007	0.004	0.004
C0 - Phenanthrene/Anthracene	0.125	0.100	0.101
C1 - Phenanthrene/Anthracene	0.063	0.050	0.048
C2 - Phenanthrene/Anthracene	0.026	0.022	0.020
C3 - Phenanthrene/Anthracene	0.007	0.007	0.005
C4 - Phenanthrene/Anthracene	0.002	0.002	0.001
C0 - Dibenzothiophene	0.009	0.006	0.006
C1 - Dibenzothiophene	0.009	0.006	0.006
C2 - Dibenzothiophene	0.006	0.005	0.004
C3 - Dibenzothiophene	0.003	0.002	0.001
C0 - Fluoranthene/Pyrene	0.093	0.080	0.070
C1 - Fluoranthene/Pyrene	0.041	0.034	0.030
C2 - Fluoranthene/Pyrene	0.013	0.012	0.009
C3 - Fluoranthene/Pyrene	0.004	0.004	0.002
C0 - Benz(a)anthracene/Chrysene	0.036	0.032	0.027
C1 - Benz(a)anthracene/Chrysene	0.016	0.015	0.012
C2 - Benz(a)anthracene/Chrysene	0.005	0.006	0.004
C3 - Benz(a)anthracene/Chrysene	0.001	0.001	0.001
C4 - Benz(a)anthracene/Chrysene	0.000	0.000	0.001

**Table 5. Normalized Data for Factor Analysis**

Field ID:	MW3S-CH(10-12)	MW3S-CH(17.6-18.0)	MW4 (12.0-13.1)
Acenaphthylene	0.003	0.005	0.004
Acenaphthene	0.059	0.007	0.052
Dibenzofuran	0.011	0.006	0.003
Phenanthrene	0.059	0.048	0.085
Anthracene	0.017	0.005	0.029
Fluoranthene	0.034	0.018	0.028
Pyrene	0.048	0.020	0.047
Benz[a]anthracene	0.020	0.010	0.018
Chrysene	0.019	0.011	0.023
Benzo[b]fluoranthene	0.012	0.006	0.005
Benzo[k]fluoranthene	0.011	0.006	0.011
Benzo(e)pyrene	0.012	0.005	0.007
Benzo[a]pyrene	0.018	0.011	0.012
Perylene	0.005	0.005	0.002
Indeno[1,2,3-cd]pyrene	0.010	0.004	0.003
Dibenz[a,h]anthracene	0.002	0.001	0.001
Benzo[g,h,i]perylene	0.010	0.007	0.004
C0 - Naphthalene	0.135	0.221	0.050
C1 - Naphthalene	0.069	0.143	0.054
C2 - Naphthalene	0.024	0.068	0.043
C3- Naphthalene	0.010	0.034	0.020
C4- Naphthalene	0.002	0.012	0.007
C0 - Fluorene	0.021	0.019	0.023
C1 - Fluorene	0.011	0.005	0.025
C2 - Fluorene	0.007	0.003	0.012
C3 - Fluorene	0.003	0.009	0.006
C0 - Phenanthrene/Anthracene	0.078	0.005	0.112
C1 - Phenanthrene/Anthracene	0.044	0.027	0.057
C2 - Phenanthrene/Anthracene	0.024	0.049	0.025
C3 - Phenanthrene/Anthracene	0.008	0.032	0.008
C4 - Phenanthrene/Anthracene	0.000	0.015	0.002
C0 - Dibenzothiophene	0.003	0.020	0.007
C1 - Dibenzothiophene	0.003	0.030	0.007
C2 - Dibenzothiophene	0.002	0.020	0.006
C3 - Dibenzothiophene	0.000	0.028	0.002
C0 - Fluoranthene/Pyrene	0.092	0.020	0.088
C1 - Fluoranthene/Pyrene	0.036	0.007	0.038
C2 - Fluoranthene/Pyrene	0.013	0.005	0.012
C3 - Fluoranthene/Pyrene	0.004	0.005	0.004
C0 - Benz(a)anthracene/Chrysene	0.037	0.029	0.034
C1 - Benz(a)anthracene/Chrysene	0.016	0.001	0.016
C2 - Benz(a)anthracene/Chrysene	0.006	0.013	0.005
C3 - Benz(a)anthracene/Chrysene	0.000	0.002	0.001
C4 - Benz(a)anthracene/Chrysene	0.000	0.000	0.000



**Table 5. Normalized Data for Factor Analysis**

Field ID:	MW4-CH (6-8)	MW5 (14.0-16.0)	MW5D (2.0-4.0)
Acenaphthylene	0.006	0.007	0.024
Acenaphthene	0.004	0.033	0.003
Dibenzofuran	0.002	0.003	0.002
Phenanthrene	0.037	0.068	0.071
Anthracene	0.008	0.023	0.074
Fluoranthene	0.062	0.024	0.020
Pyrene	0.067	0.040	0.045
Benz[a]anthracene	0.034	0.016	0.013
Chrysene	0.037	0.020	0.016
Benzo[b]fluoranthene	0.036	0.004	0.005
Benzo[k]fluoranthene	0.032	0.011	0.010
Benzo(e)pyrene	0.031	0.007	0.008
Benzo[a]pyrene	0.042	0.012	0.013
Perylene	0.011	0.002	0.002
Indeno[1,2,3-cd]pyrene	0.036	0.003	0.005
Dibenz[a,h]anthracene	0.009	0.001	0.002
Benzo[g,h,i]perylene	0.038	0.004	0.005
C0 - Naphthalene	0.004	0.248	0.275
C1 - Naphthalene	0.002	0.080	0.086
C2 - Naphthalene	0.006	0.027	0.024
C3- Naphthalene	0.013	0.008	0.005
C4- Naphthalene	0.014	0.001	0.000
C0 - Fluorene	0.004	0.018	0.017
C1 - Fluorene	0.009	0.014	0.007
C2 - Fluorene	0.009	0.006	0.001
C3 - Fluorene	0.010	0.002	0.000
C0 - Phenanthrene/Anthracene	0.044	0.090	0.090
C1 - Phenanthrene/Anthracene	0.025	0.039	0.031
C2 - Phenanthrene/Anthracene	0.018	0.015	0.008
C3 - Phenanthrene/Anthracene	0.011	0.004	0.000
C4 - Phenanthrene/Anthracene	0.003	0.000	0.000
C0 - Dibenzothiophene	0.003	0.005	0.006
C1 - Dibenzothiophene	0.005	0.004	0.005
C2 - Dibenzothiophene	0.006	0.002	0.002
C3 - Dibenzothiophene	0.002	0.001	0.000
C0 - Fluoranthene/Pyrene	0.135	0.073	0.068
C1 - Fluoranthene/Pyrene	0.042	0.028	0.022
C2 - Fluoranthene/Pyrene	0.021	0.008	0.005
C3 - Fluoranthene/Pyrene	0.012	0.002	0.000
C0 - Benz(a)anthracene/Chrysene	0.068	0.030	0.025
C1 - Benz(a)anthracene/Chrysene	0.026	0.013	0.008
C2 - Benz(a)anthracene/Chrysene	0.009	0.004	0.001
C3 - Benz(a)anthracene/Chrysene	0.003	0.000	0.000
C4 - Benz(a)anthracene/Chrysene	0.002	0.000	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	MW6D (4.0-6.0)	MW6IO (4.0-6.0)	MW7 (10-12)
Acenaphthylene	0.011	0.012	0.009
Acenaphthene	0.034	0.011	0.020
Dibenzofuran	0.003	0.001	0.021
Phenanthrene	0.091	0.004	0.069
Anthracene	0.029	0.009	0.034
Fluoranthene	0.022	0.030	0.038
Pyrene	0.049	0.063	0.031
Benz[a]anthracene	0.014	0.021	0.020
Chrysene	0.018	0.032	0.023
Benzo[b]fluoranthene	0.004	0.013	0.006
Benzo[k]fluoranthene	0.010	0.019	0.011
Benzo(e)pyrene	0.008	0.019	0.005
Benzo[a]pyrene	0.014	0.022	0.009
Perylene	0.002	0.004	0.002
Indeno[1,2,3-cd]pyrene	0.005	0.017	0.004
Dibenz[a,h]anthracene	0.001	0.005	0.002
Benzo[g,h,i]perylene	0.006	0.026	0.003
C0 - Naphthalene	0.160	0.001	0.038
C1 - Naphthalene	0.080	0.001	0.034
C2 - Naphthalene	0.041	0.011	0.041
C3- Naphthalene	0.013	0.065	0.021
C4- Naphthalene	0.002	0.080	0.006
C0 - Fluorene	0.022	0.004	0.036
C1 - Fluorene	0.015	0.021	0.029
C2 - Fluorene	0.005	0.037	0.014
C3 - Fluorene	0.000	0.029	0.010
C0 - Phenanthrene/Anthracene	0.119	0.012	0.105
C1 - Phenanthrene/Anthracene	0.044	0.024	0.060
C2 - Phenanthrene/Anthracene	0.012	0.047	0.034
C3 - Phenanthrene/Anthracene	0.002	0.030	0.011
C4 - Phenanthrene/Anthracene	0.000	0.011	0.004
C0 - Dibenzothiophene	0.006	0.003	0.008
C1 - Dibenzothiophene	0.004	0.012	0.009
C2 - Dibenzothiophene	0.001	0.018	0.007
C3 - Dibenzothiophene	0.000	0.011	0.004
C0 - Fluoranthene/Pyrene	0.079	0.097	0.077
C1 - Fluoranthene/Pyrene	0.029	0.055	0.046
C2 - Fluoranthene/Pyrene	0.007	0.025	0.020
C3 - Fluoranthene/Pyrene	0.001	0.010	0.008
C0 - Benz(a)anthracene/Chrysene	0.026	0.043	0.035
C1 - Benz(a)anthracene/Chrysene	0.010	0.028	0.021
C2 - Benz(a)anthracene/Chrysene	0.003	0.011	0.012
C3 - Benz(a)anthracene/Chrysene	0.000	0.004	0.006
C4 - Benz(a)anthracene/Chrysene	0.000	0.001	0.002

**Table 5. Normalized Data for Factor Analysis**

Field ID:	MW7D (14.0-16.0)	MW8D (10.0-11.3)	SB1 (10-12)
Acenaphthylene	0.004	0.004	0.002
Acenaphthene	0.036	0.039	0.010
Dibenzofuran	0.003	0.003	0.004
Phenanthrene	0.088	0.081	0.039
Anthracene	0.027	0.027	0.009
Fluoranthene	0.031	0.027	0.008
Pyrene	0.053	0.045	0.016
Benz[a]anthracene	0.021	0.015	0.006
Chrysene	0.028	0.019	0.008
Benzo[b]fluoranthene	0.008	0.004	0.001
Benzo[k]fluoranthene	0.014	0.007	0.002
Benzo(e)pyrene	0.011	0.005	0.002
Benzo[a]pyrene	0.017	0.008	0.002
Perylene	0.003	0.001	0.000
Indeno[1,2,3-cd]pyrene	0.006	0.003	0.001
Dibenz[a,h]anthracene	0.002	0.001	0.000
Benzo[g,h,i]perylene	0.007	0.003	0.001
C0 - Naphthalene	0.049	0.043	0.006
C1 - Naphthalene	0.038	0.047	0.049
C2 - Naphthalene	0.031	0.059	0.132
C3- Naphthalene	0.013	0.042	0.146
C4- Naphthalene	0.004	0.021	0.082
C0 - Fluorene	0.021	0.022	0.013
C1 - Fluorene	0.021	0.029	0.023
C2 - Fluorene	0.010	0.015	0.038
C3 - Fluorene	0.010	0.011	0.032
C0 - Phenanthrene/Anthracene	0.114	0.104	0.049
C1 - Phenanthrene/Anthracene	0.056	0.059	0.063
C2 - Phenanthrene/Anthracene	0.023	0.034	0.055
C3 - Phenanthrene/Anthracene	0.008	0.015	0.035
C4 - Phenanthrene/Anthracene	0.003	0.007	0.018
C0 - Dibenzothiophene	0.008	0.006	0.006
C1 - Dibenzothiophene	0.007	0.007	0.016
C2 - Dibenzothiophene	0.005	0.007	0.021
C3 - Dibenzothiophene	0.002	0.004	0.013
C0 - Fluoranthene/Pyrene	0.094	0.079	0.027
C1 - Fluoranthene/Pyrene	0.040	0.033	0.016
C2 - Fluoranthene/Pyrene	0.014	0.012	0.012
C3 - Fluoranthene/Pyrene	0.005	0.005	0.007
C0 - Benz(a)anthracene/Chrysene	0.040	0.028	0.011
C1 - Benz(a)anthracene/Chrysene	0.018	0.013	0.008
C2 - Benz(a)anthracene/Chrysene	0.006	0.005	0.005
C3 - Benz(a)anthracene/Chrysene	0.002	0.002	0.002
C4 - Benz(a)anthracene/Chrysene	0.000	0.001	0.001

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SB11 (4.0-6.0)	SB13 (8-10)	SB130 (8-10)	SB14 (8-12)
Acenaphthylene	0.012	0.006	0.007	0.008
Acenaphthene	0.033	0.011	0.012	0.008
Dibenzofuran	0.003	0.004	0.003	0.004
Phenanthrene	0.076	0.026	0.017	0.066
Anthracene	0.025	0.012	0.011	0.035
Fluoranthene	0.024	0.047	0.029	0.047
Pyrene	0.052	0.070	0.060	0.070
Benz[a]anthracene	0.016	0.047	0.027	0.031
Chrysene	0.016	0.046	0.027	0.030
Benzo[b]fluoranthene	0.006	0.033	0.024	0.019
Benzo[k]fluoranthene	0.009	0.015	0.012	0.013
Benzo[e]pyrene	0.010	0.023	0.020	0.018
Benzo[a]pyrene	0.015	0.038	0.027	0.032
Perylene	0.002	0.006	0.004	0.005
Indeno[1,2,3-cd]pyrene	0.005	0.009	0.008	0.013
Dibenz[a,h]anthracene	0.002	0.003	0.002	0.004
Benzo[g,h,i]perylene	0.007	0.008	0.008	0.014
C0 - Naphthalene	0.028	0.005	0.001	0.001
C1 - Naphthalene	0.040	0.007	0.013	0.007
C2 - Naphthalene	0.065	0.012	0.029	0.013
C3- Naphthalene	0.037	0.015	0.079	0.013
C4- Naphthalene	0.010	0.008	0.050	0.004
C0 - Fluorene	0.018	0.007	0.012	0.027
C1 - Fluorene	0.036	0.009	0.019	0.014
C2 - Fluorene	0.016	0.008	0.022	0.007
C3 - Fluorene	0.005	0.007	0.018	0.004
C0 - Phenanthrene/Anthracene	0.100	0.039	0.030	0.105
C1 - Phenanthrene/Anthracene	0.074	0.033	0.044	0.072
C2 - Phenanthrene/Anthracene	0.029	0.033	0.043	0.030
C3 - Phenanthrene/Anthracene	0.005	0.015	0.020	0.009
C4 - Phenanthrene/Anthracene	0.001	0.006	0.007	0.001
C0 - Dibenzothiophene	0.008	0.003	0.004	0.009
C1 - Dibenzothiophene	0.009	0.004	0.010	0.009
C2 - Dibenzothiophene	0.005	0.006	0.014	0.006
C3 - Dibenzothiophene	0.001	0.005	0.008	0.003
C0 - Fluoranthene/Pyrene	0.086	0.130	0.099	0.125
C1 - Fluoranthene/Pyrene	0.046	0.068	0.053	0.047
C2 - Fluoranthene/Pyrene	0.014	0.028	0.022	0.015
C3 - Fluoranthene/Pyrene	0.004	0.008	0.009	0.004
C0 - Benz(a)anthracene/Chrysene	0.028	0.090	0.053	0.028
C1 - Benz(a)anthracene/Chrysene	0.017	0.035	0.027	0.024
C2 - Benz(a)anthracene/Chrysene	0.006	0.011	0.010	0.007
C3 - Benz(a)anthracene/Chrysene	0.002	0.004	0.004	0.001
C4 - Benz(a)anthracene/Chrysene	0.001	0.001	0.001	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SB15 (12-15.2)	SB16 (8-10)	SB17 (10-12)	SB18 (11-11.5)
Acenaphthylene	0.005	0.005	0.014	0.005
Acenaphthene	0.053	0.019	0.028	0.011
Dibenzofuran	0.006	0.002	0.032	0.008
Phenanthrene	0.130	0.061	0.118	0.108
Anthracene	0.030	0.021	0.043	0.039
Fluoranthene	0.049	0.042	0.060	0.100
Pyrene	0.076	0.084	0.047	0.088
Benz[a]anthracene	0.034	0.037	0.039	0.054
Chrysene	0.033	0.030	0.041	0.057
Benzo[b]fluoranthene	0.014	0.017	0.028	0.051
Benzo[k]fluoranthene	0.015	0.008	0.029	0.053
Benzo(e)pyrene	0.020	0.014	0.014	0.028
Benzo[a]pyrene	0.020	0.021	0.025	0.028
Perylene	0.003	0.003	0.005	0.010
Indeno[1,2,3-cd]pyrene	0.005	0.004	0.007	0.001
Dibenz[a,h]anthracene	0.001	0.001	0.004	0.008
Benzo[g,h,i]perylene	0.004	0.004	0.005	0.002
C0 - Naphthalene	0.125	0.000	0.073	0.001
C1 - Naphthalene	0.042	0.003	0.047	0.000
C2 - Naphthalene	0.010	0.008	0.008	0.005
C3- Naphthalene	0.002	0.015	0.004	0.003
C4- Naphthalene	0.001	0.005	0.001	0.001
C0 - Fluorene	0.029	0.007	0.053	0.021
C1 - Fluorene	0.004	0.019	0.005	0.008
C2 - Fluorene	0.000	0.010	0.001	0.001
C3 - Fluorene	0.002	0.004	0.001	0.002
C0 - Phenanthrene/Anthracene	0.130	0.084	0.118	0.108
C1 - Phenanthrene/Anthracene	0.020	0.065	0.022	0.018
C2 - Phenanthrene/Anthracene	0.005	0.033	0.007	0.007
C3 - Phenanthrene/Anthracene	0.001	0.010	0.003	0.003
C4 - Phenanthrene/Anthracene	0.000	0.002	0.001	0.001
C0 - Dibenzothiophene	0.010	0.006	0.011	0.008
C1 - Dibenzothiophene	0.000	0.008	0.002	0.002
C2 - Dibenzothiophene	0.001	0.006	0.000	0.001
C3 - Dibenzothiophene	0.001	0.004	0.001	0.000
C0 - Fluoranthene/Pyrene	0.076	0.142	0.047	0.088
C1 - Fluoranthene/Pyrene	0.006	0.067	0.007	0.008
C2 - Fluoranthene/Pyrene	0.001	0.022	0.001	0.001
C3 - Fluoranthene/Pyrene	0.000	0.006	0.001	0.001
C0 - Benz(a)anthracene/Chrysene	0.031	0.064	0.031	0.045
C1 - Benz(a)anthracene/Chrysene	0.004	0.028	0.015	0.015
C2 - Benz(a)anthracene/Chrysene	0.001	0.007	0.002	0.003
C3 - Benz(a)anthracene/Chrysene	0.000	0.002	0.000	0.000
C4 - Benz(a)anthracene/Chrysene	0.000	0.001	0.000	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SB19 (6.0-6.2)	SB2 (8.5-10)	SB20 (7.3-7.4)	SB21 (6.3-6.6)
Acenaphthylene		0.004	0.017	0.002
Acenaphthene		0.016	0.015	0.007
Dibenzofuran		0.004	0.003	0.005
Phenanthrene		0.044	0.076	0.083
Anthracene		0.016	0.018	0.015
Fluoranthene		0.018	0.024	0.072
Pyrene		0.034	0.057	0.064
Benz[a]anthracene		0.013	0.019	0.033
Chrysene		0.017	0.020	0.035
Benzo[b]fluoranthene		0.003	0.011	0.030
Benzo[k]fluoranthene		0.005	0.008	0.025
Benzo(e)pyrene		0.005	0.026	0.023
Benzo[a]pyrene		0.006	0.021	0.032
Perylene		0.001	0.003	0.009
Indeno[1,2,3-cd]pyrene		0.002	0.013	0.023
Dibenz[a,h]anthracene		0.001	0.003	0.006
Benzo[g,h,i]perylene		0.003	0.018	0.022
C0 - Naphthalene		0.000	0.042	0.006
C1 - Naphthalene		0.011	0.042	0.004
C2 - Naphthalene		0.032	0.028	0.004
C3- Naphthalene		0.087	0.014	0.003
C4- Naphthalene		0.064	0.009	0.000
C0 - Fluorene		0.013	0.015	0.008
C1 - Fluorene		0.023	0.009	0.003
C2 - Fluorene		0.036	0.007	0.007
C3 - Fluorene		0.036	0.008	0.000
C0 - Phenanthrene/Anthracene		0.060	0.095	0.097
C1 - Phenanthrene/Anthracene		0.074	0.054	0.034
C2 - Phenanthrene/Anthracene		0.068	0.031	0.018
C3 - Phenanthrene/Anthracene		0.043	0.015	0.008
C4 - Phenanthrene/Anthracene		0.025	0.008	0.005
C0 - Dibenzothiophene		0.006	0.004	0.005
C1 - Dibenzothiophene		0.016	0.005	0.004
C2 - Dibenzothiophene		0.023	0.005	0.004
C3 - Dibenzothiophene		0.016	0.003	0.003
C0 - Fluoranthene/Pyrene		0.057	0.095	0.145
C1 - Fluoranthene/Pyrene		0.031	0.048	0.025
C2 - Fluoranthene/Pyrene		0.019	0.023	0.024
C3 - Fluoranthene/Pyrene		0.011	0.011	0.008
C0 - Benz(a)anthracene/Chrysene		0.025	0.039	0.066
C1 - Benz(a)anthracene/Chrysene		0.016	0.022	0.023
C2 - Benz(a)anthracene/Chrysene		0.007	0.010	0.005
C3 - Benz(a)anthracene/Chrysene		0.004	0.005	0.004
C4 - Benz(a)anthracene/Chrysene		0.003	0.002	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SB22 (7.0-7.3)	SB23 (13-14)	SB25 (12-16)	SB26 (16-20)
Acenaphthylene	0.007	0.003	0.004	0.006
Acenaphthene	0.003	0.048	0.003	0.007
Dibenzofuran	0.001	0.003	0.000	0.006
Phenanthrene	0.065	0.084	0.045	0.045
Anthracene	0.012	0.023	0.014	0.042
Fluoranthene	0.096	0.025	0.043	0.018
Pyrene	0.107	0.041	0.090	0.029
Benz[a]anthracene	0.071	0.016	0.028	0.054
Chrysene	0.075	0.015	0.025	0.058
Benzo[b]fluoranthene	0.068	0.007	0.012	0.007
Benzo[k]fluoranthene	0.071	0.007	0.012	0.007
Benzo(e)pyrene	0.032	0.008	0.019	0.010
Benzo[a]pyrene	0.044	0.015	0.031	0.010
Perylene	0.011	0.002	0.005	0.010
Indeno[1,2,3-cd]pyrene	0.015	0.005	0.011	0.001
Dibenz[a,h]anthracene	0.006	0.001	0.003	0.001
Benzo[g,h,i]perylene	0.011	0.006	0.014	0.008
C0 - Naphthalene	0.001	0.133	0.001	0.130
C1 - Naphthalene	0.000	0.067	0.001	0.054
C2 - Naphthalene	0.001	0.038	0.003	0.035
C3- Naphthalene	0.001	0.014	0.013	0.020
C4- Naphthalene	0.000	0.004	0.006	0.006
C0 - Fluorene	0.005	0.020	0.001	0.016
C1 - Fluorene	0.002	0.017	0.020	0.009
C2 - Fluorene	0.000	0.009	0.016	0.004
C3 - Fluorene	0.002	0.004	0.006	0.000
C0 - Phenanthrene/Anthracene	0.065	0.109	0.060	0.045
C1 - Phenanthrene/Anthracene	0.013	0.052	0.086	0.029
C2 - Phenanthrene/Anthracene	0.004	0.022	0.042	0.045
C3 - Phenanthrene/Anthracene	0.002	0.006	0.010	0.059
C4 - Phenanthrene/Anthracene	0.001	0.001	0.000	0.010
C0 - Dibenzothiophene	0.004	0.007	0.004	0.014
C1 - Dibenzothiophene	0.002	0.007	0.010	0.029
C2 - Dibenzothiophene	0.001	0.005	0.008	0.015
C3 - Dibenzothiophene	0.000	0.002	0.002	0.024
C0 - Fluoranthene/Pyrene	0.107	0.079	0.159	0.029
C1 - Fluoranthene/Pyrene	0.008	0.035	0.075	0.009
C2 - Fluoranthene/Pyrene	0.003	0.011	0.024	0.000
C3 - Fluoranthene/Pyrene	0.001	0.003	0.006	0.000
C0 - Benz(a)anthracene/Chrysene	0.068	0.030	0.052	0.050
C1 - Benz(a)anthracene/Chrysene	0.015	0.013	0.024	0.039
C2 - Benz(a)anthracene/Chrysene	0.002	0.003	0.009	0.010
C3 - Benz(a)anthracene/Chrysene	0.000	0.000	0.000	0.000
C4 - Benz(a)anthracene/Chrysene	0.000	0.000	0.000	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SB28 (7-10)	SB29 (10-12)	SB3 (14.0-15.9)	SB31 (9-9.5)
Acenaphthylene	0.022	0.009	0.009	0.014
Acenaphthene	0.002	0.021	0.003	0.006
Dibenzofuran	0.000	0.001	0.002	0.002
Phenanthrene	0.004	0.065	0.038	0.022
Anthracene	0.004	0.035	0.013	0.008
Fluoranthene	0.002	0.039	0.021	0.047
Pyrene	0.047	0.064	0.096	0.061
Benz[a]anthracene	0.009	0.031	0.024	0.035
Chrysene	0.020	0.028	0.033	0.039
Benzo[b]fluoranthene	0.022	0.024	0.009	0.037
Benzo[k]fluoranthene	0.011	0.012	0.012	0.033
Benzo(e)pyrene	0.080	0.021	0.017	0.037
Benzo[a]pyrene	0.049	0.033	0.018	0.049
Perylene	0.009	0.005	0.003	0.012
Indeno[1,2,3-cd]pyrene	0.089	0.009	0.007	0.031
Dibenz[a,h]anthracene	0.018	0.002	0.003	0.008
Benzo[g,h,i]perylene	0.129	0.008	0.011	0.035
C0 - Naphthalene	0.002	0.014	0.001	0.004
C1 - Naphthalene	0.002	0.012	0.007	0.002
C2 - Naphthalene	0.004	0.019	0.023	0.031
C3- Naphthalene	0.002	0.014	0.017	0.045
C4- Naphthalene	0.000	0.006	0.009	0.031
C0 - Fluorene	0.000	0.014	0.007	0.002
C1 - Fluorene	0.000	0.014	0.020	0.008
C2 - Fluorene	0.000	0.007	0.017	0.002
C3 - Fluorene	0.002	0.005	0.014	0.002
C0 - Phenanthrene/Anthracene	0.009	0.102	0.049	0.029
C1 - Phenanthrene/Anthracene	0.011	0.044	0.058	0.022
C2 - Phenanthrene/Anthracene	0.011	0.024	0.048	0.018
C3 - Phenanthrene/Anthracene	0.031	0.010	0.032	0.008
C4 - Phenanthrene/Anthracene	0.027	0.003	0.013	0.000
C0 - Dibenzothiophene	0.000	0.004	0.000	0.004
C1 - Dibenzothiophene	0.000	0.005	0.001	0.004
C2 - Dibenzothiophene	0.002	0.004	0.003	0.004
C3 - Dibenzothiophene	0.009	0.003	0.003	0.000
C0 - Fluoranthene/Pyrene	0.062	0.119	0.118	0.119
C1 - Fluoranthene/Pyrene	0.067	0.050	0.074	0.041
C2 - Fluoranthene/Pyrene	0.060	0.018	0.037	0.022
C3 - Fluoranthene/Pyrene	0.045	0.005	0.019	0.014
C0 - Benz(a)anthracene/Chrysene	0.029	0.059	0.045	0.070
C1 - Benz(a)anthracene/Chrysene	0.040	0.025	0.038	0.029
C2 - Benz(a)anthracene/Chrysene	0.033	0.008	0.020	0.012
C3 - Benz(a)anthracene/Chrysene	0.020	0.003	0.006	0.002
C4 - Benz(a)anthracene/Chrysene	0.011	0.001	0.000	0.000



**Table 5. Normalized Data for Factor Analysis**

Field ID:	SB4 (4.0-6.0)	SB5 (4.0-6.0)	SB6 (10.4-12.2)	SB8 (4.0-6.0)
Acenaphthylene	0.046	0.013	0.012	0.005
Acenaphthene	0.004	0.024	0.000	0.040
Dibenzofuran	0.003	0.003	0.000	0.004
Phenanthrene	0.090	0.066	0.071	0.108
Anthracene	0.025	0.021	0.024	0.032
Fluoranthene	0.026	0.019	0.047	0.031
Pyrene	0.049	0.041	0.094	0.058
Benz[a]anthracene	0.014	0.014	0.035	0.018
Chrysene	0.018	0.019	0.059	0.025
Benzo[b]fluoranthene	0.005	0.006	0.012	0.005
Benzo[k]fluoranthene	0.012	0.010	0.035	0.013
Benzo(e)pyrene	0.009	0.009	0.024	0.009
Benzo[a]pyrene	0.013	0.014	0.024	0.014
Perylene	0.002	0.002	0.000	0.002
Indeno[1,2,3-cd]pyrene	0.006	0.005	0.012	0.005
Dibenz[a,h]anthracene	0.002	0.001	0.000	0.002
Benzo[g,h,i]perylene	0.007	0.006	0.012	0.005
C0 - Naphthalene	0.110	0.110	0.012	0.043
C1 - Naphthalene	0.080	0.085	0.012	0.034
C2 - Naphthalene	0.043	0.073	0.000	0.034
C3- Naphthalene	0.015	0.044	0.000	0.013
C4- Naphthalene	0.004	0.018	0.000	0.002
C0 - Fluorene	0.028	0.020	0.012	0.023
C1 - Fluorene	0.021	0.022	0.012	0.018
C2 - Fluorene	0.006	0.011	0.000	0.007
C3 - Fluorene	0.004	0.005	0.000	0.005
C0 - Phenanthrene/Anthracene	0.113	0.085	0.094	0.139
C1 - Phenanthrene/Anthracene	0.048	0.050	0.059	0.058
C2 - Phenanthrene/Anthracene	0.014	0.020	0.024	0.020
C3 - Phenanthrene/Anthracene	0.003	0.006	0.000	0.005
C4 - Phenanthrene/Anthracene	0.000	0.001	0.000	0.000
C0 - Dibenzothiophene	0.007	0.005	0.000	0.009
C1 - Dibenzothiophene	0.007	0.007	0.000	0.007
C2 - Dibenzothiophene	0.004	0.005	0.000	0.004
C3 - Dibenzothiophene	0.001	0.002	0.000	0.000
C0 - Fluoranthene/Pyrene	0.083	0.066	0.153	0.095
C1 - Fluoranthene/Pyrene	0.030	0.031	0.059	0.036
C2 - Fluoranthene/Pyrene	0.008	0.010	0.012	0.011
C3 - Fluoranthene/Pyrene	0.002	0.003	0.000	0.004
C0 - Benz(a)anthracene/Chrysene	0.027	0.027	0.071	0.036
C1 - Benz(a)anthracene/Chrysene	0.009	0.013	0.024	0.014
C2 - Benz(a)anthracene/Chrysene	0.004	0.004	0.000	0.005
C3 - Benz(a)anthracene/Chrysene	0.001	0.001	0.000	0.000
C4 - Benz(a)anthracene/Chrysene	0.000	0.001	0.000	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SB9 (14.0-15.5)	SD1 (0.0-0.2)	SD1 (0.4-1.4)	SD10 (0.0-0.4)
Acenaphthylene		0.011	0.011	0.007
Acenaphthene		0.004	0.011	0.005
Dibenzofuran		0.001	0.001	0.001
Phenanthrene		0.048	0.016	0.050
Anthracene		0.014	0.011	0.013
Fluoranthene		0.075	0.055	0.079
Pyrene		0.080	0.085	0.078
Benz[a]anthracene		0.034	0.032	0.038
Chrysene		0.049	0.040	0.055
Benzo[b]fluoranthene		0.024	0.018	0.026
Benzo[k]fluoranthene		0.035	0.026	0.032
Benzo(e)pyrene		0.027	0.024	0.021
Benzo[a]pyrene		0.038	0.036	0.033
Perylene		0.010	0.033	0.013
Indeno[1,2,3-cd]pyrene		0.020	0.017	0.021
Dibenz[a,h]anthracene		0.007	0.007	0.007
Benzo[g,h,i]perylene		0.016	0.017	0.023
C0 - Naphthalene		0.001	0.003	0.001
C1 - Naphthalene		0.001	0.003	0.001
C2 - Naphthalene		0.002	0.008	0.003
C3- Naphthalene		0.002	0.011	0.003
C4- Naphthalene		0.001	0.005	0.001
C0 - Fluorene		0.005	0.003	0.005
C1 - Fluorene		0.006	0.019	0.006
C2 - Fluorene		0.005	0.013	0.005
C3 - Fluorene		0.007	0.009	0.006
C0 - Phenanthrene/Anthracene		0.062	0.027	0.064
C1 - Phenanthrene/Anthracene		0.026	0.032	0.023
C2 - Phenanthrene/Anthracene		0.020	0.032	0.014
C3 - Phenanthrene/Anthracene		0.010	0.014	0.006
C4 - Phenanthrene/Anthracene		0.003	0.004	0.002
C0 - Dibenzothiophene		0.003	0.005	0.003
C1 - Dibenzothiophene		0.003	0.007	0.004
C2 - Dibenzothiophene		0.004	0.007	0.004
C3 - Dibenzothiophene		0.002	0.003	0.004
C0 - Fluoranthene/Pyrene		0.158	0.150	0.159
C1 - Fluoranthene/Pyrene		0.049	0.066	0.041
C2 - Fluoranthene/Pyrene		0.018	0.023	0.019
C3 - Fluoranthene/Pyrene		0.007	0.007	0.008
C0 - Benz(a)anthracene/Chrysene		0.068	0.061	0.075
C1 - Benz(a)anthracene/Chrysene		0.027	0.029	0.023
C2 - Benz(a)anthracene/Chrysene		0.010	0.011	0.011
C3 - Benz(a)anthracene/Chrysene		0.004	0.004	0.004
C4 - Benz(a)anthracene/Chrysene		0.001	0.001	0.002

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD10 (0.2-2.0)	SD11 (0.0-0.2)	SD11 (0.5-2.0)	SD12 (0.0-0.7)
Acenaphthylene	0.010	0.009	0.010	0.008
Acenaphthene	0.005	0.004	0.025	0.005
Dibenzofuran	0.001	0.002	0.001	0.002
Phenanthrene	0.039	0.045	0.027	0.051
Anthracene	0.014	0.013	0.014	0.013
Fluoranthene	0.064	0.076	0.043	0.081
Pyrene	0.080	0.074	0.069	0.077
Benz[a]anthracene	0.032	0.034	0.032	0.033
Chrysene	0.044	0.052	0.037	0.049
Benzo[b]fluoranthene	0.017	0.025	0.018	0.029
Benzo[k]fluoranthene	0.033	0.040	0.025	0.036
Benzo(e)pyrene	0.022	0.024	0.020	0.026
Benzo[a]pyrene	0.037	0.034	0.031	0.039
Perylene	0.010	0.018	0.020	0.017
Indeno[1,2,3-cd]pyrene	0.017	0.029	0.018	0.023
Dibenz[a,h]anthracene	0.006	0.009	0.006	0.007
Benzo[g,h,i]perylene	0.014	0.041	0.022	0.018
C0 - Naphthalene	0.001	0.002	0.017	0.002
C1 - Naphthalene	0.001	0.002	0.016	0.002
C2 - Naphthalene	0.004	0.003	0.015	0.003
C3- Naphthalene	0.005	0.003	0.014	0.003
C4- Naphthalene	0.003	0.001	0.005	0.001
C0 - Fluorene	0.004	0.005	0.004	0.005
C1 - Fluorene	0.010	0.006	0.021	0.006
C2 - Fluorene	0.009	0.003	0.014	0.005
C3 - Fluorene	0.009	0.007	0.007	0.007
C0 - Phenanthrene/Anthracene	0.053	0.058	0.040	0.064
C1 - Phenanthrene/Anthracene	0.041	0.022	0.034	0.025
C2 - Phenanthrene/Anthracene	0.030	0.016	0.028	0.016
C3 - Phenanthrene/Anthracene	0.010	0.007	0.017	0.006
C4 - Phenanthrene/Anthracene	0.003	0.002	0.007	0.002
C0 - Dibenzothiophene	0.003	0.003	0.002	0.003
C1 - Dibenzothiophene	0.007	0.003	0.003	0.004
C2 - Dibenzothiophene	0.009	0.004	0.004	0.004
C3 - Dibenzothiophene	0.003	0.003	0.003	0.002
C0 - Fluoranthene/Pyrene	0.154	0.151	0.114	0.160
C1 - Fluoranthene/Pyrene	0.060	0.036	0.057	0.037
C2 - Fluoranthene/Pyrene	0.021	0.017	0.029	0.016
C3 - Fluoranthene/Pyrene	0.006	0.006	0.010	0.007
C0 - Benz(a)anthracene/Chrysene	0.063	0.069	0.055	0.067
C1 - Benz(a)anthracene/Chrysene	0.029	0.024	0.039	0.021
C2 - Benz(a)anthracene/Chrysene	0.011	0.011	0.017	0.010
C3 - Benz(a)anthracene/Chrysene	0.004	0.006	0.005	0.005
C4 - Benz(a)anthracene/Chrysene	0.001	0.003	0.003	0.002

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD12 (4.4-4.7)	SD13 (0.0-0.2)	SD13 (0.5-2.1)	SD14 (0.0-0.2)
Acenaphthylene	0.005	0.009	0.009	0.014
Acenaphthene	0.078	0.005	0.006	0.005
Dibenzofuran	0.003	0.002	0.002	0.001
Phenanthrene	0.093	0.051	0.048	0.035
Anthracene	0.020	0.013	0.014	0.014
Fluoranthene	0.025	0.073	0.076	0.060
Pyrene	0.043	0.072	0.073	0.072
Benz[a]anthracene	0.014	0.036	0.032	0.032
Chrysene	0.017	0.056	0.045	0.045
Benzo[b]fluoranthene	0.004	0.027	0.035	0.035
Benzo[k]fluoranthene	0.008	0.043	0.039	0.038
Benzo(e)pyrene	0.005	0.031	0.030	0.033
Benzo[a]pyrene	0.010	0.038	0.044	0.049
Perylene	0.002	0.018	0.030	0.016
Indeno[1,2,3-cd]pyrene	0.003	0.009	0.018	0.011
Dibenz[a,h]anthracene	0.001	0.003	0.006	0.004
Benzo[g,h,i]perylene	0.002	0.007	0.012	0.007
C0 - Naphthalene	0.091	0.002	0.002	0.002
C1 - Naphthalene	0.093	0.002	0.002	0.002
C2 - Naphthalene	0.054	0.004	0.004	0.005
C3- Naphthalene	0.015	0.004	0.004	0.006
C4- Naphthalene	0.002	0.002	0.002	0.004
C0 - Fluorene	0.036	0.006	0.005	0.004
C1 - Fluorene	0.022	0.007	0.006	0.011
C2 - Fluorene	0.007	0.007	0.005	0.008
C3 - Fluorene	0.003	0.009	0.008	0.008
C0 - Phenanthrene/Anthracene	0.113	0.065	0.062	0.048
C1 - Phenanthrene/Anthracene	0.046	0.024	0.025	0.030
C2 - Phenanthrene/Anthracene	0.012	0.014	0.014	0.022
C3 - Phenanthrene/Anthracene	0.003	0.006	0.007	0.011
C4 - Phenanthrene/Anthracene	0.000	0.003	0.003	0.004
C0 - Dibenzothiophene	0.007	0.003	0.003	0.003
C1 - Dibenzothiophene	0.005	0.008	0.004	0.006
C2 - Dibenzothiophene	0.003	0.005	0.005	0.008
C3 - Dibenzothiophene	0.001	0.003	0.003	0.004
C0 - Fluoranthene/Pyrene	0.079	0.147	0.151	0.138
C1 - Fluoranthene/Pyrene	0.029	0.034	0.035	0.050
C2 - Fluoranthene/Pyrene	0.007	0.017	0.018	0.021
C3 - Fluoranthene/Pyrene	0.002	0.010	0.008	0.008
C0 - Benz(a)anthracene/Chrysene	0.026	0.076	0.063	0.065
C1 - Benz(a)anthracene/Chrysene	0.010	0.030	0.025	0.035
C2 - Benz(a)anthracene/Chrysene	0.003	0.013	0.012	0.017
C3 - Benz(a)anthracene/Chrysene	0.000	0.006	0.007	0.007
C4 - Benz(a)anthracene/Chrysene	0.000	0.003	0.003	0.003

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD14 (0.7-2.1)	SD14 (5.0-5.4)	SD15 (0-2)	SD15 (2.8-3.5)
Acenaphthylene	0.013		0.005	
Acenaphthene	0.022		0.012	
Dibenzofuran	0.001		0.001	
Phenanthrene	0.025		0.071	
Anthracene	0.015		0.026	
Fluoranthene	0.044		0.051	
Pyrene	0.066		0.082	
Benz[a]anthracene	0.033		0.028	
Chrysene	0.045		0.027	
Benzo[b]fluoranthene	0.018		0.013	
Benzo[k]fluoranthene	0.035		0.017	
Benzo(e)pyrene	0.028		0.015	
Benzo[a]pyrene	0.045		0.029	
Perylene	0.011		0.004	
Indeno[1,2,3-cd]pyrene	0.016		0.013	
Dibenz[a,h]anthracene	0.006		0.004	
Benzo[g,h,i]perylene	0.013		0.015	
C0 - Naphthalene	0.003		0.000	
C1 - Naphthalene	0.005		0.003	
C2 - Naphthalene	0.010		0.008	
C3- Naphthalene	0.009		0.011	
C4- Naphthalene	0.005		0.002	
C0 - Fluorene	0.004		0.001	
C1 - Fluorene	0.016		0.015	
C2 - Fluorene	0.012		0.007	
C3 - Fluorene	0.007		0.004	
C0 - Phenanthrene/Anthracene	0.040		0.099	
C1 - Phenanthrene/Anthracene	0.042		0.069	
C2 - Phenanthrene/Anthracene	0.038		0.026	
C3 - Phenanthrene/Anthracene	0.016		0.006	
C4 - Phenanthrene/Anthracene	0.005		0.000	
C0 - Dibenzothiophene	0.004		0.007	
C1 - Dibenzothiophene	0.007		0.012	
C2 - Dibenzothiophene	0.008		0.008	
C3 - Dibenzothiophene	0.005		0.002	
C0 - Fluoranthene/Pyrene	0.119		0.150	
C1 - Fluoranthene/Pyrene	0.063		0.060	
C2 - Fluoranthene/Pyrene	0.025		0.015	
C3 - Fluoranthene/Pyrene	0.008		0.004	
C0 - Benz(a)anthracene/Chrysene	0.063		0.053	
C1 - Benz(a)anthracene/Chrysene	0.032		0.020	
C2 - Benz(a)anthracene/Chrysene	0.013		0.006	
C3 - Benz(a)anthracene/Chrysene	0.005		0.000	
C4 - Benz(a)anthracene/Chrysene	0.003		0.000	

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD16 (0-2)	SD16 (3.5-4.5)	SD17 (0-2)	SD17 (2-4)	SD18 (0-2)
Acenaphthylene	0.006		0.007	0.007	0.004
Acenaphthene	0.017		0.002	0.003	0.002
Dibenzofuran	0.001		0.001	0.001	0.001
Phenanthrene	0.047		0.033	0.027	0.037
Anthracene	0.012		0.006	0.007	0.006
Fluoranthene	0.058		0.055	0.053	0.096
Pyrene	0.089		0.071	0.099	0.081
Benz[a]anthracene	0.033		0.038	0.033	0.033
Chrysene	0.035		0.044	0.036	0.040
Benzo[b]fluoranthene	0.028		0.048	0.027	0.049
Benzo[k]fluoranthene	0.019		0.035	0.028	0.030
Benzo(e)pyrene	0.027		0.038	0.031	0.036
Benzo[a]pyrene	0.037		0.052	0.039	0.049
Perylene	0.007		0.013	0.009	0.015
Indeno[1,2,3-cd]pyrene	0.021		0.028	0.027	0.039
Dibenz[a,h]anthracene	0.006		0.007	0.007	0.008
Benzo[g,h,i]perylene	0.022		0.029	0.029	0.038
C0 - Naphthalene	0.001		0.001	0.002	0.001
C1 - Naphthalene	0.003		0.001	0.002	0.001
C2 - Naphthalene	0.007		0.003	0.002	0.001
C3- Naphthalene	0.008		0.003	0.002	0.001
C4- Naphthalene	0.002		0.001	0.001	0.000
C0 - Fluorene	0.005		0.003	0.003	0.002
C1 - Fluorene	0.009		0.004	0.005	0.002
C2 - Fluorene	0.005		0.003	0.009	0.002
C3 - Fluorene	0.004		0.004	0.005	0.004
C0 - Phenanthrene/Anthracene	0.061		0.039	0.035	0.044
C1 - Phenanthrene/Anthracene	0.041		0.027	0.036	0.020
C2 - Phenanthrene/Anthracene	0.023		0.019	0.029	0.011
C3 - Phenanthrene/Anthracene	0.007		0.008	0.010	0.004
C4 - Phenanthrene/Anthracene	0.001		0.001	0.001	0.000
C0 - Dibenzothiophene	0.005		0.002	0.002	0.002
C1 - Dibenzothiophene	0.007		0.005	0.005	0.002
C2 - Dibenzothiophene	0.006		0.006	0.008	0.002
C3 - Dibenzothiophene	0.002		0.003	0.003	0.001
C0 - Fluoranthene/Pyrene	0.158		0.135	0.163	0.182
C1 - Fluoranthene/Pyrene	0.055		0.047	0.063	0.033
C2 - Fluoranthene/Pyrene	0.017		0.024	0.025	0.017
C3 - Fluoranthene/Pyrene	0.006		0.013	0.010	0.008
C0 - Benz(a)anthracene/Chrysene	0.065		0.079	0.067	0.071
C1 - Benz(a)anthracene/Chrysene	0.024		0.034	0.031	0.019
C2 - Benz(a)anthracene/Chrysene	0.008		0.018	0.012	0.008
C3 - Benz(a)anthracene/Chrysene	0.003		0.009	0.003	0.003
C4 - Benz(a)anthracene/Chrysene	0.000		0.003	0.000	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD18 (4.3-4.5)	SD19 (0-2)	SD19 (6.3-7.0)	SD2 (0.0-0.2)
Acenaphthylene		0.003		0.008
Acenaphthene		0.002		0.004
Dibenzofuran		0.001		0.001
Phenanthrene		0.039		0.044
Anthracene		0.005		0.012
Fluoranthene		0.097		0.080
Pyrene		0.084		0.083
Benz[a]anthracene		0.033		0.036
Chrysene		0.040		0.053
Benzo[b]fluoranthene		0.049		0.026
Benzo[k]fluoranthene		0.034		0.037
Benzo(e)pyrene		0.033		0.023
Benzo[a]pyrene		0.047		0.033
Perylene		0.013		0.014
Indeno[1,2,3-cd]pyrene		0.045		0.023
Dibenz[a,h]anthracene		0.012		0.008
Benzo[g,h,i]perylene		0.045		0.022
C0 - Naphthalene		0.001		0.001
C1 - Naphthalene		0.001		0.001
C2 - Naphthalene		0.001		0.003
C3- Naphthalene		0.001		0.002
C4- Naphthalene		0.000		0.001
C0 - Fluorene		0.003		0.004
C1 - Fluorene		0.001		0.005
C2 - Fluorene		0.002		0.004
C3 - Fluorene		0.004		0.007
C0 - Phenanthrene/Anthracene		0.043		0.056
C1 - Phenanthrene/Anthracene		0.016		0.021
C2 - Phenanthrene/Anthracene		0.009		0.013
C3 - Phenanthrene/Anthracene		0.004		0.007
C4 - Phenanthrene/Anthracene		0.001		0.003
C0 - Dibenzothiophene		0.002		0.002
C1 - Dibenzothiophene		0.002		0.003
C2 - Dibenzothiophene		0.002		0.004
C3 - Dibenzothiophene		0.001		0.005
C0 - Fluoranthene/Pyrene		0.182		0.168
C1 - Fluoranthene/Pyrene		0.029		0.041
C2 - Fluoranthene/Pyrene		0.013		0.018
C3 - Fluoranthene/Pyrene		0.006		0.008
C0 - Benz(a)anthracene/Chrysene		0.070		0.074
C1 - Benz(a)anthracene/Chrysene		0.016		0.023
C2 - Benz(a)anthracene/Chrysene		0.008		0.011
C3 - Benz(a)anthracene/Chrysene		0.002		0.004
C4 - Benz(a)anthracene/Chrysene		0.000		0.002

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD2 (0.2-2.0)	SD20 (0-2)	SD20 (5.2-6.3)	SD21 (0-2)
Acenaphthylene	0.010	0.003		0.003
Acenaphthene	0.004	0.003		0.002
Dibenzofuran	0.001	0.001		0.001
Phenanthrene	0.034	0.043		0.039
Anthracene	0.011	0.006		0.006
Fluoranthene	0.076	0.094		0.096
Pyrene	0.084	0.082		0.086
Benz[a]anthracene	0.037	0.034		0.034
Chrysene	0.053	0.040		0.039
Benzo[b]fluoranthene	0.028	0.048		0.038
Benzo[k]fluoranthene	0.035	0.030		0.031
Benzo(e)pyrene	0.024	0.033		0.031
Benzo[a]pyrene	0.035	0.051		0.043
Perylene	0.013	0.016		0.013
Indeno[1,2,3-cd]pyrene	0.022	0.033		0.033
Dibenz[a,h]anthracene	0.007	0.007		0.007
Benzo[g,h,i]perylene	0.021	0.030		0.035
C0 - Naphthalene	0.001	0.001		0.001
C1 - Naphthalene	0.001	0.001		0.001
C2 - Naphthalene	0.003	0.001		0.001
C3- Naphthalene	0.003	0.001		0.001
C4- Naphthalene	0.001	0.000		0.000
C0 - Fluorene	0.004	0.003		0.003
C1 - Fluorene	0.006	0.003		0.003
C2 - Fluorene	0.004	0.002		0.005
C3 - Fluorene	0.007	0.004		0.004
C0 - Phenanthrene/Anthracene	0.045	0.050		0.045
C1 - Phenanthrene/Anthracene	0.021	0.022		0.021
C2 - Phenanthrene/Anthracene	0.017	0.012		0.013
C3 - Phenanthrene/Anthracene	0.007	0.004		0.005
C4 - Phenanthrene/Anthracene	0.003	0.000		0.000
C0 - Dibenzothiophene	0.002	0.002		0.002
C1 - Dibenzothiophene	0.004	0.002		0.002
C2 - Dibenzothiophene	0.005	0.003		0.002
C3 - Dibenzothiophene	0.004	0.001		0.001
C0 - Fluoranthene/Pyrene	0.164	0.180		0.189
C1 - Fluoranthene/Pyrene	0.047	0.035		0.038
C2 - Fluoranthene/Pyrene	0.023	0.014		0.020
C3 - Fluoranthene/Pyrene	0.009	0.007		0.007
C0 - Benz(a)anthracene/Chrysene	0.075	0.072		0.071
C1 - Benz(a)anthracene/Chrysene	0.030	0.018		0.022
C2 - Benz(a)anthracene/Chrysene	0.013	0.007		0.007
C3 - Benz(a)anthracene/Chrysene	0.004	0.002		0.001
C4 - Benz(a)anthracene/Chrysene	0.002	0.000		0.000



**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD21 (6-7)	SD22 (0-2)	SD22 (4.9-6.0)	SD23 (0-2)	SD23 (3-4)
Acenaphthylene	0.005	0.005	0.003	0.003	0.002
Acenaphthene	0.005	0.001	0.012	0.002	0.002
Dibenzofuran	0.001	0.001	0.001	0.001	0.001
Phenanthrene	0.031	0.021	0.065	0.038	0.048
Anthracene	0.006	0.005	0.013	0.007	0.006
Fluoranthene	0.059	0.063	0.044	0.088	0.096
Pyrene	0.072	0.069	0.077	0.076	0.085
Benz[a]anthracene	0.034	0.033	0.025	0.033	0.032
Chrysene	0.039	0.038	0.028	0.042	0.039
Benzo[b]fluoranthene	0.036	0.049	0.021	0.045	0.044
Benzo[k]fluoranthene	0.026	0.032	0.016	0.032	0.030
Benzo(e)pyrene	0.031	0.040	0.023	0.033	0.031
Benzo[a]pyrene	0.046	0.048	0.035	0.048	0.047
Perylene	0.012	0.016	0.008	0.017	0.016
Indeno[1,2,3-cd]pyrene	0.028	0.039	0.018	0.034	0.035
Dibenz[a,h]anthracene	0.008	0.011	0.005	0.007	0.007
Benzo[g,h,i]perylene	0.030	0.040	0.021	0.032	0.035
C0 - Naphthalene	0.002	0.002	0.002	0.001	0.001
C1 - Naphthalene	0.002	0.001	0.009	0.001	0.001
C2 - Naphthalene	0.004	0.002	0.018	0.001	0.001
C3- Naphthalene	0.005	0.002	0.014	0.001	0.001
C4- Naphthalene	0.003	0.001	0.004	0.000	0.000
C0 - Fluorene	0.004	0.002	0.009	0.003	0.004
C1 - Fluorene	0.007	0.005	0.012	0.003	0.002
C2 - Fluorene	0.007	0.006	0.012	0.004	0.002
C3 - Fluorene	0.008	0.009	0.007	0.004	0.004
C0 - Phenanthrene/Anthracene	0.037	0.026	0.078	0.045	0.054
C1 - Phenanthrene/Anthracene	0.029	0.023	0.054	0.024	0.018
C2 - Phenanthrene/Anthracene	0.026	0.022	0.029	0.014	0.010
C3 - Phenanthrene/Anthracene	0.014	0.015	0.010	0.006	0.004
C4 - Phenanthrene/Anthracene	0.004	0.007	0.003	0.001	0.001
C0 - Dibenzothiophene	0.002	0.001	0.004	0.002	0.002
C1 - Dibenzothiophene	0.006	0.003	0.007	0.003	0.002
C2 - Dibenzothiophene	0.007	0.005	0.007	0.003	0.002
C3 - Dibenzothiophene	0.004	0.006	0.003	0.002	0.001
C0 - Fluoranthene/Pyrene	0.138	0.138	0.128	0.168	0.183
C1 - Fluoranthene/Pyrene	0.052	0.047	0.057	0.036	0.031
C2 - Fluoranthene/Pyrene	0.024	0.027	0.021	0.016	0.015
C3 - Fluoranthene/Pyrene	0.012	0.014	0.008	0.008	0.008
C0 - Benz(a)anthracene/Chrysene	0.070	0.068	0.051	0.073	0.069
C1 - Benz(a)anthracene/Chrysene	0.032	0.029	0.025	0.021	0.016
C2 - Benz(a)anthracene/Chrysene	0.020	0.014	0.008	0.011	0.008
C3 - Benz(a)anthracene/Chrysene	0.010	0.007	0.002	0.005	0.003
C4 - Benz(a)anthracene/Chrysene	0.003	0.003	0.001	0.001	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD24 (0-2)	SD24 (5.2-6.0)	SD25 (0-2)	SD25 (5.3-6)
Acenaphthylene	0.006		0.006	
Acenaphthene	0.003		0.002	
Dibenzofuran	0.001		0.000	
Phenanthrene	0.011		0.014	
Anthracene	0.006		0.005	
Fluoranthene	0.052		0.044	
Pyrene	0.069		0.073	
Benz[a]anthracene	0.038		0.041	
Chrysene	0.041		0.042	
Benzo[b]fluoranthene	0.035		0.033	
Benzo[k]fluoranthene	0.027		0.032	
Benzo(e)pyrene	0.037		0.036	
Benzo[a]pyrene	0.059		0.064	
Perylene	0.039		0.014	
Indeno[1,2,3-cd]pyrene	0.030		0.030	
Dibenz[a,h]anthracene	0.008		0.008	
Benzo[g,h,i]perylene	0.033		0.033	
C0 - Naphthalene	0.002		0.001	
C1 - Naphthalene	0.001		0.001	
C2 - Naphthalene	0.002		0.002	
C3- Naphthalene	0.003		0.002	
C4- Naphthalene	0.002		0.001	
C0 - Fluorene	0.002		0.001	
C1 - Fluorene	0.006		0.006	
C2 - Fluorene	0.005		0.008	
C3 - Fluorene	0.008		0.006	
C0 - Phenanthrene/Anthracene	0.016		0.019	
C1 - Phenanthrene/Anthracene	0.030		0.030	
C2 - Phenanthrene/Anthracene	0.032		0.028	
C3 - Phenanthrene/Anthracene	0.017		0.012	
C4 - Phenanthrene/Anthracene	0.006		0.003	
C0 - Dibenzothiophene	0.002		0.002	
C1 - Dibenzothiophene	0.004		0.005	
C2 - Dibenzothiophene	0.007		0.008	
C3 - Dibenzothiophene	0.004		0.004	
C0 - Fluoranthene/Pyrene	0.130		0.129	
C1 - Fluoranthene/Pyrene	0.062		0.071	
C2 - Fluoranthene/Pyrene	0.027		0.028	
C3 - Fluoranthene/Pyrene	0.010		0.012	
C0 - Benz(a)anthracene/Chrysene	0.076		0.080	
C1 - Benz(a)anthracene/Chrysene	0.034		0.037	
C2 - Benz(a)anthracene/Chrysene	0.014		0.018	
C3 - Benz(a)anthracene/Chrysene	0.004		0.007	
C4 - Benz(a)anthracene/Chrysene	0.003		0.001	

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD26 (0-2)	SD26 (3.5-4.5)	SD27 (0-2)	SD27 (5.1-5.8)
Acenaphthylene			0.004	0.004
Acenaphthene			0.005	0.034
Dibenzofuran			0.001	0.002
Phenanthrene			0.049	0.105
Anthracene			0.007	0.022
Fluoranthene			0.080	0.041
Pyrene			0.073	0.067
Benz[a]anthracene			0.033	0.025
Chrysene			0.040	0.022
Benzo[b]fluoranthene			0.039	0.013
Benzo[k]fluoranthene			0.035	0.015
Benzo(e)pyrene			0.033	0.015
Benzo[a]pyrene			0.045	0.027
Perylene			0.020	0.004
Indeno[1,2,3-cd]pyrene			0.031	0.010
Dibenz[a,h]anthracene			0.006	0.003
Benzo[g,h,i]perylene			0.029	0.010
C0 - Naphthalene			0.001	0.001
C1 - Naphthalene			0.002	0.014
C2 - Naphthalene			0.003	0.026
C3- Naphthalene			0.002	0.012
C4- Naphthalene			0.000	0.001
C0 - Fluorene			0.005	0.021
C1 - Fluorene			0.005	0.016
C2 - Fluorene			0.004	0.005
C3 - Fluorene			0.004	0.001
C0 - Phenanthrene/Anthracene			0.057	0.129
C1 - Phenanthrene/Anthracene			0.032	0.059
C2 - Phenanthrene/Anthracene			0.014	0.019
C3 - Phenanthrene/Anthracene			0.005	0.003
C4 - Phenanthrene/Anthracene			0.001	0.000
C0 - Dibenzothiophene			0.003	0.008
C1 - Dibenzothiophene			0.004	0.009
C2 - Dibenzothiophene			0.003	0.005
C3 - Dibenzothiophene			0.002	0.001
C0 - Fluoranthene/Pyrene			0.160	0.123
C1 - Fluoranthene/Pyrene			0.037	0.047
C2 - Fluoranthene/Pyrene			0.017	0.012
C3 - Fluoranthene/Pyrene			0.008	0.002
C0 - Benz(a)anthracene/Chrysene			0.071	0.045
C1 - Benz(a)anthracene/Chrysene			0.022	0.018
C2 - Benz(a)anthracene/Chrysene			0.009	0.005
C3 - Benz(a)anthracene/Chrysene			0.003	0.000
C4 - Benz(a)anthracene/Chrysene			0.000	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD27 (6.4-6.9)	SD28 (0-2)	SD28 (3-4.5)	SD29 (0-2)
Acenaphthylene	0.003	0.008	0.008	0.003
Acenaphthene	0.046	0.001	0.011	0.003
Dibenzofuran	0.003	0.000	0.000	0.001
Phenanthrene	0.109	0.007	0.033	0.041
Anthracene	0.033	0.006	0.011	0.007
Fluoranthene	0.038	0.056	0.049	0.086
Pyrene	0.064	0.093	0.082	0.076
Benz[a]anthracene	0.020	0.047	0.041	0.037
Chrysene	0.021	0.046	0.038	0.045
Benzo[b]fluoranthene	0.009	0.032	0.025	0.048
Benzo[k]fluoranthene	0.012	0.032	0.025	0.036
Benzo(e)pyrene	0.012	0.032	0.030	0.036
Benzo[a]pyrene	0.020	0.059	0.049	0.051
Perylene	0.014	0.011	0.044	0.016
Indeno[1,2,3-cd]pyrene	0.007	0.019	0.019	0.032
Dibenz[a,h]anthracene	0.003	0.005	0.005	0.007
Benzo[g,h,i]perylene	0.012	0.019	0.055	0.031
C0 - Naphthalene	0.005	0.001	0.003	0.001
C1 - Naphthalene	0.031	0.000	0.005	0.001
C2 - Naphthalene	0.031	0.001	0.005	0.001
C3- Naphthalene	0.012	0.002	0.000	0.001
C4- Naphthalene	0.000	0.001	0.000	0.000
C0 - Fluorene	0.025	0.001	0.005	0.003
C1 - Fluorene	0.013	0.007	0.005	0.003
C2 - Fluorene	0.001	0.006	0.000	0.001
C3 - Fluorene	0.001	0.003	0.000	0.003
C0 - Phenanthrene/Anthracene	0.144	0.013	0.046	0.048
C1 - Phenanthrene/Anthracene	0.059	0.026	0.041	0.022
C2 - Phenanthrene/Anthracene	0.016	0.023	0.019	0.012
C3 - Phenanthrene/Anthracene	0.001	0.007	0.000	0.004
C4 - Phenanthrene/Anthracene	0.000	0.000	0.000	0.000
C0 - Dibenzothiophene	0.008	0.002	0.003	0.002
C1 - Dibenzothiophene	0.008	0.007	0.005	0.002
C2 - Dibenzothiophene	0.003	0.008	0.000	0.002
C3 - Dibenzothiophene	0.000	0.002	0.000	0.000
C0 - Fluoranthene/Pyrene	0.117	0.166	0.148	0.166
C1 - Fluoranthene/Pyrene	0.039	0.076	0.068	0.036
C2 - Fluoranthene/Pyrene	0.007	0.023	0.014	0.017
C3 - Fluoranthene/Pyrene	0.000	0.007	0.000	0.006
C0 - Benz(a)anthracene/Chrysene	0.039	0.091	0.079	0.079
C1 - Benz(a)anthracene/Chrysene	0.013	0.038	0.027	0.023
C2 - Benz(a)anthracene/Chrysene	0.001	0.013	0.000	0.008
C3 - Benz(a)anthracene/Chrysene	0.000	0.002	0.000	0.001
C4 - Benz(a)anthracene/Chrysene	0.000	0.000	0.000	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD29 (2.8-3.6)	SD3 (0.0-0.2)	SD3 (0.2-1.6)	SD30 (0-2)
Acenaphthylene		0.014	0.004	0.007
Acenaphthene		0.003	0.063	0.011
Dibenzofuran		0.001	0.001	0.001
Phenanthrene		0.028	0.072	0.025
Anthracene		0.012	0.025	0.007
Fluoranthene		0.062	0.027	0.054
Pyrene		0.074	0.043	0.063
Benz[a]anthracene		0.035	0.018	0.038
Chrysene		0.053	0.024	0.044
Benzo[b]fluoranthene		0.027	0.006	0.047
Benzo[k]fluoranthene		0.038	0.012	0.031
Benzo(e)pyrene		0.029	0.009	0.036
Benzo[a]pyrene		0.042	0.014	0.054
Perylene		0.015	0.040	0.018
Indeno[1,2,3-cd]pyrene		0.032	0.005	0.022
Dibenz[a,h]anthracene		0.011	0.002	0.006
Benzo[g,h,i]perylene		0.037	0.005	0.023
C0 - Naphthalene		0.002	0.077	0.002
C1 - Naphthalene		0.002	0.101	0.005
C2 - Naphthalene		0.003	0.030	0.010
C3- Naphthalene		0.003	0.010	0.007
C4- Naphthalene		0.002	0.003	0.002
C0 - Fluorene		0.003	0.019	0.004
C1 - Fluorene		0.007	0.014	0.007
C2 - Fluorene		0.004	0.009	0.004
C3 - Fluorene		0.007	0.004	0.006
C0 - Phenanthrene/Anthracene		0.040	0.096	0.032
C1 - Phenanthrene/Anthracene		0.022	0.047	0.032
C2 - Phenanthrene/Anthracene		0.020	0.022	0.023
C3 - Phenanthrene/Anthracene		0.008	0.008	0.011
C4 - Phenanthrene/Anthracene		0.003	0.001	0.004
C0 - Dibenzothiophene		0.002	0.003	0.003
C1 - Dibenzothiophene		0.003	0.003	0.004
C2 - Dibenzothiophene		0.005	0.002	0.005
C3 - Dibenzothiophene		0.003	0.001	0.003
C0 - Fluoranthene/Pyrene		0.142	0.078	0.125
C1 - Fluoranthene/Pyrene		0.050	0.030	0.053
C2 - Fluoranthene/Pyrene		0.022	0.010	0.025
C3 - Fluoranthene/Pyrene		0.009	0.004	0.012
C0 - Benz(a)anthracene/Chrysene		0.073	0.035	0.078
C1 - Benz(a)anthracene/Chrysene		0.030	0.015	0.036
C2 - Benz(a)anthracene/Chrysene		0.014	0.005	0.015
C3 - Benz(a)anthracene/Chrysene		0.006	0.001	0.004
C4 - Benz(a)anthracene/Chrysene		0.002	0.000	0.003

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD30 (4.5-5.6)	SD31 (0-2)	SD31 (2.6-3.6)	SD32 (0-2)
Acenaphthylene		0.003	0.006	0.004
Acenaphthene		0.003	0.084	0.029
Dibenzofuran		0.001	0.004	0.002
Phenanthrene		0.043	0.057	0.082
Anthracene		0.006	0.009	0.031
Fluoranthene		0.089	0.027	0.043
Pyrene		0.072	0.044	0.070
Benz[a]anthracene		0.035	0.025	0.026
Chrysene		0.041	0.024	0.025
Benzo[b]fluoranthene		0.042	0.012	0.012
Benzo[k]fluoranthene		0.032	0.013	0.013
Benzo(e)pyrene		0.032	0.012	0.013
Benzo[a]pyrene		0.047	0.025	0.024
Perylene		0.016	0.012	0.004
Indeno[1,2,3-cd]pyrene		0.039	0.010	0.010
Dibenz[a,h]anthracene		0.007	0.003	0.003
Benzo[g,h,i]perylene		0.038	0.010	0.012
C0 - Naphthalene		0.001	0.105	0.003
C1 - Naphthalene		0.001	0.095	0.018
C2 - Naphthalene		0.001	0.038	0.020
C3 - Naphthalene		0.001	0.005	0.011
C4 - Naphthalene		0.000	0.000	0.002
C0 - Fluorene		0.003	0.028	0.016
C1 - Fluorene		0.003	0.009	0.015
C2 - Fluorene		0.003	0.002	0.009
C3 - Fluorene		0.005	0.001	0.004
C0 - Phenanthrene/Anthracene		0.050	0.067	0.114
C1 - Phenanthrene/Anthracene		0.026	0.018	0.055
C2 - Phenanthrene/Anthracene		0.013	0.016	0.023
C3 - Phenanthrene/Anthracene		0.005	0.004	0.005
C4 - Phenanthrene/Anthracene		0.001	0.000	0.000
C0 - Dibenzothiophene		0.002	0.006	0.009
C1 - Dibenzothiophene		0.003	0.004	0.011
C2 - Dibenzothiophene		0.003	0.005	0.008
C3 - Dibenzothiophene		0.002	0.002	0.003
C0 - Fluoranthene/Pyrene		0.164	0.082	0.125
C1 - Fluoranthene/Pyrene		0.033	0.047	0.054
C2 - Fluoranthene/Pyrene		0.018	0.014	0.015
C3 - Fluoranthene/Pyrene		0.008	0.003	0.004
C0 - Benz(a)anthracene/Chrysene		0.074	0.048	0.049
C1 - Benz(a)anthracene/Chrysene		0.020	0.019	0.018
C2 - Benz(a)anthracene/Chrysene		0.009	0.005	0.006
C3 - Benz(a)anthracene/Chrysene		0.004	0.000	0.000
C4 - Benz(a)anthracene/Chrysene		0.001	0.000	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD32 (3.5-4.2)	SD320 (0-2)	SD320 (0-2)	SD33 (0-2)
Acenaphthylene		0.003	0.004	
Acenaphthene		0.029	0.031	
Dibenzofuran		0.002	0.002	
Phenanthrene		0.098	0.097	
Anthracene		0.024	0.023	
Fluoranthene		0.044	0.041	
Pyrene		0.074	0.070	
Benz[a]anthracene		0.021	0.022	
Chrysene		0.021	0.021	
Benzo[b]fluoranthene		0.011	0.011	
Benzo[k]fluoranthene		0.011	0.012	
Benzo(e)pyrene		0.011	0.013	
Benzo[a]pyrene		0.020	0.023	
Perylene		0.003	0.004	
Indeno[1,2,3-cd]pyrene		0.010	0.011	
Dibenz[a,h]anthracene		0.002	0.003	
Benzo[g,h,i]perylene		0.011	0.013	
C0 - Naphthalene		0.003	0.003	
C1 - Naphthalene		0.020	0.024	
C2 - Naphthalene		0.022	0.027	
C3 - Naphthalene		0.014	0.015	
C4 - Naphthalene		0.003	0.003	
C0 - Fluorene		0.018	0.018	
C1 - Fluorene		0.016	0.016	
C2 - Fluorene		0.008	0.007	
C3 - Fluorene		0.005	0.003	
C0 - Phenanthrene/Anthracene		0.123	0.121	
C1 - Phenanthrene/Anthracene		0.063	0.061	
C2 - Phenanthrene/Anthracene		0.023	0.022	
C3 - Phenanthrene/Anthracene		0.005	0.004	
C4 - Phenanthrene/Anthracene		0.001	0.000	
C0 - Dibenzothiophene		0.009	0.009	
C1 - Dibenzothiophene		0.011	0.011	
C2 - Dibenzothiophene		0.007	0.006	
C3 - Dibenzothiophene		0.002	0.002	
C0 - Fluoranthene/Pyrene		0.127	0.121	
C1 - Fluoranthene/Pyrene		0.048	0.047	
C2 - Fluoranthene/Pyrene		0.012	0.013	
C3 - Fluoranthene/Pyrene		0.003	0.003	
C0 - Benz(a)anthracene/Chrysene		0.041	0.041	
C1 - Benz(a)anthracene/Chrysene		0.016	0.017	
C2 - Benz(a)anthracene/Chrysene		0.005	0.004	
C3 - Benz(a)anthracene/Chrysene		0.001	0.000	
C4 - Benz(a)anthracene/Chrysene		0.000	0.000	

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD34 (0-2)	SD34 (2.7-3.3)	SD4 (0.0-0.2)	SD4 (0.4-1.4)
Acenaphthylene			0.015	0.008
Acenaphthene			0.005	0.040
Dibenzofuran			0.001	0.002
Phenanthrene			0.028	0.066
Anthracene			0.013	0.028
Fluoranthene			0.061	0.040
Pyrene			0.081	0.064
Benz[a]anthracene			0.031	0.028
Chrysene			0.043	0.037
Benzo[b]fluoranthene			0.028	0.011
Benzo[k]fluoranthene			0.044	0.019
Benzo(e)pyrene			0.031	0.014
Benzo[a]pyrene			0.044	0.021
Perylene			0.012	0.004
Indeno[1,2,3-cd]pyrene			0.018	0.009
Dibenz[a,h]anthracene			0.006	0.003
Benzo[g,h,i]perylene			0.014	0.010
C0 - Naphthalene			0.001	0.004
C1 - Naphthalene			0.001	0.012
C2 - Naphthalene			0.003	0.024
C3- Naphthalene			0.005	0.015
C4- Naphthalene			0.004	0.004
C0 - Fluorene			0.003	0.011
C1 - Fluorene			0.011	0.019
C2 - Fluorene			0.010	0.009
C3 - Fluorene			0.008	0.006
C0 - Phenanthrene/Anthracene			0.041	0.093
C1 - Phenanthrene/Anthracene			0.031	0.056
C2 - Phenanthrene/Anthracene			0.027	0.026
C3 - Phenanthrene/Anthracene			0.009	0.007
C4 - Phenanthrene/Anthracene			0.002	0.002
C0 - Dibenzothiophene			0.003	0.007
C1 - Dibenzothiophene			0.006	0.009
C2 - Dibenzothiophene			0.007	0.006
C3 - Dibenzothiophene			0.003	0.003
C0 - Fluoranthene/Pyrene			0.150	0.114
C1 - Fluoranthene/Pyrene			0.056	0.054
C2 - Fluoranthene/Pyrene			0.022	0.017
C3 - Fluoranthene/Pyrene			0.008	0.005
C0 - Benz(a)anthracene/Chrysene			0.061	0.053
C1 - Benz(a)anthracene/Chrysene			0.030	0.026
C2 - Benz(a)anthracene/Chrysene			0.013	0.009
C3 - Benz(a)anthracene/Chrysene			0.006	0.002
C4 - Benz(a)anthracene/Chrysene			0.002	0.001



**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD5 (0.0-0.2)	SD5 (0.5-1.3)	SD6 (0.0-0.2)	SD6 (2.1-2.3)
Acenaphthylene	0.017	0.009	0.011	0.006
Acenaphthene	0.005	0.020	0.015	0.059
Dibenzofuran	0.001	0.001	0.008	0.003
Phenanthrene	0.034	0.053	0.097	0.076
Anthracene	0.013	0.023	0.027	0.027
Fluoranthene	0.060	0.050	0.054	0.028
Pyrene	0.079	0.071	0.054	0.041
Benz[a]anthracene	0.031	0.033	0.018	0.016
Chrysene	0.044	0.041	0.024	0.022
Benzo[b]fluoranthene	0.030	0.016	0.010	0.009
Benzo[k]fluoranthene	0.035	0.020	0.016	0.017
Benzo(e)pyrene	0.033	0.015	0.010	0.014
Benzo[a]pyrene	0.047	0.025	0.017	0.022
Perylene	0.012	0.014	0.007	0.005
Indeno[1,2,3-cd]pyrene	0.019	0.013	0.010	0.008
Dibenz[a,h]anthracene	0.006	0.005	0.004	0.003
Benzo[g,h,i]perylene	0.016	0.016	0.008	0.007
C0 - Naphthalene	0.002	0.002	0.007	0.020
C1 - Naphthalene	0.002	0.002	0.012	0.072
C2 - Naphthalene	0.004	0.016	0.027	0.057
C3 - Naphthalene	0.005	0.012	0.018	0.021
C4 - Naphthalene	0.003	0.005	0.006	0.006
C0 - Fluorene	0.004	0.010	0.026	0.028
C1 - Fluorene	0.012	0.016	0.020	0.021
C2 - Fluorene	0.008	0.010	0.010	0.011
C3 - Fluorene	0.006	0.005	0.007	0.005
C0 - Phenanthrene/Anthracene	0.047	0.077	0.123	0.103
C1 - Phenanthrene/Anthracene	0.031	0.050	0.058	0.046
C2 - Phenanthrene/Anthracene	0.024	0.031	0.029	0.024
C3 - Phenanthrene/Anthracene	0.008	0.011	0.010	0.009
C4 - Phenanthrene/Anthracene	0.002	0.004	0.003	0.003
C0 - Dibenzothiophene	0.003	0.005	0.009	0.007
C1 - Dibenzothiophene	0.006	0.007	0.010	0.006
C2 - Dibenzothiophene	0.006	0.006	0.008	0.005
C3 - Dibenzothiophene	0.005	0.003	0.003	0.003
C0 - Fluoranthene/Pyrene	0.147	0.125	0.114	0.077
C1 - Fluoranthene/Pyrene	0.056	0.060	0.034	0.035
C2 - Fluoranthene/Pyrene	0.022	0.021	0.013	0.012
C3 - Fluoranthene/Pyrene	0.007	0.008	0.004	0.004
C0 - Benz(a)anthracene/Chrysene	0.063	0.051	0.035	0.032
C1 - Benz(a)anthracene/Chrysene	0.025	0.024	0.014	0.016
C2 - Benz(a)anthracene/Chrysene	0.013	0.010	0.007	0.007
C3 - Benz(a)anthracene/Chrysene	0.005	0.003	0.003	0.003
C4 - Benz(a)anthracene/Chrysene	0.002	0.001	0.001	0.001

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD7 (0.0-0.2)	SD7 (0.2-2.2)	SD8 (0.0-0.2)	SD8 (0.5-2.0)
Acenaphthylene	0.012	0.010	0.016	0.008
Acenaphthene	0.003	0.020	0.002	0.036
Dibenzofuran	0.001	0.001	0.000	0.000
Phenanthrene	0.035	0.036	0.020	0.022
Anthracene	0.011	0.017	0.010	0.011
Fluoranthene	0.067	0.048	0.056	0.055
Pyrene	0.083	0.074	0.074	0.102
Benz[a]anthracene	0.038	0.033	0.041	0.033
Chrysene	0.055	0.044	0.053	0.038
Benzo[b]fluoranthene	0.028	0.016	0.026	0.014
Benzo[k]fluoranthene	0.029	0.022	0.034	0.027
Benzo(e)pyrene	0.027	0.017	0.025	0.016
Benzo[a]pyrene	0.036	0.028	0.041	0.027
Perylene	0.010	0.015	0.011	0.069
Indeno[1,2,3-cd]pyrene	0.023	0.013	0.027	0.011
Dibenz[a,h]anthracene	0.008	0.004	0.009	0.003
Benzo[g,h,i]perylene	0.027	0.015	0.031	0.011
C0 - Naphthalene	0.002	0.002	0.001	0.003
C1 - Naphthalene	0.001	0.004	0.001	0.005
C2 - Naphthalene	0.003	0.013	0.002	0.014
C3- Naphthalene	0.002	0.011	0.002	0.005
C4- Naphthalene	0.001	0.005	0.002	0.003
C0 - Fluorene	0.003	0.007	0.002	0.005
C1 - Fluorene	0.006	0.015	0.007	0.019
C2 - Fluorene	0.004	0.010	0.007	0.011
C3 - Fluorene	0.007	0.006	0.006	0.005
C0 - Phenanthrene/Anthracene	0.046	0.053	0.031	0.033
C1 - Phenanthrene/Anthracene	0.023	0.047	0.022	0.025
C2 - Phenanthrene/Anthracene	0.017	0.032	0.025	0.025
C3 - Phenanthrene/Anthracene	0.009	0.013	0.010	0.008
C4 - Phenanthrene/Anthracene	0.003	0.005	0.003	0.000
C0 - Dibenzothiophene	0.002	0.003	0.002	0.005
C1 - Dibenzothiophene	0.003	0.007	0.004	0.008
C2 - Dibenzothiophene	0.004	0.008	0.007	0.005
C3 - Dibenzothiophene	0.005	0.004	0.007	0.000
C0 - Fluoranthene/Pyrene	0.155	0.132	0.142	0.159
C1 - Fluoranthene/Pyrene	0.055	0.066	0.067	0.058
C2 - Fluoranthene/Pyrene	0.022	0.025	0.025	0.019
C3 - Fluoranthene/Pyrene	0.008	0.008	0.009	0.005
C0 - Benz(a)anthracene/Chrysene	0.076	0.064	0.080	0.060
C1 - Benz(a)anthracene/Chrysene	0.031	0.032	0.038	0.025
C2 - Benz(a)anthracene/Chrysene	0.013	0.012	0.014	0.008
C3 - Benz(a)anthracene/Chrysene	0.004	0.004	0.005	0.000
C4 - Benz(a)anthracene/Chrysene	0.002	0.001	0.002	0.000

**Table 5. Normalized Data for Factor Analysis**

Field ID:	SD9 (0.0-0.2)	SD9 (0.4-2.4)	SDS33 (2.6-3.5)	TP1 (8.0-9.0)
Acenaphthylene	0.010	0.007		0.013
Acenaphthene	0.004	0.005		0.015
Dibenzofuran	0.001	0.001		0.008
Phenanthrene	0.044	0.053		0.065
Anthracene	0.012	0.012		0.024
Fluoranthene	0.075	0.080		0.022
Pyrene	0.076	0.080		0.034
Benz[a]anthracene	0.033	0.039		0.015
Chrysene	0.048	0.057		0.018
Benzo[b]fluoranthene	0.028	0.026		0.004
Benzo[k]fluoranthene	0.043	0.034		0.010
Benzo(e)pyrene	0.030	0.021		0.005
Benzo[a]pyrene	0.044	0.033		0.009
Perylene	0.015	0.011		0.002
Indeno[1,2,3-cd]pyrene	0.021	0.018		0.002
Dibenz[a,h]anthracene	0.007	0.006		0.001
Benzo[g,h,i]perylene	0.014	0.017		0.003
C0 - Naphthalene	0.002	0.001		0.178
C1 - Naphthalene	0.001	0.001		0.081
C2 - Naphthalene	0.003	0.003		0.048
C3- Naphthalene	0.003	0.002		0.025
C4- Naphthalene	0.002	0.001		0.011
C0 - Fluorene	0.005	0.006		0.022
C1 - Fluorene	0.006	0.005		0.020
C2 - Fluorene	0.006	0.004		0.011
C3 - Fluorene	0.008	0.006		0.008
C0 - Phenanthrene/Anthracene	0.057	0.066		0.086
C1 - Phenanthrene/Anthracene	0.025	0.022		0.046
C2 - Phenanthrene/Anthracene	0.017	0.014		0.025
C3 - Phenanthrene/Anthracene	0.008	0.006		0.010
C4 - Phenanthrene/Anthracene	0.003	0.002		0.003
C0 - Dibenzothiophene	0.003	0.003		0.003
C1 - Dibenzothiophene	0.004	0.003		0.005
C2 - Dibenzothiophene	0.006	0.004		0.005
C3 - Dibenzothiophene	0.003	0.004		0.003
C0 - Fluoranthene/Pyrene	0.155	0.162		0.061
C1 - Fluoranthene/Pyrene	0.043	0.042		0.029
C2 - Fluoranthene/Pyrene	0.017	0.017		0.012
C3 - Fluoranthene/Pyrene	0.006	0.006		0.005
C0 - Benz(a)anthracene/Chrysene	0.066	0.079		0.027
C1 - Benz(a)anthracene/Chrysene	0.026	0.026		0.016
C2 - Benz(a)anthracene/Chrysene	0.011	0.010		0.005
C3 - Benz(a)anthracene/Chrysene	0.006	0.003		0.002
C4 - Benz(a)anthracene/Chrysene	0.002	0.001		0.001

**Table 5. Normalized Data for Factor Analysis**

Field ID:	TP10 (9.5-10.5)	TP13 (8-9)	TP14 (9.0-10.0)	TP14 HLDR B
Acenaphthylene	0.010	0.013	0.012	0.011
Acenaphthene	0.045	0.007	0.042	0.016
Dibenzofuran	0.018	0.004	0.003	0.002
Phenanthrene	0.090	0.074	0.087	0.006
Anthracene	0.032	0.024	0.022	0.010
Fluoranthene	0.039	0.025	0.026	0.022
Pyrene	0.047	0.041	0.048	0.039
Benz[a]anthracene	0.023	0.017	0.019	0.016
Chrysene	0.028	0.021	0.024	0.024
Benzo[b]fluoranthene	0.008	0.006	0.006	0.010
Benzo[k]fluoranthene	0.018	0.013	0.012	0.017
Benzo(e)pyrene	0.009	0.008	0.009	0.014
Benzo[a]pyrene	0.015	0.014	0.013	0.014
Perylene	0.003	0.003	0.002	0.003
Indeno[1,2,3-cd]pyrene	0.005	0.005	0.005	0.012
Dibenz[a,h]anthracene	0.002	0.002	0.002	0.004
Benzo[g,h,i]perylene	0.006	0.005	0.007	0.015
C0 - Naphthalene	0.001	0.154	0.024	0.002
C1 - Naphthalene	0.031	0.107	0.030	0.004
C2 - Naphthalene	0.038	0.061	0.044	0.043
C3- Naphthalene	0.018	0.015	0.027	0.135
C4- Naphthalene	0.005	0.003	0.012	0.091
C0 - Fluorene	0.035	0.027	0.028	0.011
C1 - Fluorene	0.022	0.013	0.024	0.025
C2 - Fluorene	0.008	0.006	0.013	0.030
C3 - Fluorene	0.005	0.004	0.009	0.024
C0 - Phenanthrene/Anthracene	0.119	0.097	0.112	0.015
C1 - Phenanthrene/Anthracene	0.053	0.046	0.061	0.030
C2 - Phenanthrene/Anthracene	0.023	0.016	0.031	0.047
C3 - Phenanthrene/Anthracene	0.009	0.004	0.013	0.028
C4 - Phenanthrene/Anthracene	0.003	0.001	0.006	0.014
C0 - Dibenzothiophene	0.005	0.005	0.009	0.006
C1 - Dibenzothiophene	0.004	0.005	0.008	0.017
C2 - Dibenzothiophene	0.003	0.003	0.007	0.025
C3 - Dibenzothiophene	0.002	0.001	0.003	0.015
C0 - Fluoranthene/Pyrene	0.092	0.067	0.084	0.068
C1 - Fluoranthene/Pyrene	0.038	0.027	0.038	0.040
C2 - Fluoranthene/Pyrene	0.013	0.008	0.014	0.020
C3 - Fluoranthene/Pyrene	0.005	0.003	0.006	0.008
C0 - Benz(a)anthracene/Chrysene	0.041	0.031	0.035	0.033
C1 - Benz(a)anthracene/Chrysene	0.018	0.012	0.019	0.019
C2 - Benz(a)anthracene/Chrysene	0.007	0.003	0.006	0.009
C3 - Benz(a)anthracene/Chrysene	0.003	0.001	0.002	0.004
C4 - Benz(a)anthracene/Chrysene	0.001	0.000	0.001	0.002

**Table 5. Normalized Data for Factor Analysis**

Field ID:	TP15 (9.0-10.0)	TP2 (8.0-9.0)	TP20 (6.5-7.0)	TP4 (9.5-10.0)
Acenaphthylene	0.005	0.003	0.020	0.006
Acenaphthene	0.038	0.031	0.003	0.032
Dibenzofuran	0.002	0.003	0.003	0.003
Phenanthrene	0.068	0.061	0.083	0.057
Anthracene	0.021	0.016	0.022	0.016
Fluoranthene	0.019	0.018	0.027	0.022
Pyrene	0.033	0.035	0.057	0.039
Benz[a]anthracene	0.013	0.013	0.017	0.015
Chrysene	0.016	0.017	0.022	0.020
Benzo[b]fluoranthene	0.003	0.004	0.007	0.005
Benzo[k]fluoranthene	0.005	0.007	0.012	0.010
Benzo(e)pyrene	0.004	0.005	0.011	0.007
Benzo[a]pyrene	0.006	0.008	0.018	0.009
Perylene	0.001	0.002	0.003	0.002
Indeno[1,2,3-cd]pyrene	0.002	0.003	0.006	0.005
Dibenz[a,h]anthracene	0.001	0.001	0.002	0.002
Benzo[g,h,i]perylene	0.003	0.003	0.008	0.008
C0 - Naphthalene	0.061	0.001	0.168	0.002
C1 - Naphthalene	0.099	0.032	0.095	0.031
C2 - Naphthalene	0.074	0.101	0.029	0.068
C3- Naphthalene	0.044	0.100	0.006	0.084
C4- Naphthalene	0.022	0.048	0.001	0.054
C0 - Fluorene	0.022	0.016	0.019	0.018
C1 - Fluorene	0.021	0.021	0.011	0.022
C2 - Fluorene	0.017	0.024	0.002	0.025
C3 - Fluorene	0.017	0.018	0.001	0.023
C0 - Phenanthrene/Anthracene	0.084	0.076	0.104	0.077
C1 - Phenanthrene/Anthracene	0.056	0.061	0.038	0.057
C2 - Phenanthrene/Anthracene	0.040	0.044	0.009	0.044
C3 - Phenanthrene/Anthracene	0.022	0.021	0.001	0.021
C4 - Phenanthrene/Anthracene	0.012	0.010	0.001	0.011
C0 - Dibenzothiophene	0.004	0.007	0.007	0.006
C1 - Dibenzothiophene	0.007	0.013	0.005	0.012
C2 - Dibenzothiophene	0.009	0.013	0.002	0.014
C3 - Dibenzothiophene	0.006	0.008	0.000	0.009
C0 - Fluoranthene/Pyrene	0.055	0.062	0.090	0.067
C1 - Fluoranthene/Pyrene	0.026	0.030	0.031	0.030
C2 - Fluoranthene/Pyrene	0.013	0.013	0.008	0.014
C3 - Fluoranthene/Pyrene	0.006	0.006	0.001	0.006
C0 - Benz(a)anthracene/Chrysene	0.022	0.026	0.033	0.028
C1 - Benz(a)anthracene/Chrysene	0.012	0.013	0.012	0.013
C2 - Benz(a)anthracene/Chrysene	0.006	0.005	0.003	0.005
C3 - Benz(a)anthracene/Chrysene	0.002	0.002	0.000	0.002
C4 - Benz(a)anthracene/Chrysene	0.001	0.001	0.000	0.001

**Table 5. Normalized Data for Factor Analysis**

Field ID:	TP5 (8.5-9.5)	TP6 (9.5-10.5)	TP9 (11-11.5)
Acenaphthylene	0.005	0.027	0.004
Acenaphthene	0.036	0.009	0.055
Dibenzofuran	0.005	0.003	0.003
Phenanthrene	0.062	0.079	0.063
Anthracene	0.020	0.022	0.025
Fluoranthene	0.020	0.020	0.038
Pyrene	0.032	0.044	0.057
Benz[a]anthracene	0.014	0.012	0.024
Chrysene	0.018	0.015	0.033
Benzo[b]fluoranthene	0.005	0.003	0.010
Benzo[k]fluoranthene	0.009	0.008	0.018
Benzo(e)pyrene	0.007	0.006	0.012
Benzo[a]pyrene	0.011	0.011	0.018
Perylene	0.002	0.002	0.003
Indeno[1,2,3-cd]pyrene	0.004	0.003	0.007
Dibenz[a,h]anthracene	0.001	0.001	0.002
Benzo[g,h,i]perylene	0.005	0.004	0.008
C0 - Naphthalene	0.159	0.250	0.002
C1 - Naphthalene	0.074	0.092	0.031
C2 - Naphthalene	0.059	0.033	0.024
C3- Naphthalene	0.033	0.009	0.025
C4- Naphthalene	0.014	0.001	0.016
C0 - Fluorene	0.021	0.020	0.019
C1 - Fluorene	0.020	0.014	0.015
C2 - Fluorene	0.011	0.003	0.013
C3 - Fluorene	0.008	0.000	0.012
C0 - Phenanthrene/Anthracene	0.082	0.101	0.084
C1 - Phenanthrene/Anthracene	0.048	0.041	0.049
C2 - Phenanthrene/Anthracene	0.027	0.011	0.036
C3 - Phenanthrene/Anthracene	0.011	0.002	0.019
C4 - Phenanthrene/Anthracene	0.005	0.001	0.010
C0 - Dibenzothiophene	0.004	0.006	0.006
C1 - Dibenzothiophene	0.006	0.004	0.008
C2 - Dibenzothiophene	0.006	0.002	0.009
C3 - Dibenzothiophene	0.003	0.000	0.007
C0 - Fluoranthene/Pyrene	0.059	0.072	0.100
C1 - Fluoranthene/Pyrene	0.028	0.026	0.038
C2 - Fluoranthene/Pyrene	0.012	0.006	0.016
C3 - Fluoranthene/Pyrene	0.005	0.001	0.007
C0 - Benz(a)anthracene/Chrysene	0.026	0.023	0.046
C1 - Benz(a)anthracene/Chrysene	0.013	0.009	0.018
C2 - Benz(a)anthracene/Chrysene	0.006	0.002	0.007
C3 - Benz(a)anthracene/Chrysene	0.002	0.000	0.003
C4 - Benz(a)anthracene/Chrysene	0.000	0.000	0.001

Table 6.

Value number	Eigenvalues of covariance matrix, and related statistics (Nyack final data) Active variables only			
	Eigenvalue	% Total variance	Cumulative Eigenvalue	Cumulative %
1	0.008171	55.14712	0.008171	55.1471
2	0.002258	15.24243	0.010429	70.3895
3	0.001992	13.44552	0.012421	83.8351
4	0.000531	3.58528	0.012952	87.4203
5	0.000431	2.90996	0.013383	90.3303
6	0.000294	1.98349	0.013677	92.3138
7	0.000264	1.78066	0.013941	94.0945
8	0.000154	1.04126	0.014095	95.1357
9	0.000120	0.81245	0.014216	95.9482
10	0.000104	0.69931	0.014319	96.6475
11	0.000082	0.55567	0.014402	97.2031
12	0.000075	0.50366	0.014476	97.7068
13	0.000063	0.42331	0.014539	98.1301
14	0.000052	0.34837	0.014591	98.4785
15	0.000039	0.26111	0.014629	98.7396
16	0.000034	0.22688	0.014663	98.9665
17	0.000028	0.18680	0.014691	99.1533
18	0.000024	0.16306	0.014715	99.3163
19	0.000015	0.09864	0.014729	99.4150
20	0.000013	0.08459	0.014742	99.4996
21	0.000012	0.07762	0.014753	99.5772
22	0.000010	0.06546	0.014763	99.6426
23	0.000008	0.05704	0.014772	99.6997
24	0.000007	0.04653	0.014779	99.7462
25	0.000006	0.03991	0.014784	99.7861
26	0.000005	0.03423	0.014790	99.8204
27	0.000005	0.03314	0.014794	99.8535
28	0.000004	0.02865	0.014799	99.8821
29	0.000003	0.02304	0.014802	99.9052
30	0.000002	0.01675	0.014805	99.9219
31	0.000002	0.01433	0.014807	99.9363
32	0.000002	0.01297	0.014809	99.9492
33	0.000002	0.01207	0.014810	99.9613
34	0.000001	0.00894	0.014812	99.9702
35	0.000001	0.00657	0.014813	99.9768
36	0.000001	0.00572	0.014814	99.9825
37	0.000001	0.00503	0.014814	99.9876
38	0.000001	0.00385	0.014815	99.9914
39	0.000000	0.00275	0.014815	99.9942
40	0.000000	0.00248	0.014816	99.9967
41	0.000000	0.00166	0.014816	99.9983
42	0.000000	0.00087	0.014816	99.9992
43	0.000000	0.00081	0.014816	100.0000

**C**  
**RECALCULATED SAMPLE DATA**

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Field ID:	BSD1 (0-2)	BSD10 (0-2)	BSD11 (0-2)	BSD12 (0-2)
Lab ID:	c1f090120-011	c1f090120-006	c1f090120-001	c1f090120-002
PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.03	ND	ND	ND
2-Methylnaphthalene	0.01	ND	ND	ND
1-Methylnaphthalene	0.01	ND	ND	ND
Acenaphthylene	0.05	ND	ND	ND
Acenaphthene	0.01	ND	ND	ND
Dibenzofuran	0.01	ND	ND	ND
Fluorene	0.02	ND	ND	ND
Phenanthrene	0.21	ND	ND	ND
Anthracene	0.05	ND	ND	ND
Fluoranthene	0.48	ND	0	ND
Pyrene	0.49	ND	0	ND
Benz[a]anthracene	0.25	ND	ND	ND
Chrysene	0.28	ND	ND	ND
Benzo[b]fluoranthene	0.31	ND	ND	ND
Benzo[k]fluoranthene	0.25	ND	ND	ND
Benzo(e)pyrene	0.31	ND	ND	ND
Benzo[a]pyrene	0.38	ND	ND	ND
Perylene	0.63	0.13	0.17	0.22
Indeno[1,2,3-cd]pyrene	0.27	ND	ND	ND
Dibenz[a,h]anthracene	0.05	ND	ND	ND
Benzo[g,h,i]perylene	0.3	ND	ND	ND
ALKYLATED PAHs:				
C0 - Naphthalene	0.03	ND	ND	ND
C1 - Naphthalene	0.01	ND	ND	ND
C2 - Naphthalene	0.02	ND	ND	ND
C3 - Naphthalene	0.01	ND	ND	ND
C4 - Naphthalene	ND	ND	ND	ND
C0 - Fluorene	0.02	ND	ND	ND
C1 - Fluorene	0.03	ND	ND	ND
C2 - Fluorene	0.08	ND	ND	ND
C3 - Fluorene	0.02	ND	ND	ND
C0 - Phenanthrene/Anthracene	0.26	ND	ND	ND
C1 - Phenanthrene/Anthracene	0.43	ND	ND	ND
C2 - Phenanthrene/Anthracene	0.18	ND	ND	ND
C3 - Phenanthrene/Anthracene	0.06	ND	ND	ND
C4 - Phenanthrene/Anthracene	ND	ND	ND	ND
C0 - Dibenzothiophene	0.01	ND	ND	ND
C1 - Dibenzothiophene	0.01	ND	ND	ND
C2 - Dibenzothiophene	0.02	ND	ND	ND
C3 - Dibenzothiophene	0.01	ND	ND	ND
C0 - Fluoranthene/Pyrene	1.01	ND	0	ND
C1 - Fluoranthene/Pyrene	0.34	ND	ND	ND
C2 - Fluoranthene/Pyrene	0.17	ND	ND	ND
C3 - Fluoranthene/Pyrene	0.07	ND	ND	ND
C0 - Benz(a)anthracene/Chrysene	0.51	ND	ND	ND
C1 - Benz(a)anthracene/Chrysene	0.23	ND	ND	ND
C2 - Benz(a)anthracene/Chrysene	0.11	ND	ND	ND
C3 - Benz(a)anthracene/Chrysene	0.02	ND	ND	ND
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND

Field ID:	BSD13 (0-2)	BSD14 (0-2)	BSD15 (0-2)	BSD16 (0-2)
Lab ID:	c1f090120-003	c1f090120-015 2x	c1f090120-016	c1f090120-017
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	ND	0.02	0.04	0.02
2-Methylnaphthalene	ND	0.01	0.03	0.01
1-Methylnaphthalene	ND	0.01	0.03	0.01
Acenaphthylene	ND	0.07	0.15	0.04
Acenaphthene	ND	0.06	0.04	0.01
Dibenzofuran	ND	0.02	0.02	0.01
Fluorene	ND	0.08	0.07	0.02
Phenanthrene	ND	1.06	0.79	0.13
Anthracene	ND	0.15	0.12	0.04
Fluoranthene	ND	2.49	1.51	0.37
Pyrene	ND	2.21	1.68	0.42
Benz[a]anthracene	ND	0.93	0.74	0.2
Chrysene	ND	1.15	1.01	0.2
Benzo[b]fluoranthene	ND	1.25	1.1	0.2
Benzo[k]fluoranthene	ND	1.03	0.72	0.19
Benzo(e)pyrene	ND	0.99	0.88	0.21
Benzo[a]pyrene	ND	1.2	0.85	0.26
Perylene	0.24	0.39	0.42	0.36
Indeno[1,2,3-cd]pyrene	ND	1.11	0.8	0.21
Dibenz[a,h]anthracene	ND	0.22	0.19	0.05
Benzo[g,h,i]perylene	ND	1.11	1.3	0.25
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	ND	0.02	0.04	0.02
C1 - Naphthalene	ND	0.01	0.04	0.01
C2 - Naphthalene	ND	0.02	0.07	0.01
C3- Naphthalene	ND	0.01	0.08	ND
C4- Naphthalene	ND	ND	0.03	ND
C0 - Fluorene	ND	0.08	0.07	0.02
C1 - Fluorene	ND	0.07	0.15	0.02
C2 - Fluorene	ND	0.03	0.11	0.02
C3 - Fluorene	ND	0.09	0.29	0.01
C0 - Phenanthrene/Anthracene	ND	1.22	0.91	0.18
C1 - Phenanthrene/Anthracene	ND	0.47	0.89	0.18
C2 - Phenanthrene/Anthracene	ND	0.27	0.74	0.11
C3 - Phenanthrene/Anthracene	ND	0.11	0.41	0.06
C4 - Phenanthrene/Anthracene	ND	ND	0.16	ND
C0 - Dibenzothiophene	ND	0.05	0.07	0.01
C1 - Dibenzothiophene	ND	0.04	0.17	ND
C2 - Dibenzothiophene	ND	0.05	0.26	ND
C3 - Dibenzothiophene	ND	0.02	0.17	ND
C0 - Fluoranthene/Pyrene	ND	4.73	3.37	0.82
C1 - Fluoranthene/Pyrene	ND	0.88	1.24	0.3
C2 - Fluoranthene/Pyrene	ND	0.45	0.72	0.16
C3 - Fluoranthene/Pyrene	ND	0.21	0.41	0.05
C0 - Benz(a)anthracene/Chrysene	ND	2.14	1.7	0.39
C1 - Benz(a)anthracene/Chrysene	ND	0.54	0.87	0.18
C2 - Benz(a)anthracene/Chrysene	ND	0.22	0.55	0.08
C3 - Benz(a)anthracene/Chrysene	ND	0.06	0.23	0
C4 - Benz(a)anthracene/Chrysene	ND	ND	0.12	ND

Field ID:	BSD18 (0-2)	BSD19 (0-2)	BSD2 (0-2)	BSD20 (0-2)
Lab ID:	c1f090124-001	c1f090124-002	c1f090120-012	c1f090124-003
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.01	0.02	ND	0.01
2-Methylnaphthalene	0.01	0.01	ND	0.01
1-Methylnaphthalene	0	0	ND	0
Acenaphthylene	0.02	0.07	ND	0.04
Acenaphthene	0.01	0.01	ND	0.01
Dibenzofuran	0.01	0.01	ND	0.01
Fluorene	0.02	0.02	ND	0.01
Phenanthrene	0.16	0.09	0	0.09
Anthracene	0.03	0.04	0	0.03
Fluoranthene	0.38	0.28	0	0.25
Pyrene	0.38	0.47	0	0.4
Benz[a]anthracene	0.17	0.25	ND	0.2
Chrysene	0.18	0.24	ND	0.18
Benzo[b]fluoranthene	0.19	0.28	ND	0.17
Benzo[k]fluoranthene	0.14	0.21	ND	0.18
Benzo(e)pyrene	0.15	0.26	ND	0.19
Benzo[a]pyrene	0.2	0.37	ND	0.27
Perylene	0.16	0.15	0.09	0.15
Indeno[1,2,3-cd]pyrene	0.16	0.23	ND	0.16
Dibenz[a,h]anthracene	0.04	0.06	ND	0.04
Benzo[g,h,i]perylene	0.16	0.24	0	0.17
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.01	0.02	ND	0.01
C1 - Naphthalene	0.01	0.01	ND	0.01
C2 - Naphthalene	0	0.01	ND	0
C3- Naphthalene	ND	0.01	ND	ND
C4- Naphthalene	ND	ND	ND	ND
C0 - Fluorene	0.02	0.02	ND	0.01
C1 - Fluorene	0.01	0.03	ND	0.02
C2 - Fluorene	ND	0.04	ND	0.02
C3 - Fluorene	0.01	0.03	ND	0.01
C0 - Phenanthrene/Anthracene	0.19	0.14	0	0.12
C1 - Phenanthrene/Anthracene	0.11	0.14	ND	0.11
C2 - Phenanthrene/Anthracene	0.06	0.15	ND	0.12
C3 - Phenanthrene/Anthracene	0.02	0.11	ND	0.08
C4 - Phenanthrene/Anthracene	ND	0.01	ND	0.01
C0 - Dibenzothiophene	0.01	0.01	ND	0.01
C1 - Dibenzothiophene	0.01	0.02	ND	0.01
C2 - Dibenzothiophene	0	0.03	ND	0.01
C3 - Dibenzothiophene	ND	0.02	ND	0
C0 - Fluoranthene/Pyrene	0.76	0.85	0	0.69
C1 - Fluoranthene/Pyrene	0.19	0.43	ND	0.33
C2 - Fluoranthene/Pyrene	0.09	0.23	ND	0.18
C3 - Fluoranthene/Pyrene	0.01	0.11	ND	0.08
C0 - Benz(a)anthracene/Chrysene	0.34	0.47	ND	0.37
C1 - Benz(a)anthracene/Chrysene	0.11	0.29	ND	0.22
C2 - Benz(a)anthracene/Chrysene	0.03	0.13	ND	0.1
C3 - Benz(a)anthracene/Chrysene	ND	0.03	ND	0.01
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND

Field ID:	BSD3 (0-2)	BSD4 (0-2)	BSD5 (0-2)	BSD50 (0-2)
Lab ID:	c1f090120-013	c1f090120-014	c1f090120-007	c1f090120-008
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	ND	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND	ND
1-Methylnaphthalene	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Phenanthrene	0.01	0.02	ND	ND
Anthracene	0.01	0	ND	ND
Fluoranthene	0.01	0.06	ND	ND
Pyrene	0.01	0.04	ND	ND
Benz[a]anthracene	ND	0	ND	ND
Chrysene	ND	0.02	ND	ND
Benzo[b]fluoranthene	ND	0.01	ND	ND
Benzo[k]fluoranthene	ND	0.01	ND	ND
Benzo(e)pyrene	ND	0.01	ND	ND
Benzo[a]pyrene	ND	0.01	ND	ND
Perylene	0.1	0.13	0.11	0.06
Indeno[1,2,3-cd]pyrene	ND	0.01	ND	ND
Dibenz[a,h]anthracene	ND	ND	ND	ND
Benzo[g,h,i]perylene	0.07	0.07	ND	ND
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	ND	ND	ND	ND
C1 - Naphthalene	ND	ND	ND	ND
C2 - Naphthalene	ND	ND	ND	ND
C3- Naphthalene	ND	ND	ND	ND
C4- Naphthalene	ND	ND	ND	ND
C0 - Fluorene	ND	ND	ND	ND
C1 - Fluorene	ND	ND	ND	ND
C2 - Fluorene	ND	ND	ND	ND
C3 - Fluorene	ND	0.01	ND	ND
C0 - Phenanthrene/Anthracene	0.01	0.02	ND	ND
C1 - Phenanthrene/Anthracene	ND	0	ND	ND
C2 - Phenanthrene/Anthracene	ND	ND	ND	ND
C3 - Phenanthrene/Anthracene	ND	ND	ND	ND
C4 - Phenanthrene/Anthracene	ND	ND	ND	ND
C0 - Dibenzothiophene	ND	ND	ND	ND
C1 - Dibenzothiophene	ND	ND	ND	ND
C2 - Dibenzothiophene	ND	ND	ND	ND
C3 - Dibenzothiophene	ND	ND	ND	ND
C0 - Fluoranthene/Pyrene	0.01	0.1	ND	ND
C1 - Fluoranthene/Pyrene	ND	ND	ND	ND
C2 - Fluoranthene/Pyrene	ND	0	ND	ND
C3 - Fluoranthene/Pyrene	ND	ND	ND	ND
C0 - Benz(a)anthracene/Chrysene	ND	0.02	ND	ND
C1 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND
C2 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND
C3 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND

Field ID:	BSD6 (0-2)	BSD7 (0-2)	BSD8 (0-2)	BSDS9 (0-2)
Lab ID:	c1f090120-009	c1f090120-010	c1f090120-004 2x	c1f090120-005
<b>PAH COMPOUNDS:</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Naphthalene	0	ND	0.03	ND
2-Methylnaphthalene	ND	ND	0.03	ND
1-Methylnaphthalene	ND	ND	0.04	ND
Acenaphthylene	ND	ND	0.13	ND
Acenaphthene	ND	ND	0.2	ND
Dibenzofuran	ND	ND	0.07	ND
Fluorene	ND	ND	0.28	ND
Phenanthrene	ND	ND	3.22	ND
Anthracene	ND	ND	0.35	ND
Fluoranthene	ND	0	5.81	ND
Pyrene	ND	0	4.9	ND
Benz[a]anthracene	ND	ND	2.05	0.01
Chrysene	ND	ND	2.6	0.01
Benzo[b]fluoranthene	ND	ND	3	ND
Benzo[k]fluoranthene	ND	ND	1.72	ND
Benzo(e)pyrene	ND	ND	1.97	ND
Benzo[a]pyrene	ND	ND	2.61	ND
Perylene	0.31	0.22	0.83	0.22
Indeno[1,2,3-cd]pyrene	ND	ND	2.14	ND
Dibenz[a,h]anthracene	ND	ND	0.41	ND
Benzo[g,h,i]perylene	ND	ND	1.92	0
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0	ND	0.03	ND
C1 - Naphthalene	ND	ND	0.04	ND
C2 - Naphthalene	ND	ND	0.08	ND
C3- Naphthalene	ND	ND	0.09	ND
C4- Naphthalene	ND	ND	0.02	ND
C0 - Fluorene	ND	ND	0.28	ND
C1 - Fluorene	ND	ND	0.21	ND
C2 - Fluorene	ND	ND	0.19	ND
C3 - Fluorene	ND	ND	0.33	ND
C0 - Phenanthrene/Anthracene	ND	ND	3.59	ND
C1 - Phenanthrene/Anthracene	ND	ND	1.56	ND
C2 - Phenanthrene/Anthracene	ND	ND	0.8	ND
C3 - Phenanthrene/Anthracene	ND	ND	0.32	ND
C4 - Phenanthrene/Anthracene	ND	ND	0.05	ND
C0 - Dibenzothiophene	ND	ND	0.17	ND
C1 - Dibenzothiophene	ND	ND	0.22	ND
C2 - Dibenzothiophene	ND	ND	0.24	ND
C3 - Dibenzothiophene	ND	ND	0.12	ND
C0 - Fluoranthene/Pyrene	ND	0	11	ND
C1 - Fluoranthene/Pyrene	ND	ND	2.14	ND
C2 - Fluoranthene/Pyrene	ND	ND	0.93	ND
C3 - Fluoranthene/Pyrene	ND	ND	ND	ND
C0 - Benz(a)anthracene/Chrysene	ND	ND	4.51	ND
C1 - Benz(a)anthracene/Chrysene	ND	ND	1.21	ND
C2 - Benz(a)anthracene/Chrysene	ND	ND	0.55	ND
C3 - Benz(a)anthracene/Chrysene	ND	ND	0.25	ND
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND

Field ID:	MW10D (12-13)	MW10S (11-12)	MW11-BC (10-11)	MW1D (4.0-5.0)
Lab ID:	c1e180181-003 2x	c1e230237-001 4x	C1G170143-001/re	992414C-04
<b>PAH COMPOUNDS:</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Naphthalene	8.75	0.26	0.73	0.02
2-Methylnaphthalene	2.92	ND	0.11	0.02
1-Methylnaphthalene	8.1	3.23	0.17	0.01
Acenaphthylene	1.46	1.15	0.47	0.01
Acenaphthene	11.4	8.67	0.08	0.01
Dibenzofuran	0.08	0.66	0.03	0
Fluorene	6.48	3.45	0.03	0.01
Phenanthrene	37	21.1	0.57	0.08
Anthracene	9.77	5.42	0.23	0.02
Fluoranthene	17.5	10.4	1.9	0.05
Pyrene	29.8	16.7	5.65	0.08
Benz[a]anthracene	16.2	6.3	1.8	0.04
Chrysene	17.1	6.67	2.27	0.05
Benzo[b]fluoranthene	7.11	4.09	3.12	0.02
Benzo[k]fluoranthene	7.41	4.26	1.54	0.03
Benzo(e)pyrene	6.26	3.71	2.85	0.02
Benzo[a]pyrene	9.72	6.29	4.19	0.04
Perylene	1.36	0.99	0.6	0.01
Indeno[1,2,3-cd]pyrene	1.76	3.04	1.97	0.02
Dibenz[a,h]anthracene	0.17	0.98	0.53	0.01
Benzo[g,h,i]perylene	1.67	3.13	1.99	0.06
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	8.75	0.26	0.73	0.02
C1 - Naphthalene	1.85	ND	0.17	0.01
C2 - Naphthalene	2.64	1.47	0.13	0
C3- Naphthalene	0.59	0.5	0.08	ND
C4- Naphthalene	0.17	0.13	0.04	ND
C0 - Fluorene	6.48	3.45	0.03	0.01
C1 - Fluorene	1.02	1.32	0.19	0.01
C2 - Fluorene	0.11	0.08	0.2	ND
C3 - Fluorene	0.14	0.3	0.29	ND
C0 - Phenanthrene/Anthracene	37	21	0.81	0.09
C1 - Phenanthrene/Anthracene	6.36	3.55	0.64	0.05
C2 - Phenanthrene/Anthracene	1.65	2.02	0.8	0.02
C3 - Phenanthrene/Anthracene	0.39	0.46	0.42	0
C4 - Phenanthrene/Anthracene	0.2	0.08	0.18	0
C0 - Dibenzothiophene	2.48	2.12	0.14	0
C1 - Dibenzothiophene	0.07	0.96	0.22	0
C2 - Dibenzothiophene	0.41	0.26	0.24	0
C3 - Dibenzothiophene	0.28	0.15	0.15	ND
C0 - Fluoranthene/Pyrene	29.8	16.6	8	0.14
C1 - Fluoranthene/Pyrene	4.03	1.98	2.54	0.05
C2 - Fluoranthene/Pyrene	0.73	0.17	1.24	0.01
C3 - Fluoranthene/Pyrene	0.12	0.07	0.47	ND
C0 - Benz(a)anthracene/Chrysene	14.3	5.67	3.88	0.07
C1 - Benz(a)anthracene/Chrysene	5.68	1.87	1.7	0.02
C2 - Benz(a)anthracene/Chrysene	0.71	0.25	0.6	0
C3 - Benz(a)anthracene/Chrysene	0.13	0.04	0.22	ND
C4 - Benz(a)anthracene/Chrysene	0.02	ND	0.09	ND

Field ID:	MW2 (10.0-12.4)	MW3 (12.0-13.8)	MW3D (10.0-12.0)	MW3S-CH(10-12)
Lab ID:	992414B-10	992414B-12	992746A-01	c1e180181-008 2x
<b>PAH COMPOUNDS:</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Naphthalene	22.6	581	332	3.33
2-Methylnaphthalene	13	254	129	1.28
1-Methylnaphthalene	38.7	175	100	1.5
Acenaphthylene	4.91	12.2	5.22	0.08
Acenaphthene	56.8	165	90.1	1.45
Dibenzofuran	3.38	13.7	6.09	0.28
Fluorene	27.6	80.9	39.2	0.52
Phenanthrene	108	286	142	1.46
Anthracene	36.2	101	45.6	0.43
Fluoranthene	33.8	100	40.1	0.84
Pyrene	60.3	163	71.1	1.19
Benz[a]anthracene	21.7	65.5	26.3	0.48
Chrysene	28.9	83.1	34.5	0.46
Benzo[b]fluoranthene	5.45	16.4	8.21	0.29
Benzo[k]fluoranthene	11.8	41.7	16.4	0.27
Benzo(e)pyrene	8.17	25.1	12.1	0.29
Benzo[a]pyrene	14.1	44.1	21.3	0.45
Perylene	2.1	7.97	3.05	0.13
Indeno[1,2,3-cd]pyrene	3.79	13	6.62	0.24
Dibenz[a,h]anthracene	1.25	3.98	2.44	0.06
Benzo[g,h,i]perylene	4.79	15.3	8.33	0.24
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	22.6	581	332	3.33
C1 - Naphthalene	29.7	197	108	1.7
C2 - Naphthalene	47.6	141	76.3	0.59
C3- Naphthalene	21.8	56.2	31.3	0.24
C4- Naphthalene	5.93	14	8.83	0.05
C0 - Fluorene	27.6	80.9	39.2	0.52
C1 - Fluorene	35.8	73.5	38.7	0.26
C2 - Fluorene	15	41.6	19.4	0.16
C3 - Fluorene	7.87	15.2	7.87	0.07
C0 - Phenanthrene/Anthracene	143	383	185	1.93
C1 - Phenanthrene/Anthracene	71.8	189	87.6	1.07
C2 - Phenanthrene/Anthracene	30.2	84.7	36.5	0.58
C3 - Phenanthrene/Anthracene	8.27	25.2	9.77	0.2
C4 - Phenanthrene/Anthracene	2.02	9.14	1.33	0.01
C0 - Dibenzothiophene	10.2	23	10.6	0.08
C1 - Dibenzothiophene	10.1	22.9	10.6	0.08
C2 - Dibenzothiophene	7.35	17.3	7.41	0.06
C3 - Dibenzothiophene	3.29	7.36	2.68	0.01
C0 - Fluoranthene/Pyrene	107	304	128	2.26
C1 - Fluoranthene/Pyrene	47.2	130	54.8	0.88
C2 - Fluoranthene/Pyrene	14.8	44	15.8	0.33
C3 - Fluoranthene/Pyrene	4.44	15.1	4.47	0.1
C0 - Benz(a)anthracene/Chrysene	41.2	123	50.4	0.91
C1 - Benz(a)anthracene/Chrysene	18.6	58.1	22.2	0.39
C2 - Benz(a)anthracene/Chrysene	5.63	22.1	7.12	0.14
C3 - Benz(a)anthracene/Chrysene	1.01	2.83	1.49	ND
C4 - Benz(a)anthracene/Chrysene	0.18	ND	1.03	ND

Field ID:	MW3S-CH(17.6-18.0)	MW4 (12.0-13.1)	MW4-CH (6-8)	MW5 (14.0-16.0)
Lab ID:	c1e180181-004 20x	992477A-03	c1e250124-001 2x	992414B-11
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	8.98	114	0.12	5550
2-Methylnaphthalene	9.14	125	0.06	3280
1-Methylnaphthalene	5.61	122	0.06	1080
Acenaphthylene	0.21	9.32	0.21	164
Acenaphthene	0.29	117	0.14	731
Dibenzofuran	0.26	6.58	0.07	65.8
Fluorene	0.77	51.8	0.15	403
Phenanthrene	1.94	193	1.24	1520
Anthracene	0.2	66	0.26	509
Fluoranthene	0.75	63.6	2.1	544
Pyrene	0.8	107	2.25	906
Benz[a]anthracene	0.42	40.5	1.16	358
Chrysene	0.45	52.2	1.26	447
Benzo[b]fluoranthene	0.24	10.4	1.2	96.7
Benzo[k]fluoranthene	0.26	24.9	1.09	248
Benzo(e)pyrene	0.2	15.2	1.05	153
Benzo[a]pyrene	0.45	27.6	1.41	275
Perylene	0.19	4.26	0.37	43.2
Indeno[1,2,3-cd]pyrene	0.17	7.68	1.22	77.6
Dibenz[a,h]anthracene	0.04	2.57	0.32	27.5
Benzo[g,h,i]perylene	0.3	9.01	1.29	95.8
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	8.98	114	0.12	5550
C1 - Naphthalene	5.79	121	0.08	1800
C2 - Naphthalene	2.75	98	0.21	602
C3- Naphthalene	1.4	45.7	0.44	178
C4- Naphthalene	0.48	16	0.46	32.3
C0 - Fluorene	0.77	51.8	0.15	403
C1 - Fluorene	0.21	56.2	0.29	304
C2 - Fluorene	0.11	27.9	0.32	125
C3 - Fluorene	0.36	14.1	0.33	45.9
C0 - Phenanthrene/Anthracene	0.22	253	1.5	2010
C1 - Phenanthrene/Anthracene	1.11	129	0.85	879
C2 - Phenanthrene/Anthracene	1.97	56.6	0.61	337
C3 - Phenanthrene/Anthracene	1.31	17.2	0.36	98.3
C4 - Phenanthrene/Anthracene	0.62	4.63	0.11	5.88
C0 - Dibenzothiophene	0.83	16.5	0.1	102
C1 - Dibenzothiophene	1.23	16.9	0.17	84
C2 - Dibenzothiophene	0.81	12.5	0.2	46.8
C3 - Dibenzothiophene	1.15	5.61	0.08	12.9
C0 - Fluoranthene/Pyrene	0.8	199	4.55	1630
C1 - Fluoranthene/Pyrene	0.3	85.4	1.41	633
C2 - Fluoranthene/Pyrene	0.21	26.1	0.71	181
C3 - Fluoranthene/Pyrene	0.19	8.37	0.42	55.9
C0 - Benz(a)anthracene/Chrysene	1.18	76.4	2.31	667
C1 - Benz(a)anthracene/Chrysene	0.05	36.5	0.89	281
C2 - Benz(a)anthracene/Chrysene	0.51	10.8	0.32	79.5
C3 - Benz(a)anthracene/Chrysene	0.08	1.95	0.09	5.15
C4 - Benz(a)anthracene/Chrysene	ND	0.1	0.06	ND



Field ID:	MW5D (2.0-4.0)	MW6D (4.0-6.0)	MW6IO (4.0-6.0)	MW7 (10-12)
Lab ID:	992797A-01	992414C-02	992414B-14	992414B-09
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	10900	3810	0.18	854
2-Methylnaphthalene	6340	3420	0.05	1210
1-Methylnaphthalene	1930	1180	0.06	531
Acenaphthylene	939	266	1.49	193
Acenaphthene	107	806	1.34	459
Dibenzofuran	78.6	67.5	0.11	480
Fluorene	666	519	0.48	814
Phenanthrene	2800	2170	0.49	1550
Anthracene	2940	679	1.09	767
Fluoranthene	805	534	3.72	852
Pyrene	1770	1160	7.8	707
Benz[a]anthracene	523	328	2.61	449
Chrysene	648	417	3.89	517
Benzo[b]fluoranthene	193	98.7	1.64	142
Benzo[k]fluoranthene	400	237	2.35	246
Benzo(e)pyrene	308	189	2.35	105
Benzo[a]pyrene	527	344	2.65	195
Perylene	63	47.4	0.45	37.3
Indeno[1,2,3-cd]pyrene	195	109	2.11	80.6
Dibenz[a,h]anthracene	60.4	34.8	0.65	35.5
Benzo[g,h,i]perylene	179	141	3.15	72.8
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	10900	3810	0.18	854
C1 - Naphthalene	3400	1910	0.07	757
C2 - Naphthalene	944	967	1.4	932
C3- Naphthalene	210	305	8.02	466
C4- Naphthalene	12.2	40.9	9.88	125
C0 - Fluorene	666	519	0.48	814
C1 - Fluorene	268	368	2.55	656
C2 - Fluorene	26.9	108	4.5	314
C3 - Fluorene	ND	11.1	3.56	226
C0 - Phenanthrene/Anthracene	3550	2830	1.52	2380
C1 - Phenanthrene/Anthracene	1220	1050	2.95	1350
C2 - Phenanthrene/Anthracene	301	276	5.73	760
C3 - Phenanthrene/Anthracene	14.4	38.1	3.73	253
C4 - Phenanthrene/Anthracene	ND	ND	1.38	83.2
C0 - Dibenzothiophene	256	131	0.37	184
C1 - Dibenzothiophene	179	94.4	1.5	203
C2 - Dibenzothiophene	69.3	34.5	2.25	166
C3 - Dibenzothiophene	ND	ND	1.36	86.4
C0 - Fluoranthene/Pyrene	2710	1880	11.9	1740
C1 - Fluoranthene/Pyrene	858	686	6.71	1030
C2 - Fluoranthene/Pyrene	189	160	3.03	460
C3 - Fluoranthene/Pyrene	5.12	19.8	1.21	170
C0 - Benz(a)anthracene/Chrysene	976	621	5.29	789
C1 - Benz(a)anthracene/Chrysene	321	236	3.5	463
C2 - Benz(a)anthracene/Chrysene	46.5	60.8	1.37	261
C3 - Benz(a)anthracene/Chrysene	ND	ND	0.47	125
C4 - Benz(a)anthracene/Chrysene	ND	ND	0.18	40.1

Field ID:	MW7D (14.0-16.0)	MW8D (10.0-11.3)	SB1 (10-12)	SB11 (4.0-6.0)
Lab ID:	992414C-01	992414B-15	992414A-16	992973A-02
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	1.02	8.59	0.3	154
2-Methylnaphthalene	1.24	13	2.67	81.9
1-Methylnaphthalene	0.59	7.73	2.37	313
Acenaphthylene	0.09	0.73	0.11	67.5
Acenaphthene	0.76	7.82	0.47	183
Dibenzofuran	0.06	0.64	0.2	17.3
Fluorene	0.43	4.44	0.61	97.9
Phenanthrene	1.84	16.1	1.85	421
Anthracene	0.56	5.41	0.43	139
Fluoranthene	0.65	5.33	0.39	131
Pyrene	1.1	9.08	0.75	289
Benz[a]anthracene	0.44	2.98	0.26	90.5
Chrysene	0.58	3.86	0.38	91.2
Benzo[b]fluoranthene	0.17	0.78	0.06	32.4
Benzo[k]fluoranthene	0.3	1.35	0.1	49.6
Benzo(e)pyrene	0.22	1.06	0.09	56.3
Benzo[a]pyrene	0.36	1.59	0.11	85.6
Perylene	0.06	0.26	0.02	12.2
Indeno[1,2,3-cd]pyrene	0.12	0.55	0.04	27.3
Dibenz[a,h]anthracene	0.04	0.18	0.02	8.59
Benzo[g,h,i]perylene	0.15	0.68	0.05	41.7
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	1.02	8.59	0.3	154
C1 - Naphthalene	0.8	9.49	2.31	225
C2 - Naphthalene	0.64	11.8	6.18	361
C3- Naphthalene	0.28	8.32	6.83	206
C4- Naphthalene	0.08	4.26	3.86	54.2
C0 - Fluorene	0.43	4.44	0.61	97.9
C1 - Fluorene	0.43	5.8	1.07	202
C2 - Fluorene	0.21	3.05	1.76	86.8
C3 - Fluorene	0.21	2.28	1.48	29.2
C0 - Phenanthrene/Anthracene	2.37	20.8	2.31	555
C1 - Phenanthrene/Anthracene	1.17	11.7	2.94	410
C2 - Phenanthrene/Anthracene	0.48	6.71	2.6	160
C3 - Phenanthrene/Anthracene	0.16	3	1.62	27.3
C4 - Phenanthrene/Anthracene	0.06	1.31	0.83	6.21
C0 - Dibenzothiophene	0.16	1.19	0.29	43
C1 - Dibenzothiophene	0.15	1.32	0.75	48.1
C2 - Dibenzothiophene	0.1	1.37	0.97	27
C3 - Dibenzothiophene	0.04	0.76	0.63	7.09
C0 - Fluoranthene/Pyrene	1.97	15.7	1.27	477
C1 - Fluoranthene/Pyrene	0.83	6.52	0.77	255
C2 - Fluoranthene/Pyrene	0.29	2.43	0.54	79.1
C3 - Fluoranthene/Pyrene	0.11	1.04	0.34	20.2
C0 - Benz(a)anthracene/Chrysene	0.83	5.5	0.53	155
C1 - Benz(a)anthracene/Chrysene	0.38	2.59	0.39	92.2
C2 - Benz(a)anthracene/Chrysene	0.13	1.08	0.22	34.5
C3 - Benz(a)anthracene/Chrysene	0.04	0.38	0.11	9.77
C4 - Benz(a)anthracene/Chrysene	0	0.13	0.07	2.9

Field ID:	SB13 (8-10)	SB130 (8-10)	SB14 (8-12)	SB15 (12-15.2)
Lab ID:	c1e190109-002 10x	c1e190109-003 5x	c1e180181-009 100x	c1e180181-006
PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	7.99	0.99	4.31	9.39
2-Methylnaphthalene	4.49	0.51	1.28	4.96
1-Methylnaphthalene	12.9	15.8	78	3.28
Acenaphthylene	9.71	5.15	53.2	0.36
Acenaphthene	18.3	9.22	51.3	4.01
Dibenzofuran	6.51	2.13	24.9	0.42
Fluorene	12.4	9.25	180	2.17
Phenanthrene	44.2	13.3	433	9.79
Anthracene	20.2	8.71	232	2.29
Fluoranthene	78	22.9	311	3.68
Pyrene	117	46.7	463	5.72
Benz[a]anthracene	79.2	21.3	205	2.57
Chrysene	77.5	21.1	200	2.46
Benzo[b]fluoranthene	54.8	18.3	127	1.05
Benzo[k]fluoranthene	24.7	9.26	84	1.1
Benzo(e)pyrene	38.4	15.4	119	1.54
Benzo[a]pyrene	64.1	20.8	209	1.54
Perylene	9.77	3.48	31.3	0.26
Indeno[1,2,3-cd]pyrene	15.2	6.22	85.6	0.37
Dibenz[a,h]anthracene	4.89	1.91	29.5	0.05
Benzo[g,h,i]perylene	13.8	5.92	89.2	0.33
ALKYLATED PAHs:				
C0 - Naphthalene	7.99	0.99	4.31	9.39
C1 - Naphthalene	10.9	9.97	47.7	3.15
C2 - Naphthalene	19.4	22.5	82.3	0.79
C3- Naphthalene	25.8	61.5	87.8	0.16
C4- Naphthalene	13.1	38.9	24.1	0.05
C0 - Fluorene	12.4	9.25	180	2.17
C1 - Fluorene	14.9	14.7	88.9	0.27
C2 - Fluorene	13.3	17.3	46.1	0.02
C3 - Fluorene	11.1	13.7	27.2	0.15
C0 - Phenanthrene/Anthracene	65	23.5	689	9.79
C1 - Phenanthrene/Anthracene	54.7	34.2	473	1.5
C2 - Phenanthrene/Anthracene	55.8	33.3	195	0.39
C3 - Phenanthrene/Anthracene	25.9	15.3	56.8	0.07
C4 - Phenanthrene/Anthracene	9.32	5.15	9.04	0.03
C0 - Dibenzothiophene	4.85	3.28	57.8	0.72
C1 - Dibenzothiophene	7.34	7.92	57.4	0.02
C2 - Dibenzothiophene	10.6	10.6	40.4	0.08
C3 - Dibenzothiophene	8.81	6.55	17.7	0.05
C0 - Fluoranthene/Pyrene	217	77.2	823	5.71
C1 - Fluoranthene/Pyrene	114	41	307	0.45
C2 - Fluoranthene/Pyrene	46.1	17.4	96.4	0.06
C3 - Fluoranthene/Pyrene	13.9	6.84	29	ND
C0 - Benz(a)anthracene/Chrysene	150	41.1	187	2.32
C1 - Benz(a)anthracene/Chrysene	59	20.9	155	0.33
C2 - Benz(a)anthracene/Chrysene	18	7.8	44.7	0.06
C3 - Benz(a)anthracene/Chrysene	5.91	2.85	6.81	0
C4 - Benz(a)anthracene/Chrysene	2.06	0.96	1.13	ND

Field ID: SB16 (8-10) SB17 (10-12) SB18 (11-11.5) SB19 (6.0-6.2)  
 Lab ID: c1e190109-004 10x 1e230237-003 40x(2n c1e230237-002 10x c1e180181-012

PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	3.21	835	0.57	0.01
2-Methylnaphthalene	1.28	839	0.21	0
1-Methylnaphthalene	33.4	462	0.56	0
Acenaphthylene	35.6	164	2.12	0.01
Acenaphthene	136	316	4.46	ND
Dibenzofuran	11.1	366	3.55	ND
Fluorene	48.5	611	8.76	0.01
Phenanthrene	433	1350	45.6	0.02
Anthracene	150	492	16.5	0.01
Fluoranthene	297	688	42.1	0.02
Pyrene	593	535	37.3	0.02
Benz[a]anthracene	258	444	22.7	0.01
Chrysene	211	470	24	0.01
Benzo[b]fluoranthene	123	319	21.6	0
Benzo[k]fluoranthene	53.5	332	22.5	0
Benzo(e)pyrene	95.9	155	11.8	0
Benzo[a]pyrene	145	287	11.8	0.01
Perylene	20.6	55.2	4.41	0
Indeno[1,2,3-cd]pyrene	26.1	84.2	0.34	ND
Dibenz[a,h]anthracene	8.57	41.6	3.28	ND
Benzo[g,h,i]perylene	25.8	55.3	0.66	0.01

**ALKYLATED PAHs:**

C0 - Naphthalene	3.21	835	0.57	0.01
C1 - Naphthalene	21	532	0.13	ND
C2 - Naphthalene	53.7	92.8	2.32	ND
C3- Naphthalene	106	42.6	1.09	ND
C4- Naphthalene	32.6	11.5	0.32	ND
C0 - Fluorene	48.5	611	8.76	0.01
C1 - Fluorene	136	56.8	3.25	ND
C2 - Fluorene	73.3	11.6	0.24	ND
C3 - Fluorene	31.5	6.58	0.71	ND
C0 - Phenanthrene/Anthracene	589	1350	45.6	0.03
C1 - Phenanthrene/Anthracene	456	253	7.43	0.01
C2 - Phenanthrene/Anthracene	234	76.6	3.16	ND
C3 - Phenanthrene/Anthracene	67	39.3	1.35	ND
C4 - Phenanthrene/Anthracene	16.9	6.23	0.23	ND
C0 - Dibenzothiophene	43.5	125	3.53	ND
C1 - Dibenzothiophene	54.7	28.4	0.85	ND
C2 - Dibenzothiophene	43.5	5.21	0.23	ND
C3 - Dibenzothiophene	26.5	7.31	ND	ND
C0 - Fluoranthene/Pyrene	1000	534	37.2	0.04
C1 - Fluoranthene/Pyrene	472	75.2	3.27	0
C2 - Fluoranthene/Pyrene	155	14.9	0.62	ND
C3 - Fluoranthene/Pyrene	45.3	11.4	0.38	ND
C0 - Benz(a)anthracene/Chrysene	453	350	19.1	0.01
C1 - Benz(a)anthracene/Chrysene	195	171	6.38	ND
C2 - Benz(a)anthracene/Chrysene	51.3	20.4	1.1	ND
C3 - Benz(a)anthracene/Chrysene	14.3	4.66	0.08	ND
C4 - Benz(a)anthracene/Chrysene	4.05	0.85	0.04	ND

Field ID:	SB2 (8.5-10)	SB20 (7.3-7.4)	SB21 (6.3-6.6)	SB22 (7.0-7.3)
Lab ID:	992414A-15	c1e180181-001	c1e180181-011 10x	c1e180181-005
PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	ND	1.71	0.87	0.06
2-Methylnaphthalene	0.02	1.57	0.47	0.02
1-Methylnaphthalene	0.45	1.1	0.43	0.04
Acenaphthylene	0.11	0.7	0.25	0.4
Acenaphthene	0.45	0.6	0.92	0.19
Dibenzofuran	0.12	0.11	0.73	0.08
Fluorene	0.36	0.63	1.04	0.28
Phenanthrene	1.22	3.12	11.2	3.88
Anthracene	0.45	0.74	2.05	0.69
Fluoranthene	0.51	1	9.78	5.78
Pyrene	0.93	2.35	8.73	6.42
Benz[a]anthracene	0.35	0.79	4.49	4.25
Chrysene	0.46	0.83	4.77	4.5
Benzo[b]fluoranthene	0.09	0.46	4.05	4.08
Benzo[k]fluoranthene	0.15	0.31	3.41	4.25
Benzo(e)pyrene	0.13	1.06	3.07	1.92
Benzo[a]pyrene	0.18	0.85	4.4	2.62
Perylene	0.03	0.12	1.17	0.64
Indeno[1,2,3-cd]pyrene	0.06	0.53	3.17	0.91
Dibenz[a,h]anthracene	0.02	0.11	0.85	0.34
Benzo[g,h,i]perylene	0.07	0.74	2.97	0.66
ALKYLATED PAHs:				
C0 - Naphthalene	ND	1.71	0.87	0.06
C1 - Naphthalene	0.31	1.73	0.56	0.01
C2 - Naphthalene	0.9	1.14	0.58	0.06
C3- Naphthalene	2.41	0.58	0.39	0.04
C4- Naphthalene	1.78	0.38	0.06	0.02
C0 - Fluorene	0.36	0.63	1.04	0.28
C1 - Fluorene	0.63	0.36	0.35	0.14
C2 - Fluorene	1	0.29	0.98	0.01
C3 - Fluorene	1.01	0.32	0.06	0.14
C0 - Phenanthrene/Anthracene	1.67	3.89	13.2	3.88
C1 - Phenanthrene/Anthracene	2.05	2.2	4.57	0.78
C2 - Phenanthrene/Anthracene	1.89	1.26	2.43	0.23
C3 - Phenanthrene/Anthracene	1.19	0.63	1.13	0.11
C4 - Phenanthrene/Anthracene	0.68	0.31	0.65	0.03
C0 - Dibenzothiophene	0.17	0.16	0.65	0.25
C1 - Dibenzothiophene	0.45	0.2	0.57	0.14
C2 - Dibenzothiophene	0.65	0.2	0.53	0.04
C3 - Dibenzothiophene	0.43	0.12	0.36	ND
C0 - Fluoranthene/Pyrene	1.59	3.89	19.7	6.4
C1 - Fluoranthene/Pyrene	0.86	1.98	3.35	0.49
C2 - Fluoranthene/Pyrene	0.53	0.93	3.3	0.16
C3 - Fluoranthene/Pyrene	0.31	0.44	1.06	0.05
C0 - Benz(a)anthracene/Chrysene	0.68	1.58	8.89	4.07
C1 - Benz(a)anthracene/Chrysene	0.43	0.9	3.13	0.88
C2 - Benz(a)anthracene/Chrysene	0.2	0.39	0.74	0.1
C3 - Benz(a)anthracene/Chrysene	0.11	0.21	0.48	0.01
C4 - Benz(a)anthracene/Chrysene	0.08	0.07	0.03	ND

Field ID:	SB23 (13-14)	SB25 (12-16)	SB26 (16-20)	SB28 (7-10)
Lab ID:	c1e180181-010 50x	c1e180181-007 100x	c1e180181-00210x	c1e180181-013

PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	378	2.37	5.89	0.01
2-Methylnaphthalene	169	1.8	3.89	0
1-Methylnaphthalene	133	1.79	3.63	0.01
Acenaphthylene	8.38	6.8	0.25	0.1
Acenaphthene	136	4.15	0.33	0.01
Dibenzofuran	7.95	0.58	0.26	0
Fluorene	56.8	1.71	0.73	0
Phenanthrene	238	71.8	2.04	0.02
Anthracene	65.8	22.3	1.92	0.02
Fluoranthene	70.5	67.8	0.81	0.01
Pyrene	116	143	1.31	0.21
Benz[a]anthracene	44.2	44.2	2.46	0.04
Chrysene	42.3	39.7	2.61	0.09
Benzo[b]fluoranthene	20.6	19.4	0.3	0.1
Benzo[k]fluoranthene	19.4	18.7	0.31	0.05
Benzo(e)pyrene	23.7	30.2	0.47	0.36
Benzo[a]pyrene	43.6	49.3	0.47	0.22
Perylene	6.71	8.13	0.47	0.04
Indeno[1,2,3-cd]pyrene	14.3	17.7	0.04	0.4
Dibenz[a,h]anthracene	3.95	4.29	0.05	0.08
Benzo[g,h,i]perylene	16.4	22.4	0.34	0.58

#### ALKYLATED PAHs:

C0 - Naphthalene	378	2.37	5.89	0.01
C1 - Naphthalene	191	2.22	2.46	0.01
C2 - Naphthalene	107	4.97	1.57	0.02
C3- Naphthalene	40.1	20.4	0.89	0.01
C4- Naphthalene	10.6	9.52	0.25	ND
C0 - Fluorene	56.8	1.71	0.73	0
C1 - Fluorene	48.8	31	0.42	ND
C2 - Fluorene	25.5	24.7	0.17	ND
C3 - Fluorene	11.1	10.1	ND	0.01
C0 - Phenanthrene/Anthracene	310	95.1	2.04	0.04
C1 - Phenanthrene/Anthracene	149	136	1.33	0.05
C2 - Phenanthrene/Anthracene	63.8	66.9	2.04	0.05
C3 - Phenanthrene/Anthracene	17.8	16.6	2.68	0.14
C4 - Phenanthrene/Anthracene	2.12	0.52	0.47	0.12
C0 - Dibenzothiophene	20.2	6.72	0.64	0
C1 - Dibenzothiophene	21	16.1	1.3	ND
C2 - Dibenzothiophene	14.3	12.8	0.69	0.01
C3 - Dibenzothiophene	6.67	3.26	1.09	0.04
C0 - Fluoranthene/Pyrene	225	252	1.31	0.28
C1 - Fluoranthene/Pyrene	100	119	0.42	0.3
C2 - Fluoranthene/Pyrene	31.3	37.7	ND	0.27
C3 - Fluoranthene/Pyrene	8.47	9.45	ND	0.2
C0 - Benz(a)anthracene/Chrysene	84	81.5	2.27	0.13
C1 - Benz(a)anthracene/Chrysene	36.3	37.2	1.76	0.18
C2 - Benz(a)anthracene/Chrysene	9.64	13.5	0.46	0.15
C3 - Benz(a)anthracene/Chrysene	1.1	ND	ND	0.09
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.05

Field ID:	SB29 (10-12)	SB3 (14.0-15.9)	SB31 (9-9.5)	SB4 (4.0-6.0)
Lab ID:	c1e190109-001 10x	992414A-18	CIG170143-002	992414A-19
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	41.1	0.71	0.02	519
2-Methylnaphthalene	13.5	7.9	0.01	662
1-Methylnaphthalene	42.6	6.44	0.01	238
Acenaphthylene	25.6	8.79	0.07	217
Acenaphthene	61.3	2.87	0.03	20.5
Dibenzofuran	3.41	2.02	0.01	15.7
Fluorene	41.7	6.97	0.01	131
Phenanthrene	189	36.5	0.11	426
Anthracene	101	12.6	0.04	116
Fluoranthene	113	20.7	0.24	125
Pyrene	185	92.8	0.31	233
Benz[a]anthracene	89.8	23.6	0.18	66
Chrysene	82.2	32	0.2	87.3
Benzo[b]fluoranthene	70.8	9.05	0.19	24.4
Benzo[k]fluoranthene	33.7	11.2	0.17	55.1
Benzo(e)pyrene	62.1	16.4	0.19	40.9
Benzo[a]pyrene	94.6	17.5	0.25	62.6
Perylene	15.7	3.32	0.06	10.4
Indeno[1,2,3-cd]pyrene	26	7.15	0.16	26.6
Dibenz[a,h]anthracene	6.95	2.74	0.04	7.57
Benzo[g,h,i]perylene	23.4	10.9	0.18	31
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	41.1	0.71	0.02	519
C1 - Naphthalene	35.2	6.81	0.01	377
C2 - Naphthalene	54.4	21.8	0.16	203
C3- Naphthalene	39.4	16.3	0.23	69
C4- Naphthalene	17.2	8.44	0.16	16.7
C0 - Fluorene	41.7	6.97	0.01	131
C1 - Fluorene	39.6	19.2	0.04	98.9
C2 - Fluorene	21.5	16.4	0.01	28.8
C3 - Fluorene	14.7	14	0.01	16.8
C0 - Phenanthrene/Anthracene	297	47.7	0.15	533
C1 - Phenanthrene/Anthracene	127	56.3	0.11	229
C2 - Phenanthrene/Anthracene	69	46.5	0.09	66.3
C3 - Phenanthrene/Anthracene	28.9	30.6	0.04	14.1
C4 - Phenanthrene/Anthracene	9.75	12.5	0	1.3
C0 - Dibenzothiophene	11.9	0.36	0.02	35.2
C1 - Dibenzothiophene	13.9	1.3	0.02	31.9
C2 - Dibenzothiophene	12.7	2.95	0.02	16.9
C3 - Dibenzothiophene	7.5	3.3	0	4.63
C0 - Fluoranthene/Pyrene	346	114	0.61	395
C1 - Fluoranthene/Pyrene	144	71.4	0.21	141
C2 - Fluoranthene/Pyrene	52.3	35.7	0.11	38
C3 - Fluoranthene/Pyrene	14.8	18.7	0.07	11.4
C0 - Benz(a)anthracene/Chrysene	170	43.8	0.36	126
C1 - Benz(a)anthracene/Chrysene	71.5	37.2	0.15	44.7
C2 - Benz(a)anthracene/Chrysene	22.8	19.3	0.06	16.9
C3 - Benz(a)anthracene/Chrysene	9.53	6.27	0.01	2.83
C4 - Benz(a)anthracene/Chrysene	2.82	ND	ND	0.27

Field ID:	SB5 (4.0-6.0)	SB6 (10.4-12.2)	SB8 (4.0-6.0)	SB9 (14.0-15.5)
Lab ID:	992414A-20	992414C-05	992414A-17	992414B-13
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	918	0.01	0.24	0.01
2-Methylnaphthalene	1120	0.01	0.28	0
1-Methylnaphthalene	527	0.01	0.15	0
Acenaphthylene	109	0.01	0.03	0.01
Acenaphthene	198	0	0.22	0.01
Dibenzofuran	23.4	0	0.02	0
Fluorene	166	0.01	0.13	0
Phenanthrene	550	0.06	0.6	0.03
Anthracene	171	0.02	0.18	0.01
Fluoranthene	160	0.04	0.17	0.03
Pyrene	345	0.08	0.32	0.05
Benz[a]anthracene	119	0.03	0.1	0.01
Chrysene	156	0.05	0.14	0.02
Benzo[b]fluoranthene	46.5	0.01	0.03	0.01
Benzo[k]fluoranthene	85.6	0.03	0.07	0.01
Benzo(e)pyrene	75.4	0.02	0.05	0.01
Benzo[a]pyrene	116	0.02	0.08	0.01
Perylene	20.7	0	0.01	0
Indeno[1,2,3-cd]pyrene	37.8	0.01	0.03	0
Dibenz[a,h]anthracene	12.2	0	0.01	0
Benzo[g,h,i]perylene	48.7	0.01	0.03	0.01
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	918	0.01	0.24	0.01
C1 - Naphthalene	707	0.01	0.19	ND
C2 - Naphthalene	605	0	0.19	ND
C3- Naphthalene	368	ND	0.07	ND
C4- Naphthalene	148	ND	0.01	0
C0 - Fluorene	166	0.01	0.13	0
C1 - Fluorene	185	0.01	0.1	0.01
C2 - Fluorene	92	ND	0.04	ND
C3 - Fluorene	44.9	ND	0.03	ND
C0 - Phenanthrene/Anthracene	706	0.08	0.77	ND
C1 - Phenanthrene/Anthracene	420	0.05	0.32	ND
C2 - Phenanthrene/Anthracene	167	0.02	0.11	0
C3 - Phenanthrene/Anthracene	53.2	0	0.03	ND
C4 - Phenanthrene/Anthracene	9.92	0	0	0.02
C0 - Dibenzothiophene	44.7	0	0.05	ND
C1 - Dibenzothiophene	57.8	0	0.04	ND
C2 - Dibenzothiophene	42.4	0	0.02	ND
C3 - Dibenzothiophene	17.7	ND	0	0.04
C0 - Fluoranthene/Pyrene	550	0.13	0.53	ND
C1 - Fluoranthene/Pyrene	256	0.05	0.2	ND
C2 - Fluoranthene/Pyrene	82.4	0.01	0.06	0
C3 - Fluoranthene/Pyrene	25.4	ND	0.02	ND
C0 - Benz(a)anthracene/Chrysene	223	0.06	0.2	ND
C1 - Benz(a)anthracene/Chrysene	105	0.02	0.08	ND
C2 - Benz(a)anthracene/Chrysene	35.5	0	0.03	0.03
C3 - Benz(a)anthracene/Chrysene	8.25	ND	0	ND
C4 - Benz(a)anthracene/Chrysene	4.56	ND	ND	ND



Field ID:	SD1 (0.0-0.2)	SD1 (0.4-1.4)	SD10 (0.0-0.4)	SD10 (0.2-2.0)
Lab ID:	993309B-11	993309B-01	993309B-14	993309B-04
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.13	0.04	0.09	0.21
2-Methylnaphthalene	0.22	0.04	0.14	0.36
1-Methylnaphthalene	0.1	0.06	0.07	0.2
Acenaphthylene	1.16	0.17	0.53	1.75
Acenaphthene	0.39	0.16	0.37	0.91
Dibenzofuran	0.14	0.01	0.1	0.15
Fluorene	0.49	0.04	0.38	0.71
Phenanthrene	4.96	0.24	3.54	6.57
Anthracene	1.47	0.16	0.94	2.42
Fluoranthene	7.69	0.82	5.61	10.8
Pyrene	8.28	1.27	5.56	13.5
Benz[a]anthracene	3.48	0.48	2.67	5.45
Chrysene	5.05	0.6	3.93	7.33
Benzo[b]fluoranthene	2.44	0.27	1.84	2.85
Benzo[k]fluoranthene	3.65	0.39	2.31	5.52
Benzo(e)pyrene	2.75	0.35	1.52	3.66
Benzo[a]pyrene	3.94	0.53	2.32	6.23
Perylene	1.05	0.49	0.9	1.6
Indeno[1,2,3-cd]pyrene	2.09	0.26	1.48	2.8
Dibenz[a,h]anthracene	0.77	0.1	0.47	0.99
Benzo[g,h,i]perylene	1.67	0.26	1.61	2.31
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.13	0.04	0.09	0.21
C1 - Naphthalene	0.14	0.05	0.09	0.25
C2 - Naphthalene	0.24	0.12	0.18	0.63
C3- Naphthalene	0.24	0.16	0.2	0.88
C4- Naphthalene	0.12	0.08	0.07	0.56
C0 - Fluorene	0.49	0.04	0.38	0.71
C1 - Fluorene	0.65	0.29	0.41	1.74
C2 - Fluorene	0.48	0.2	0.37	1.56
C3 - Fluorene	0.68	0.13	0.45	1.54
C0 - Phenanthrene/Anthracene	6.4	0.4	4.52	8.92
C1 - Phenanthrene/Anthracene	2.68	0.48	1.66	6.83
C2 - Phenanthrene/Anthracene	2.02	0.47	0.98	4.97
C3 - Phenanthrene/Anthracene	0.98	0.21	0.44	1.67
C4 - Phenanthrene/Anthracene	0.32	0.06	0.14	0.5
C0 - Dibenzothiophene	0.27	0.07	0.21	0.51
C1 - Dibenzothiophene	0.34	0.1	0.25	1.24
C2 - Dibenzothiophene	0.45	0.11	0.3	1.44
C3 - Dibenzothiophene	0.25	0.05	0.31	0.55
C0 - Fluoranthene/Pyrene	16.3	2.24	11.3	25.8
C1 - Fluoranthene/Pyrene	5.03	0.99	2.92	10.1
C2 - Fluoranthene/Pyrene	1.86	0.34	1.36	3.56
C3 - Fluoranthene/Pyrene	0.73	0.11	0.59	0.98
C0 - Benz(a)anthracene/Chrysene	6.99	0.91	5.35	10.6
C1 - Benz(a)anthracene/Chrysene	2.8	0.43	1.67	4.81
C2 - Benz(a)anthracene/Chrysene	1	0.17	0.81	1.77
C3 - Benz(a)anthracene/Chrysene	0.4	0.06	0.32	0.63
C4 - Benz(a)anthracene/Chrysene	0.15	0.02	0.11	0.2

Field ID:	SD11 (0.0-0.2)	SD11 (0.5-2.0)	SD12 (0.0-0.7)	SD12 (4.4-4.7)
Lab ID:	993309A-01	993309A-02	993309A-19	993309A-20
<b>PAH COMPOUNDS:</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Naphthalene	0.05	0.83	0.04	210
2-Methylnaphthalene	0.07	1.02	0.06	388
1-Methylnaphthalene	0.03	0.68	0.03	131
Acenaphthylene	0.23	0.5	0.2	11.2
Acenaphthene	0.1	1.2	0.12	180
Dibenzofuran	0.04	0.04	0.04	6.74
Fluorene	0.12	0.21	0.13	81.7
Phenanthrene	1.19	1.3	1.26	215
Anthracene	0.34	0.65	0.32	46.7
Fluoranthene	1.99	2.03	1.99	56.8
Pyrene	1.95	3.31	1.9	98.4
Benz[a]anthracene	0.89	1.51	0.81	31.6
Chrysene	1.36	1.75	1.21	39
Benzo[b]fluoranthene	0.66	0.86	0.71	8.52
Benzo[k]fluoranthene	1.05	1.17	0.9	18.8
Benzo(e)pyrene	0.64	0.97	0.65	11.5
Benzo[a]pyrene	0.88	1.5	0.96	22.9
Perylene	0.46	0.95	0.41	3.66
Indeno[1,2,3-cd]pyrene	0.76	0.85	0.56	6.22
Dibenz[a,h]anthracene	0.23	0.3	0.18	2.08
Benzo[g,h,i]perylene	1.07	1.07	0.44	5.34
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.05	0.83	0.04	210
C1 - Naphthalene	0.04	0.78	0.04	215
C2 - Naphthalene	0.08	0.7	0.08	124
C3- Naphthalene	0.07	0.68	0.08	33.4
C4- Naphthalene	0.02	0.25	0.03	4.46
C0 - Fluorene	0.12	0.21	0.13	81.7
C1 - Fluorene	0.16	1.02	0.16	50.3
C2 - Fluorene	0.08	0.66	0.12	16.6
C3 - Fluorene	0.18	0.34	0.17	7.04
C0 - Phenanthrene/Anthracene	1.53	1.92	1.59	261
C1 - Phenanthrene/Anthracene	0.57	1.64	0.61	105
C2 - Phenanthrene/Anthracene	0.41	1.32	0.39	28.1
C3 - Phenanthrene/Anthracene	0.18	0.8	0.16	6.31
C4 - Phenanthrene/Anthracene	0.06	0.34	0.06	0.82
C0 - Dibenzothiophene	0.07	0.1	0.08	15.2
C1 - Dibenzothiophene	0.08	0.14	0.09	12.4
C2 - Dibenzothiophene	0.1	0.21	0.1	5.93
C3 - Dibenzothiophene	0.07	0.15	0.06	1.56
C0 - Fluoranthene/Pyrene	3.97	5.45	3.95	181
C1 - Fluoranthene/Pyrene	0.95	2.74	0.92	67.4
C2 - Fluoranthene/Pyrene	0.44	1.36	0.39	15.3
C3 - Fluoranthene/Pyrene	0.17	0.48	0.18	3.61
C0 - Benz(a)anthracene/Chrysene	1.81	2.6	1.65	59
C1 - Benz(a)anthracene/Chrysene	0.64	1.85	0.53	22.8
C2 - Benz(a)anthracene/Chrysene	0.3	0.81	0.25	6.53
C3 - Benz(a)anthracene/Chrysene	0.15	0.24	0.12	0.84
C4 - Benz(a)anthracene/Chrysene	0.07	0.12	0.06	ND

Field ID:	SD13 (0.0-0.2)	SD13 (0.5-2.1)	SD14 (0.0-0.2)	SD14 (0.7-2.1)
Lab ID:	993309B-06	993309B-07	993309B-08	993309B-09
<b>PAH COMPOUNDS:</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Naphthalene	0.04	0.06	0.09	0.45
2-Methylnaphthalene	0.07	0.09	0.14	0.55
1-Methylnaphthalene	0.03	0.04	0.07	1.14
Acenaphthylene	0.15	0.24	0.68	2.21
Acenaphthene	0.09	0.15	0.25	3.74
Dibenzofuran	0.03	0.04	0.06	0.1
Fluorene	0.1	0.14	0.18	0.62
Phenanthrene	0.89	1.28	1.69	4.15
Anthracene	0.23	0.36	0.66	2.48
Fluoranthene	1.28	2.02	2.88	7.34
Pyrene	1.26	1.95	3.48	11.1
Benz[a]anthracene	0.63	0.84	1.55	5.46
Chrysene	0.98	1.19	2.2	7.53
Benzo[b]fluoranthene	0.47	0.92	1.71	3
Benzo[k]fluoranthene	0.75	1.03	1.86	5.94
Benzo(e)pyrene	0.54	0.8	1.61	4.61
Benzo[a]pyrene	0.67	1.16	2.38	7.61
Perylene	0.31	0.8	0.79	1.83
Indeno[1,2,3-cd]pyrene	0.16	0.47	0.51	2.74
Dibenz[a,h]anthracene	0.05	0.15	0.19	0.97
Benzo[g,h,i]perylene	0.12	0.33	0.33	2.19
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.04	0.06	0.09	0.45
C1 - Naphthalene	0.04	0.05	0.1	0.91
C2 - Naphthalene	0.07	0.1	0.23	1.62
C3- Naphthalene	0.07	0.1	0.27	1.53
C4- Naphthalene	0.03	0.05	0.18	0.85
C0 - Fluorene	0.1	0.14	0.18	0.62
C1 - Fluorene	0.12	0.16	0.51	2.62
C2 - Fluorene	0.13	0.12	0.41	1.97
C3 - Fluorene	0.15	0.21	0.38	1.2
C0 - Phenanthrene/Anthracene	1.14	1.65	2.32	6.63
C1 - Phenanthrene/Anthracene	0.42	0.66	1.47	7
C2 - Phenanthrene/Anthracene	0.25	0.37	1.08	6.29
C3 - Phenanthrene/Anthracene	0.11	0.19	0.52	2.75
C4 - Phenanthrene/Anthracene	0.05	0.08	0.17	0.83
C0 - Dibenzothiophene	0.06	0.08	0.16	0.63
C1 - Dibenzothiophene	0.14	0.1	0.29	1.12
C2 - Dibenzothiophene	0.09	0.12	0.37	1.29
C3 - Dibenzothiophene	0.05	0.08	0.19	0.91
C0 - Fluoranthene/Pyrene	2.58	4.03	6.66	20
C1 - Fluoranthene/Pyrene	0.6	0.94	2.43	10.5
C2 - Fluoranthene/Pyrene	0.3	0.49	1.01	4.13
C3 - Fluoranthene/Pyrene	0.18	0.21	0.4	1.29
C0 - Benz(a)anthracene/Chrysene	1.33	1.68	3.13	10.6
C1 - Benz(a)anthracene/Chrysene	0.53	0.66	1.68	5.31
C2 - Benz(a)anthracene/Chrysene	0.22	0.33	0.81	2.22
C3 - Benz(a)anthracene/Chrysene	0.1	0.18	0.35	0.82
C4 - Benz(a)anthracene/Chrysene	0.05	0.09	0.14	0.42

Field ID:	SD14 (5.0-5.4)	SD15 (0-2)	SD15 (2.8-3.5)	SD16 (0-2)
Lab ID:	993309B-10	C1F070175-003 20x	C1F070175-004	C1F070175-008 20x
PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0	0.25	ND	0.83
2-Methylnaphthalene	0.01	0.44	ND	0.65
1-Methylnaphthalene	0	2.24	ND	4.23
Acenaphthylene	0.01	3.06	ND	5.39
Acenaphthene	0.01	7.15	ND	14.9
Dibenzofuran	0	0.51	ND	1.3
Fluorene	0.01	0.75	ND	4.39
Phenanthrene	0.04	44.3	0.02	41.4
Anthracene	0.01	16	ND	11
Fluoranthene	0.03	31.5	0.01	51.6
Pyrene	0.03	50.7	0.01	78.8
Benz[a]anthracene	0.01	17.3	0.01	29.2
Chrysene	0.02	16.6	0.01	30.8
Benzo[b]fluoranthene	0.01	8.17	ND	25.1
Benzo[k]fluoranthene	0.01	10.4	ND	16.6
Benzo(e)pyrene	0.01	9.32	ND	23.6
Benzo[a]pyrene	0.01	17.9	ND	33.2
Perylene	0.59	2.57	0.25	6.01
Indeno[1,2,3-cd]pyrene	0.01	8.33	ND	18.5
Dibenz[a,h]anthracene	0	2.29	ND	5.45
Benzo[g,h,i]perylene	0.03	9.38	0.03	19.6
ALKYLATED PAHs:				
C0 - Naphthalene	0	0.25	ND	0.83
C1 - Naphthalene	0	1.63	ND	2.98
C2 - Naphthalene	0.01	4.86	ND	6.56
C3- Naphthalene	ND	6.82	ND	7.14
C4- Naphthalene	ND	1.54	ND	1.89
C0 - Fluorene	0.01	0.75	ND	4.39
C1 - Fluorene	0.01	9.57	ND	8.21
C2 - Fluorene	0	4.51	ND	4.76
C3 - Fluorene	ND	2.29	ND	3.74
C0 - Phenanthrene/Anthracene	0.05	61.3	0	53.6
C1 - Phenanthrene/Anthracene	0.06	43.1	0.01	36.2
C2 - Phenanthrene/Anthracene	0.04	16.1	ND	20.1
C3 - Phenanthrene/Anthracene	0.02	3.61	ND	6.13
C4 - Phenanthrene/Anthracene	0.01	0.12	ND	0.93
C0 - Dibenzothiophene	0	4.6	ND	4.27
C1 - Dibenzothiophene	ND	7.27	ND	6.03
C2 - Dibenzothiophene	ND	4.94	ND	5.24
C3 - Dibenzothiophene	ND	1.25	ND	1.8
C0 - Fluoranthene/Pyrene	0.07	93.5	0.01	140
C1 - Fluoranthene/Pyrene	0.03	37.3	ND	48.4
C2 - Fluoranthene/Pyrene	0.01	9.29	ND	15.3
C3 - Fluoranthene/Pyrene	ND	2.24	ND	5.6
C0 - Benz(a)anthracene/Chrysene	0.03	33	0.01	57.9
C1 - Benz(a)anthracene/Chrysene	0.01	12.3	ND	21.5
C2 - Benz(a)anthracene/Chrysene	0	3.79	ND	7.51
C3 - Benz(a)anthracene/Chrysene	ND	ND	ND	2.29
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.08

Field ID:	SD16 (3.5-4.5)	SD17 (0-2)	SD17 (2-4)	SD18 (0-2)
Lab ID:	C1F070175-005	C1F070175-009 2x	C1F070175-006 5x	C1F070175-007 2x
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	ND	0.04	0.16	0.03
2-Methylnaphthalene	ND	0.04	0.08	0.02
1-Methylnaphthalene	ND	0.05	0.11	0.02
Acenaphthylene	ND	0.25	0.56	0.18
Acenaphthene	ND	0.07	0.2	0.09
Dibenzofuran	ND	0.03	0.07	0.03
Fluorene	ND	0.12	0.22	0.12
Phenanthrene	ND	1.24	2.12	1.82
Anthracene	ND	0.22	0.56	0.29
Fluoranthene	ND	2.08	4.13	4.69
Pyrene	ND	2.7	7.63	3.96
Benz[a]anthracene	ND	1.43	2.58	1.6
Chrysene	ND	1.66	2.78	1.96
Benzo[b]fluoranthene	ND	1.81	2.12	2.38
Benzo[k]fluoranthene	ND	1.31	2.2	1.49
Benzo(e)pyrene	ND	1.45	2.41	1.75
Benzo[a]pyrene	0.05	1.98	3.03	2.42
Perylene	0.05	0.48	0.67	0.75
Indeno[1,2,3-cd]pyrene	ND	1.06	2.09	1.89
Dibenz[a,h]anthracene	ND	0.26	0.51	0.37
Benzo[g,h,i]perylene	ND	1.09	2.27	1.84
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	ND	0.04	0.16	0.03
C1 - Naphthalene	ND	0.05	0.12	0.03
C2 - Naphthalene	ND	0.1	0.18	0.04
C3- Naphthalene	ND	0.1	0.19	0.03
C4- Naphthalene	ND	0.04	0.07	ND
C0 - Fluorene	ND	0.12	0.22	0.12
C1 - Fluorene	ND	0.15	0.41	0.12
C2 - Fluorene	ND	0.13	0.7	0.09
C3 - Fluorene	ND	0.14	0.39	0.2
C0 - Phenanthrene/Anthracene	ND	1.47	2.73	2.14
C1 - Phenanthrene/Anthracene	ND	1.03	2.77	1
C2 - Phenanthrene/Anthracene	ND	0.73	2.21	0.53
C3 - Phenanthrene/Anthracene	ND	0.32	0.79	0.2
C4 - Phenanthrene/Anthracene	ND	0.05	0.08	0.01
C0 - Dibenzothiophene	ND	0.09	0.15	0.09
C1 - Dibenzothiophene	ND	0.19	0.37	0.08
C2 - Dibenzothiophene	ND	0.24	0.59	0.11
C3 - Dibenzothiophene	ND	0.11	0.21	0.05
C0 - Fluoranthene/Pyrene	ND	5.11	12.6	8.93
C1 - Fluoranthene/Pyrene	ND	1.77	4.86	1.6
C2 - Fluoranthene/Pyrene	ND	0.89	1.91	0.83
C3 - Fluoranthene/Pyrene	ND	0.48	0.77	0.39
C0 - Benz(a)anthracene/Chrysene	ND	2.99	5.21	3.46
C1 - Benz(a)anthracene/Chrysene	ND	1.27	2.41	0.92
C2 - Benz(a)anthracene/Chrysene	ND	0.68	0.95	0.4
C3 - Benz(a)anthracene/Chrysene	ND	0.33	0.26	0.14
C4 - Benz(a)anthracene/Chrysene	ND	0.13	ND	ND

Field ID:	SD18 (4.3-4.5)	SD19 (0-2)	SD19 (6.3-7.0)	SD2 (0.0-0.2)
Lab ID:	C1F070175-002	C1F070175-001	C1F070175-010	993309B-13
PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	ND	0.03	ND	0.07
2-Methylnaphthalene	0	0.02	0.01	0.1
1-Methylnaphthalene	ND	0.02	ND	0.05
Acenaphthylene	0	0.12	ND	0.45
Acenaphthene	0.01	0.08	ND	0.21
Dibenzofuran	ND	0.03	ND	0.07
Fluorene	0.01	0.1	ND	0.23
Phenanthrene	0.03	1.54	0	2.4
Anthracene	0.01	0.18	0	0.67
Fluoranthene	0.06	3.83	0	4.36
Pyrene	0.06	3.31	0.01	4.52
Benz[a]anthracene	0.03	1.29	ND	1.98
Chrysene	0.03	1.59	ND	2.9
Benzo[b]fluoranthene	0.02	1.95	ND	1.42
Benzo[k]fluoranthene	0.02	1.33	ND	2
Benzo(e)pyrene	0.02	1.32	ND	1.27
Benzo[a]pyrene	0.03	1.86	ND	1.81
Perylene	0.21	0.52	0.65	0.74
Indeno[1,2,3-cd]pyrene	0.02	1.78	ND	1.26
Dibenz[a,h]anthracene	0	0.46	ND	0.42
Benzo[g,h,i]perylene	0.03	1.79	0.01	1.21
ALKYLATED PAHs:				
C0 - Naphthalene	ND	0.03	ND	0.07
C1 - Naphthalene	ND	0.02	0.01	0.07
C2 - Naphthalene	ND	0.03	ND	0.14
C3- Naphthalene	ND	0.03	ND	0.12
C4- Naphthalene	ND	0.01	ND	0.05
C0 - Fluorene	0.01	0.1	ND	0.23
C1 - Fluorene	ND	0.05	ND	0.26
C2 - Fluorene	0.01	0.09	ND	0.19
C3 - Fluorene	ND	0.16	ND	0.36
C0 - Phenanthrene/Anthracene	0.04	1.72	0	3.05
C1 - Phenanthrene/Anthracene	0.12	0.65	ND	1.14
C2 - Phenanthrene/Anthracene	0.03	0.36	ND	0.72
C3 - Phenanthrene/Anthracene	0.01	0.15	ND	0.37
C4 - Phenanthrene/Anthracene	ND	0.02	ND	0.14
C0 - Dibenzothiophene	ND	0.07	ND	0.13
C1 - Dibenzothiophene	ND	0.07	ND	0.16
C2 - Dibenzothiophene	ND	0.08	ND	0.22
C3 - Dibenzothiophene	ND	0.04	ND	0.27
C0 - Fluoranthene/Pyrene	0.13	7.23	0.01	9.09
C1 - Fluoranthene/Pyrene	0.04	1.16	ND	2.21
C2 - Fluoranthene/Pyrene	ND	0.51	ND	0.98
C3 - Fluoranthene/Pyrene	ND	0.23	ND	0.42
C0 - Benz(a)anthracene/Chrysene	0.05	2.79	ND	4.03
C1 - Benz(a)anthracene/Chrysene	0.01	0.65	ND	1.23
C2 - Benz(a)anthracene/Chrysene	ND	0.3	ND	0.59
C3 - Benz(a)anthracene/Chrysene	ND	0.09	ND	0.22
C4 - Benz(a)anthracene/Chrysene	ND	0.01	ND	0.1

Field ID:	SD2 (0.2-2.0)	SD20 (0-2)	SD20 (5.2-6.3)	SD21 (0-2)
Lab ID:	993309B-03	C1F070175-011 2x	C1F070175-012	C1F070229-011 4x
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.07	0.05	0.07	0.04
2-Methylnaphthalene	0.09	0.04	0.01	0.04
1-Methylnaphthalene	0.04	0.04	0.07	0.03
Acenaphthylene	0.46	0.28	0.01	0.25
Acenaphthene	0.17	0.26	0.04	0.14
Dibenzofuran	0.05	0.08	ND	0.06
Fluorene	0.17	0.3	0	0.19
Phenanthrene	1.64	4.26	0.01	2.83
Anthracene	0.53	0.62	0	0.46
Fluoranthene	3.68	9.29	0.04	7.04
Pyrene	4.07	8.15	0.08	6.26
Benz[a]anthracene	1.79	3.35	0.05	2.48
Chrysene	2.57	3.99	0.05	2.88
Benzo[b]fluoranthene	1.36	4.7	0.02	2.8
Benzo[k]fluoranthene	1.68	2.97	0.03	2.23
Benzo(e)pyrene	1.17	3.29	0.04	2.23
Benzo[a]pyrene	1.67	5.09	0.07	3.14
Perylene	0.62	1.58	0.12	0.97
Indeno[1,2,3-cd]pyrene	1.04	3.22	ND	2.43
Dibenz[a,h]anthracene	0.36	0.68	0.01	0.48
Benzo[g,h,i]perylene	1.01	3	0.04	2.54
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.07	0.05	0.07	0.04
C1 - Naphthalene	0.06	0.05	0.05	0.04
C2 - Naphthalene	0.13	0.09	ND	0.05
C3 - Naphthalene	0.14	0.11	ND	0.06
C4 - Naphthalene	0.07	0.03	ND	ND
C0 - Fluorene	0.17	0.3	0	0.19
C1 - Fluorene	0.31	0.26	ND	0.2
C2 - Fluorene	0.21	0.19	ND	0.39
C3 - Fluorene	0.34	0.4	ND	0.26
C0 - Phenanthrene/Anthracene	2.18	4.9	0.02	3.3
C1 - Phenanthrene/Anthracene	1.03	2.18	0.03	1.5
C2 - Phenanthrene/Anthracene	0.8	1.14	0.04	0.93
C3 - Phenanthrene/Anthracene	0.35	0.43	ND	0.33
C4 - Phenanthrene/Anthracene	0.14	0.02	ND	0.02
C0 - Dibenzothiophene	0.12	0.21	ND	0.14
C1 - Dibenzothiophene	0.2	0.24	ND	0.15
C2 - Dibenzothiophene	0.25	0.25	ND	0.18
C3 - Dibenzothiophene	0.17	0.11	ND	0.05
C0 - Fluoranthene/Pyrene	7.93	17.8	0.13	13.8
C1 - Fluoranthene/Pyrene	2.25	3.42	0.12	2.75
C2 - Fluoranthene/Pyrene	1.12	1.34	0.03	1.43
C3 - Fluoranthene/Pyrene	0.45	0.69	ND	0.49
C0 - Benz(a)anthracene/Chrysene	3.63	7.07	0.1	5.2
C1 - Benz(a)anthracene/Chrysene	1.43	1.82	0.04	1.63
C2 - Benz(a)anthracene/Chrysene	0.65	0.71	ND	0.53
C3 - Benz(a)anthracene/Chrysene	0.19	0.22	ND	0.08
C4 - Benz(a)anthracene/Chrysene	0.1	ND	ND	ND

Field ID:	SD21 (6-7)	SD22 (0-2)	SD22 (4.9-6.0)	SD23 (0-2)
Lab ID:	C1F070229-010 2x	C1F070229-012	C1F070229-013 2x	C1F070229-014
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.11	0.06	0.22	0.03
2-Methylnaphthalene	0.1	0.04	0.41	0.03
1-Methylnaphthalene	0.08	0.03	0.98	0.02
Acenaphthylene	0.27	0.17	0.3	0.09
Acenaphthene	0.27	0.04	1.14	0.07
Dibenzofuran	0.06	0.03	0.1	0.03
Fluorene	0.21	0.06	0.85	0.1
Phenanthrene	1.8	0.71	5.94	1.28
Anthracene	0.37	0.18	1.21	0.22
Fluoranthene	3.46	2.14	4.04	2.96
Pyrene	4.19	2.33	7.1	2.56
Benz[a]anthracene	1.96	1.12	2.32	1.12
Chrysene	2.27	1.29	2.53	1.41
Benzo[b]fluoranthene	2.11	1.66	1.92	1.5
Benzo[k]fluoranthene	1.54	1.08	1.49	1.09
Benzo(e)pyrene	1.84	1.35	2.12	1.12
Benzo[a]pyrene	2.71	1.64	3.24	1.62
Perylene	0.7	0.54	0.74	0.58
Indeno[1,2,3-cd]pyrene	1.66	1.34	1.68	1.13
Dibenz[a,h]anthracene	0.45	0.36	0.42	0.23
Benzo[g,h,i]perylene	1.75	1.37	1.93	1.06
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.11	0.06	0.22	0.03
C1 - Naphthalene	0.11	0.05	0.85	0.03
C2 - Naphthalene	0.21	0.07	1.7	0.05
C3- Naphthalene	0.29	0.08	1.26	0.05
C4- Naphthalene	0.15	0.05	0.38	0.01
C0 - Fluorene	0.21	0.06	0.85	0.1
C1 - Fluorene	0.42	0.16	1.07	0.11
C2 - Fluorene	0.41	0.22	1.1	0.14
C3 - Fluorene	0.46	0.31	0.68	0.15
C0 - Phenanthrene/Anthracene	2.19	0.89	7.15	1.51
C1 - Phenanthrene/Anthracene	1.69	0.79	4.96	0.81
C2 - Phenanthrene/Anthracene	1.54	0.75	2.68	0.47
C3 - Phenanthrene/Anthracene	0.79	0.51	0.95	0.21
C4 - Phenanthrene/Anthracene	0.22	0.25	0.27	0.05
C0 - Dibenzothiophene	0.12	0.05	0.36	0.07
C1 - Dibenzothiophene	0.34	0.1	0.65	0.09
C2 - Dibenzothiophene	0.42	0.18	0.62	0.11
C3 - Dibenzothiophene	0.23	0.22	0.3	0.07
C0 - Fluoranthene/Pyrene	8.09	4.67	11.8	5.62
C1 - Fluoranthene/Pyrene	3.04	1.61	5.24	1.21
C2 - Fluoranthene/Pyrene	1.39	0.91	1.9	0.55
C3 - Fluoranthene/Pyrene	0.73	0.48	0.76	0.28
C0 - Benz(a)anthracene/Chrysene	4.11	2.32	4.67	2.46
C1 - Benz(a)anthracene/Chrysene	1.9	1	2.28	0.71
C2 - Benz(a)anthracene/Chrysene	1.16	0.48	0.75	0.36
C3 - Benz(a)anthracene/Chrysene	0.58	0.23	0.17	0.18
C4 - Benz(a)anthracene/Chrysene	0.16	0.09	0.07	0.04



Field ID:	SD23 (3-4)	SD24 (0-2)	SD24 (5.2-6.0)	SD25 (0-2)
Lab ID:	C1F070229-015 2x	C1F070229-016	C1F070229-017	C1F070229-018 2x
PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.05	0.05	0	0.07
2-Methylnaphthalene	0.04	0.03	ND	0.06
1-Methylnaphthalene	0.03	0.02	ND	0.04
Acenaphthylene	0.15	0.18	ND	0.47
Acenaphthene	0.18	0.08	ND	0.13
Dibenzofuran	0.07	0.02	ND	0.03
Fluorene	0.27	0.06	ND	0.1
Phenanthrene	3.54	0.33	0.01	1.02
Anthracene	0.46	0.17	ND	0.38
Fluoranthene	7.14	1.57	0.01	3.19
Pyrene	6.3	2.11	0.01	5.37
Benz[a]anthracene	2.39	1.15	0.01	3.02
Chrysene	2.87	1.25	0.01	3.08
Benzo[b]fluoranthene	3.3	1.07	0	2.38
Benzo[k]fluoranthene	2.22	0.81	0.01	2.32
Benzo(e)pyrene	2.31	1.13	0	2.65
Benzo[a]pyrene	3.47	1.79	0.01	4.7
Perylene	1.18	1.18	0.1	1.05
Indeno[1,2,3-cd]pyrene	2.63	0.9	0	2.21
Dibenz[a,h]anthracene	0.5	0.24	ND	0.56
Benzo[g,h,i]perylene	2.63	1	0.01	2.39
ALKYLATED PAHs:				
C0 - Naphthalene	0.05	0.05	0	0.07
C1 - Naphthalene	0.04	0.03	ND	0.06
C2 - Naphthalene	0.07	0.06	ND	0.13
C3- Naphthalene	0.07	0.08	ND	0.18
C4- Naphthalene	0.01	0.05	ND	0.1
C0 - Fluorene	0.27	0.06	ND	0.1
C1 - Fluorene	0.18	0.18	ND	0.43
C2 - Fluorene	0.18	0.16	ND	0.57
C3 - Fluorene	0.3	0.23	ND	0.46
C0 - Phenanthrene/Anthracene	3.99	0.5	0.01	1.42
C1 - Phenanthrene/Anthracene	1.31	0.91	ND	2.2
C2 - Phenanthrene/Anthracene	0.75	0.96	ND	2.05
C3 - Phenanthrene/Anthracene	0.33	0.52	ND	0.87
C4 - Phenanthrene/Anthracene	0.06	0.17	ND	0.24
C0 - Dibenzothiophene	0.16	0.05	ND	0.12
C1 - Dibenzothiophene	0.14	0.12	ND	0.39
C2 - Dibenzothiophene	0.14	0.21	ND	0.57
C3 - Dibenzothiophene	0.1	0.13	ND	0.28
C0 - Fluoranthene/Pyrene	13.6	3.94	0.03	9.46
C1 - Fluoranthene/Pyrene	2.32	1.88	ND	5.19
C2 - Fluoranthene/Pyrene	1.15	0.82	ND	2.07
C3 - Fluoranthene/Pyrene	0.56	0.29	ND	0.85
C0 - Benz(a)anthracene/Chrysene	5.09	2.31	0.01	5.85
C1 - Benz(a)anthracene/Chrysene	1.22	1.04	ND	2.7
C2 - Benz(a)anthracene/Chrysene	0.56	0.43	ND	1.3
C3 - Benz(a)anthracene/Chrysene	0.24	0.12	ND	0.52
C4 - Benz(a)anthracene/Chrysene	0.03	0.08	ND	0.1

Field ID:	SD25 (5.3-6)	SD26 (0-2)	SD26 (3.5-4.5)	SD27 (0-2)
Lab ID:	C1F070229-019	C1F070229-020	c1f070248-001	c1f070248-002
PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	ND	ND	ND	0.01
2-Methylnaphthalene	ND	ND	ND	0.01
1-Methylnaphthalene	ND	ND	ND	0.04
Acenaphthylene	ND	ND	ND	0.07
Acenaphthene	ND	ND	ND	0.09
Dibenzofuran	ND	ND	ND	0.02
Fluorene	ND	0.01	ND	0.1
Phenanthrene	0	0.05	ND	0.95
Anthracene	ND	0.01	ND	0.14
Fluoranthene	0	0.07	ND	1.55
Pyrene	0	0.06	ND	1.42
Benz[a]anthracene	ND	0.02	ND	0.64
Chrysene	ND	0.02	ND	0.78
Benzo[b]fluoranthene	ND	0.02	ND	0.76
Benzo[k]fluoranthene	ND	0.02	ND	0.67
Benzo(e)pyrene	ND	0.02	ND	0.64
Benzo[a]pyrene	ND	0.02	ND	0.87
Perylene	0.1	0.37	0.24	0.39
Indeno[1,2,3-cd]pyrene	ND	0.02	ND	0.61
Dibenz[a,h]anthracene	ND	ND	ND	0.12
Benzo[g,h,i]perylene	0.01	0.02	ND	0.57
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	ND	ND	ND	0.01
C1 - Naphthalene	ND	ND	ND	0.03
C2 - Naphthalene	ND	ND	ND	0.06
C3- Naphthalene	ND	ND	ND	0.04
C4- Naphthalene	ND	ND	ND	ND
C0 - Fluorene	ND	0.01	ND	0.1
C1 - Fluorene	ND	ND	ND	0.09
C2 - Fluorene	ND	ND	ND	0.07
C3 - Fluorene	ND	ND	ND	0.07
C0 - Phenanthrene/Anthracene	0	0.06	ND	1.1
C1 - Phenanthrene/Anthracene	ND	0	ND	0.62
C2 - Phenanthrene/Anthracene	ND	ND	ND	0.27
C3 - Phenanthrene/Anthracene	ND	ND	ND	0.1
C4 - Phenanthrene/Anthracene	ND	ND	ND	0.01
C0 - Dibenzothiophene	ND	ND	ND	0.06
C1 - Dibenzothiophene	ND	ND	ND	0.07
C2 - Dibenzothiophene	ND	ND	ND	0.06
C3 - Dibenzothiophene	ND	ND	ND	0.03
C0 - Fluoranthene/Pyrene	0	0.12	ND	3.1
C1 - Fluoranthene/Pyrene	ND	0.01	ND	0.72
C2 - Fluoranthene/Pyrene	ND	ND	ND	0.33
C3 - Fluoranthene/Pyrene	ND	ND	ND	0.15
C0 - Benz(a)anthracene/Chrysene	ND	0.05	ND	1.37
C1 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.43
C2 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.18
C3 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.05
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND

Field ID:	SD27 (5.1-5.8)	SD27 (6.4-6.9)	SD28 (0-2)	SD28 (3-4.5)
Lab ID:	C1f070211-001 20x	C1f070211-002	C1F070211-003 5x	C1f070211-005
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.59	0.04	0.12	0.01
2-Methylnaphthalene	1.92	0.07	0.07	ND
1-Methylnaphthalene	10.4	0.32	0.06	0.04
Acenaphthylene	2.19	0.02	1.32	0.03
Acenaphthene	17.6	0.35	0.15	0.04
Dibenzofuran	0.87	0.02	0.05	ND
Fluorene	10.8	0.19	0.14	0.02
Phenanthrene	54.4	0.83	1.24	0.12
Anthracene	11.6	0.25	0.97	0.04
Fluoranthene	21	0.29	9.89	0.18
Pyrene	34.8	0.49	16.3	0.3
Benz[a]anthracene	12.9	0.15	8.27	0.15
Chrysene	11.2	0.16	8.04	0.14
Benzo[b]fluoranthene	6.53	0.07	5.55	0.09
Benzo[k]fluoranthene	7.53	0.09	5.63	0.09
Benzo(e)pyrene	7.83	0.09	5.57	0.11
Benzo[a]pyrene	14.2	0.15	10.4	0.18
Perylene	2.07	0.11	1.84	0.16
Indeno[1,2,3-cd]pyrene	5.24	0.05	3.41	0.07
Dibenz[a,h]anthracene	1.5	0.02	0.92	0.02
Benzo[g,h,i]perylene	5.31	0.09	3.4	0.2
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.59	0.04	0.12	0.01
C1 - Naphthalene	7.5	0.24	0.08	0.02
C2 - Naphthalene	13.6	0.24	0.15	0.02
C3- Naphthalene	6.11	0.09	0.28	0
C4- Naphthalene	0.64	0	0.13	ND
C0 - Fluorene	10.8	0.19	0.14	0.02
C1 - Fluorene	8.14	0.1	1.26	0.02
C2 - Fluorene	2.52	0.01	1.08	ND
C3 - Fluorene	0.74	0.01	0.44	ND
C0 - Phenanthrene/Anthracene	66.8	1.1	2.32	0.17
C1 - Phenanthrene/Anthracene	30.6	0.45	4.62	0.15
C2 - Phenanthrene/Anthracene	9.59	0.12	4.1	0.07
C3 - Phenanthrene/Anthracene	1.59	0.01	1.3	ND
C4 - Phenanthrene/Anthracene	ND	ND	0.05	ND
C0 - Dibenzothiophene	4.15	0.06	0.41	0.01
C1 - Dibenzothiophene	4.52	0.06	1.26	0.02
C2 - Dibenzothiophene	2.52	0.02	1.32	ND
C3 - Dibenzothiophene	0.52	ND	0.42	ND
C0 - Fluoranthene/Pyrene	63.9	0.89	29	0.54
C1 - Fluoranthene/Pyrene	24.3	0.3	13.4	0.25
C2 - Fluoranthene/Pyrene	6.1	0.05	4.04	0.05
C3 - Fluoranthene/Pyrene	1.07	ND	1.19	ND
C0 - Benz(a)anthracene/Chrysene	23.3	0.3	15.9	0.29
C1 - Benz(a)anthracene/Chrysene	9.1	0.1	6.57	0.1
C2 - Benz(a)anthracene/Chrysene	2.39	0.01	2.24	0
C3 - Benz(a)anthracene/Chrysene	ND	ND	0.42	ND
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	ND

Field ID:	SD29 (0-2)	SD29 (2.8-3.6)	SD3 (0.0-0.2)	SD3 (0.2-1.6)
Lab ID:	C1f070211-004	C1f070211-006	993309A-16	993309A-10
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.02	0.01	0.08	0.76
2-Methylnaphthalene	0.02	ND	0.1	1.54
1-Methylnaphthalene	0.02	ND	0.04	0.75
Acenaphthylene	0.06	ND	0.5	0.04
Acenaphthene	0.05	ND	0.11	0.63
Dibenzofuran	0.02	ND	0.04	0.01
Fluorene	0.06	ND	0.1	0.19
Phenanthrene	0.72	0.02	1.01	0.71
Anthracene	0.12	ND	0.44	0.25
Fluoranthene	1.51	0.03	2.21	0.27
Pyrene	1.34	0.04	2.66	0.43
Benz[a]anthracene	0.65	0.02	1.25	0.18
Chrysene	0.79	0.02	1.91	0.24
Benzo[b]fluoranthene	0.85	0.01	0.98	0.06
Benzo[k]fluoranthene	0.64	0.01	1.38	0.12
Benzo(e)pyrene	0.63	0.01	1.04	0.09
Benzo[a]pyrene	0.89	0.02	1.49	0.14
Perylene	0.28	0.1	0.55	0.4
Indeno[1,2,3-cd]pyrene	0.57	0.01	1.13	0.05
Dibenz[a,h]anthracene	0.12	ND	0.39	0.02
Benzo[g,h,i]perylene	0.54	0.02	1.33	0.05
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.02	0.01	0.08	0.76
C1 - Naphthalene	0.02	ND	0.06	1
C2 - Naphthalene	0.02	ND	0.11	0.3
C3- Naphthalene	0.02	ND	0.11	0.1
C4- Naphthalene	ND	ND	0.06	0.03
C0 - Fluorene	0.06	ND	0.1	0.19
C1 - Fluorene	0.05	ND	0.24	0.14
C2 - Fluorene	0.02	ND	0.16	0.09
C3 - Fluorene	0.05	ND	0.24	0.04
C0 - Phenanthrene/Anthracene	0.85	ND	1.43	0.95
C1 - Phenanthrene/Anthracene	0.39	ND	0.79	0.47
C2 - Phenanthrene/Anthracene	0.21	ND	0.71	0.22
C3 - Phenanthrene/Anthracene	0.07	ND	0.28	0.08
C4 - Phenanthrene/Anthracene	ND	ND	0.1	0.01
C0 - Dibenzothiophene	0.04	ND	0.07	0.03
C1 - Dibenzothiophene	0.04	ND	0.1	0.03
C2 - Dibenzothiophene	0.04	ND	0.18	0.02
C3 - Dibenzothiophene	0	ND	0.11	0.01
C0 - Fluoranthene/Pyrene	2.93	0.04	5.1	0.77
C1 - Fluoranthene/Pyrene	0.64	ND	1.81	0.3
C2 - Fluoranthene/Pyrene	0.3	ND	0.8	0.1
C3 - Fluoranthene/Pyrene	0.11	ND	0.32	0.04
C0 - Benz(a)anthracene/Chrysene	1.39	0.01	2.61	0.35
C1 - Benz(a)anthracene/Chrysene	0.4	ND	1.09	0.15
C2 - Benz(a)anthracene/Chrysene	0.14	ND	0.5	0.05
C3 - Benz(a)anthracene/Chrysene	0.02	ND	0.21	0.01
C4 - Benz(a)anthracene/Chrysene	ND	ND	0.08	ND

Field ID:	SD30 (0-2)	SD30 (4.5-5.6)	SD31 (0-2)	SD31 (2.6-3.6)
Lab ID:	C1F070211-007	C1F070211-008	C1F070229-001	C1F070229-002
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.08	ND	0.03	2.03
2-Methylnaphthalene	0.12	0	0.02	1.36
1-Methylnaphthalene	0.14	ND	0.03	1.6
Acenaphthylene	0.25	ND	0.11	0.12
Acenaphthene	0.38	ND	0.1	1.62
Dibenzofuran	0.03	ND	0.03	0.07
Fluorene	0.15	0	0.12	0.55
Phenanthrene	0.87	0.03	1.6	1.1
Anthracene	0.26	ND	0.24	0.18
Fluoranthene	1.9	0.02	3.31	0.52
Pyrene	2.2	0.03	2.68	0.85
Benz[a]anthracene	1.33	0.01	1.31	0.48
Chrysene	1.54	0.01	1.52	0.47
Benzo[b]fluoranthene	1.65	0.01	1.57	0.24
Benzo[k]fluoranthene	1.08	0.01	1.19	0.26
Benzo(e)pyrene	1.26	0.02	1.17	0.24
Benzo[a]pyrene	1.89	0.02	1.76	0.48
Perylene	0.64	0.89	0.6	0.24
Indeno[1,2,3-cd]pyrene	0.78	0	1.45	0.19
Dibenz[a,h]anthracene	0.2	ND	0.27	0.05
Benzo[g,h,i]perylene	0.8	0.05	1.42	0.2
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.08	ND	0.03	2.03
C1 - Naphthalene	0.16	ND	0.03	1.84
C2 - Naphthalene	0.34	ND	0.04	0.74
C3- Naphthalene	0.26	ND	0.04	0.09
C4- Naphthalene	0.06	ND	0.01	ND
C0 - Fluorene	0.15	0	0.12	0.55
C1 - Fluorene	0.25	ND	0.11	0.18
C2 - Fluorene	0.14	0	0.12	0.04
C3 - Fluorene	0.22	ND	0.17	0.01
C0 - Phenanthrene/Anthracene	1.14	ND	1.86	1.3
C1 - Phenanthrene/Anthracene	1.14	0.02	0.96	0.34
C2 - Phenanthrene/Anthracene	0.8	0	0.48	0.31
C3 - Phenanthrene/Anthracene	0.37	0.01	0.19	0.08
C4 - Phenanthrene/Anthracene	0.13	ND	0.02	ND
C0 - Dibenzothiophene	0.09	ND	0.08	0.11
C1 - Dibenzothiophene	0.15	ND	0.1	0.07
C2 - Dibenzothiophene	0.18	ND	0.12	0.1
C3 - Dibenzothiophene	0.11	ND	0.06	0.04
C0 - Fluoranthene/Pyrene	4.39	0.03	6.1	1.58
C1 - Fluoranthene/Pyrene	1.85	ND	1.24	0.9
C2 - Fluoranthene/Pyrene	0.89	ND	0.65	0.28
C3 - Fluoranthene/Pyrene	0.43	ND	0.28	0.05
C0 - Benz(a)anthracene/Chrysene	2.75	0.01	2.75	0.93
C1 - Benz(a)anthracene/Chrysene	1.27	ND	0.76	0.37
C2 - Benz(a)anthracene/Chrysene	0.52	ND	0.32	0.09
C3 - Benz(a)anthracene/Chrysene	0.14	ND	0.15	ND
C4 - Benz(a)anthracene/Chrysene	0.09	ND	0.02	ND

Field ID:	SD32 (0-2)	SD32 (3.5-4.2)	SD320 (0-2)	SD320 (0-2)
Lab ID:	C1F070229-003 10x	C1F070229-005	C1F070229-004 10x	C1F070229-004 20x

PAH COMPOUNDS:	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	1	ND	1.61	1.57
2-Methylnaphthalene	4.92	0.01	9.68	9.4
1-Methylnaphthalene	6.17	0.01	10	9.95
Acenaphthylene	1.55	ND	1.94	1.9
Acenaphthene	11.2	0.01	17.3	15.6
Dibenzofuran	0.64	ND	1.13	0.96
Fluorene	6.26	0.01	10.7	9.24
Phenanthrene	31.7	0.04	59.4	48.8
Anthracene	12	0.01	14.5	11.6
Fluoranthene	16.7	0.02	26.3	20.7
Pyrene	27.1	0.03	44.6	34.8
Benz[a]anthracene	9.88	0.02	12.7	10.8
Chrysene	9.82	0.01	12.8	10.6
Benzo[b]fluoranthene	4.47	0.01	6.35	5.49
Benzo[k]fluoranthene	5.21	0.01	6.39	6.22
Benzo(e)pyrene	4.94	0.01	6.72	6.57
Benzo[a]pyrene	9.09	0.02	12.1	11.4
Perylene	1.59	0.34	1.9	2.06
Indeno[1,2,3-cd]pyrene	4.01	0.01	5.8	5.73
Dibenz[a,h]anthracene	1.03	ND	1.47	1.45
Benzo[g,h,i]perylene	4.53	0.03	6.59	6.49

#### ALKYLATED PAHs:

C0 - Naphthalene	1	ND	1.61	1.57
C1 - Naphthalene	6.87	0.01	12.2	11.9
C2 - Naphthalene	7.87	0	13.5	13.5
C3- Naphthalene	4.41	ND	8.54	7.41
C4- Naphthalene	0.78	ND	1.99	1.29
C0 - Fluorene	6.26	0.01	10.7	9.24
C1 - Fluorene	5.69	ND	9.46	7.79
C2 - Fluorene	3.49	ND	4.68	3.34
C3 - Fluorene	1.57	ND	2.89	1.34
C0 - Phenanthrene/Anthracene	43.9	0.05	74.3	60.6
C1 - Phenanthrene/Anthracene	21.2	0.02	38	30.4
C2 - Phenanthrene/Anthracene	9.01	ND	14.1	11.2
C3 - Phenanthrene/Anthracene	2.03	ND	3.1	2.22
C4 - Phenanthrene/Anthracene	0.12	ND	0.51	ND
C0 - Dibenzothiophene	3.38	0	5.42	4.5
C1 - Dibenzothiophene	4.16	ND	6.67	5.41
C2 - Dibenzothiophene	3.24	ND	4.22	3.23
C3 - Dibenzothiophene	0.97	ND	1.31	0.78
C0 - Fluoranthene/Pyrene	48.3	0.05	76.7	60.6
C1 - Fluoranthene/Pyrene	20.8	0.02	28.9	23.7
C2 - Fluoranthene/Pyrene	5.69	ND	7.54	6.48
C3 - Fluoranthene/Pyrene	1.5	ND	2	1.31
C0 - Benz(a)anthracene/Chrysene	18.9	0.03	24.5	20.7
C1 - Benz(a)anthracene/Chrysene	7.06	0	9.41	8.76
C2 - Benz(a)anthracene/Chrysene	2.31	ND	2.99	2.22
C3 - Benz(a)anthracene/Chrysene	0.12	ND	0.57	ND
C4 - Benz(a)anthracene/Chrysene	ND	ND	0.03	ND

Field ID:	SD33 (0-2)	SD34 (0-2)	SD34 (2.7-3.3)	SD4 (0.0-0.2)
Lab ID:	C1F070229-006	C1F070229-008	C1F070229-009	993309A-17
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	ND	ND	ND	0.03
2-Methylnaphthalene	ND	ND	ND	0.04
1-Methylnaphthalene	ND	ND	ND	0.02
Acenaphthylene	ND	ND	ND	0.32
Acenaphthene	ND	ND	ND	0.1
Dibenzofuran	ND	ND	ND	0.02
Fluorene	ND	ND	ND	0.06
Phenanthrene	0.01	0.01	0	0.6
Anthracene	0.01	0.01	0	0.27
Fluoranthene	0.01	0.01	ND	1.29
Pyrene	0.01	0.01	ND	1.71
Benz[a]anthracene	ND	ND	ND	0.66
Chrysene	0	ND	ND	0.91
Benzo[b]fluoranthene	ND	ND	ND	0.59
Benzo[k]fluoranthene	ND	ND	ND	0.92
Benzo(e)pyrene	ND	ND	ND	0.66
Benzo[a]pyrene	ND	ND	ND	0.93
Perylene	0.09	0.3	0.42	0.25
Indeno[1,2,3-cd]pyrene	ND	ND	ND	0.37
Dibenz[a,h]anthracene	ND	ND	ND	0.13
Benzo[g,h,i]perylene	0.01	0.02	ND	0.3
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	ND	ND	ND	0.03
C1 - Naphthalene	ND	ND	ND	0.02
C2 - Naphthalene	ND	ND	ND	0.07
C3- Naphthalene	ND	ND	ND	0.11
C4- Naphthalene	ND	ND	ND	0.08
C0 - Fluorene	ND	ND	ND	0.06
C1 - Fluorene	ND	ND	ND	0.24
C2 - Fluorene	ND	ND	ND	0.21
C3 - Fluorene	ND	ND	ND	0.16
C0 - Phenanthrene/Anthracene	0.01	0.01	0	0.86
C1 - Phenanthrene/Anthracene	ND	ND	ND	0.66
C2 - Phenanthrene/Anthracene	ND	ND	ND	0.56
C3 - Phenanthrene/Anthracene	ND	ND	ND	0.2
C4 - Phenanthrene/Anthracene	ND	ND	ND	0.05
C0 - Dibenzothiophene	ND	ND	ND	0.06
C1 - Dibenzothiophene	ND	ND	ND	0.13
C2 - Dibenzothiophene	ND	ND	ND	0.14
C3 - Dibenzothiophene	ND	ND	ND	0.06
C0 - Fluoranthene/Pyrene	0.01	0.01	ND	3.17
C1 - Fluoranthene/Pyrene	ND	ND	ND	1.17
C2 - Fluoranthene/Pyrene	ND	ND	ND	0.46
C3 - Fluoranthene/Pyrene	ND	ND	ND	0.17
C0 - Benz(a)anthracene/Chrysene	ND	ND	ND	1.29
C1 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.64
C2 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.27
C3 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.12
C4 - Benz(a)anthracene/Chrysene	ND	ND	ND	0.05

Field ID:	SD4 (0.4-1.4)	SD5 (0.0-0.2)	SD5 (0.5-1.3)	SD6 (0.0-0.2)
Lab ID:	993309A-11	993309A-18	993309A-14	993309A-12
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	1.69	0.08	0.09	0.27
2-Methylnaphthalene	1.49	0.1	0.14	0.42
1-Methylnaphthalene	7.7	0.06	0.07	0.54
Acenaphthylene	3.66	0.65	0.39	0.44
Acenaphthene	17.7	0.2	0.84	0.63
Dibenzofuran	0.71	0.05	0.03	0.32
Fluorene	4.83	0.15	0.4	1.09
Phenanthrene	28.9	1.32	2.22	4.02
Anthracene	12.1	0.52	0.95	1.1
Fluoranthene	17.5	2.34	2.1	2.25
Pyrene	28.1	3.07	2.97	2.24
Benz[a]anthracene	12.4	1.23	1.38	0.75
Chrysene	16.1	1.73	1.71	1
Benzo[b]fluoranthene	4.95	1.16	0.67	0.4
Benzo[k]fluoranthene	8.49	1.35	0.84	0.67
Benzo(e)pyrene	6.15	1.29	0.64	0.43
Benzo[a]pyrene	9.4	1.85	1.04	0.69
Perylene	1.72	0.48	0.58	0.31
Indeno[1,2,3-cd]pyrene	4.05	0.75	0.56	0.4
Dibenz[a,h]anthracene	1.39	0.25	0.21	0.15
Benzo[g,h,i]perylene	4.48	0.62	0.67	0.35
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	1.69	0.08	0.09	0.27
C1 - Naphthalene	5.34	0.07	0.09	0.49
C2 - Naphthalene	10.7	0.15	0.67	1.1
C3- Naphthalene	6.77	0.18	0.51	0.73
C4- Naphthalene	1.87	0.1	0.2	0.24
C0 - Fluorene	4.83	0.15	0.4	1.09
C1 - Fluorene	8.45	0.48	0.69	0.83
C2 - Fluorene	3.89	0.33	0.44	0.43
C3 - Fluorene	2.74	0.23	0.22	0.3
C0 - Phenanthrene/Anthracene	41	1.84	3.21	5.1
C1 - Phenanthrene/Anthracene	24.6	1.2	2.1	2.42
C2 - Phenanthrene/Anthracene	11.5	0.93	1.28	1.2
C3 - Phenanthrene/Anthracene	3.28	0.33	0.45	0.4
C4 - Phenanthrene/Anthracene	0.96	0.08	0.17	0.11
C0 - Dibenzothiophene	3.06	0.12	0.22	0.37
C1 - Dibenzothiophene	3.76	0.22	0.29	0.41
C2 - Dibenzothiophene	2.84	0.25	0.27	0.34
C3 - Dibenzothiophene	1.38	0.21	0.11	0.12
C0 - Fluoranthene/Pyrene	49.9	5.75	5.24	4.74
C1 - Fluoranthene/Pyrene	23.8	2.2	2.51	1.42
C2 - Fluoranthene/Pyrene	7.4	0.85	0.9	0.52
C3 - Fluoranthene/Pyrene	2.06	0.26	0.34	0.18
C0 - Benz(a)anthracene/Chrysene	23.4	2.45	2.14	1.45
C1 - Benz(a)anthracene/Chrysene	11.4	0.97	1.01	0.6
C2 - Benz(a)anthracene/Chrysene	3.83	0.51	0.41	0.3
C3 - Benz(a)anthracene/Chrysene	0.87	0.21	0.14	0.11
C4 - Benz(a)anthracene/Chrysene	0.27	0.08	0.06	0.03



Field ID:	SD6 (2.1-2.3)	SD7 (0.0-0.2)	SD7 (0.2-2.2)	SD8 (0.0-0.2)
Lab ID:	993309A-13	993337A-01	993309B-02	993309A-03
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	4.7	0.13	0.18	0.06
2-Methylnaphthalene	24.9	0.17	0.3	0.07
1-Methylnaphthalene	13	0.08	0.35	0.03
Acenaphthylene	1.49	0.79	0.77	0.7
Acenaphthene	13.7	0.22	1.53	0.11
Dibenzofuran	0.76	0.07	0.1	0.02
Fluorene	6.66	0.22	0.57	0.09
Phenanthrene	17.7	2.37	2.74	0.88
Anthracene	6.23	0.74	1.3	0.45
Fluoranthene	6.64	4.52	3.67	2.47
Pyrene	9.65	5.66	5.65	3.28
Benz[a]anthracene	3.82	2.59	2.54	1.84
Chrysene	5.22	3.72	3.38	2.35
Benzo[b]fluoranthene	2.19	1.88	1.21	1.14
Benzo[k]fluoranthene	3.94	1.97	1.7	1.5
Benzo(e)pyrene	3.23	1.83	1.29	1.11
Benzo[a]pyrene	5.08	2.46	2.14	1.82
Perylene	1.11	0.67	1.14	0.5
Indeno[1,2,3-cd]pyrene	1.91	1.54	0.97	1.21
Dibenz[a,h]anthracene	0.69	0.53	0.33	0.4
Benzo[g,h,i]perylene	1.74	1.84	1.16	1.38
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	4.7	0.13	0.18	0.06
C1 - Naphthalene	16.9	0.1	0.32	0.05
C2 - Naphthalene	13.4	0.17	0.98	0.1
C3- Naphthalene	4.98	0.16	0.82	0.09
C4- Naphthalene	1.46	0.1	0.36	0.07
C0 - Fluorene	6.66	0.22	0.57	0.09
C1 - Fluorene	4.96	0.43	1.12	0.31
C2 - Fluorene	2.62	0.29	0.75	0.3
C3 - Fluorene	1.25	0.49	0.48	0.26
C0 - Phenanthrene/Anthracene	24	3.14	4.07	1.37
C1 - Phenanthrene/Anthracene	10.8	1.56	3.57	0.98
C2 - Phenanthrene/Anthracene	5.56	1.16	2.47	1.09
C3 - Phenanthrene/Anthracene	2.01	0.58	1.02	0.45
C4 - Phenanthrene/Anthracene	0.72	0.17	0.35	0.13
C0 - Dibenzothiophene	1.63	0.14	0.25	0.07
C1 - Dibenzothiophene	1.35	0.21	0.57	0.17
C2 - Dibenzothiophene	1.1	0.3	0.58	0.33
C3 - Dibenzothiophene	0.66	0.31	0.27	0.29
C0 - Fluoranthene/Pyrene	17.9	10.5	10.1	6.28
C1 - Fluoranthene/Pyrene	8.22	3.71	5.04	2.99
C2 - Fluoranthene/Pyrene	2.84	1.51	1.9	1.12
C3 - Fluoranthene/Pyrene	0.9	0.56	0.59	0.38
C0 - Benz(a)anthracene/Chrysene	7.53	5.15	4.94	3.57
C1 - Benz(a)anthracene/Chrysene	3.83	2.13	2.43	1.7
C2 - Benz(a)anthracene/Chrysene	1.74	0.85	0.92	0.64
C3 - Benz(a)anthracene/Chrysene	0.69	0.29	0.31	0.24
C4 - Benz(a)anthracene/Chrysene	0.26	0.12	0.1	0.08

Field ID:	SD8 (0.5-2.0)	SD9 (0.0-0.2)	SD9 (0.4-2.4)	SDS33 (2.6-3.5)
Lab ID:	993309A-04	993337A-02	993309B-05	C1F070229-007
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.01	0.06	0.06	ND
2-Methylnaphthalene	0.01	0.08	0.1	ND
1-Methylnaphthalene	0.03	0.04	0.08	ND
Acenaphthylene	0.03	0.36	0.43	ND
Acenaphthene	0.13	0.16	0.34	ND
Dibenzofuran	0	0.05	0.09	ND
Fluorene	0.02	0.17	0.36	0
Phenanthrene	0.08	1.67	3.31	0.01
Anthracene	0.04	0.46	0.76	ND
Fluoranthene	0.2	2.83	5	0.02
Pyrene	0.37	2.85	4.99	0.02
Benz[a]anthracene	0.12	1.23	2.44	0
Chrysene	0.14	1.79	3.55	0
Benzo[b]fluoranthene	0.05	1.06	1.65	ND
Benzo[k]fluoranthene	0.1	1.6	2.14	ND
Benzo(e)pyrene	0.06	1.11	1.28	ND
Benzo[a]pyrene	0.1	1.65	2.04	ND
Perylene	0.25	0.58	0.68	0.39
Indeno[1,2,3-cd]pyrene	0.04	0.79	1.15	ND
Dibenz[a,h]anthracene	0.01	0.27	0.38	ND
Benzo[g,h,i]perylene	0.04	0.52	1.07	0
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.01	0.06	0.06	ND
C1 - Naphthalene	0.02	0.05	0.09	ND
C2 - Naphthalene	0.05	0.1	0.17	ND
C3- Naphthalene	0.02	0.12	0.15	ND
C4- Naphthalene	0.01	0.06	0.06	ND
C0 - Fluorene	0.02	0.17	0.36	0
C1 - Fluorene	0.07	0.24	0.32	ND
C2 - Fluorene	0.04	0.23	0.22	ND
C3 - Fluorene	0.02	0.3	0.35	ND
C0 - Phenanthrene/Anthracene	0.12	2.14	4.09	0.01
C1 - Phenanthrene/Anthracene	0.09	0.95	1.38	ND
C2 - Phenanthrene/Anthracene	0.09	0.63	0.89	ND
C3 - Phenanthrene/Anthracene	0.03	0.31	0.39	ND
C4 - Phenanthrene/Anthracene	ND	0.11	0.1	ND
C0 - Dibenzothiophene	0.02	0.11	0.18	ND
C1 - Dibenzothiophene	0.03	0.16	0.21	ND
C2 - Dibenzothiophene	0.02	0.21	0.26	ND
C3 - Dibenzothiophene	0	0.11	0.24	ND
C0 - Fluoranthene/Pyrene	0.58	5.82	10.1	0.02
C1 - Fluoranthene/Pyrene	0.21	1.63	2.6	ND
C2 - Fluoranthene/Pyrene	0.07	0.63	1.04	ND
C3 - Fluoranthene/Pyrene	0.02	0.23	0.36	ND
C0 - Benz(a)anthracene/Chrysene	0.22	2.46	4.95	0
C1 - Benz(a)anthracene/Chrysene	0.09	0.99	1.64	ND
C2 - Benz(a)anthracene/Chrysene	0.03	0.43	0.64	ND
C3 - Benz(a)anthracene/Chrysene	0	0.22	0.2	ND
C4 - Benz(a)anthracene/Chrysene	ND	0.09	0.08	ND

Field ID:	TP1 (8.0-9.0)	TP10 (9.5-10.5)	TP13 (8-9)	TP14 (9.0-10.0)
Lab ID:	992477A-01	992414A-03	992414A-05	992414A-10
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	258	4.32	257	2.06
2-Methylnaphthalene	208	1.85	225	0.36
1-Methylnaphthalene	71.8	145	163	3.86
Acenaphthylene	18.9	27.6	21	1.02
Acenaphthene	22.2	129	11.5	3.54
Dibenzofuran	11.7	50.9	6.45	0.24
Fluorene	32.1	101	44.2	2.41
Phenanthrene	93.4	262	123	7.4
Anthracene	34.3	92.4	40.3	1.89
Fluoranthene	32.5	114	40.8	2.21
Pyrene	49.8	136	67.5	4.06
Benz[a]anthracene	21.4	66.8	28.1	1.59
Chrysene	26.4	80.2	34.6	2.04
Benzo[b]fluoranthene	5.54	22.4	10	0.48
Benzo[k]fluoranthene	13.8	51.3	21.2	1.01
Benzo(e)pyrene	7.31	26.1	13.6	0.76
Benzo[a]pyrene	12.9	44.4	23.3	1.1
Perylene	2.22	7.49	4.33	0.17
Indeno[1,2,3-cd]pyrene	3.52	15.5	8.13	0.43
Dibenz[a,h]anthracene	1.3	5.87	2.68	0.15
Benzo[g,h,i]perylene	3.95	16.1	8.86	0.57
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	258	4.32	257	2.06
C1 - Naphthalene	117	90.4	178	2.59
C2 - Naphthalene	69.5	111	102	3.72
C3- Naphthalene	36.4	53	25.5	2.26
C4- Naphthalene	16.3	13.7	4.79	1.03
C0 - Fluorene	32.1	101	44.2	2.41
C1 - Fluorene	29.4	63.3	22	2.01
C2 - Fluorene	15.5	23.6	9.27	1.09
C3 - Fluorene	11	13.3	5.83	0.8
C0 - Phenanthrene/Anthracene	125	346	161	9.56
C1 - Phenanthrene/Anthracene	67.2	153	76.1	5.16
C2 - Phenanthrene/Anthracene	36.6	66.4	27	2.68
C3 - Phenanthrene/Anthracene	15	24.7	6.43	1.09
C4 - Phenanthrene/Anthracene	4.15	8.55	1.53	0.5
C0 - Dibenzothiophene	5.01	14.9	8.79	0.73
C1 - Dibenzothiophene	7.18	11.5	8.31	0.71
C2 - Dibenzothiophene	7.14	8.74	5.14	0.58
C3 - Dibenzothiophene	4.37	4.91	1.7	0.28
C0 - Fluoranthene/Pyrene	88.1	268	111	7.13
C1 - Fluoranthene/Pyrene	42.6	111	45.7	3.25
C2 - Fluoranthene/Pyrene	17.8	39	14	1.18
C3 - Fluoranthene/Pyrene	7.18	14.5	4.42	0.47
C0 - Benz(a)anthracene/Chrysene	38.9	120	51.6	3.01
C1 - Benz(a)anthracene/Chrysene	22.8	52.3	20.7	1.59
C2 - Benz(a)anthracene/Chrysene	7.76	20	5.49	0.48
C3 - Benz(a)anthracene/Chrysene	2.18	9.51	2.29	0.19
C4 - Benz(a)anthracene/Chrysene	0.88	2.93	0.16	0.05

Field ID:	TP14 HLDR B	TP15 (9.0-10.0)	TP2 (8.0-9.0)	TP20 (6.5-7.0)
Lab ID:	992414A-14	992414A-08	992414A-09	992414A-13
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.41	10.3	0.35	552
2-Methylnaphthalene	0.24	22.3	0.13	566
1-Methylnaphthalene	1.07	14.5	15.9	182
Acenaphthylene	2.39	0.84	0.98	65.1
Acenaphthene	3.36	6.45	9.62	10.6
Dibenzofuran	0.32	0.35	0.85	8.7
Fluorene	2.31	3.77	5	63.2
Phenanthrene	1.24	11.5	19	273
Anthracene	2.12	3.65	4.85	73.1
Fluoranthene	4.68	3.25	5.65	87
Pyrene	8.29	5.64	11	188
Benz[a]anthracene	3.47	2.17	4	57.3
Chrysene	5.01	2.73	5.31	72.7
Benzo[b]fluoranthene	2.16	0.53	1.09	23.4
Benzo[k]fluoranthene	3.59	0.85	2.21	39.3
Benzo(e)pyrene	2.96	0.74	1.56	35.9
Benzo[a]pyrene	3.06	1.06	2.38	58.7
Perylene	0.56	0.14	0.5	8.76
Indeno[1,2,3-cd]pyrene	2.55	0.37	0.84	20.2
Dibenz[a,h]anthracene	0.86	0.13	0.29	6.65
Benzo[g,h,i]perylene	3.23	0.47	1.08	27.8
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.41	10.3	0.35	552
C1 - Naphthalene	0.8	16.8	10.1	312
C2 - Naphthalene	9.14	12.5	31.3	93.7
C3- Naphthalene	28.6	7.41	31.2	20.6
C4- Naphthalene	19.4	3.7	14.9	1.84
C0 - Fluorene	2.31	3.77	5	63.2
C1 - Fluorene	5.36	3.52	6.5	35.3
C2 - Fluorene	6.44	2.97	7.56	7.24
C3 - Fluorene	5.1	2.86	5.56	2.9
C0 - Phenanthrene/Anthracene	3.24	14.3	23.5	341
C1 - Phenanthrene/Anthracene	6.27	9.51	19	125
C2 - Phenanthrene/Anthracene	9.91	6.85	13.7	31
C3 - Phenanthrene/Anthracene	6.01	3.69	6.63	4.02
C4 - Phenanthrene/Anthracene	2.88	1.98	3.23	3.82
C0 - Dibenzothiophene	1.29	0.67	2.08	22.1
C1 - Dibenzothiophene	3.59	1.18	3.96	16.8
C2 - Dibenzothiophene	5.34	1.47	4.1	6.49
C3 - Dibenzothiophene	3.28	0.96	2.42	0.75
C0 - Fluoranthene/Pyrene	14.5	9.31	19.2	294
C1 - Fluoranthene/Pyrene	8.47	4.46	9.3	102
C2 - Fluoranthene/Pyrene	4.21	2.16	4.07	25.5
C3 - Fluoranthene/Pyrene	1.79	1.06	1.9	4.45
C0 - Benz(a)anthracene/Chrysene	7.01	3.81	7.97	107
C1 - Benz(a)anthracene/Chrysene	4.12	2.11	3.93	38.1
C2 - Benz(a)anthracene/Chrysene	1.81	0.95	1.55	9.08
C3 - Benz(a)anthracene/Chrysene	0.81	0.41	0.68	ND
C4 - Benz(a)anthracene/Chrysene	0.4	0.23	0.33	ND

Field ID:	TP4 (9.5-10.0)	TP5 (8.5-9.5)	TP6 (9.5-10.5)	TP9 (11-11.5)
Lab ID:	992414A-04	992414A-07	992414A-02	992414A-01
<b>PAH COMPOUNDS:</b>	mg/kg	mg/kg	mg/kg	mg/kg
Naphthalene	0.15	171	5910	0.62
2-Methylnaphthalene	0.06	114	3940	0.35
1-Methylnaphthalene	4.1	64.5	1310	18.2
Acenaphthylene	0.53	5.25	639	1.5
Acenaphthene	2.75	38.9	205	21.1
Dibenzofuran	0.22	5.78	62.6	1.28
Fluorene	1.55	22.1	471	7.37
Phenanthrene	4.9	67	1870	24.1
Anthracene	1.39	21.4	531	9.72
Fluoranthene	1.93	21.5	479	14.5
Pyrene	3.34	34.9	1050	21.8
Benz[a]anthracene	1.29	15.1	291	9.35
Chrysene	1.68	19	353	12.7
Benzo[b]fluoranthene	0.43	5.39	76.5	3.83
Benzo[k]fluoranthene	0.85	9.75	191	6.96
Benzo(e)pyrene	0.64	7.16	139	4.51
Benzo[a]pyrene	0.75	11.4	251	6.84
Perylene	0.15	2.1	44.3	1.23
Indeno[1,2,3-cd]pyrene	0.47	4.07	77.4	2.66
Dibenz[a,h]anthracene	0.14	1.46	24.1	0.87
Benzo[g,h,i]perylene	0.65	5.08	98.4	3.03
<b>ALKYLATED PAHs:</b>				
C0 - Naphthalene	0.15	171	5910	0.62
C1 - Naphthalene	2.62	79	2170	11.8
C2 - Naphthalene	5.81	63	788	9.25
C3- Naphthalene	7.22	35.8	218	9.64
C4- Naphthalene	4.65	15.1	19	6.26
C0 - Fluorene	1.55	22.1	471	7.37
C1 - Fluorene	1.9	22	339	5.78
C2 - Fluorene	2.14	12.2	77.5	4.83
C3 - Fluorene	1.97	8.7	9.2	4.53
C0 - Phenanthrene/Anthracene	6.6	87.7	2390	32.3
C1 - Phenanthrene/Anthracene	4.89	51.8	970	18.9
C2 - Phenanthrene/Anthracene	3.77	29	261	13.8
C3 - Phenanthrene/Anthracene	1.83	12.1	39.4	7.19
C4 - Phenanthrene/Anthracene	0.95	5.32	15.7	3.89
C0 - Dibenzothiophene	0.53	4.63	139	2.27
C1 - Dibenzothiophene	1.02	6.45	106	2.93
C2 - Dibenzothiophene	1.23	6.32	41.3	3.45
C3 - Dibenzothiophene	0.74	3.39	4.09	2.69
C0 - Fluoranthene/Pyrene	5.79	63.4	1690	38.4
C1 - Fluoranthene/Pyrene	2.54	30.1	613	14.6
C2 - Fluoranthene/Pyrene	1.21	12.6	147	6.1
C3 - Fluoranthene/Pyrene	0.48	5.53	17.7	2.77
C0 - Benz(a)anthracene/Chrysene	2.37	28.3	538	17.7
C1 - Benz(a)anthracene/Chrysene	1.09	14.5	205	6.91
C2 - Benz(a)anthracene/Chrysene	0.45	6.31	48.4	2.73
C3 - Benz(a)anthracene/Chrysene	0.18	2.18	ND	1.11
C4 - Benz(a)anthracene/Chrysene	0.11	0.35	ND	0.49

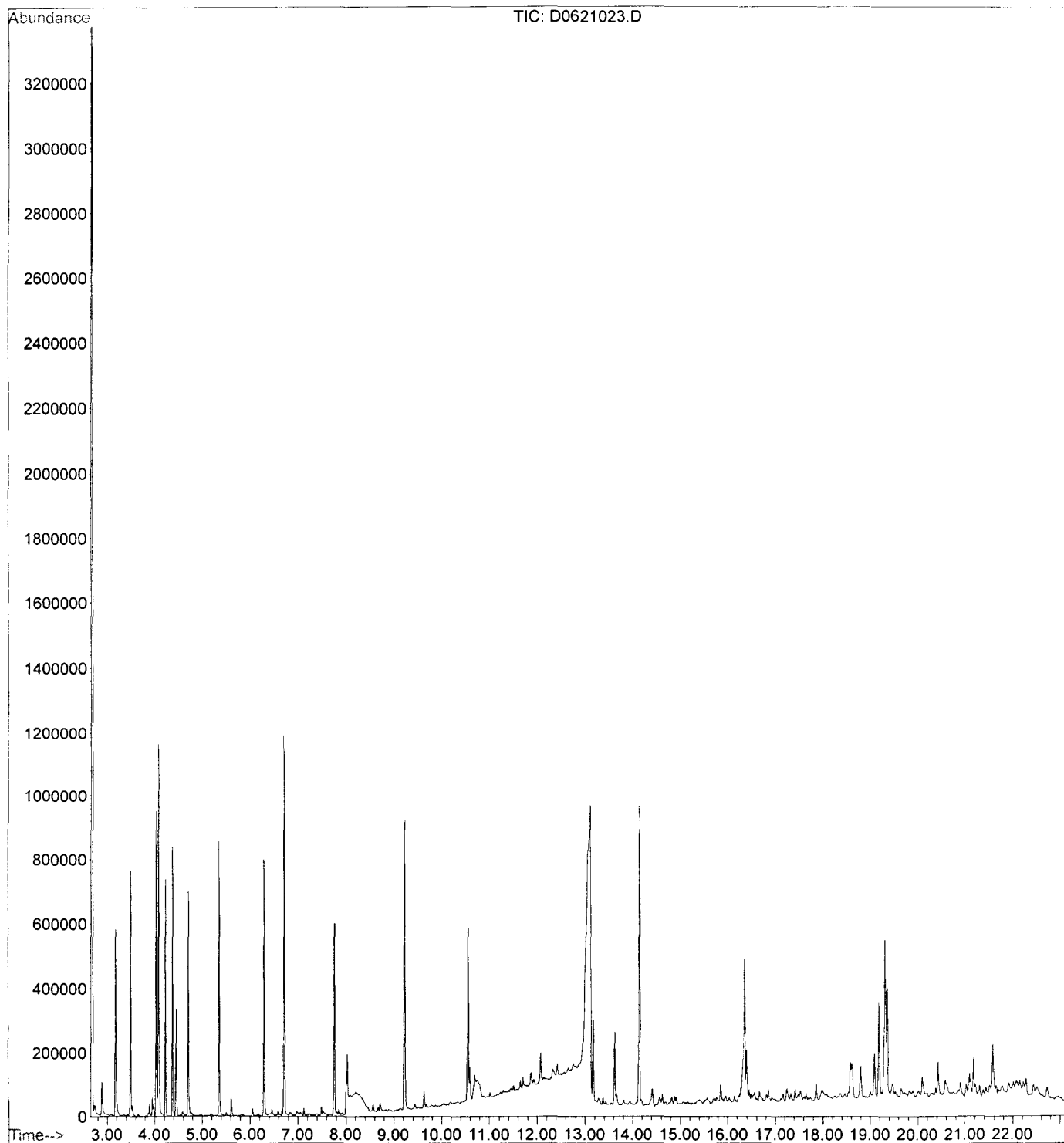
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## TOTAL ION CHROMATOGRAMS

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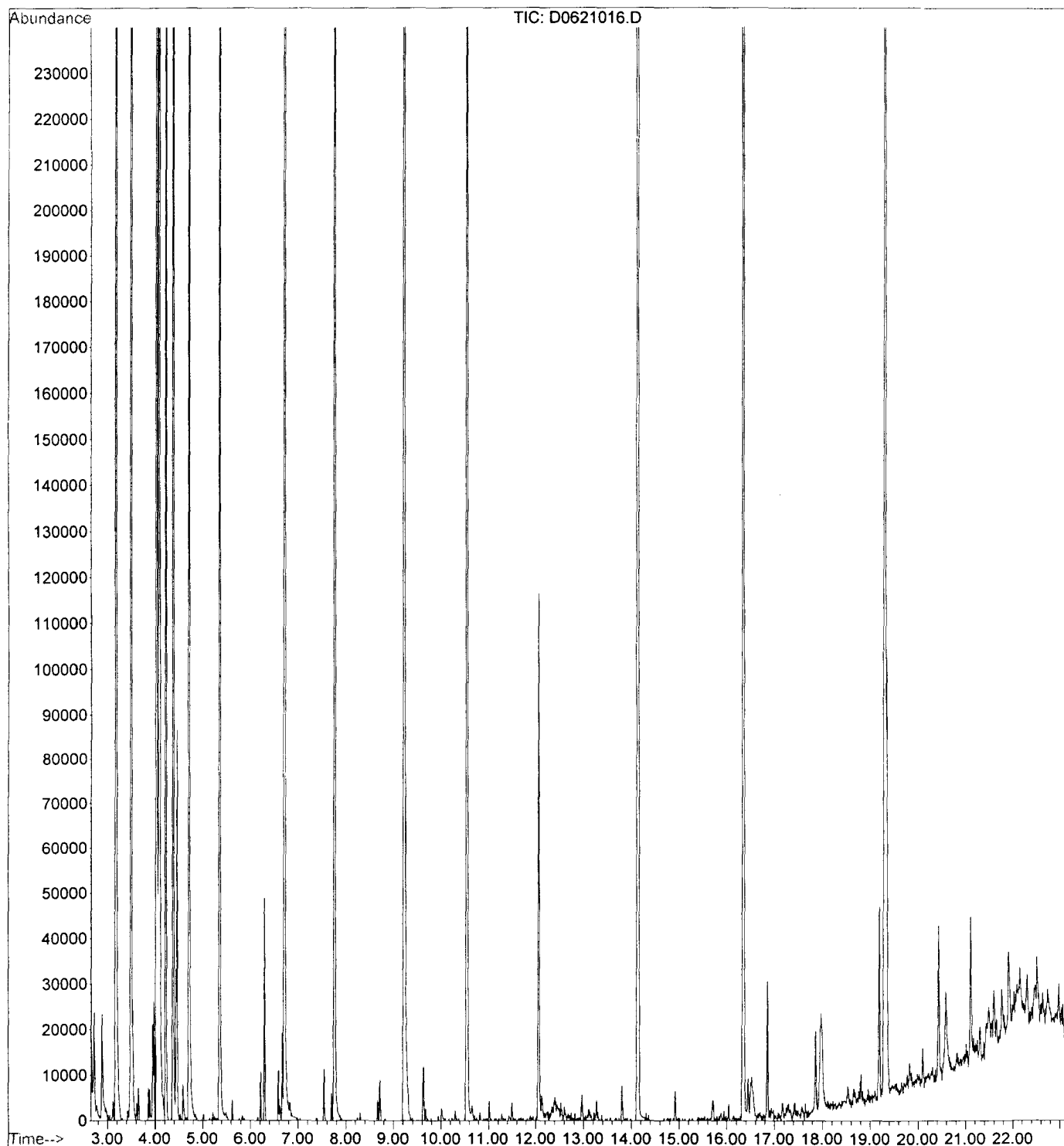
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BSD 1 (0-2)



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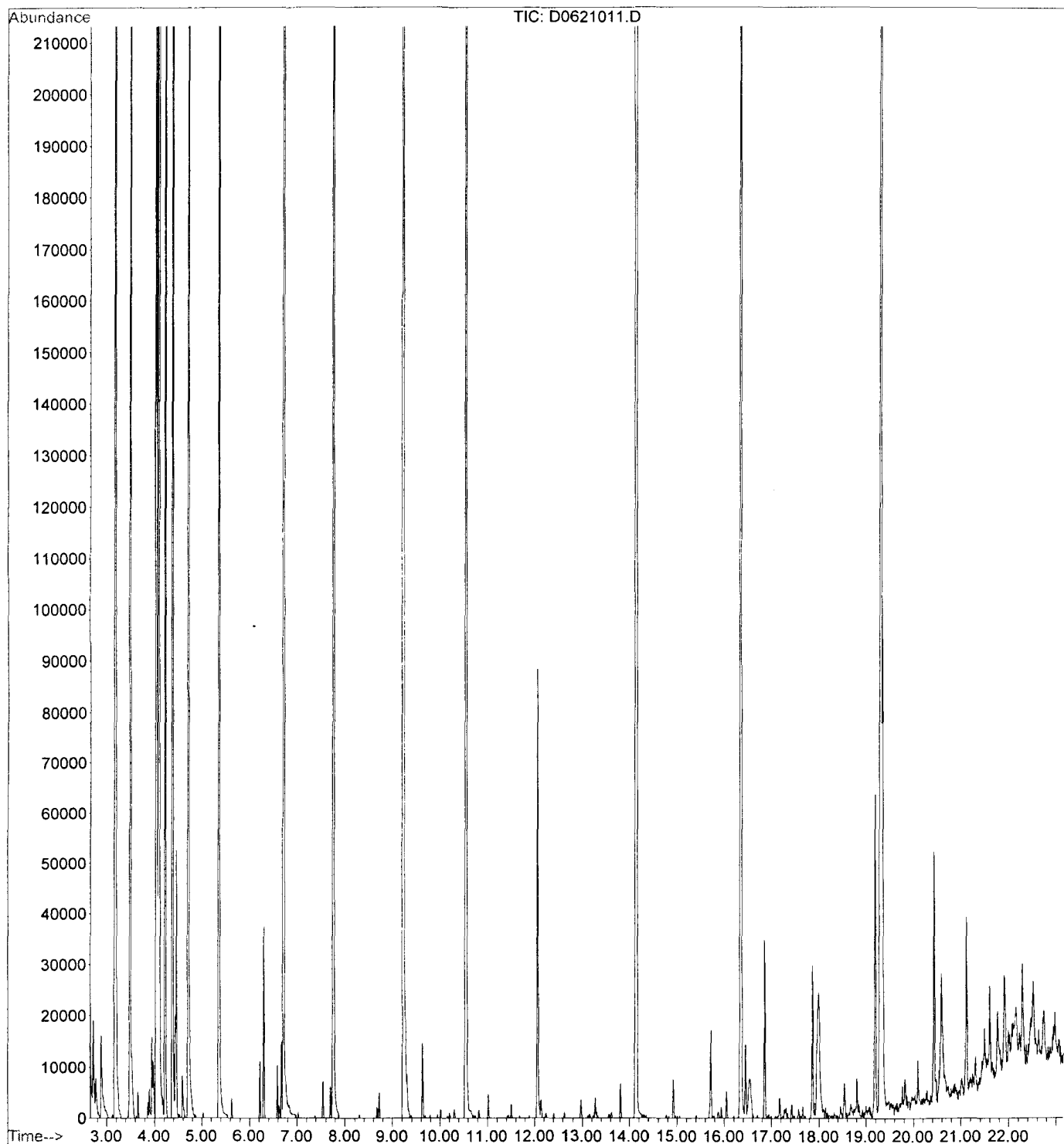
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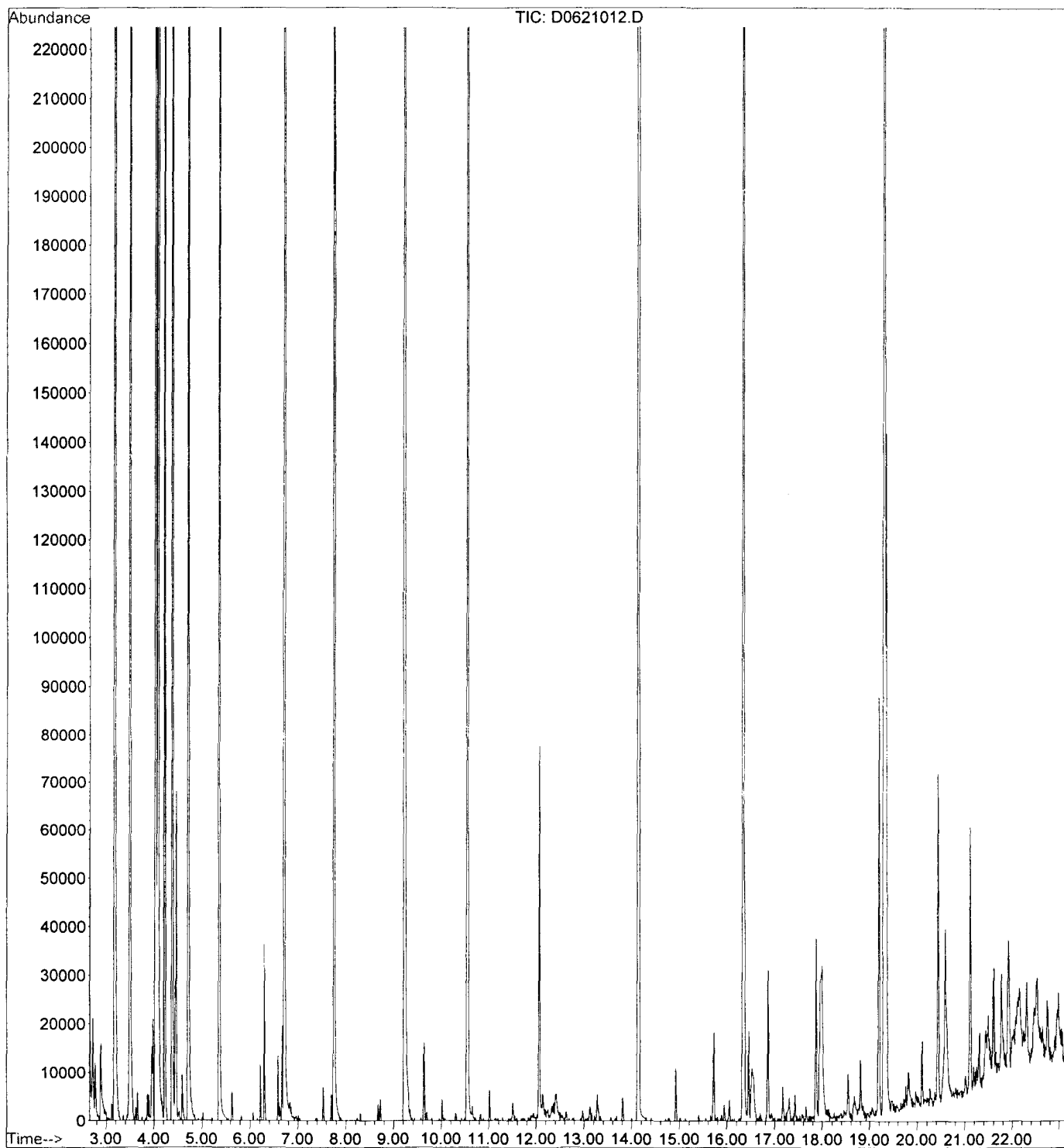
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35711 (0-2)



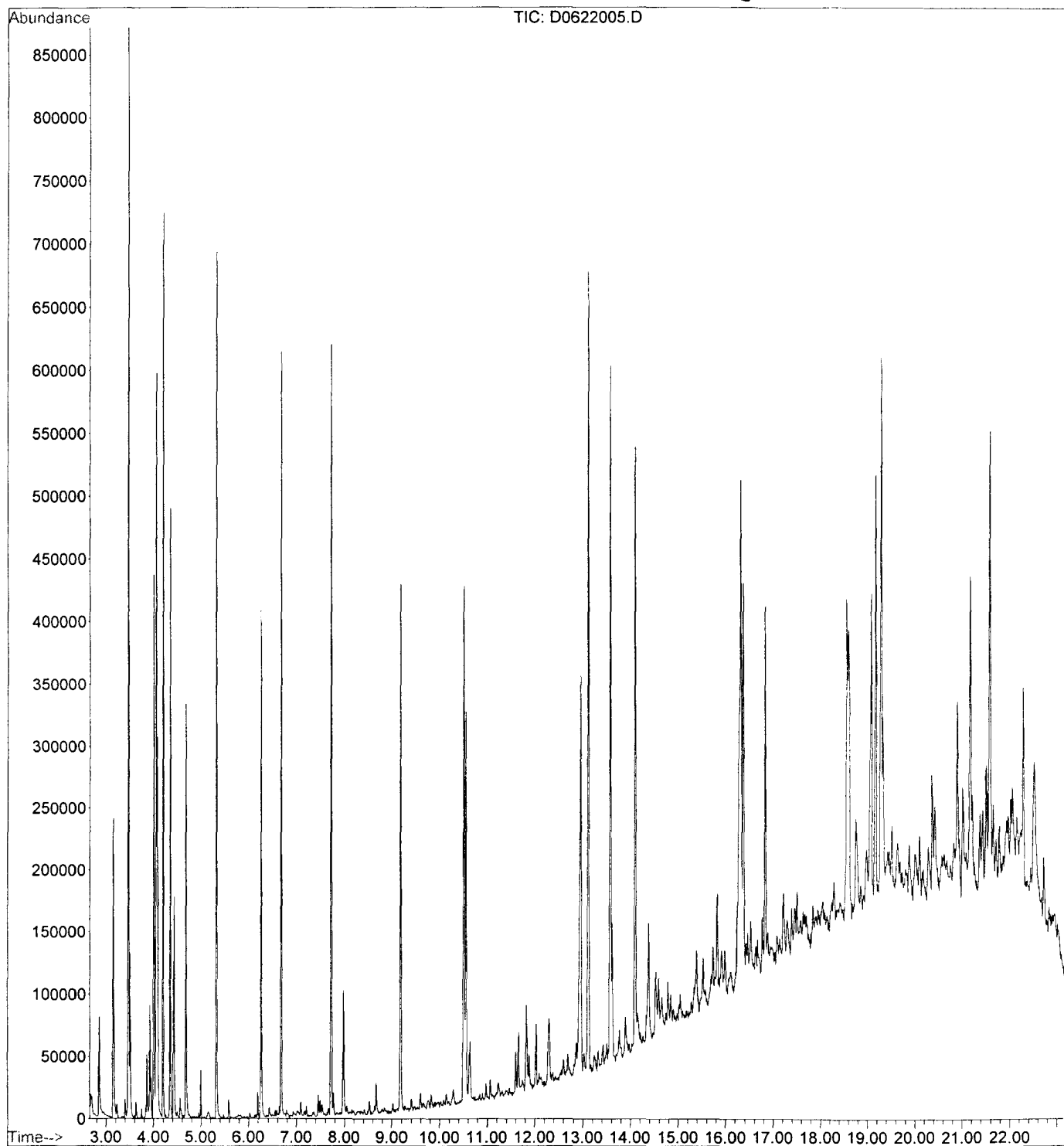
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BSD 12 (C-2)



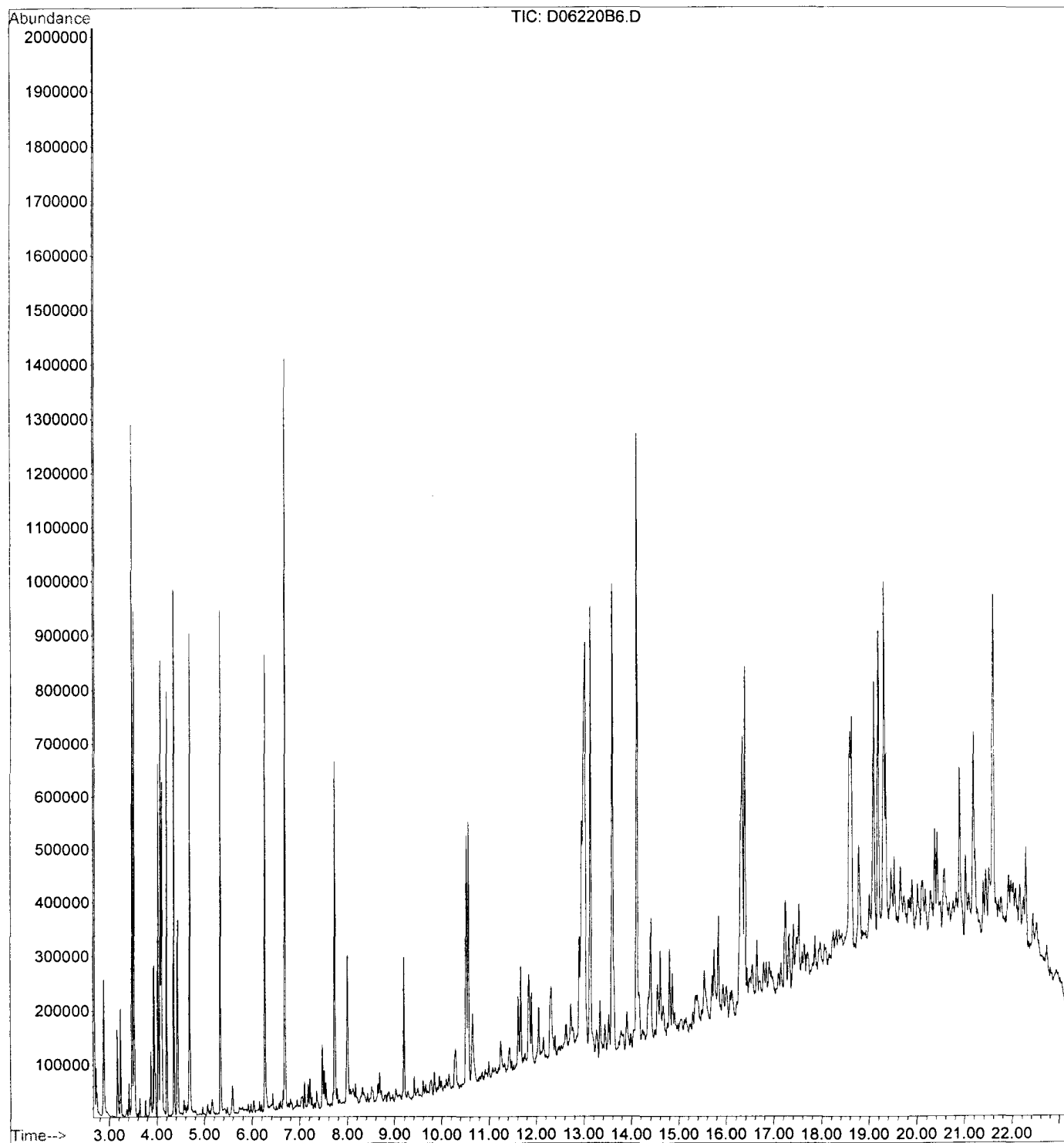
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Vial Number: 7

3SD 14 (0-2)



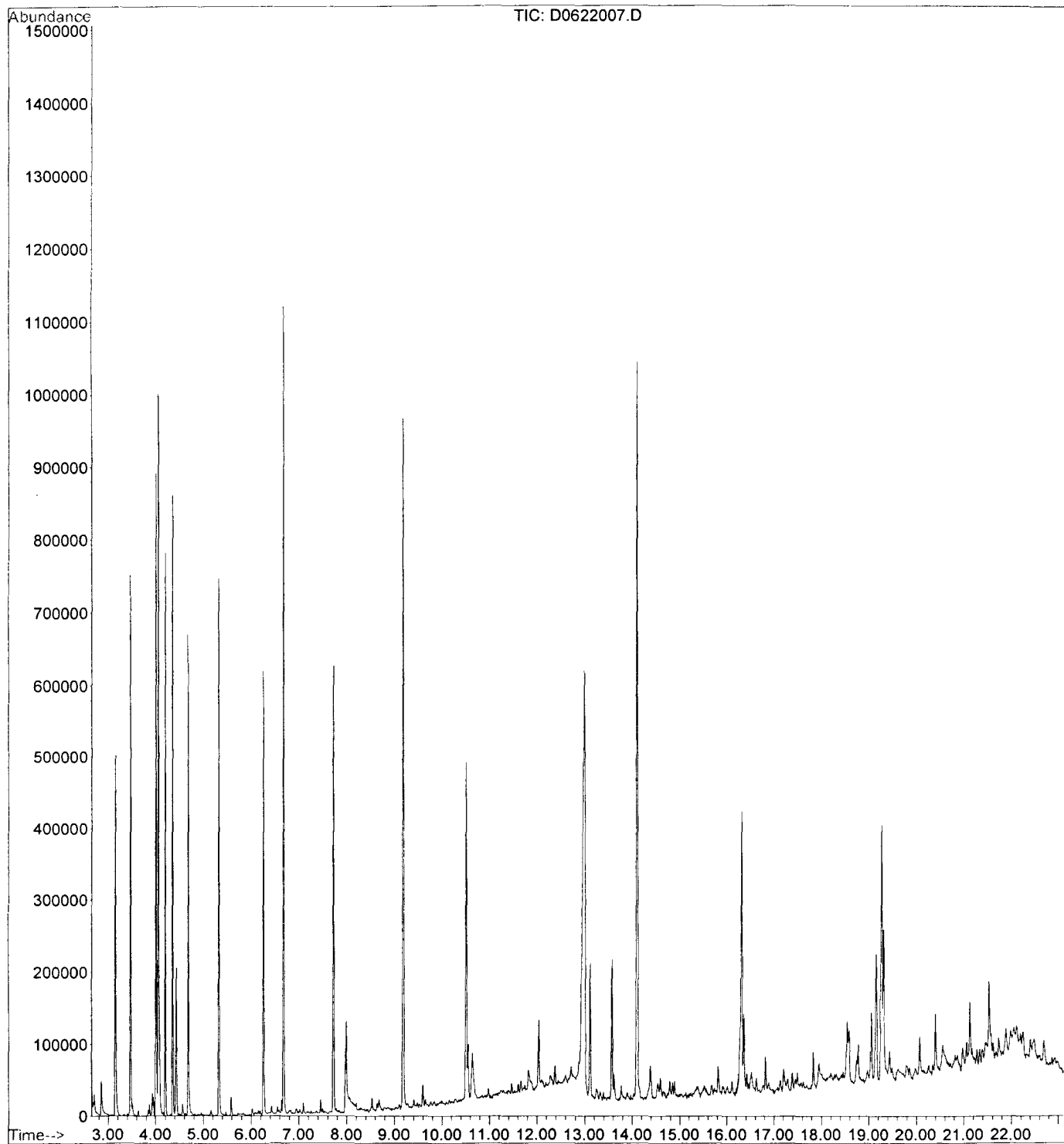
File : D:\NYACK\1NYACK\C1F090120\D06220B6.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 2:45 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-016 soil 6/12/01 clp3.2  
Misc Info : eem591ad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 8

BSD 15(0-2)



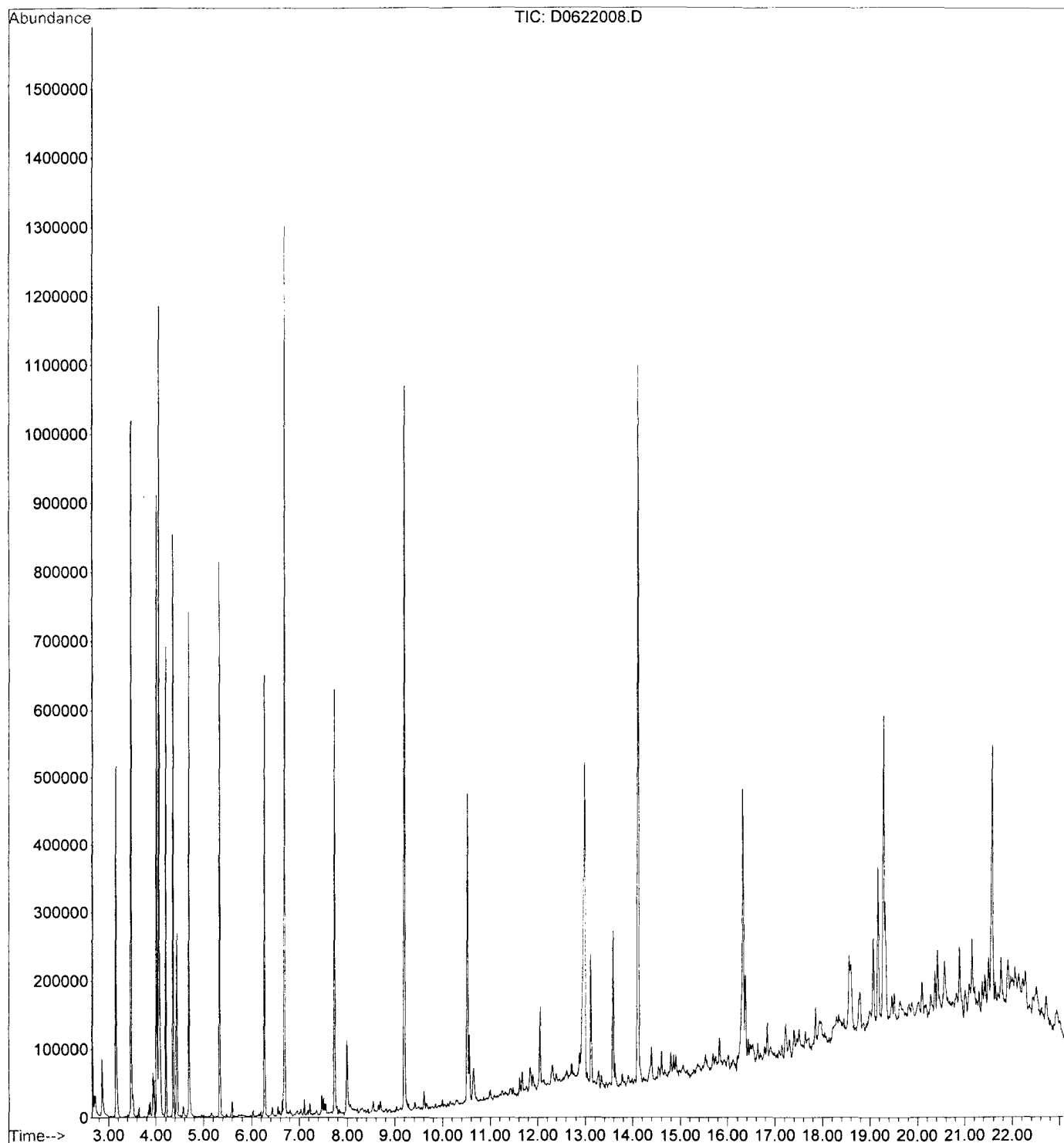
File : D:\NYACK\1NYACK\ClF090120\D0622007.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 2:16 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: clf090120-017 soil 6/12/01 clp3.2  
Misc Info : eem6clad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 9

BSD 16 (C-2)



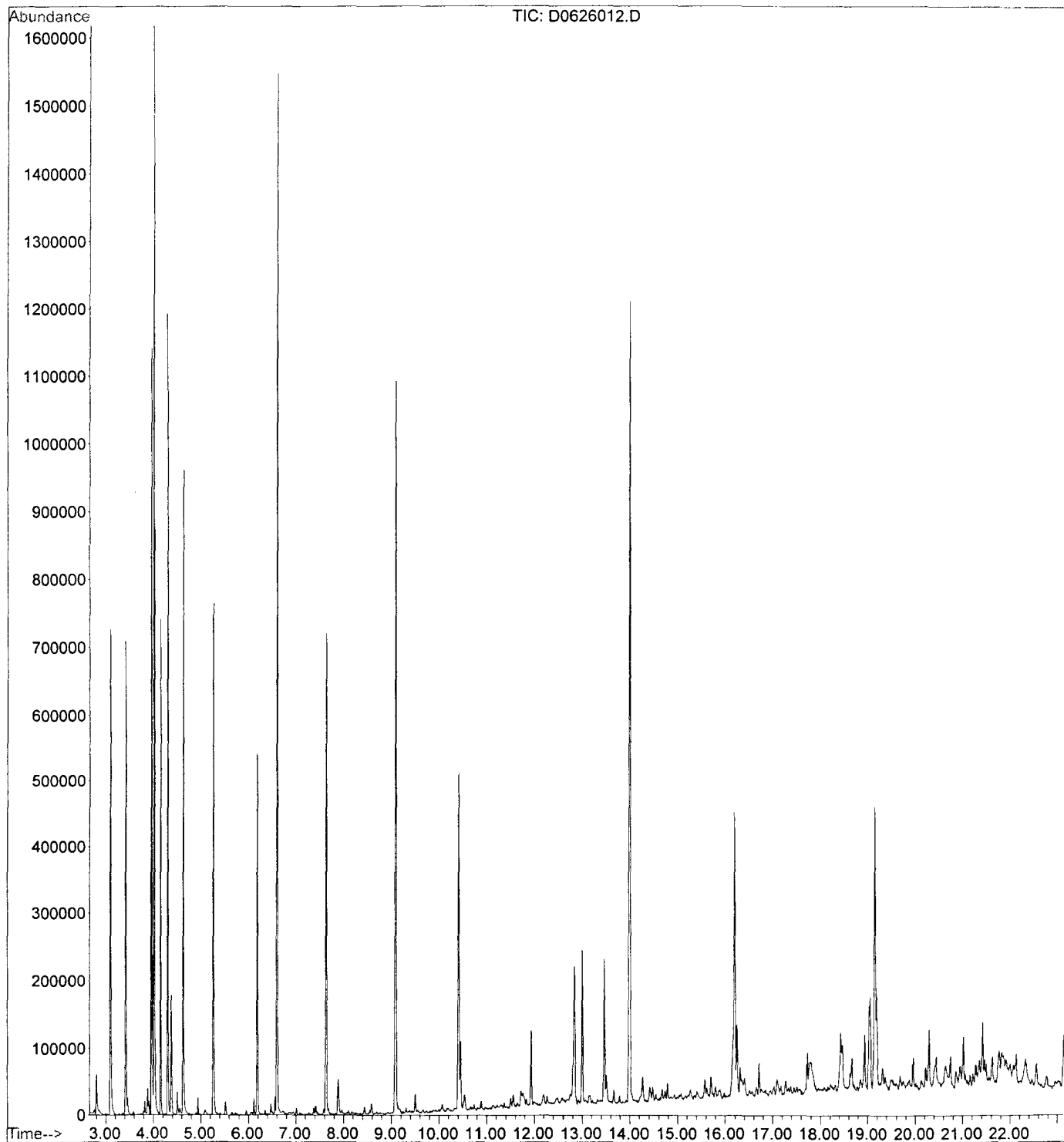
File : D:\NYACK\1NYACK\C1F090120\D0622008.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 3:14 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-018 soil 6/12/01 clp3.2  
Misc Info : eem6elad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 10

BSD 17 (C-2)



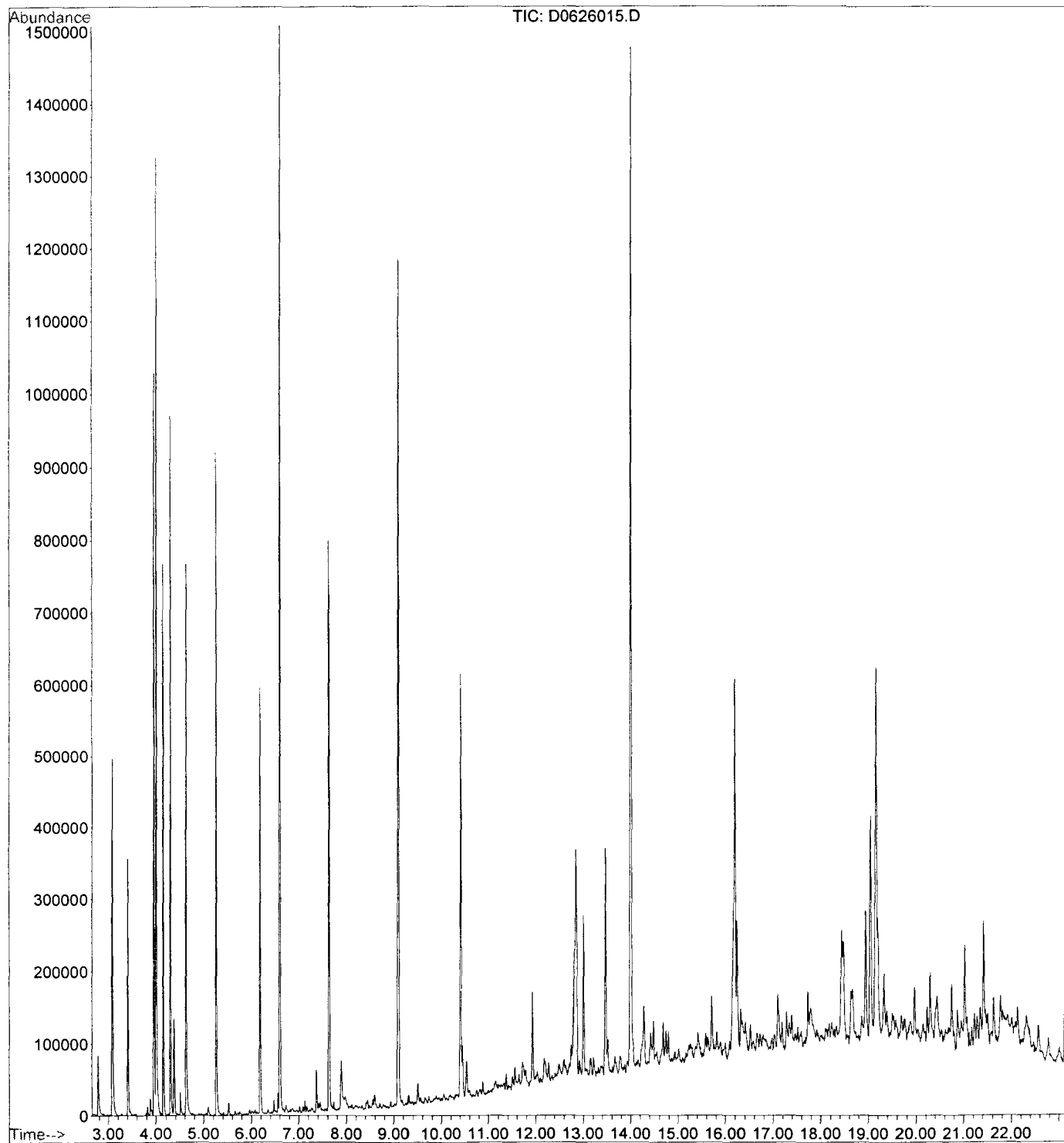
File : D:\NYACK\1NYACK\C1F090124\D0626012.D  
Operator : 001562, DLF  
Acquired : 26 Jun 2001 6:32 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090124-001 soil 6/15/01 clp3.2  
Misc Info : eem8alad,d062601p.b,clp.m,1-3.1.sub  
Vial Number: 14

3SD 18 (0-2)



File : D:\NYACK\1NYACK\C1F090124\D0626015.D  
Operator : 001562, DLF  
Acquired : 26 Jun 2001 7:59 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090124-002 soil 6/15/01 clp3.2  
Misc Info : eem8c1ad,d062601p.b,clp.m,1-3.1.sub  
Vial Number: 17

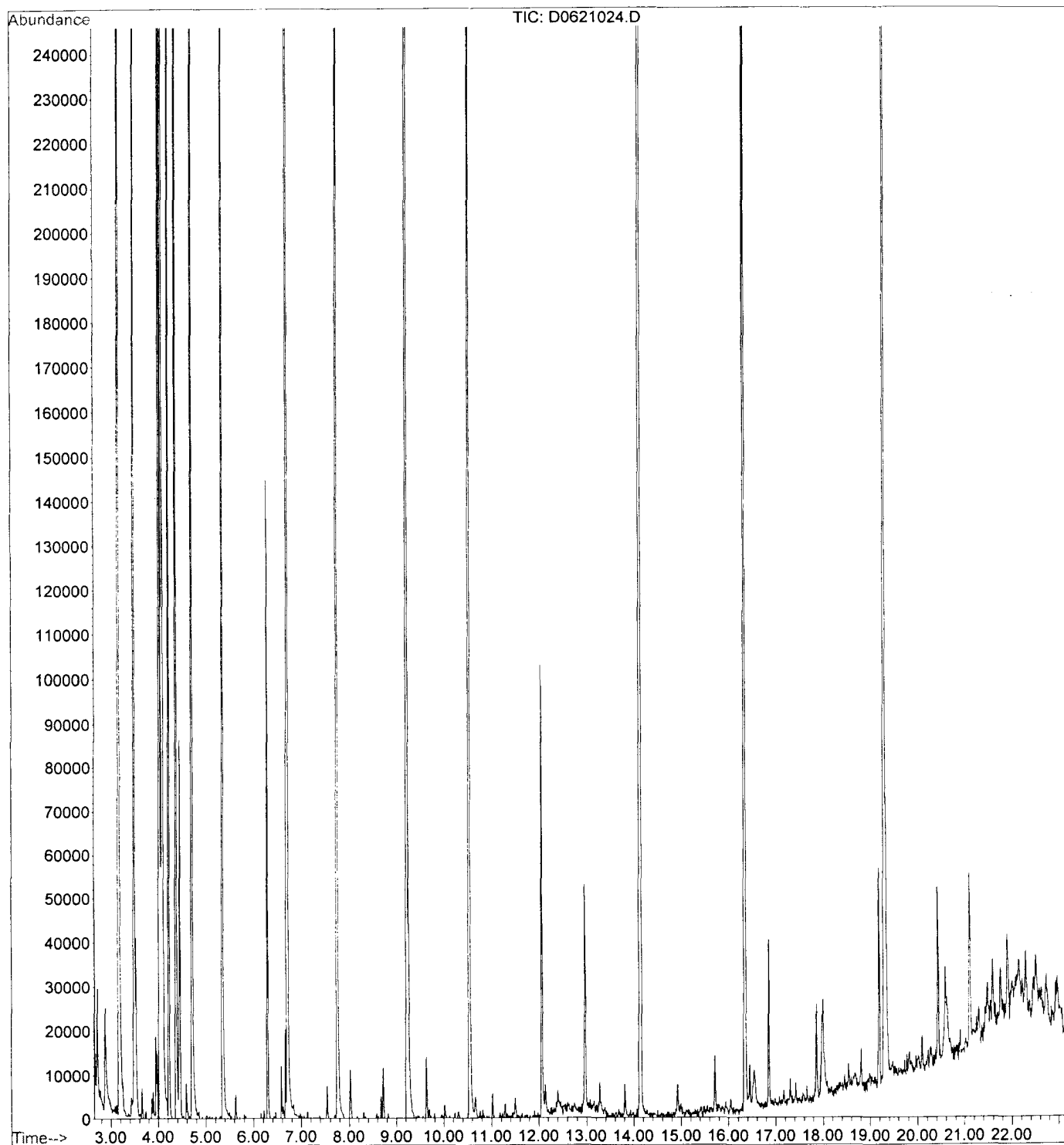
38719 (0-2)





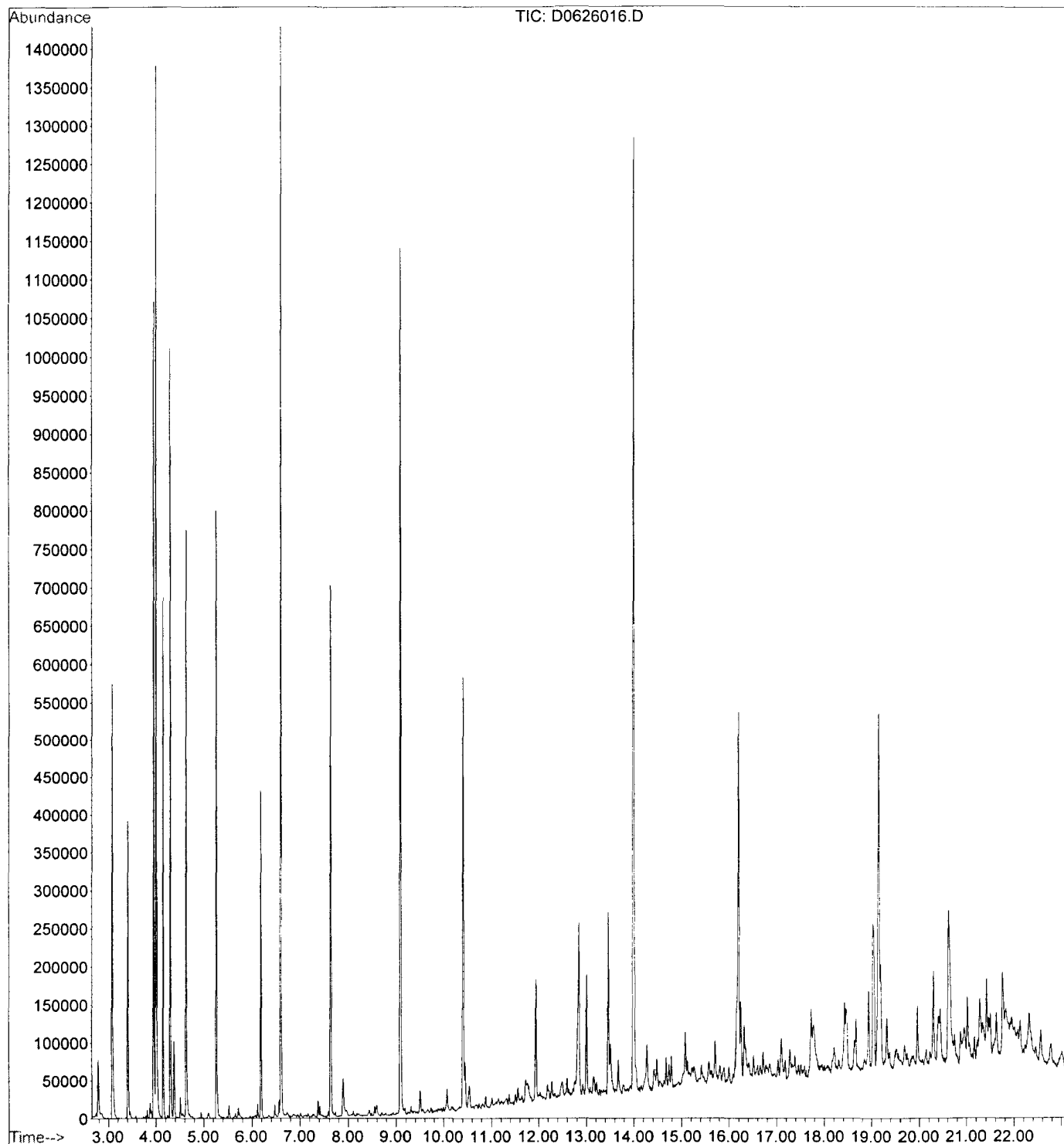
File : D:\NYACK\1NYACK\ClF090120\D0621024.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 12:55 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: clf090120-012 soil 6/12/01 clp3.2  
Misc Info : eem511ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 26

3SD 2 (0-2)



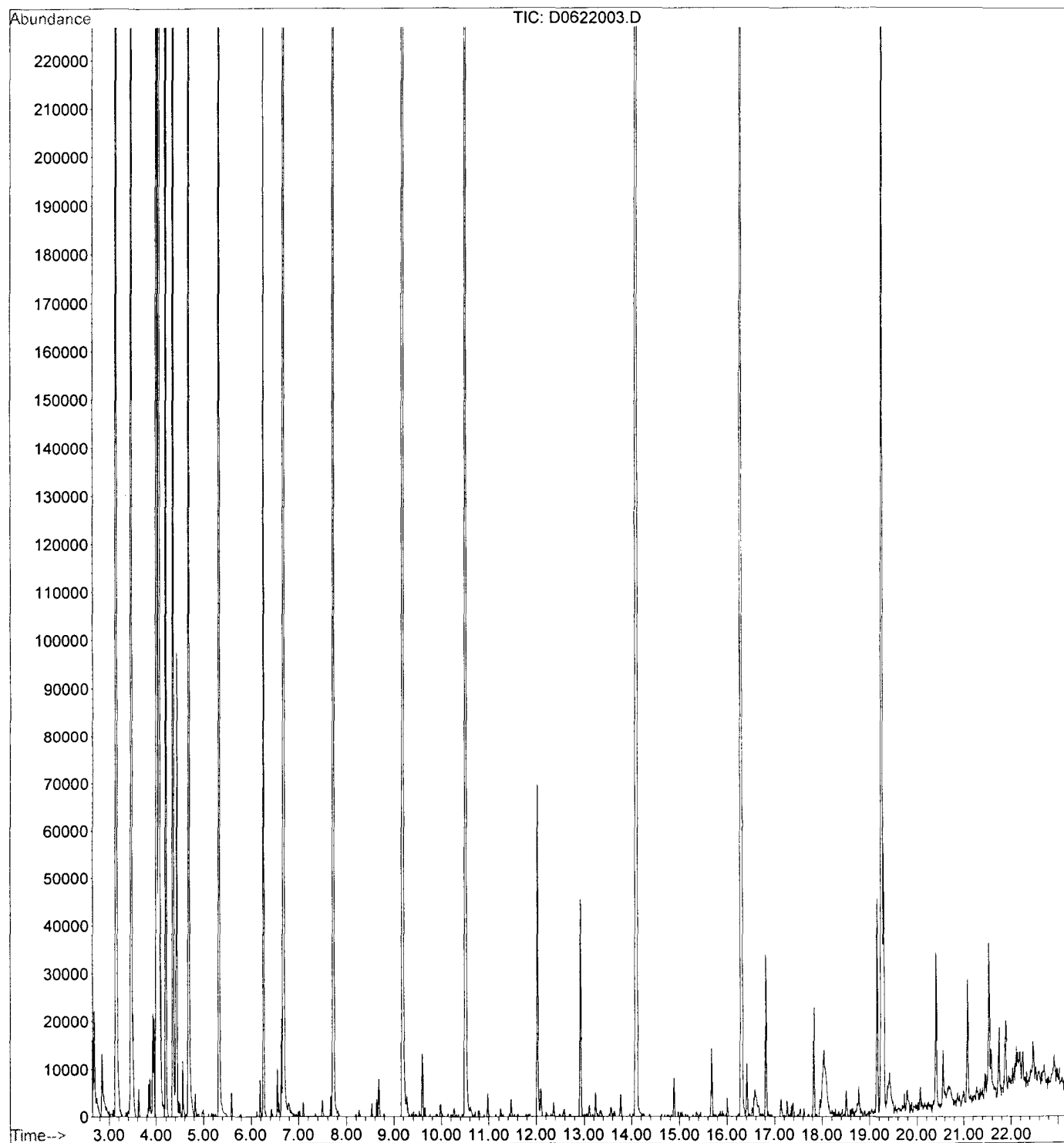
File : D:\NYACK\1NYACK\C1F090124\D0626016.D  
Operator : 001562, DLF  
Acquired : 26 Jun 2001 8:28 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090124-003 soil 6/15/01 clp3.2  
Misc Info : eem8dlad,d062601p.b,clp.m,1-3.1.sub  
Vial Number: 18

BSD 20 (0-2)



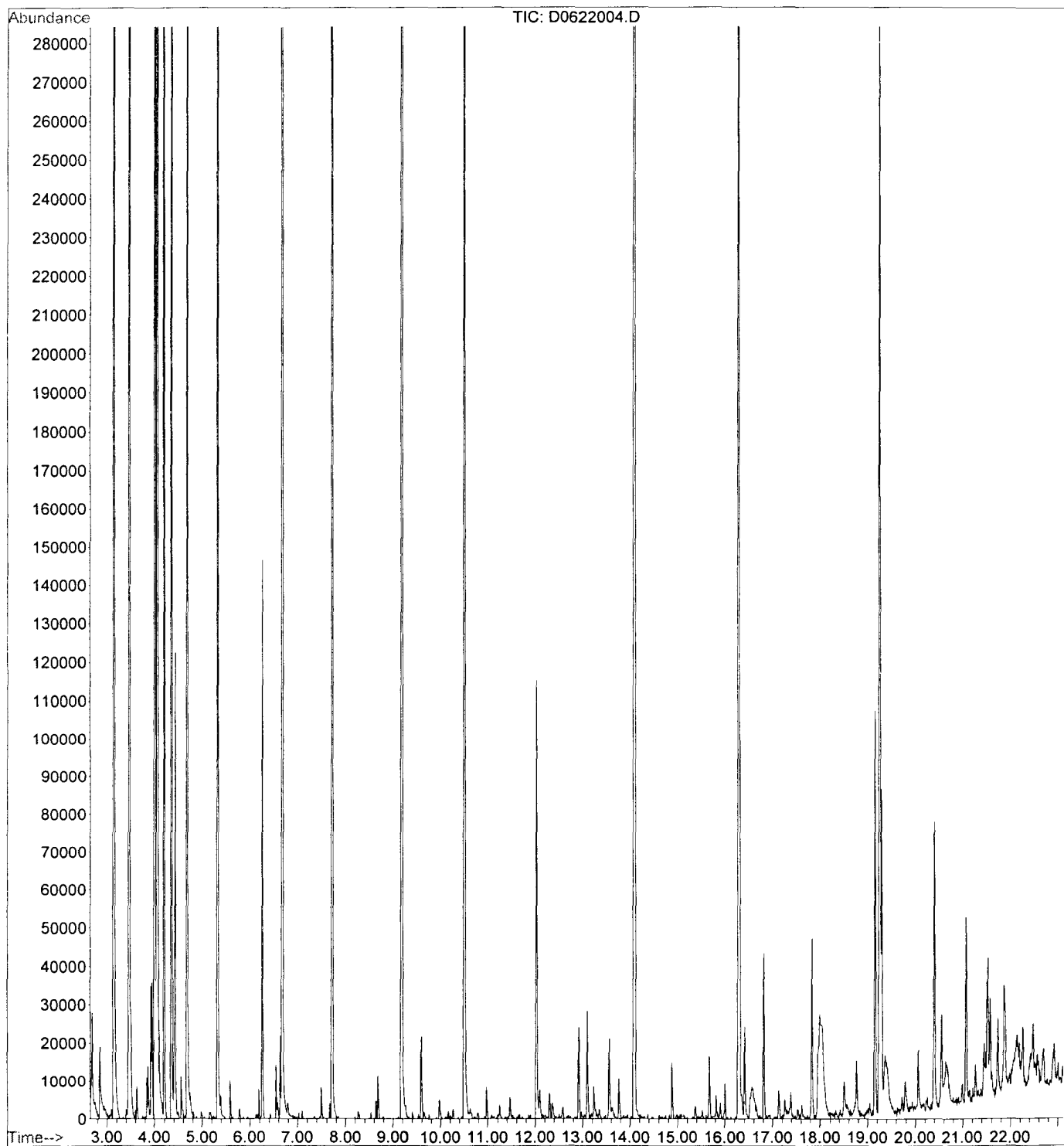
File : D:\NYACK\1NYACK\C1F090120\D0622003.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 12:18 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-013 soil 6/12/01 clp3.2  
Misc Info : eem531ad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 5

BSD 3(0-2)



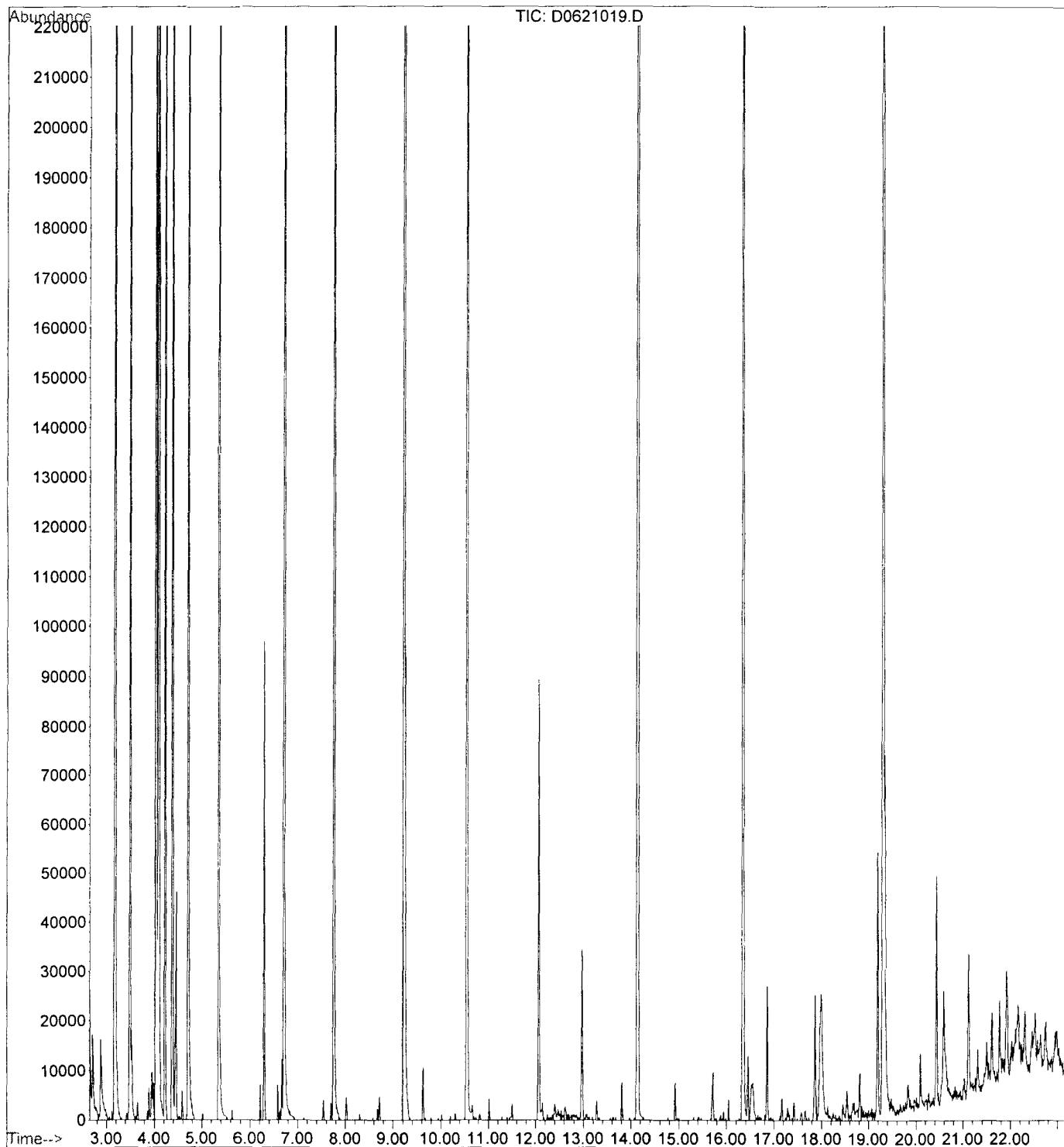
File : D:\NYACK\1NYACK\C1F090120\D0622004.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 12:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-014 soil 6/12/01 clp3.2  
Misc Info : eem551ad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 6

BSD 4 (0-2)



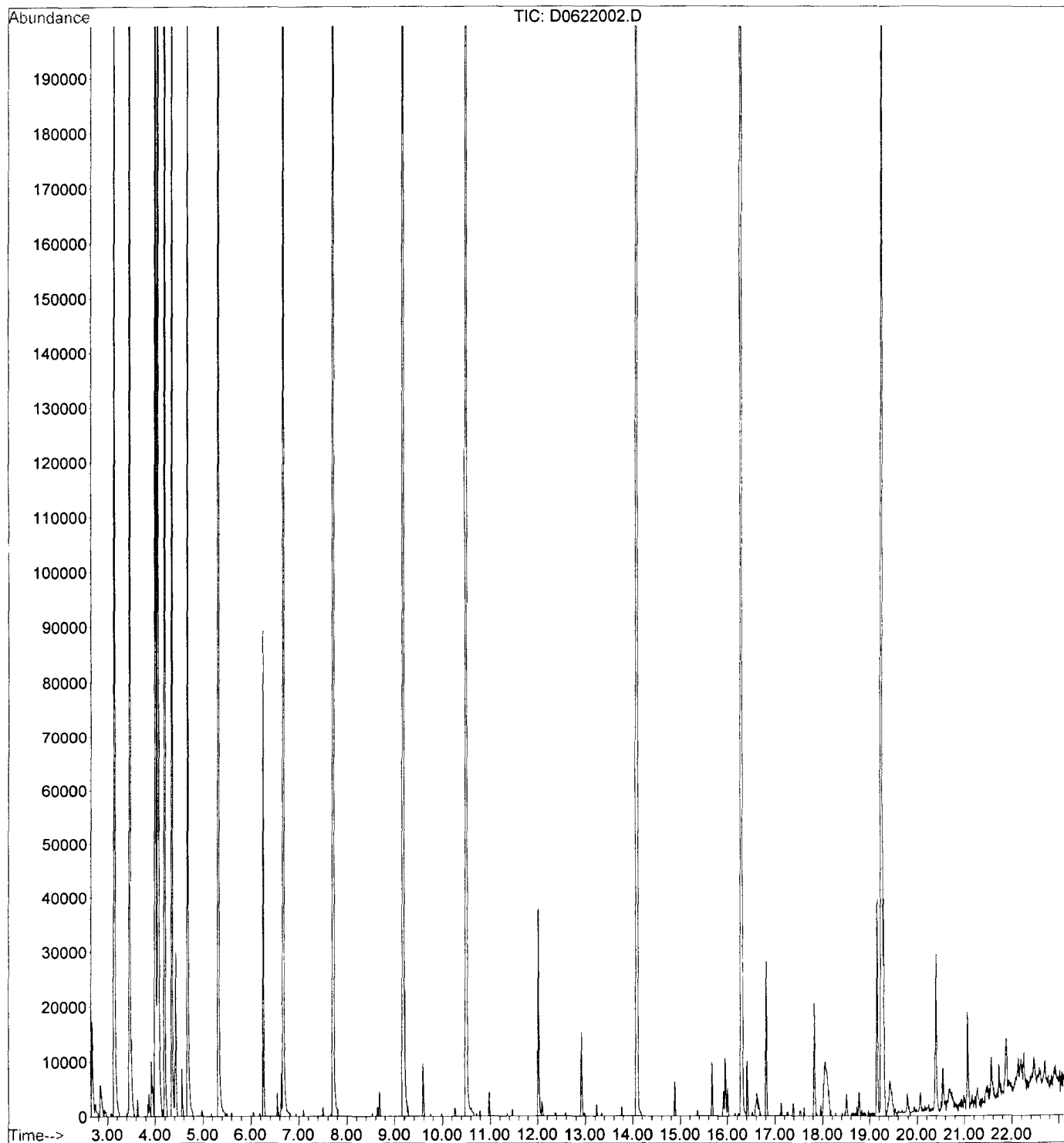
File : D:\NYACK\1NYACK\C1F090120\D0621019.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 10:30 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-007 soil 6/12/01 clp3.2  
Misc Info : eem5r1ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 21

BSD 5 (0-2)



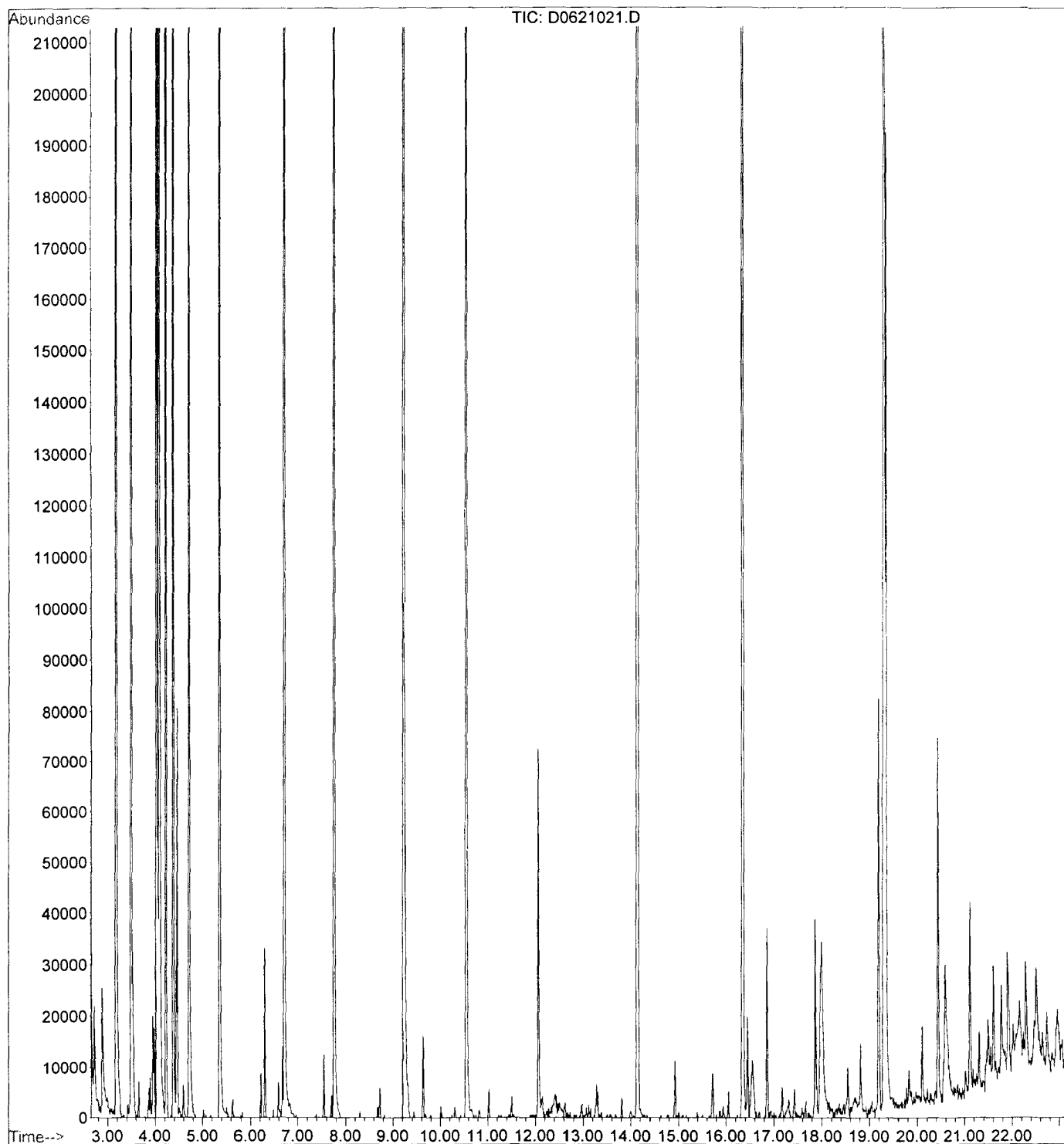
File : D:\NYACK\1NYACK\C1F090120\D0622002.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 11:49 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-008 soil 6/12/01 clp3.2  
Misc Info : eem5t1ad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 4

BSD 50 (0.2)



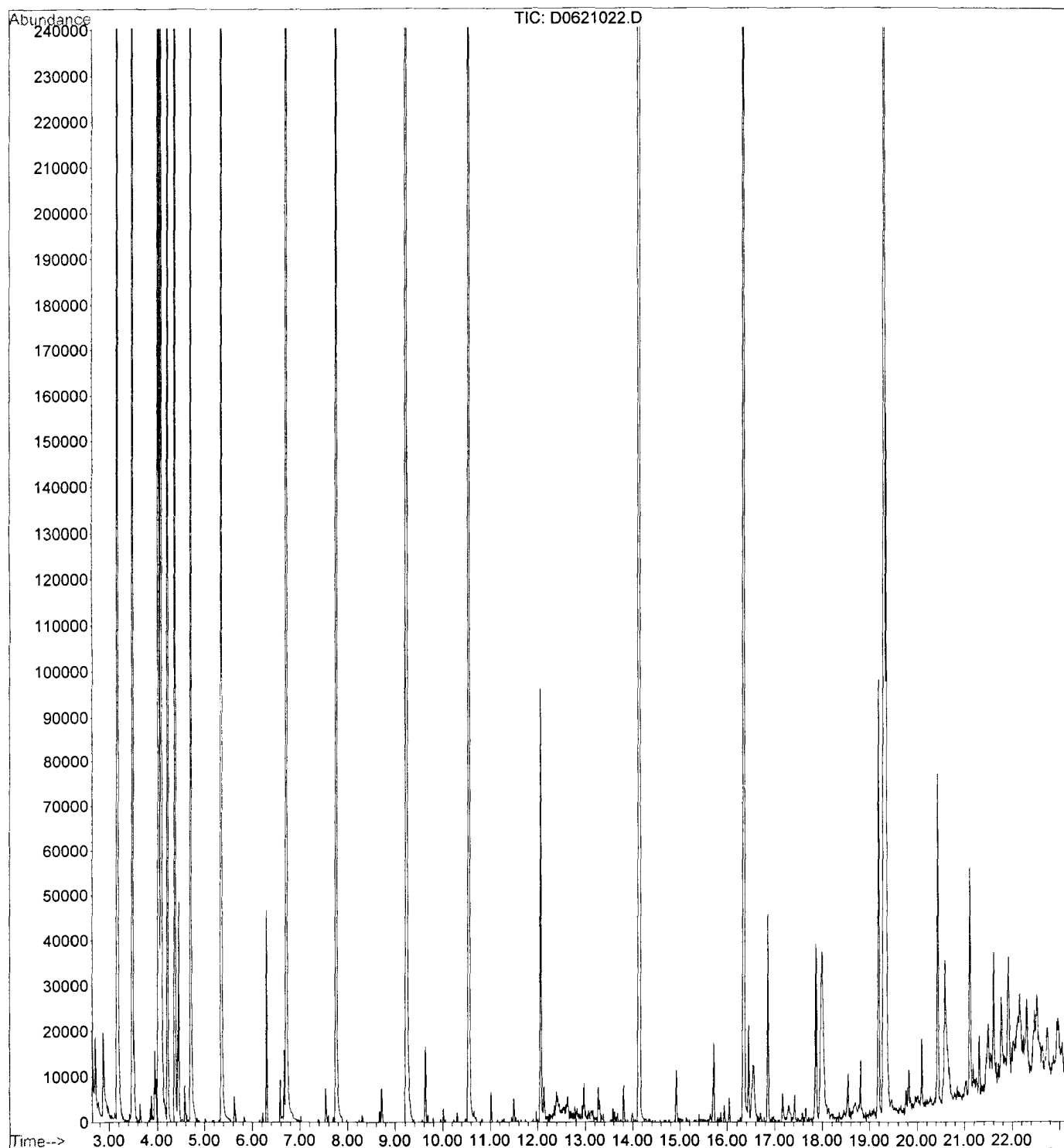
File : D:\NYACK\1NYACK\C1F090120\D0621021.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 11:28 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-009 soil 6/12/01 clp3.2  
Misc Info : eem5wlad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 23

BSD6 (0-2)



File : D:\NYACK\1NYACK\C1F090120\D0621022.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 11:57 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-010 soil 6/12/01 clp3.2  
Misc Info : eem5x1ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 24

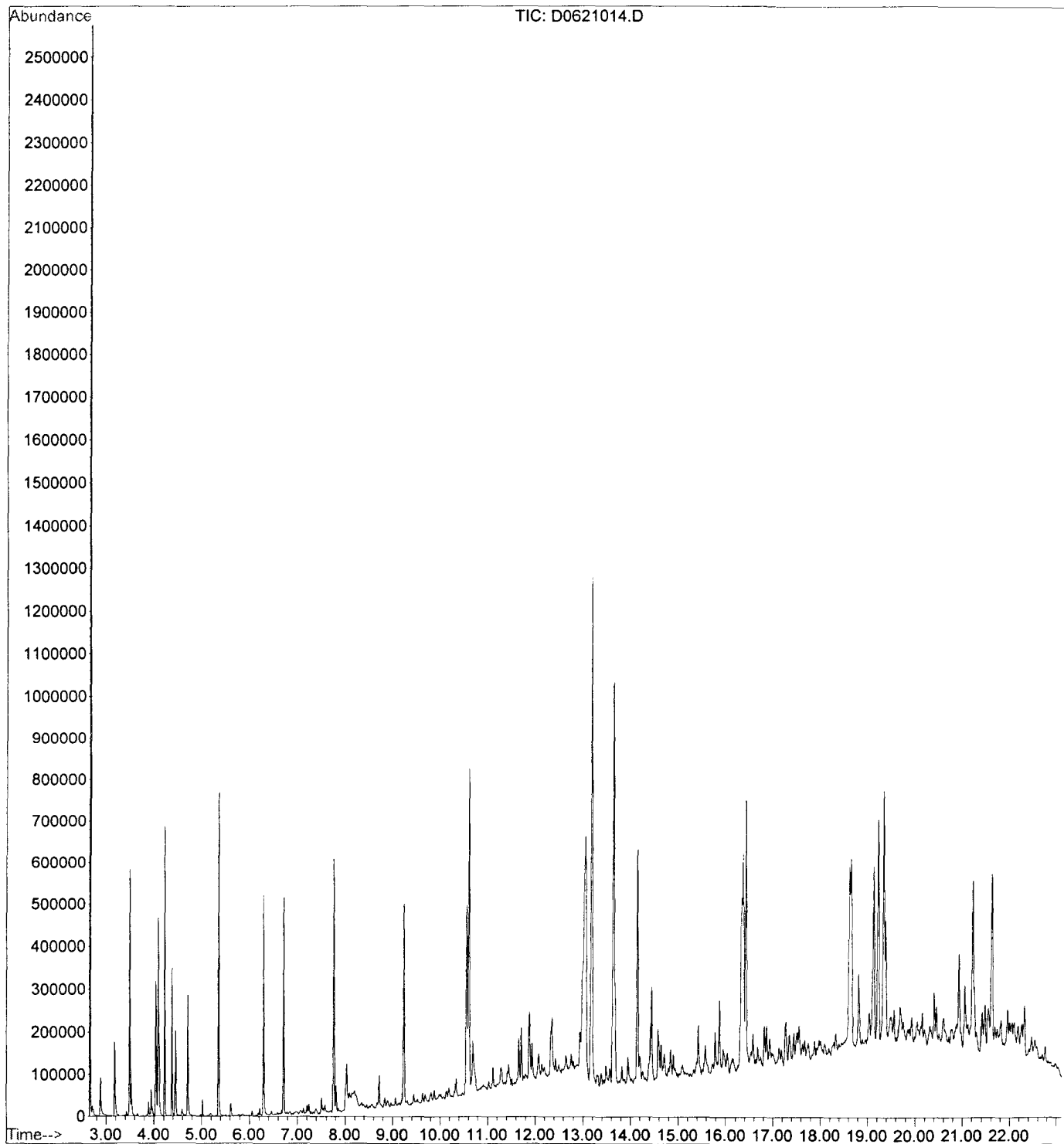
BSD 7 (0-2)





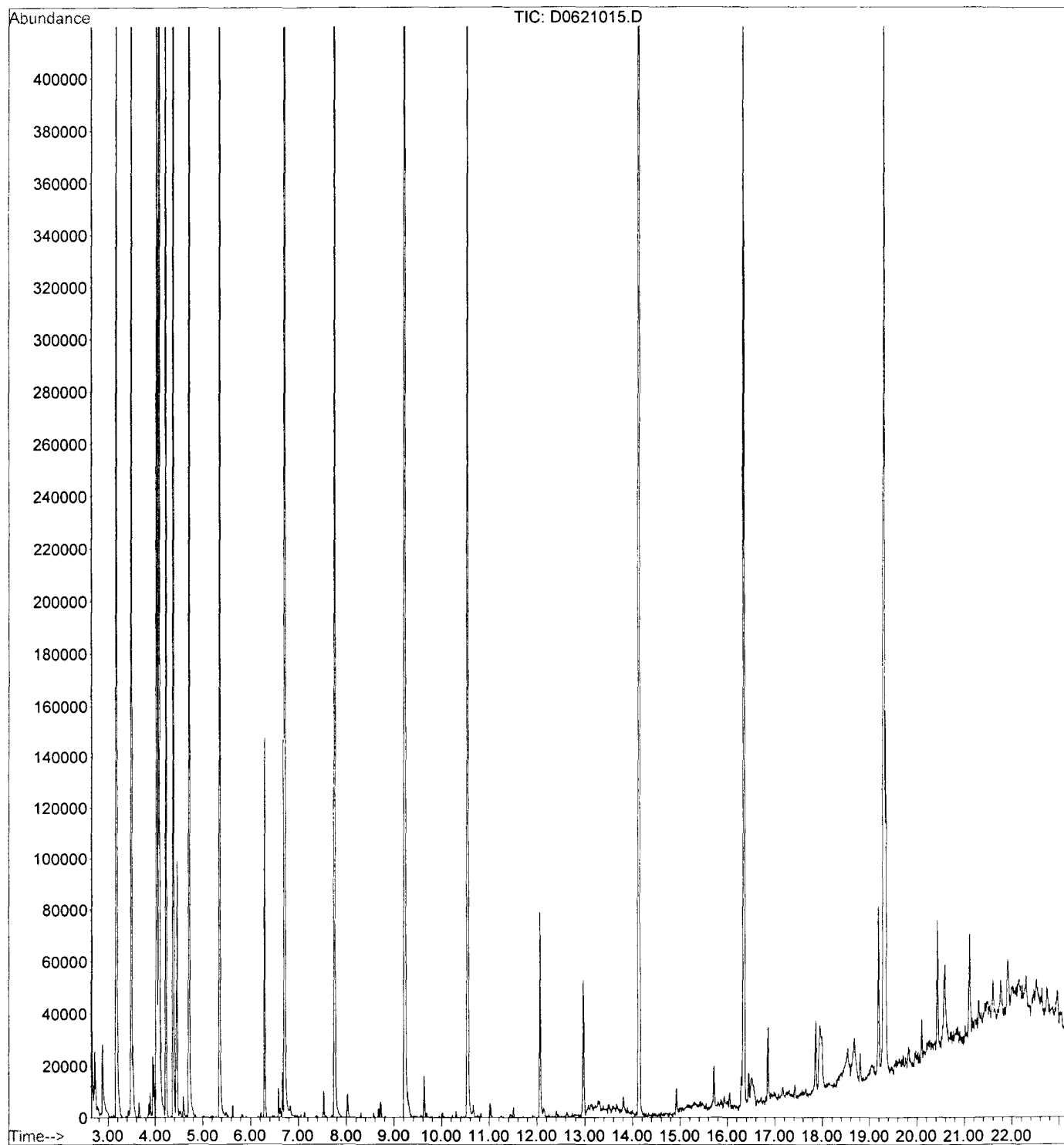
File : D:\NYACK\1NYACK\C1F090120\D0621014.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 8:05 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-004 2x soil 6/12/01 clp3.2  
Misc Info : eem5n1ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 16

BSD 8 (0-2)



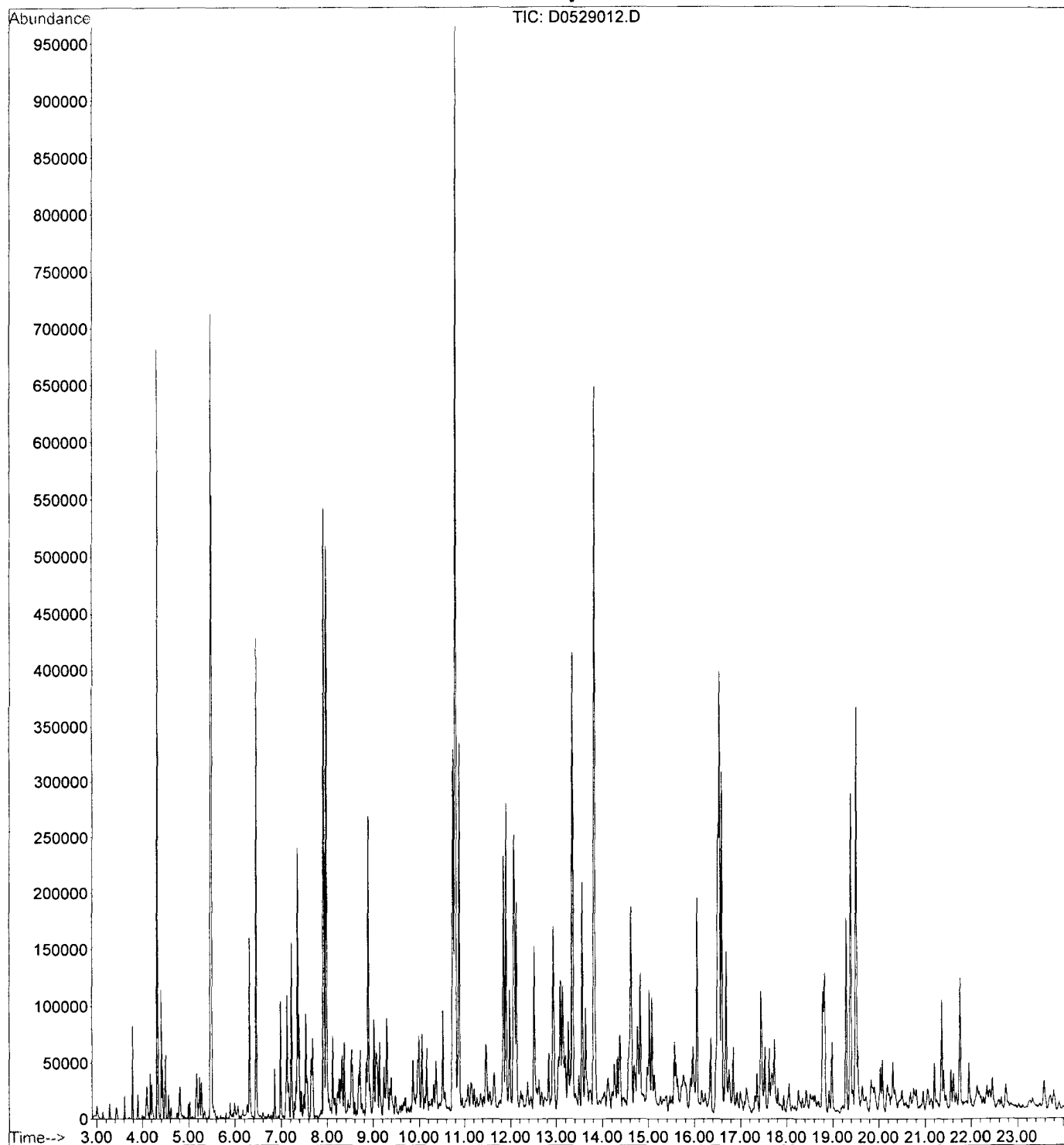
File : D:\NYACK\1NYACK\C1F090120\D0621015.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 8:34 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-005 soil 6/12/01 clp3.2  
Misc Info : eem5plad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 17

BSD 9 (0-2)



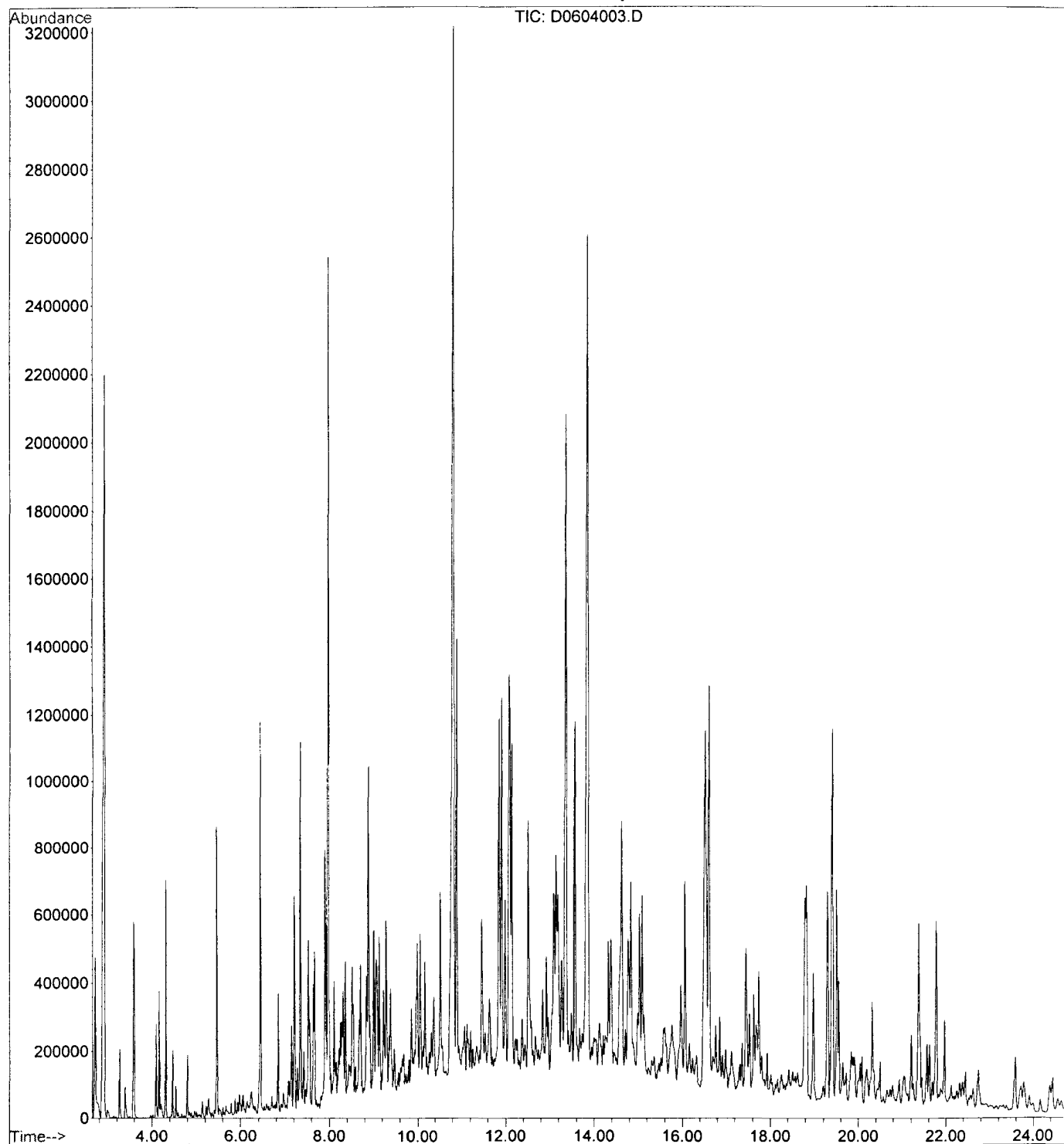
File : D:\NYACK\1NYACK\C1E180181\D0529012.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 7:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-003 20x soil 5/22/01 clp3.2  
Misc Info : edk9m1a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 14

MW10D(12.13)



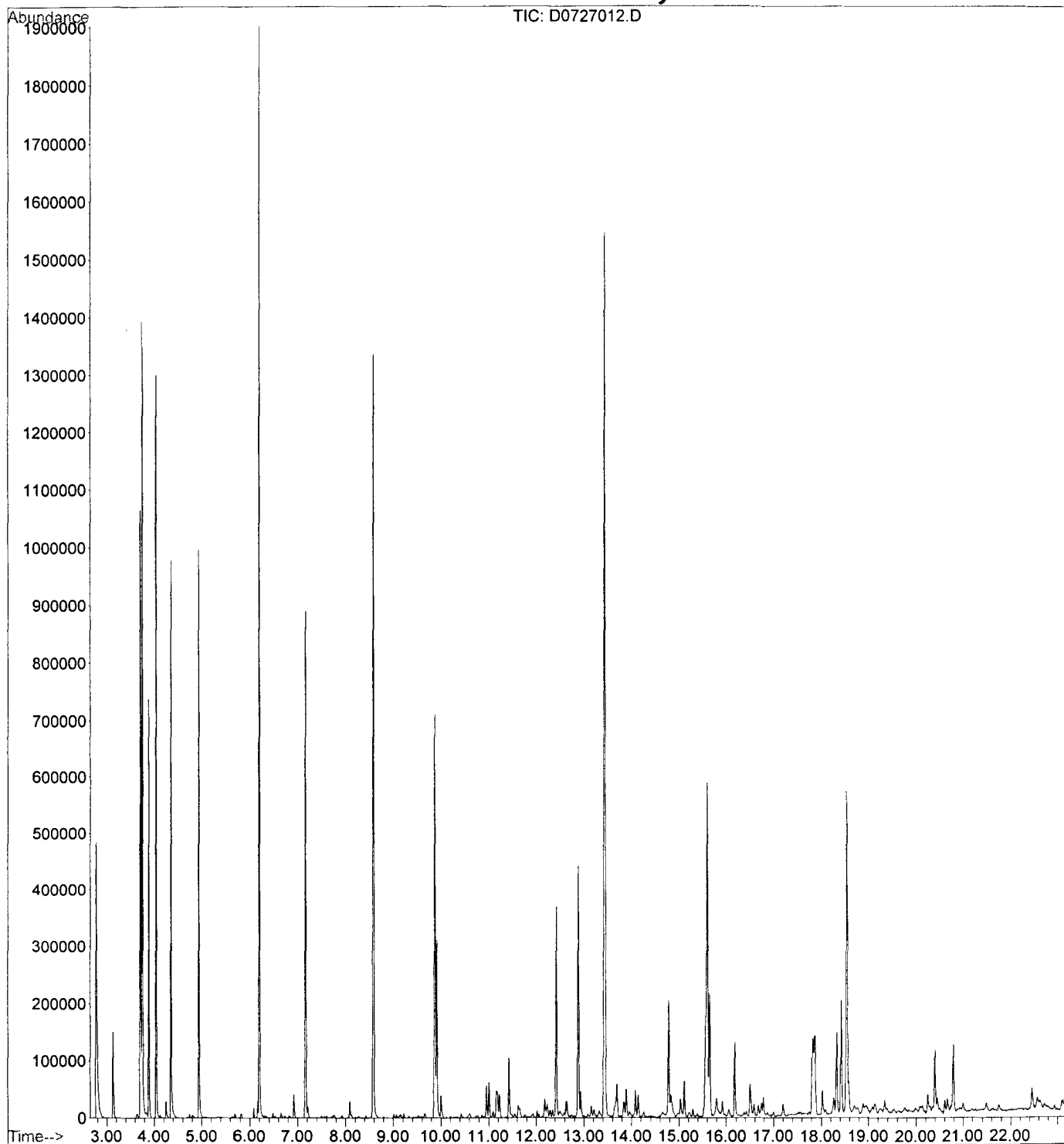
File : D:\NYACK\1NYACK\C1E230237\D0604003.D  
Operator : 001562, DLF  
Acquired : 4 Jun 2001 2:07 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e230237-001 4x soil 5/30/01 clp3.2  
Misc Info : edtk21ad,d060401p.b,clp.m,1-3.1.sub  
Vial Number: 5

mw105 (11.12)

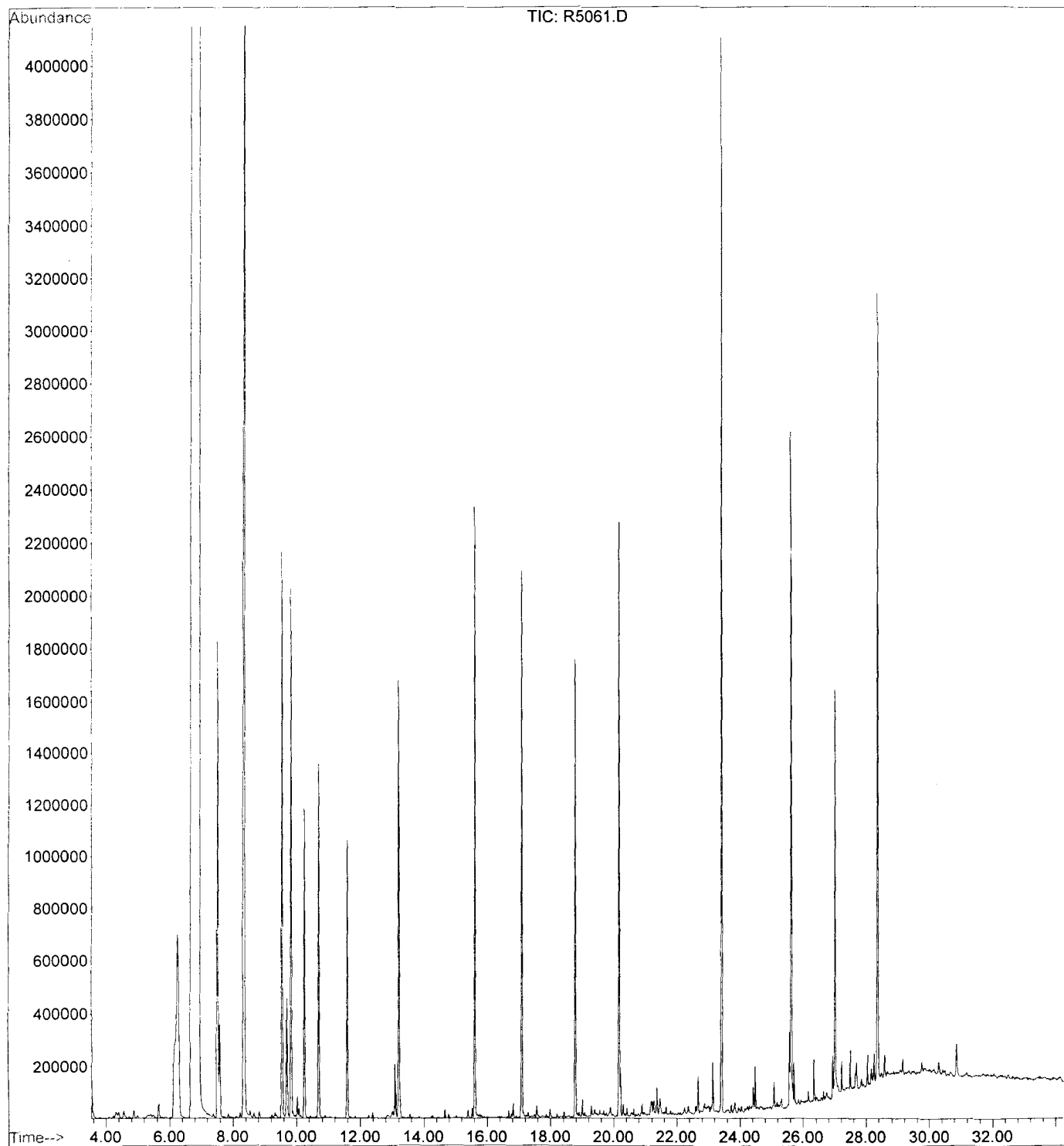


File : D:\NYACK\1NYACK\C1E250124\D0727012.D  
Operator : 001562, DLF  
Acquired : 26 Jul 2001 4:56 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: CIG170143-001 7/18/01 soil clp3.2 (NYACK8)  
Misc Info : egfte1ad,d072601p.b,clp.m,1-3.1.sub  
Vial Number: 14

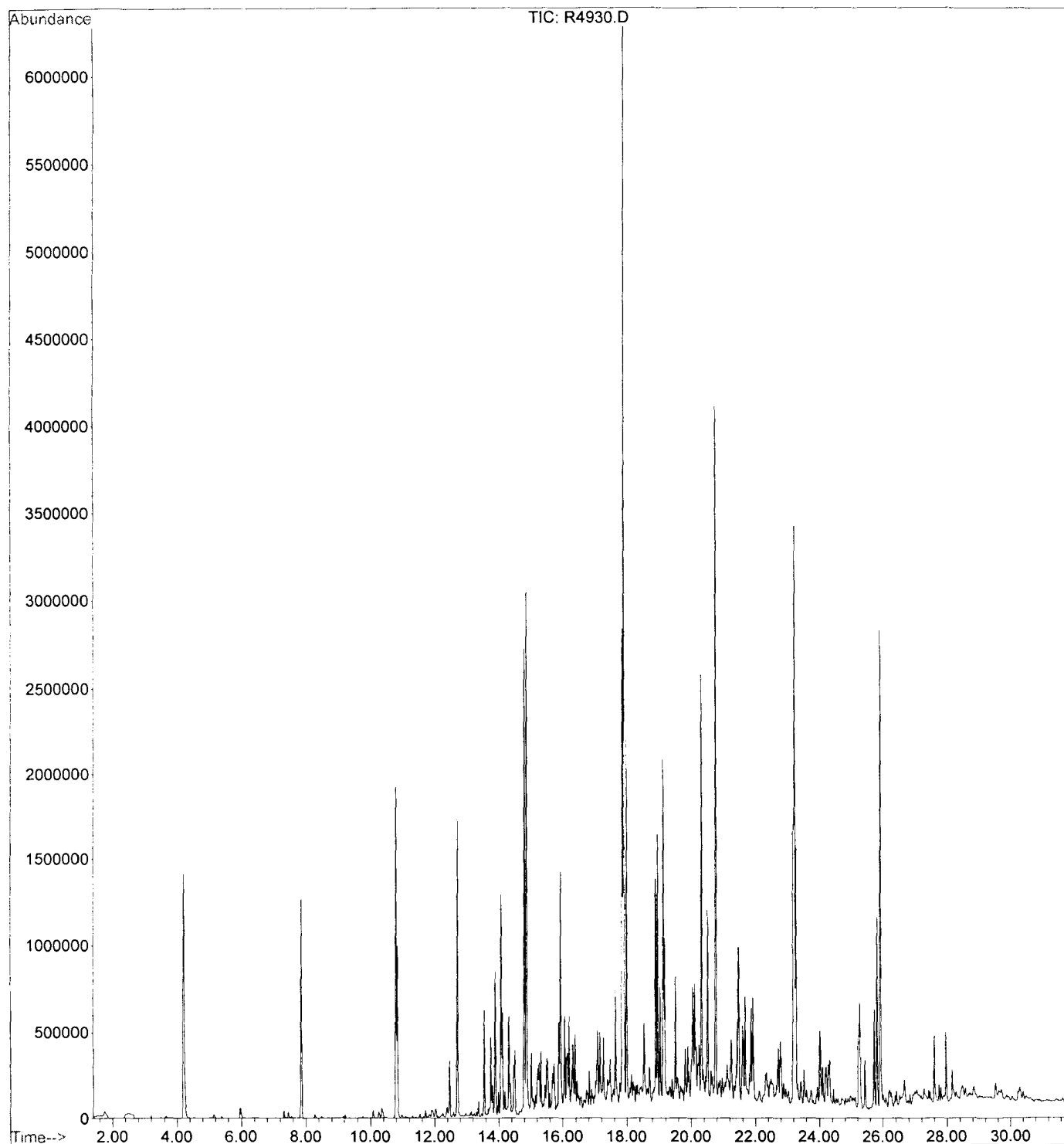
MW11-BL(10-11)



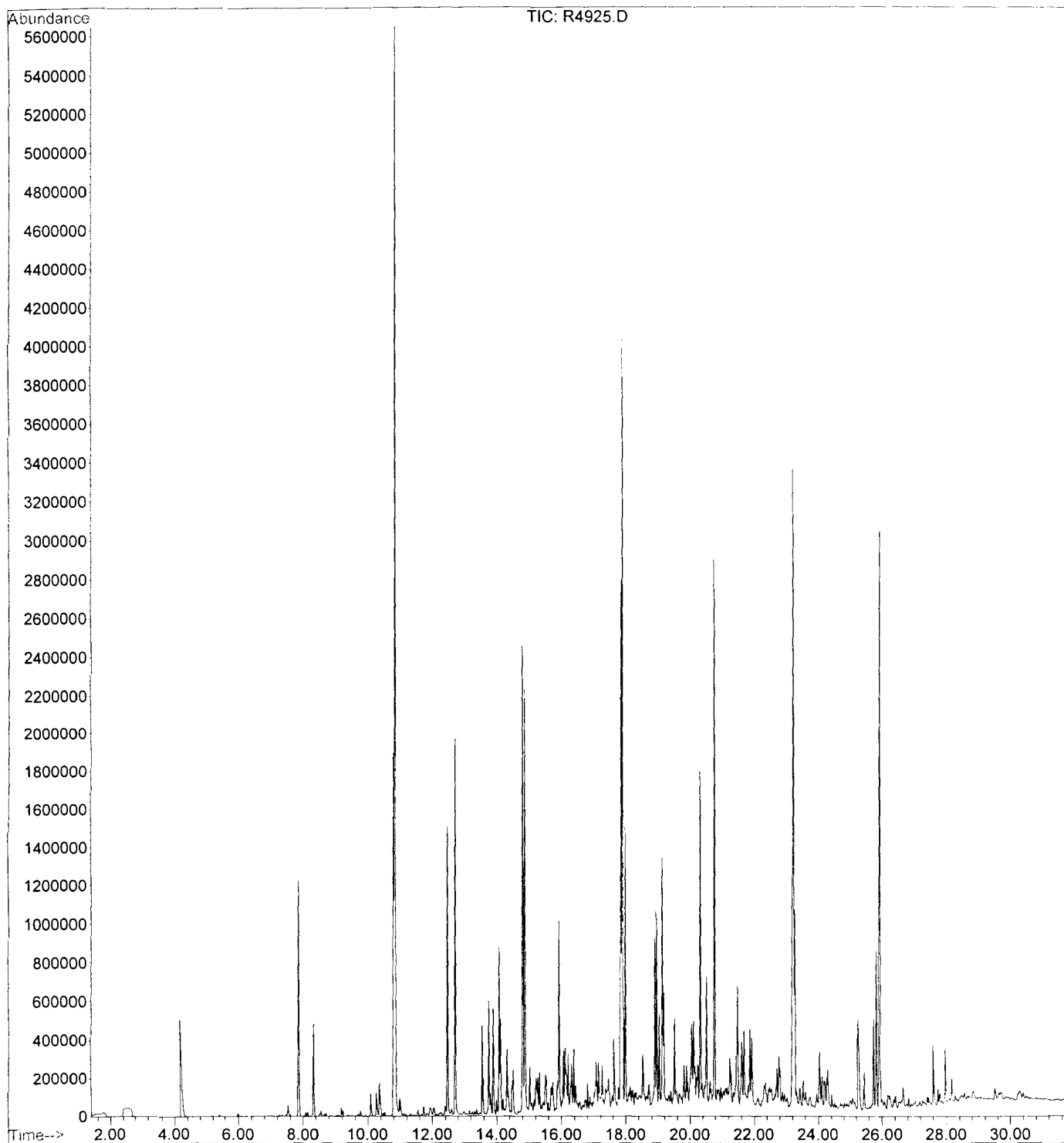
File : D:\HPCHEM\MSR\R5061.D  
Operator : J. Bennett  
Acquired : 15 Nov 1999 9:56 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414C-04  
Misc Info : MW1D (4.0-5.0) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 11



File : D:\HPCHEM\MSR\R4930.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 11:07 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-10  
Misc Info : MW2 (10.0-12.4) ; OLM ; 50 ; LLS ; R0340  
Vial Number: 10

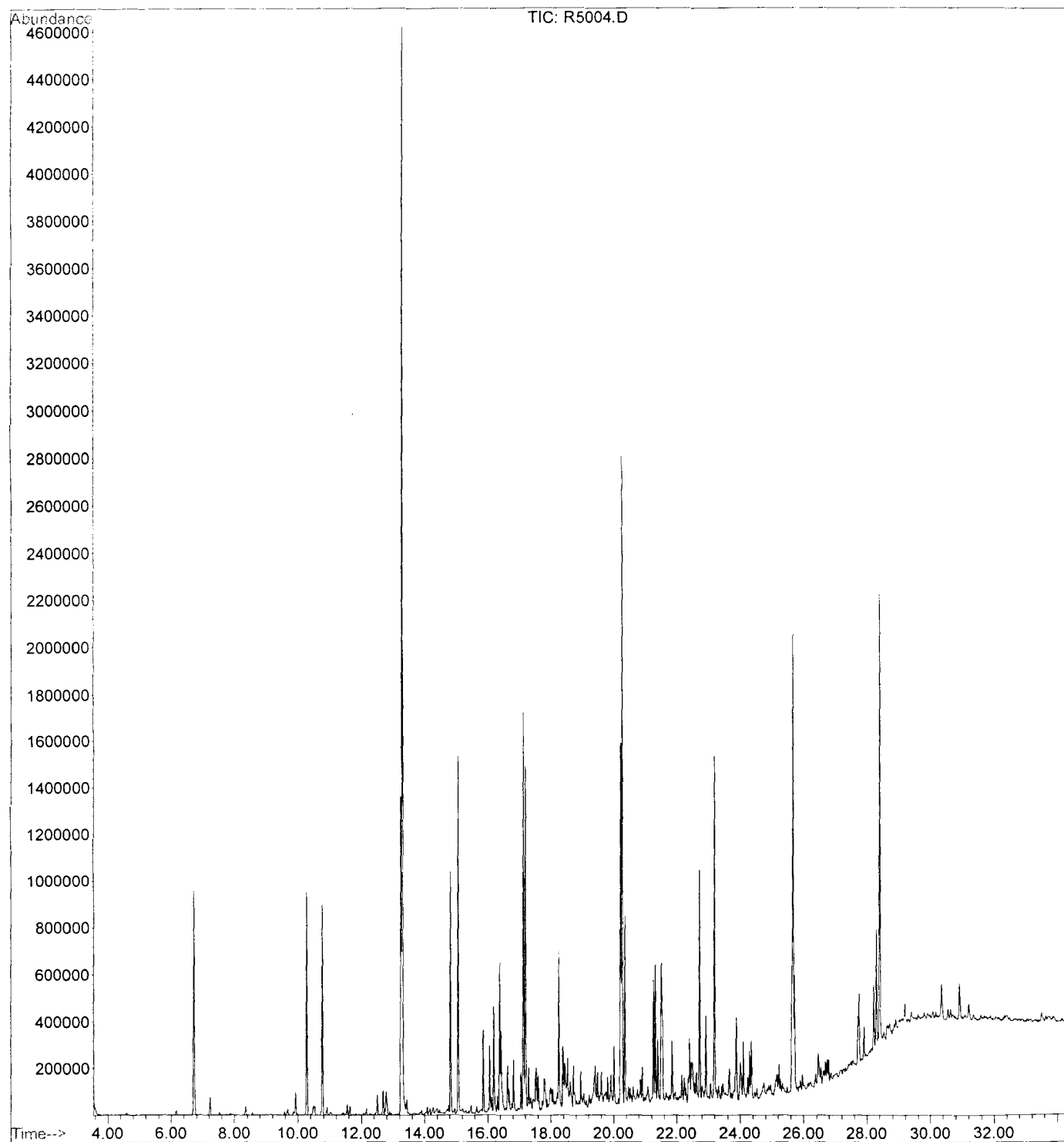


File : D:\HPCHEM\MSR\R4925.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 7:43 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-12  
Misc Info : MW3 (12.0-13.8) ; OLM ; 100 ; LLS ; R0340  
Vial Number: 5



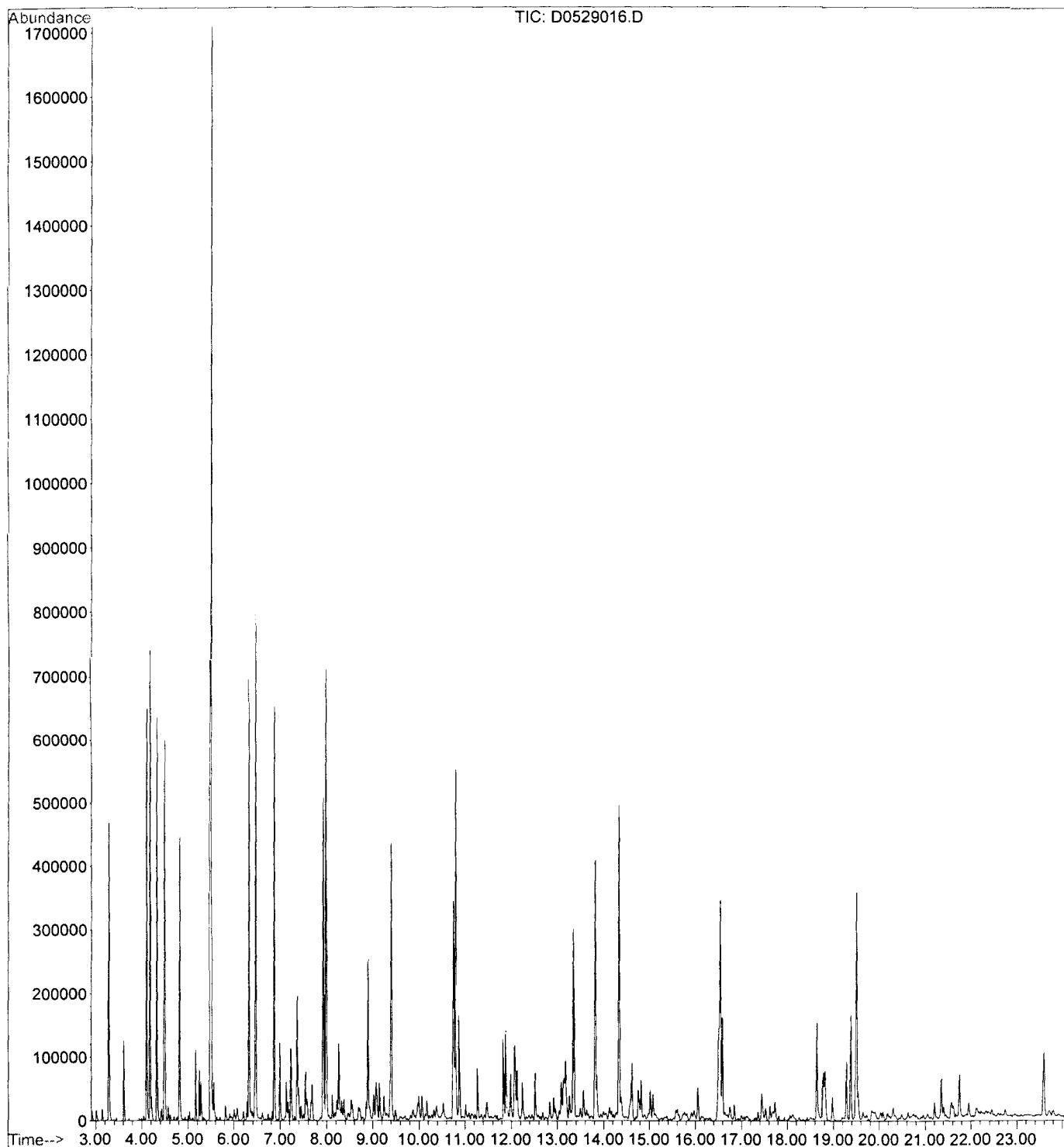


File : D:\HPCHEM\MSR\R5004.D  
Operator : J. Bennett  
Acquired : 12 Nov 1999 3:49 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992746A-01  
Misc Info : MW3D (10.0-12.0) ; OLM ; 100 ; LLS ; SOIL  
Vial Number: 4



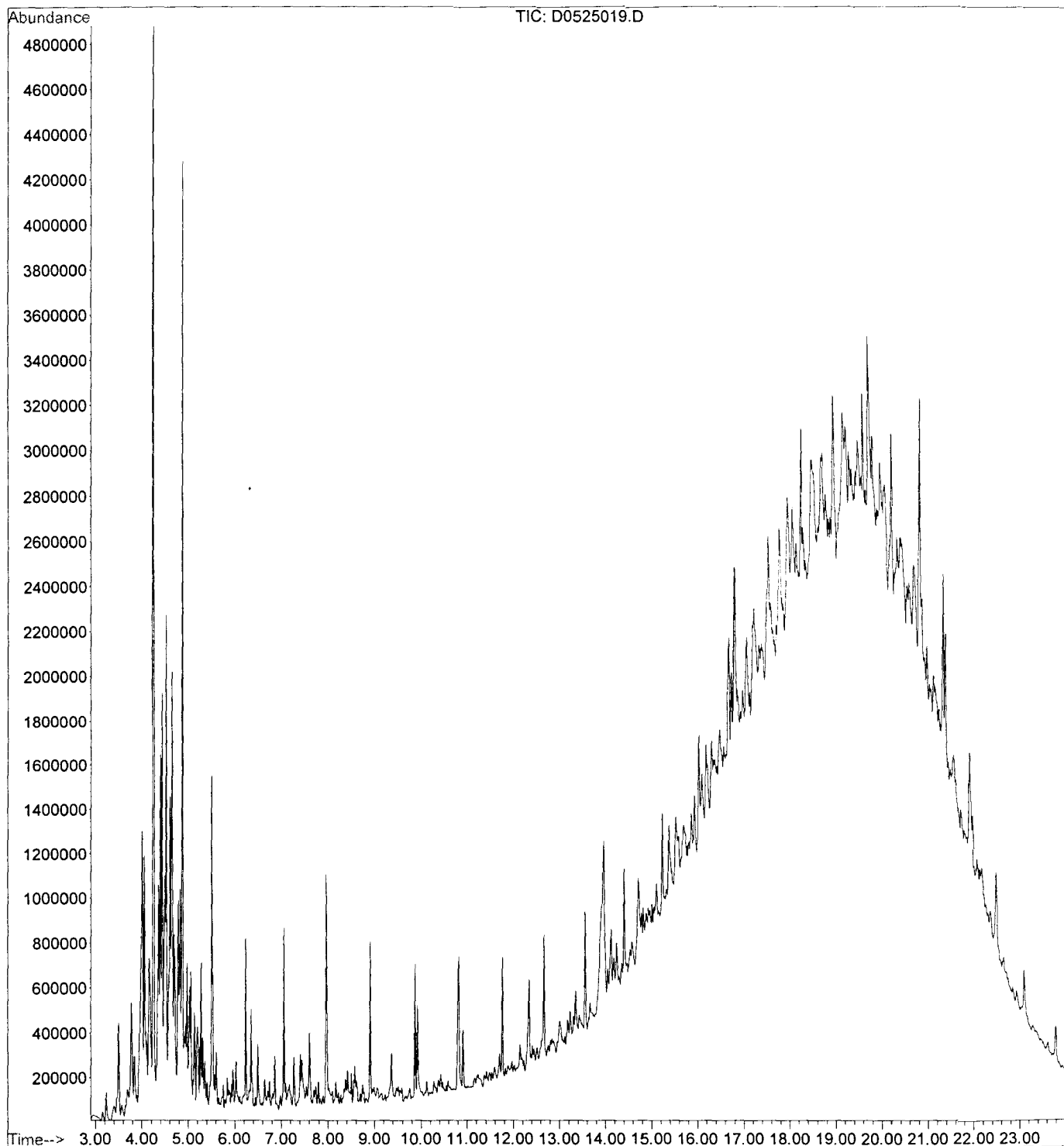
File : D:\NYACK\1NYACK\C1E180181\D0529016.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 9:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-008 2x soil 5/22/01 clp3.2  
Misc Info : edlh31a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 18

MW3S-CH (10-12)

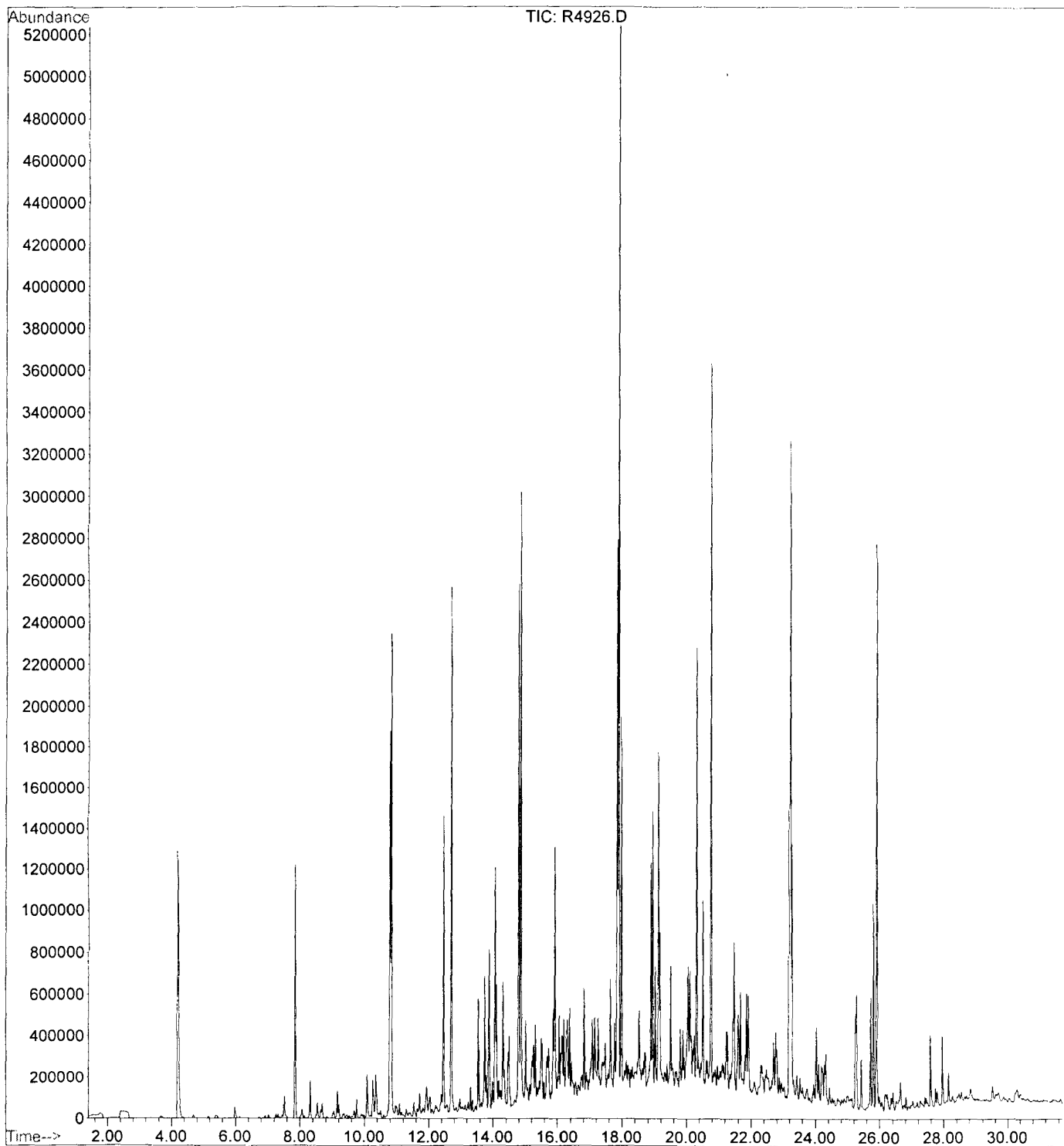


File : D:\NYACK\1NYACK\C1E180181\D0525019.D  
Operator : 001562, DLF  
Acquired : 25 May 2001 11:19 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-004 20x soil 5/22/01 clp3.2  
Misc Info : edk9n1a1,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 21

MW35-CH (17.6-18.0)

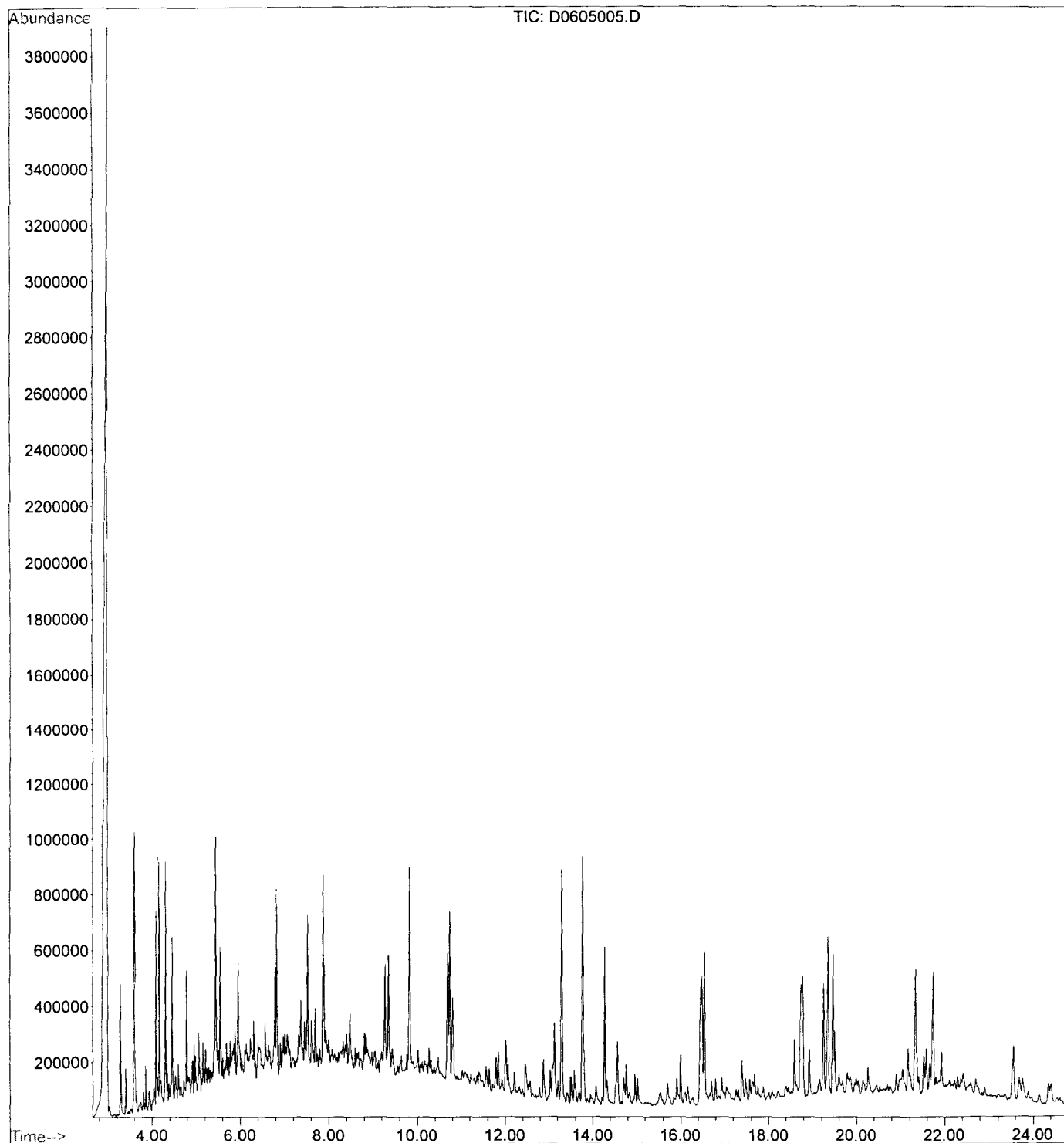


File : D:\HPCHEM\MSR\R4926.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 8:24 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992477A-03  
Misc Info : MW4 (12.0-13.1) ; OLM ; 100 ; LLS ; R0340  
Vial Number: 6

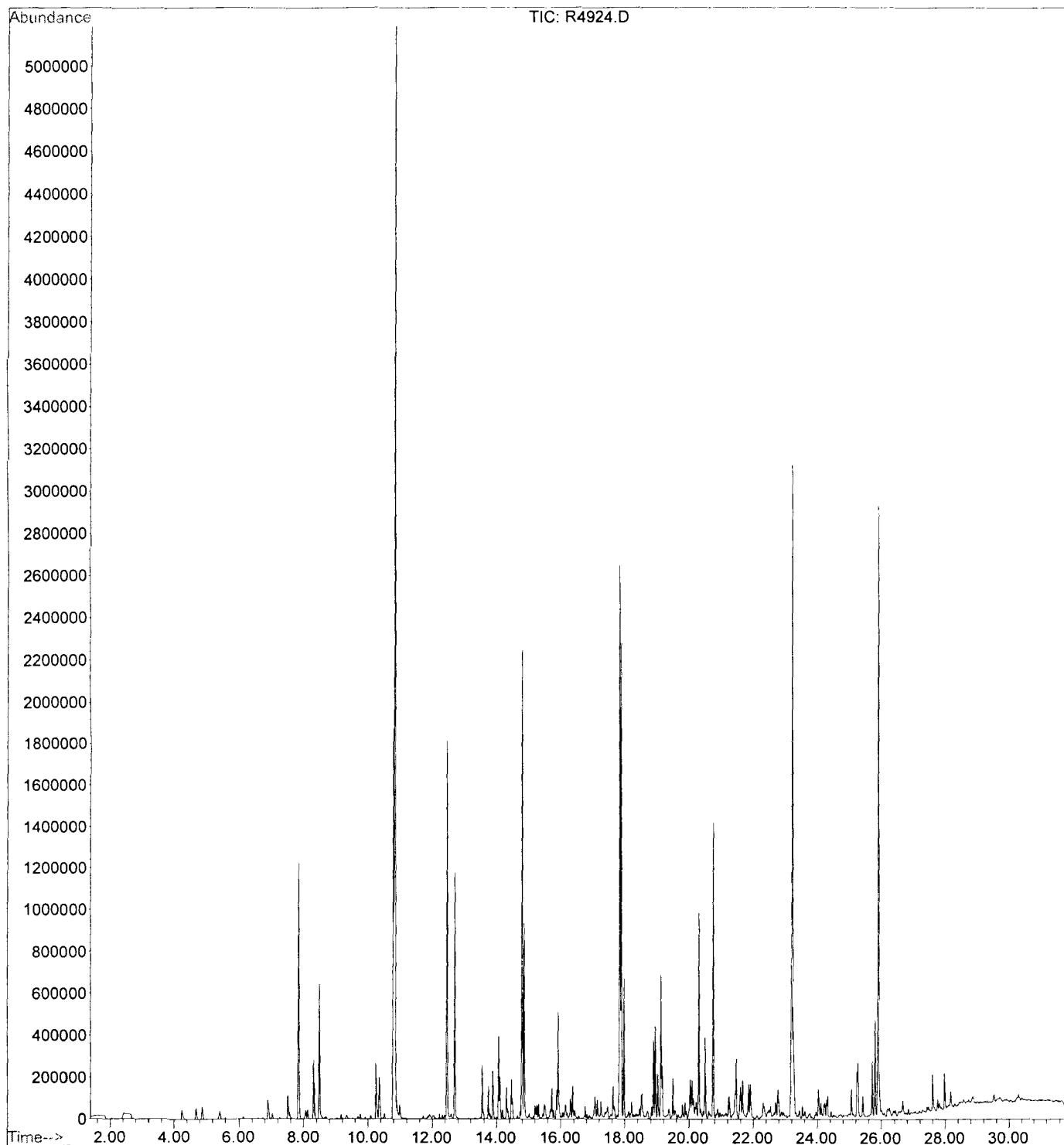


File : D:\NYACK\1NYACK\C1E250124\D0605005.D  
Operator : 001562, DLF  
Acquired : 5 Jun 2001 1:42 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e250124-001 2x soil 5/30/01 clp3.2  
Misc Info : edx811ad,d060501p.b,clp.m,1-3.1.sub  
Vial Number: 7

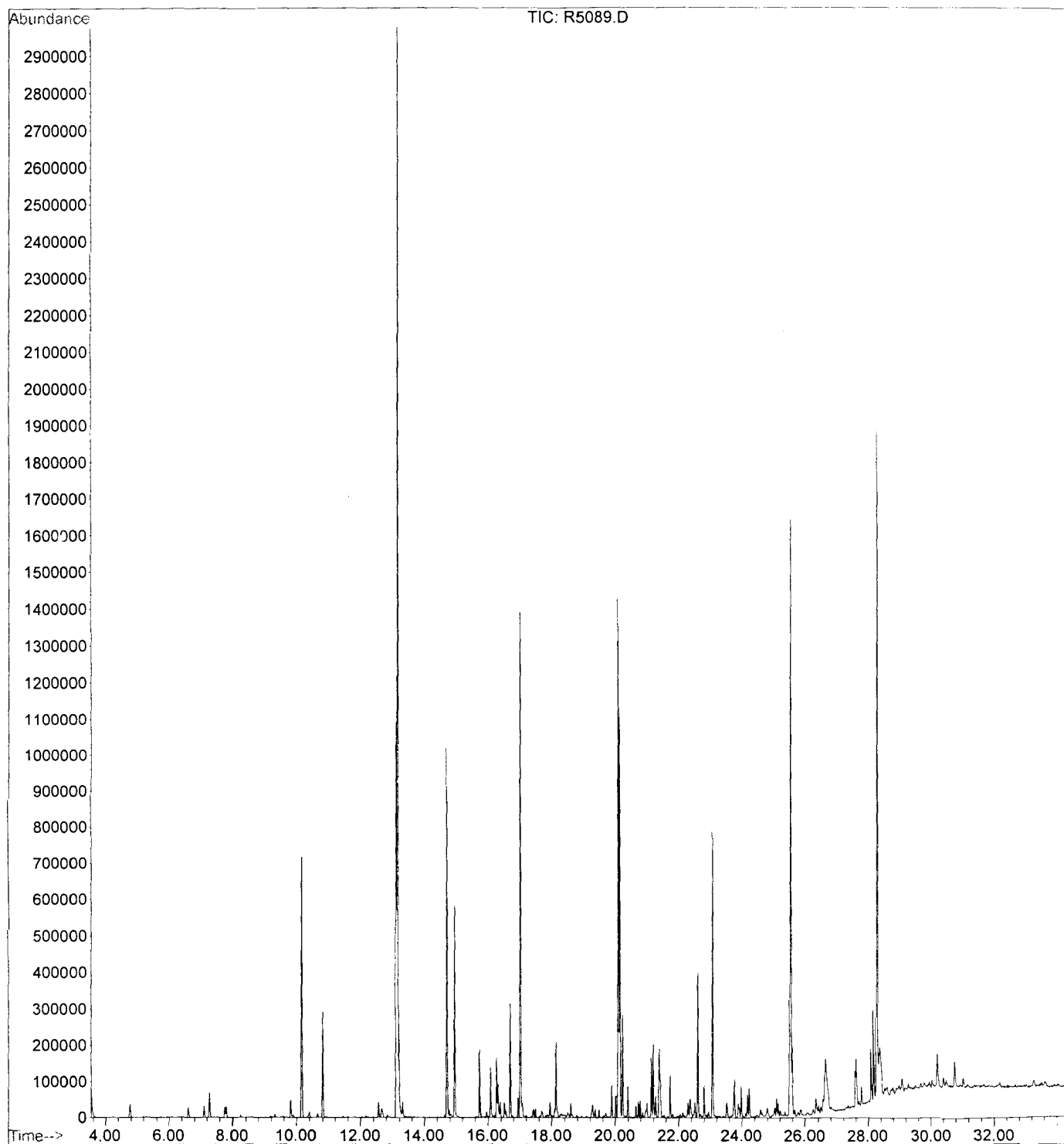
MW4-CH (6-8)



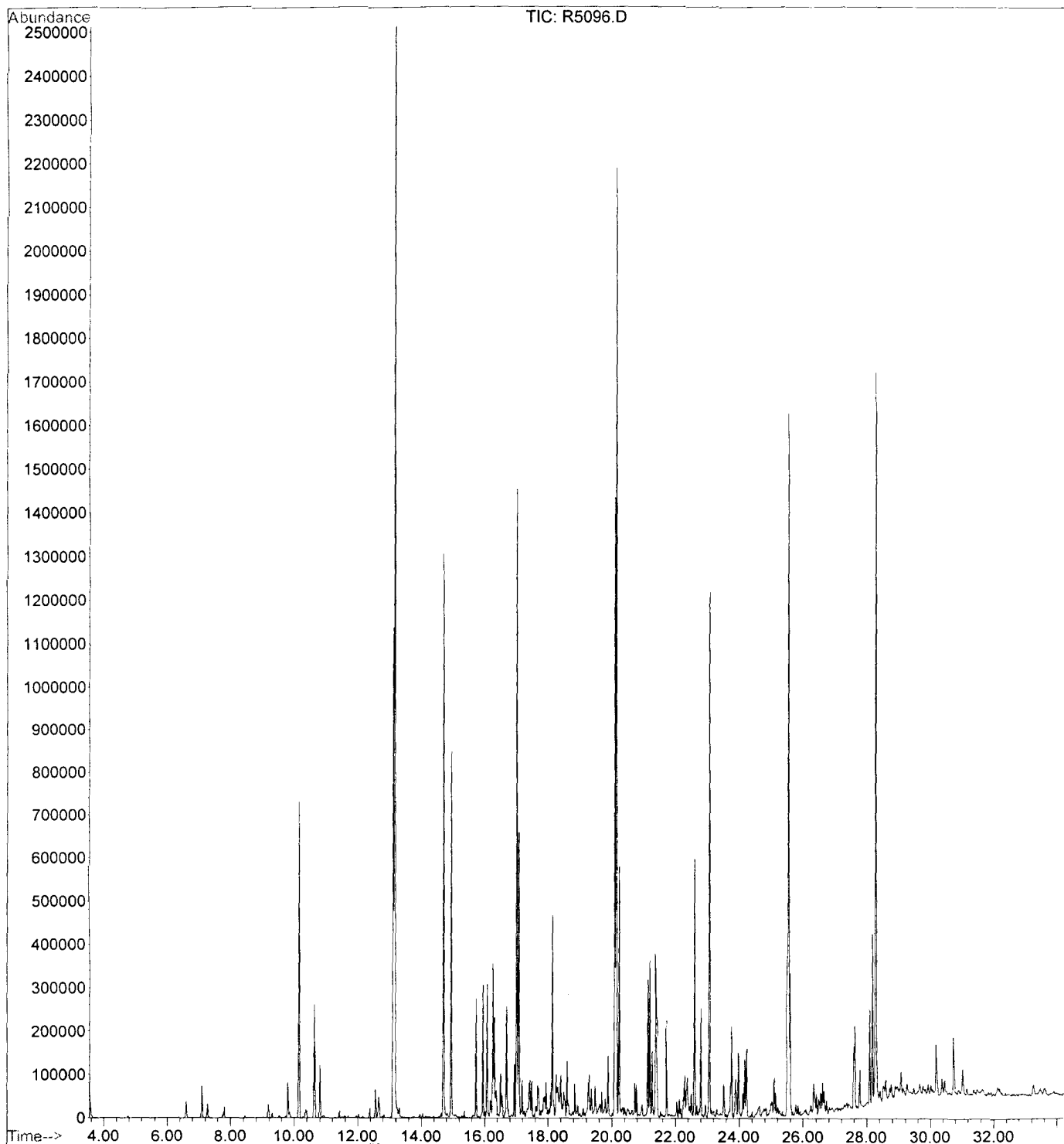
File : D:\HPCHEM\MSR\R4924.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 7:02 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-11  
Misc Info : MW5 (14.0-16.0) ; OLM ; 1000 ; LLS ; R0340  
Vial Number: 4



File : D:\HPCHEM\MSR\R5089.D  
Operator : J. Bennett  
Acquired : 17 Nov 1999 8:27 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992797A-01  
Misc Info : MW5D (2.0-4.0) ; OLM ; 1000 ; LLS ; SOIL  
Vial Number: 1

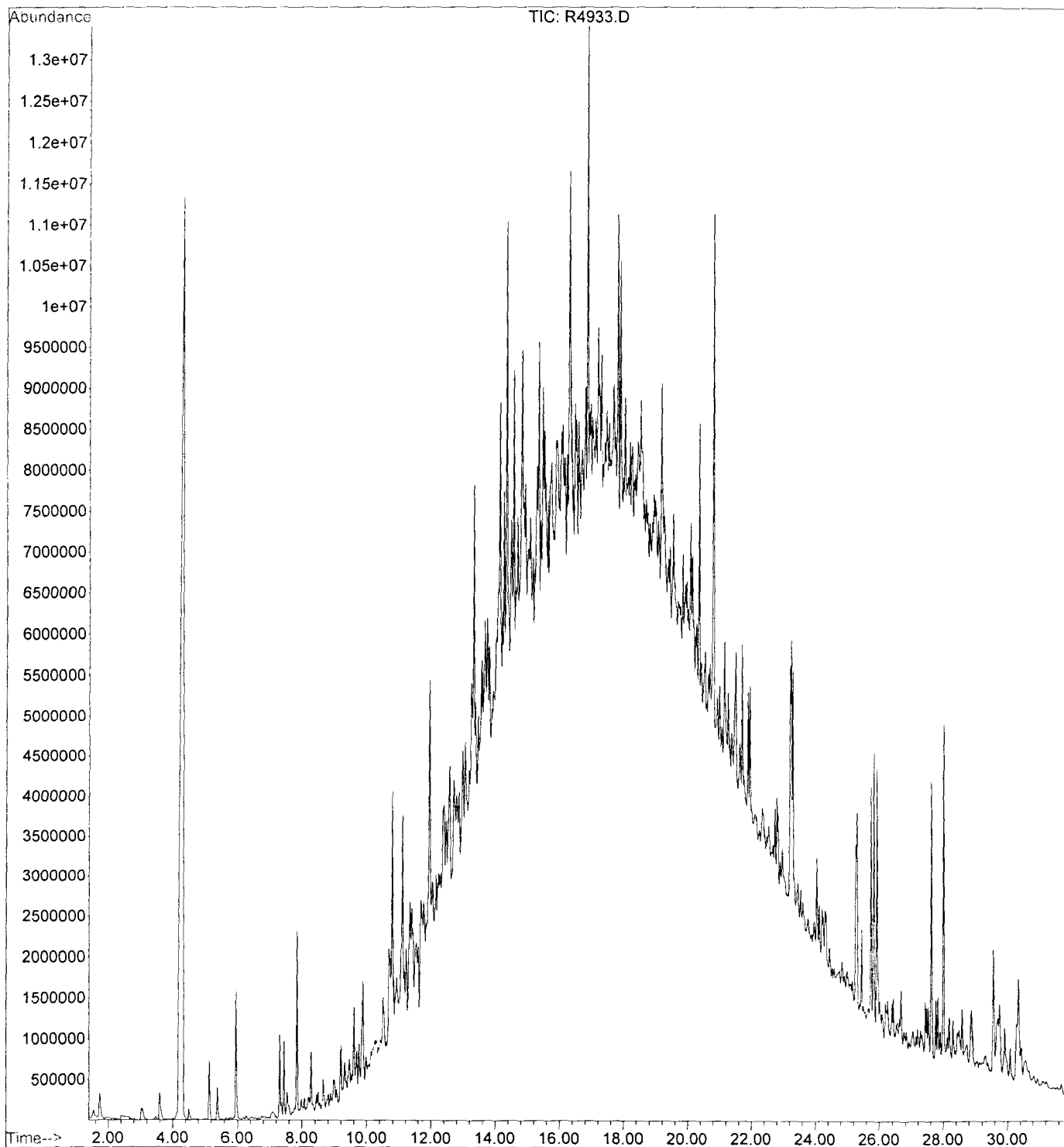


File : D:\HPCHEM\MSR\R5096.D  
Operator : J. Bennett  
Acquired : 17 Nov 1999 1:34 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414C-02  
Misc Info : MW6D (4.0-6.0) ; OLM ; 400 ; LLS ; SOIL  
Vial Number: 8

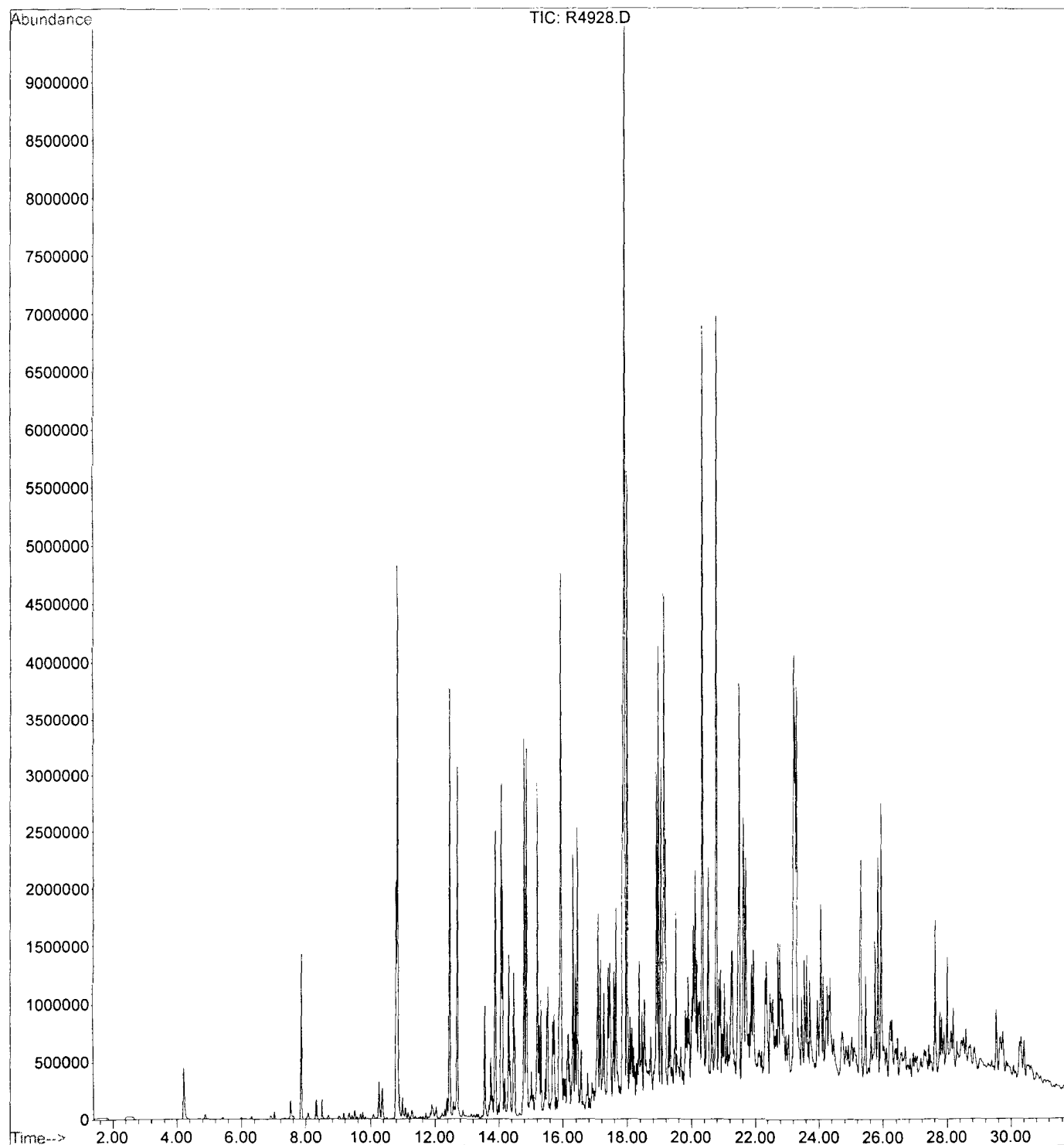




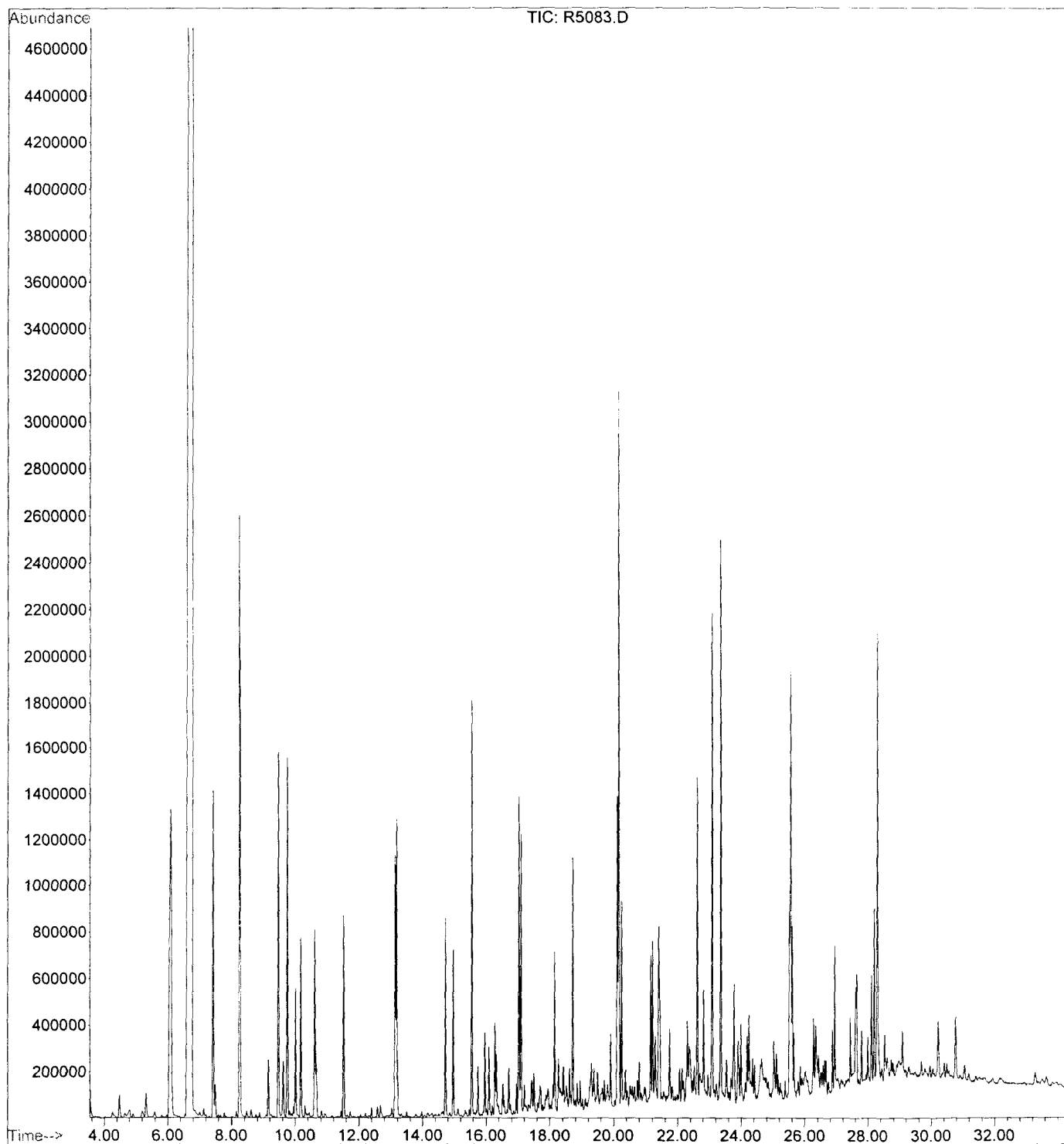
File : D:\HPCHEM\MSR\R4933.D  
Operator : J. Bennett  
Acquired : 4 Nov 1999 1:10 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-14  
Misc Info : MW6IO (4.0-6.0) ; OLM ; 5; LLS ; R0340  
Vial Number: 13



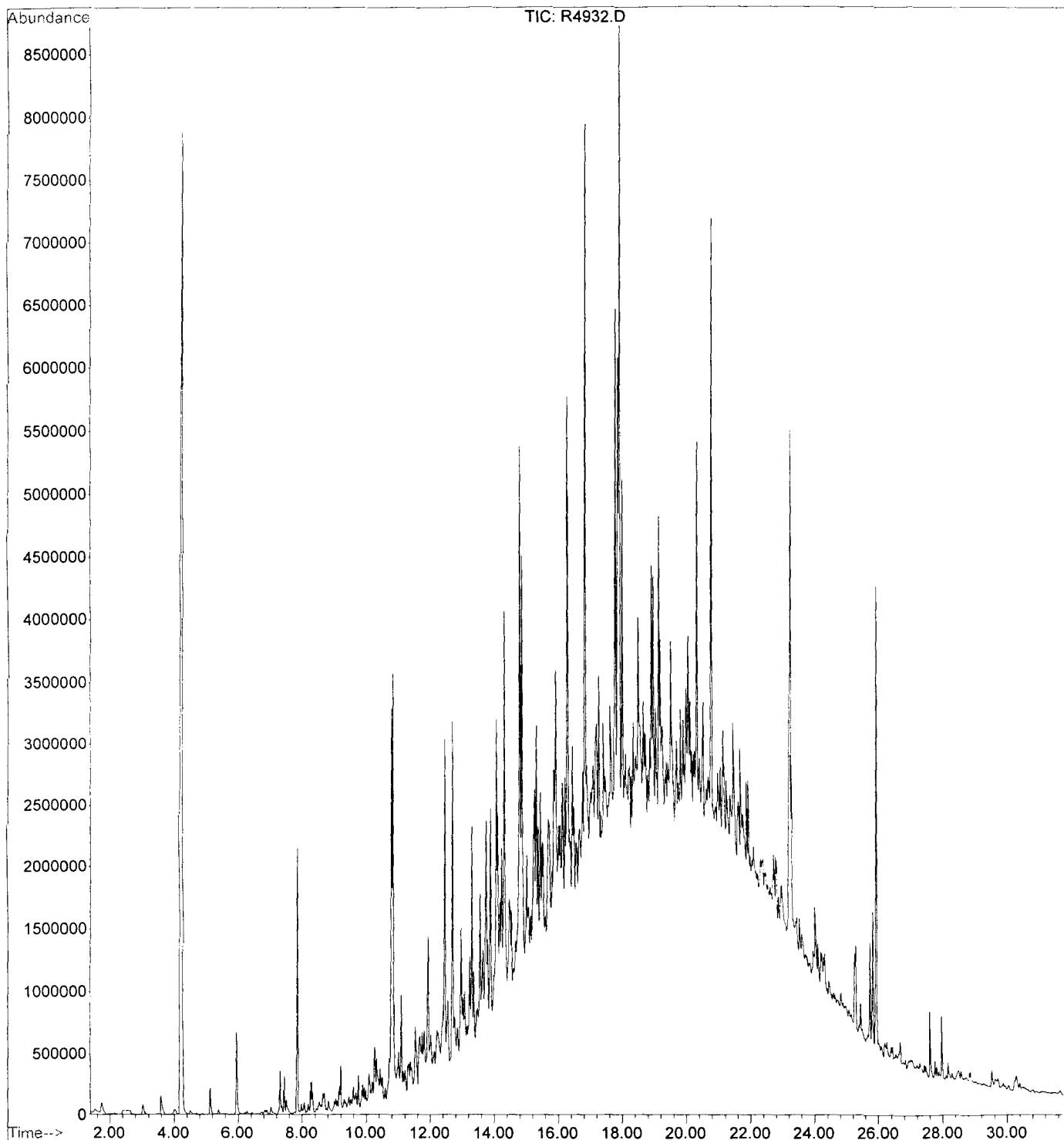
File : D:\HPCHEM\MSR\R4928.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 9:46 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-09  
Misc Info : MW7 (10-12) ; OLM ; 100 ; LLS ; R0340  
Vial Number: 8



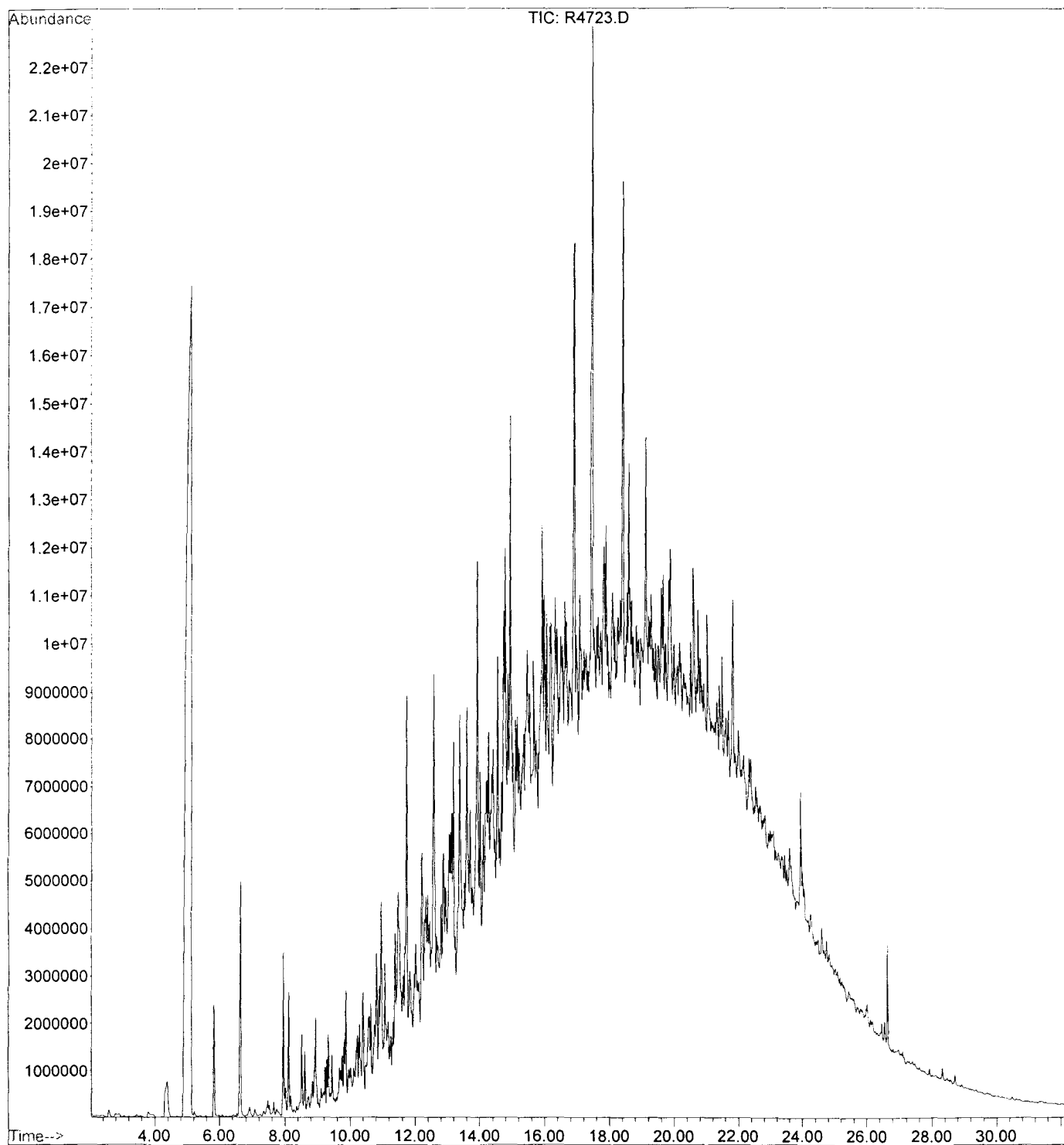
File : D:\HPCHEM\MSR\R5083.D  
Operator : J. Bennett  
Acquired : 16 Nov 1999 10:49 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414C-01  
Misc Info : MW7D (14.0-16.0) ; OLM ; 1; LLS ; SOIL  
Vial Number: 13



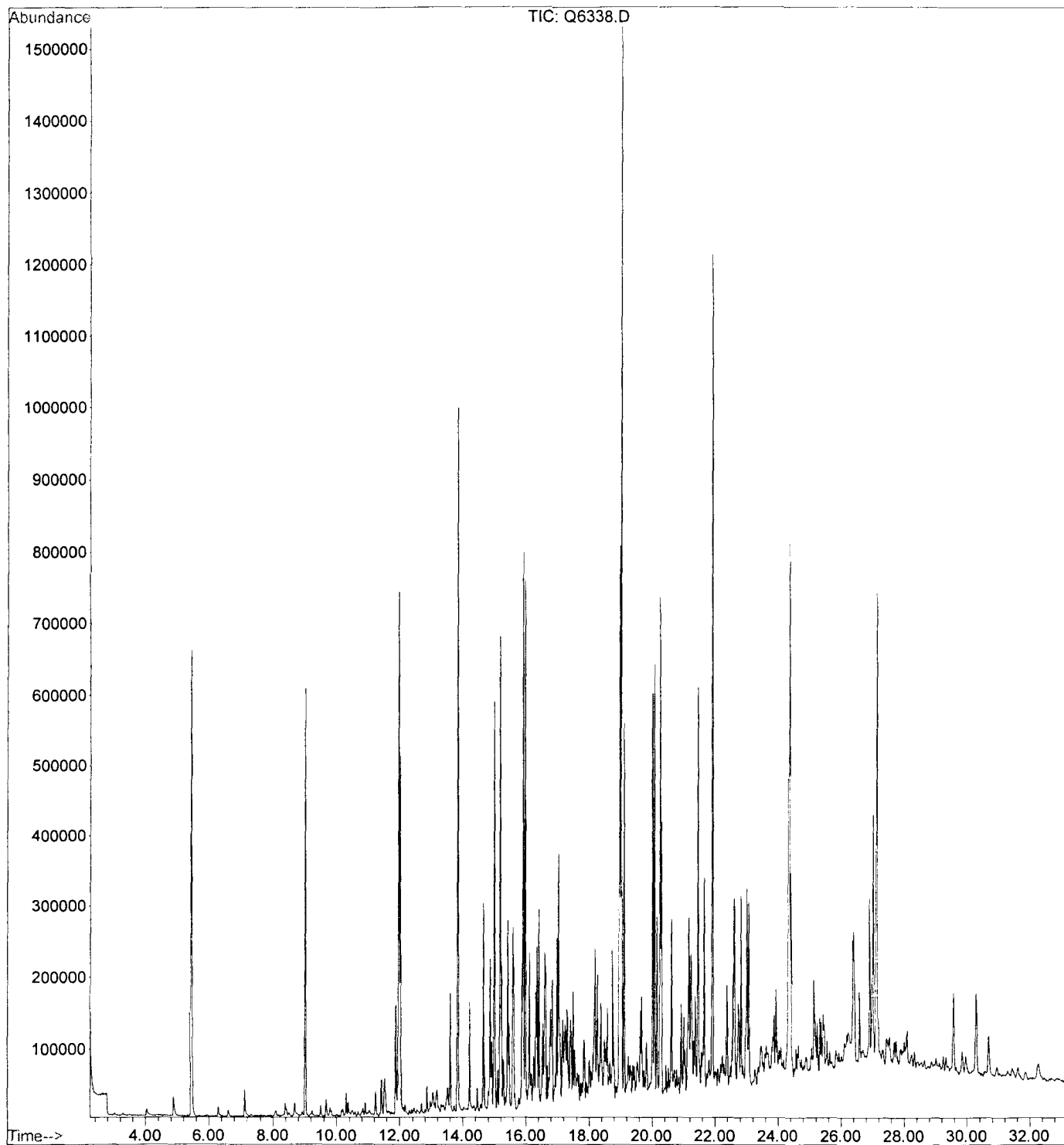
File : D:\HPCHEM\MSR\R4932.D  
Operator : J. Bennett  
Acquired : 4 Nov 1999 12:28 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-15  
Misc Info : MW8D (10.0-11.3) ; OLM ; 10 ; LLS ; R0340  
Vial Number: 12



File : D:\HPCHEM\MSR\R4723.D  
Operator : C.LOMBARDI  
Acquired : 20 Oct 1999 6:46 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-16  
Misc Info : SB1 (10-12) ; OLM ; 1 ; LLS ; R0323  
Vial Number: 14

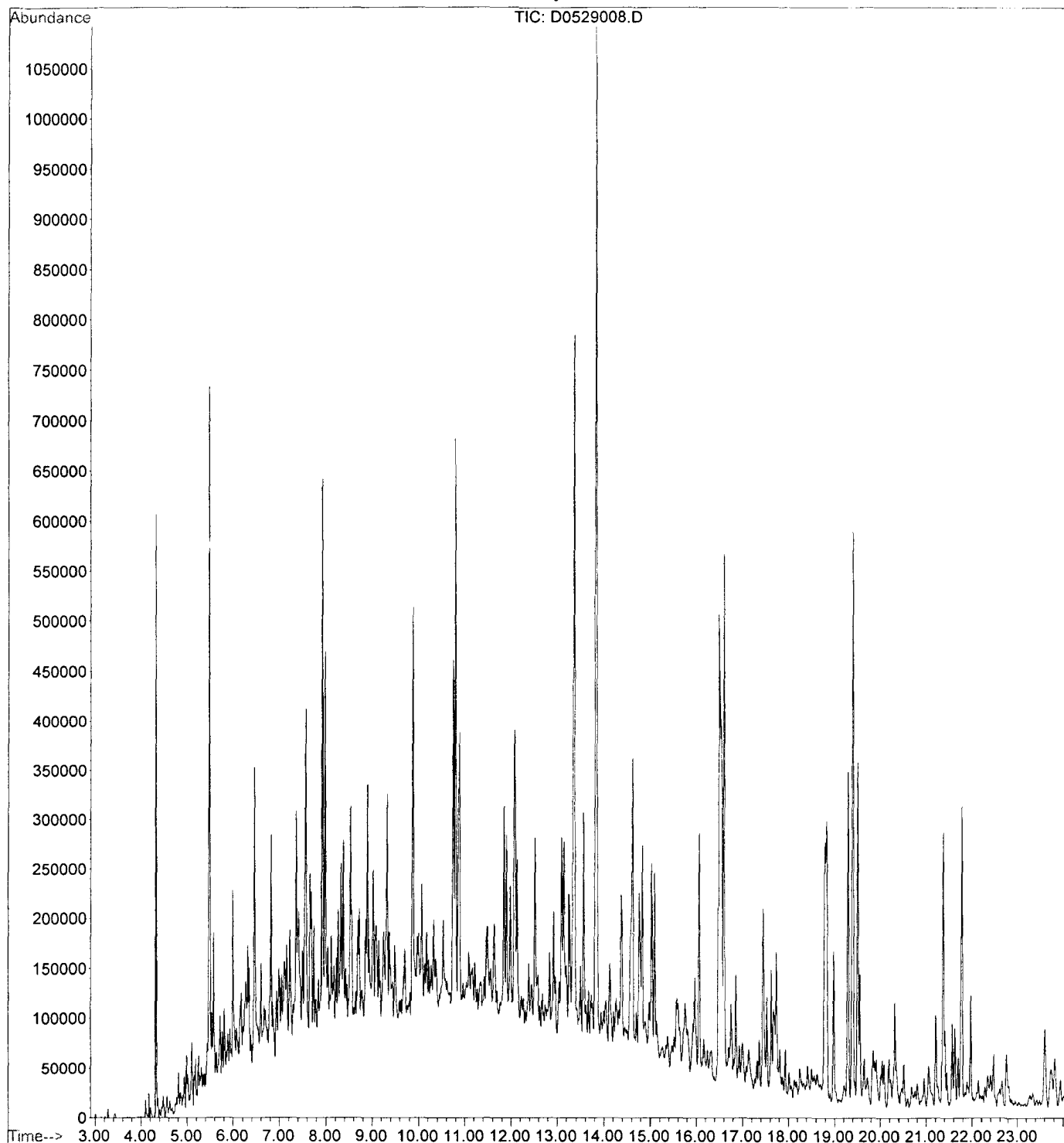


File : D:\HPCHEM\MSQ\Q6338.D  
Operator : C.LOMBARDI  
Acquired : 24 Nov 1999 9:03 pm using AcqMethod MSQSOC  
Instrument : HP5971Q  
Sample Name: 992973A-02  
Misc Info : SB11 (4.0-6.0) ; SWC ; 100 ; LLS ; Q0407  
Vial Number: 9



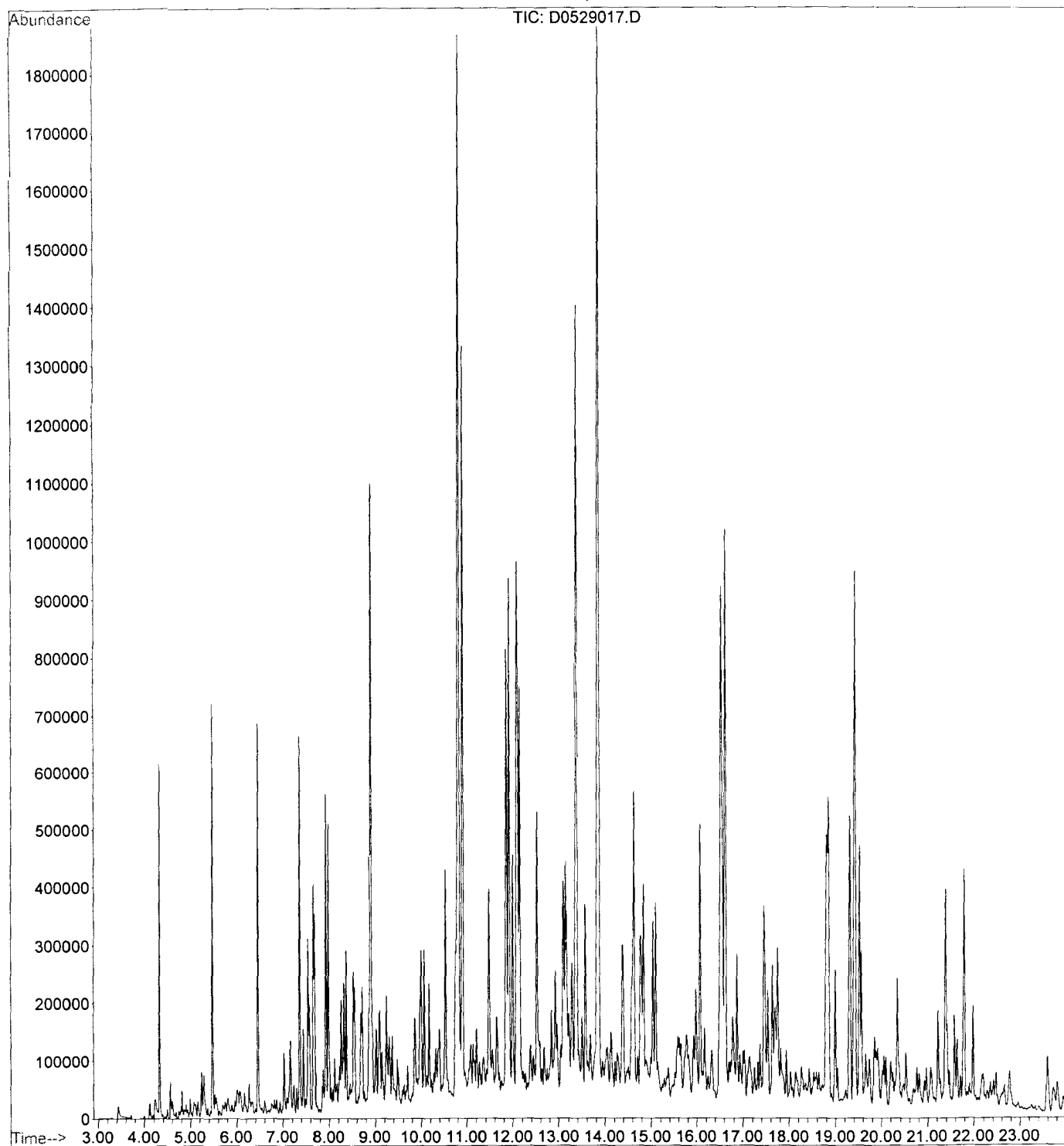
File : D:\NYACK\1NYACK\C1E190109\D0529008.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 5:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e190109-002 50x soil 5/22/01 clp3.2  
Misc Info : edmkxlag,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 10

SB13 (8-10)



File : D:\NYACK\1NYACK\C1E180181\D0529017.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 9:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-009 100x soil 5/22/01 clp3.2  
Misc Info : edlh51a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 19

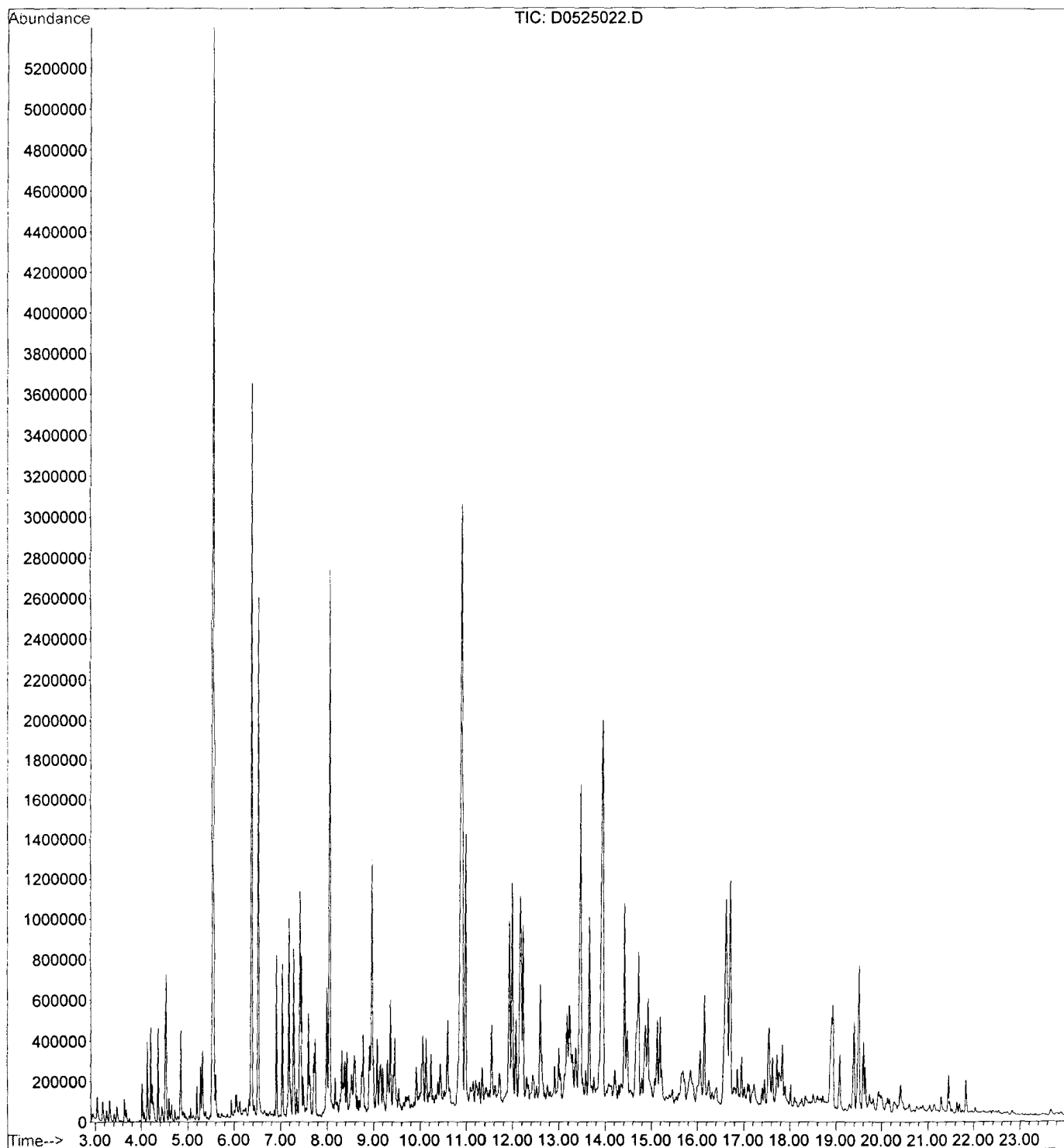
SB14(8-12)





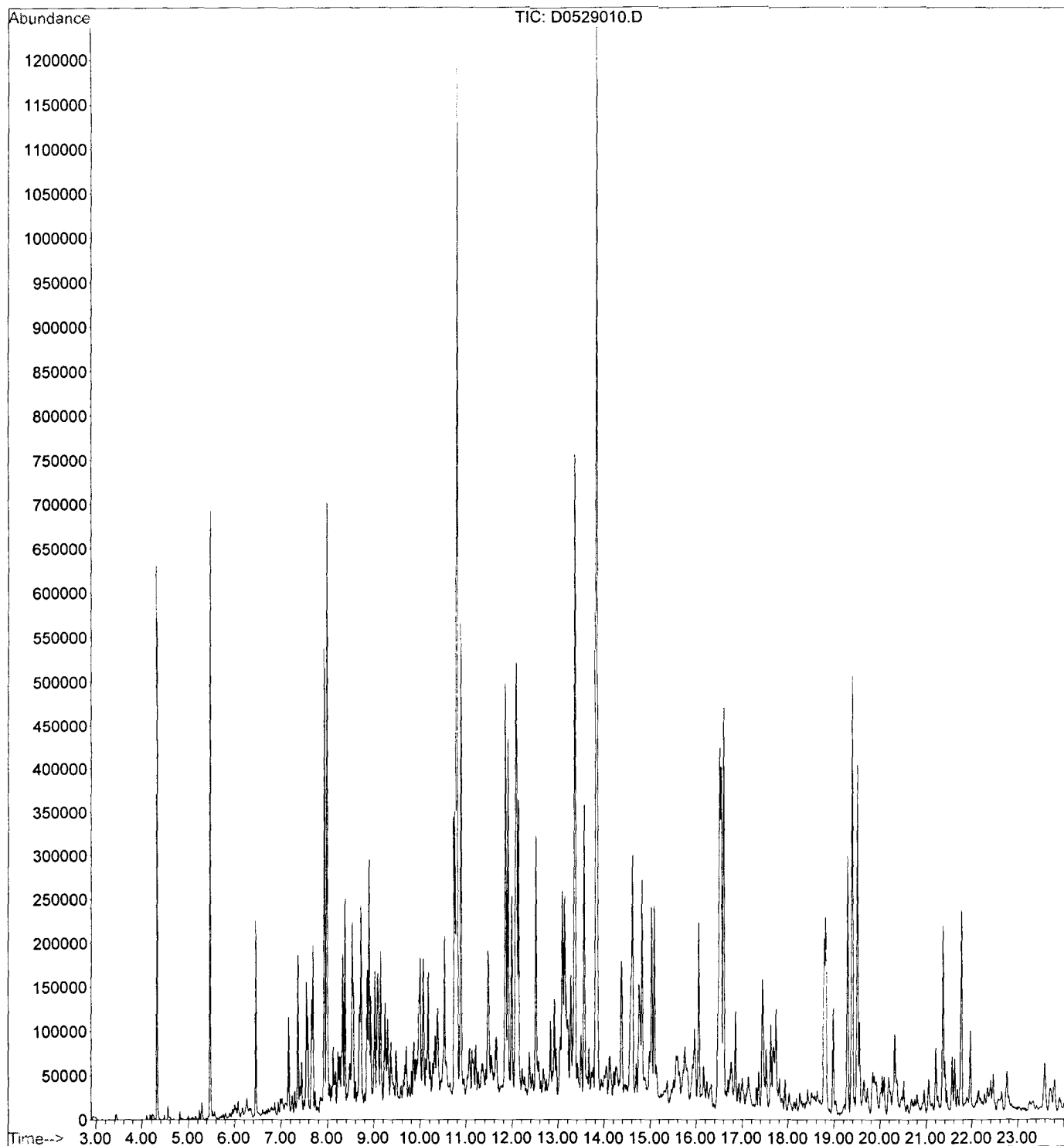
File : D:\NYACK\1NYACK\C1E180181\D0525022.D  
Operator : 001562, DLF  
Acquired : 26 May 2001 12:49 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-006 soil 5/22/01 clp3.2  
Misc Info : edlge1a1,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 24

SB15 (12-15.2)



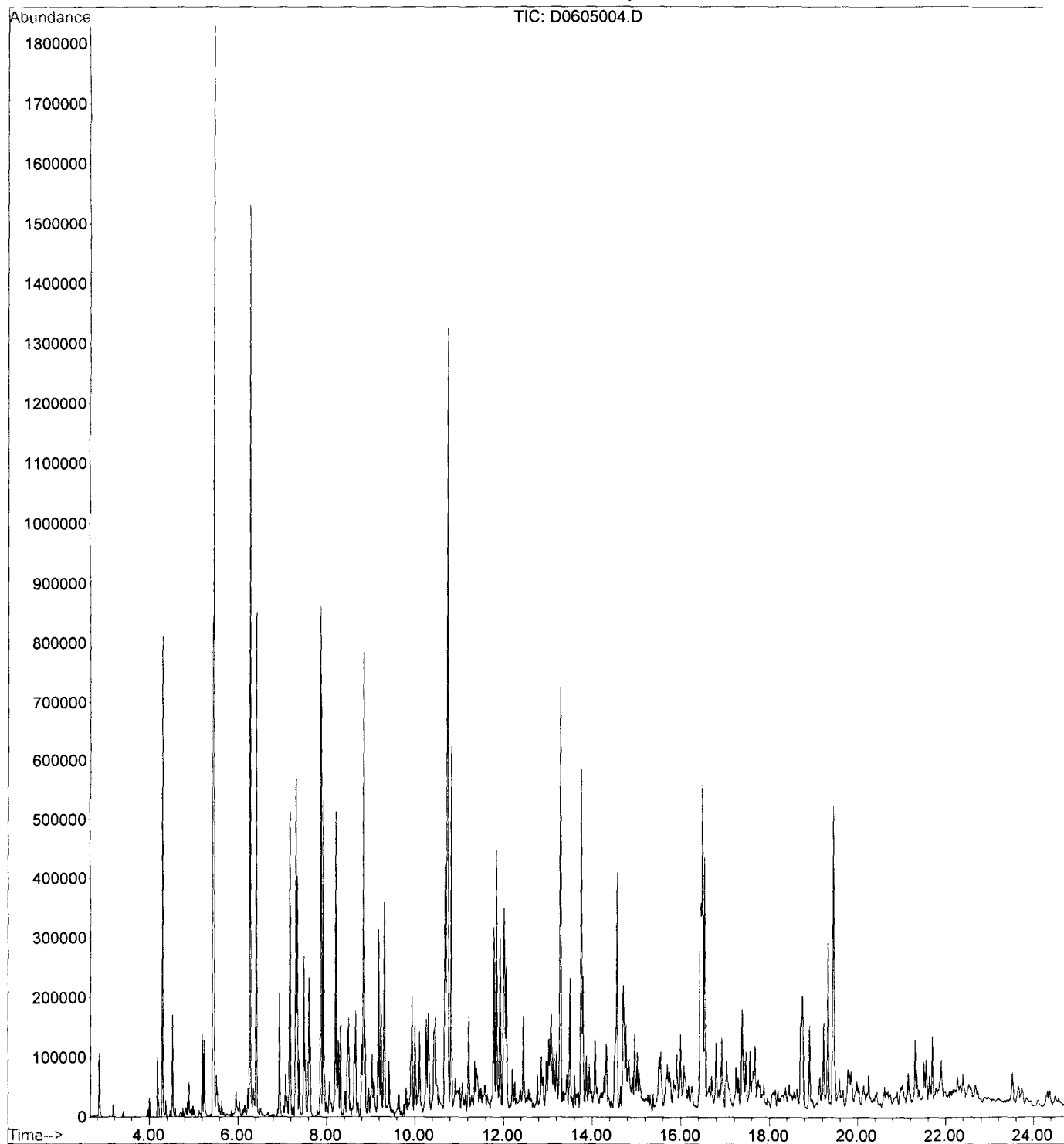
File : D:\NYACK\1NYACK\C1E190109\D0529010.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 6:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e190109-004 100x soil 5/22/01 clp3.2  
Misc Info : edmk11ag,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 12

SB16 (8-16)



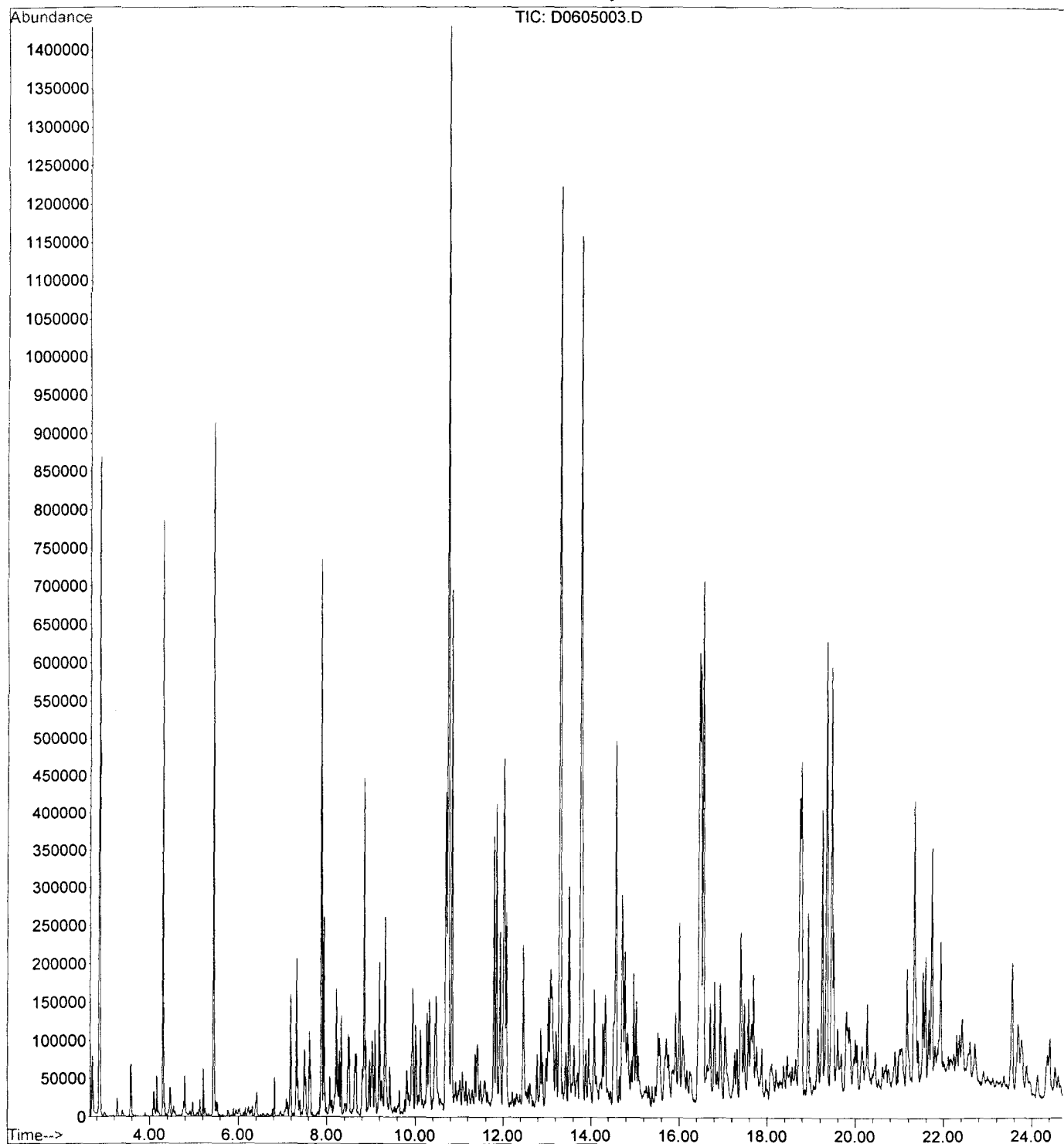
File : D:\NYACK\1NYACK\C1E230237\D0605004.D  
Operator : 001562, DLF  
Acquired : 5 Jun 2001 1:12 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e230237-003 200x(2ml) soil 5/30/01 clp3.2  
Misc Info : edtlalal,d060501p.b,clp.m,1-3.1.sub  
Vial Number: 6

SB17 (10-12)



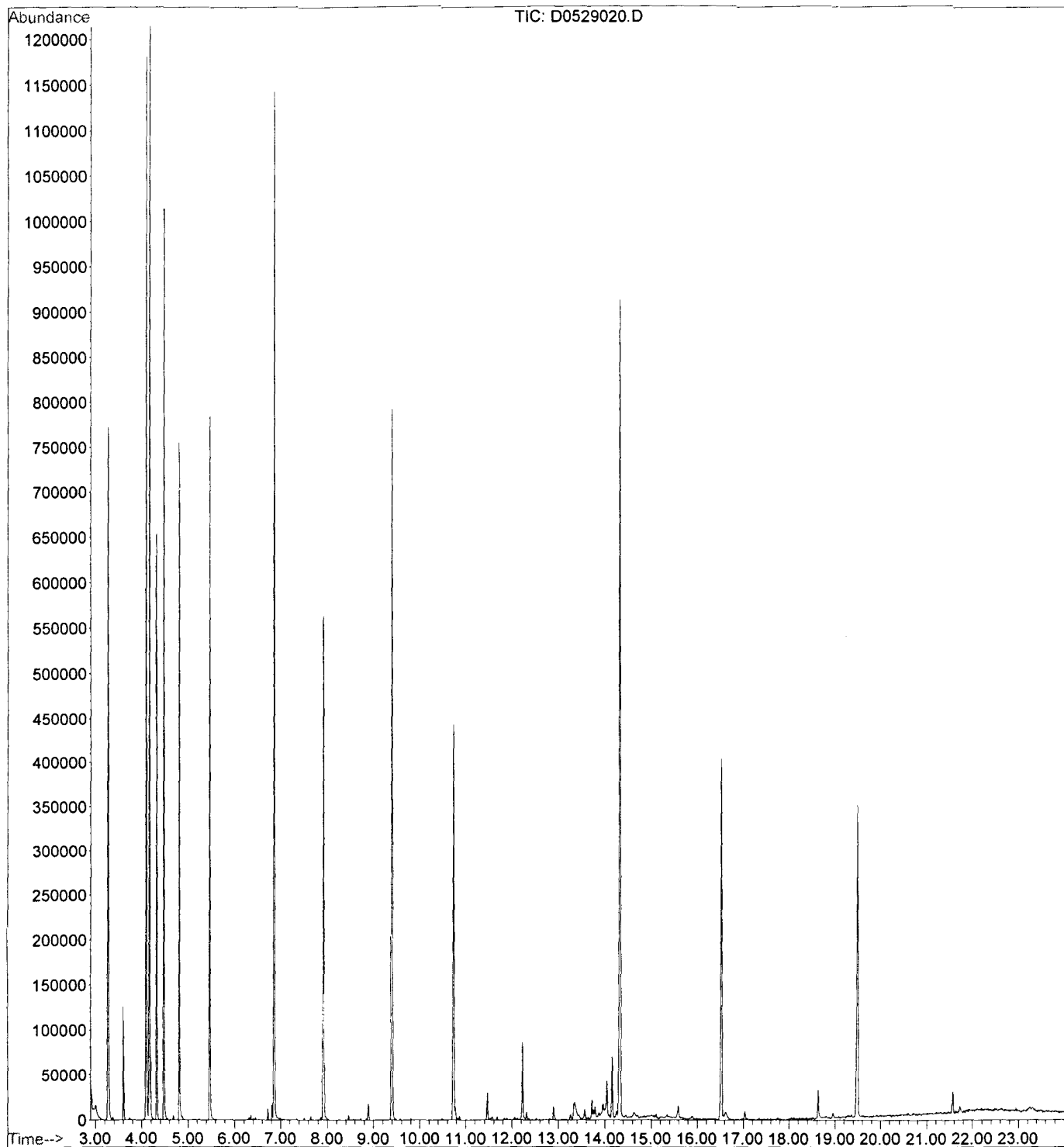
File : D:\NYACK\1NYACK\C1E230237\D0605003.D  
Operator : 001562, DLF  
Acquired : 5 Jun 2001 12:41 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e230237-002 20x soil 5/30/01 clp3.2  
Misc Info : edtk71a1,d060501p.b,clp.m,1-3.1.sub  
Vial Number: 5

SB18(11-11.5)

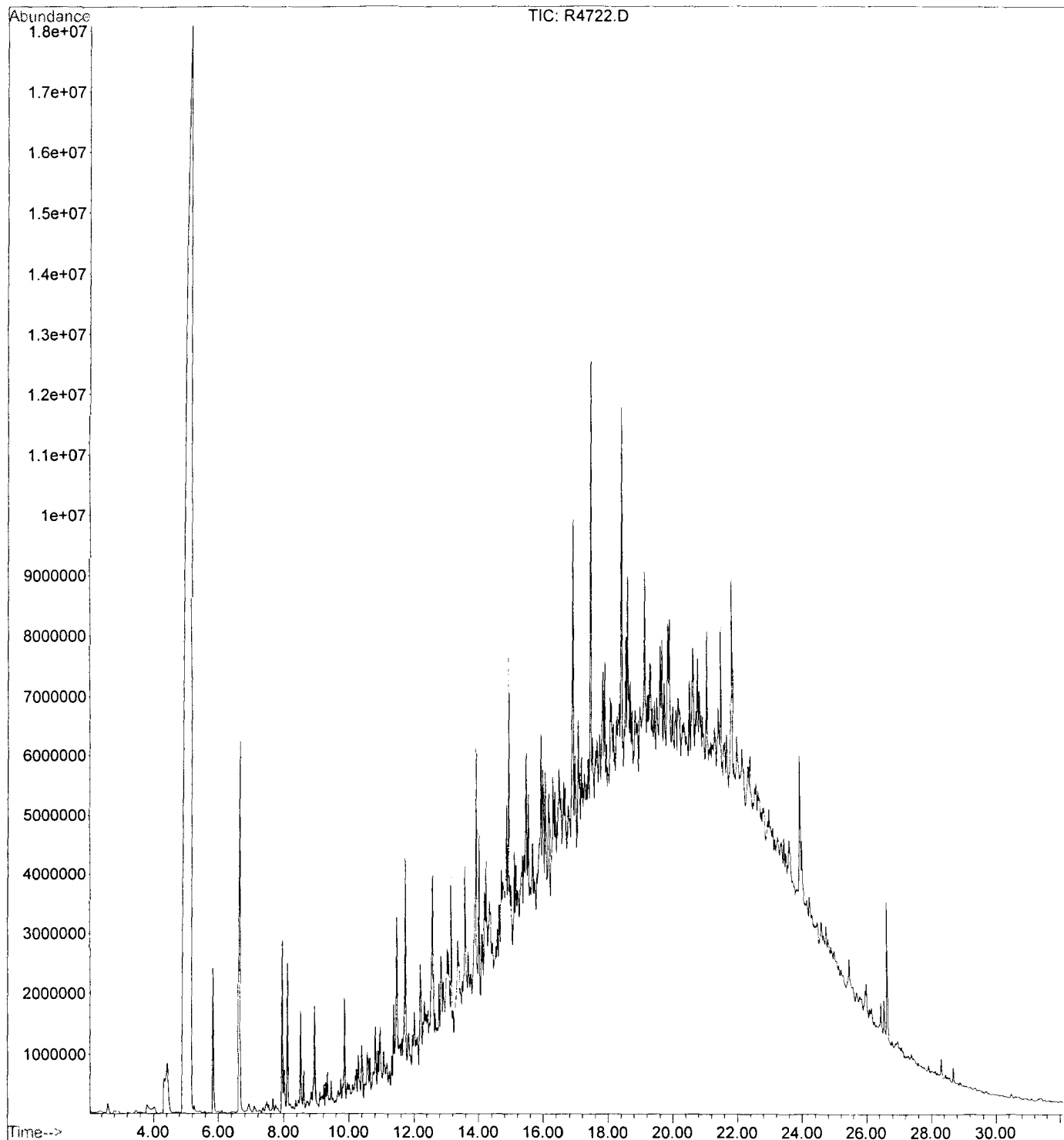


File : D:\NYACK\1NYACK\C1E180181\D0529020.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 11:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-012 soil 5/22/01 clp3.2  
Misc Info : edljf1a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 22

5819(6.0-6.2)

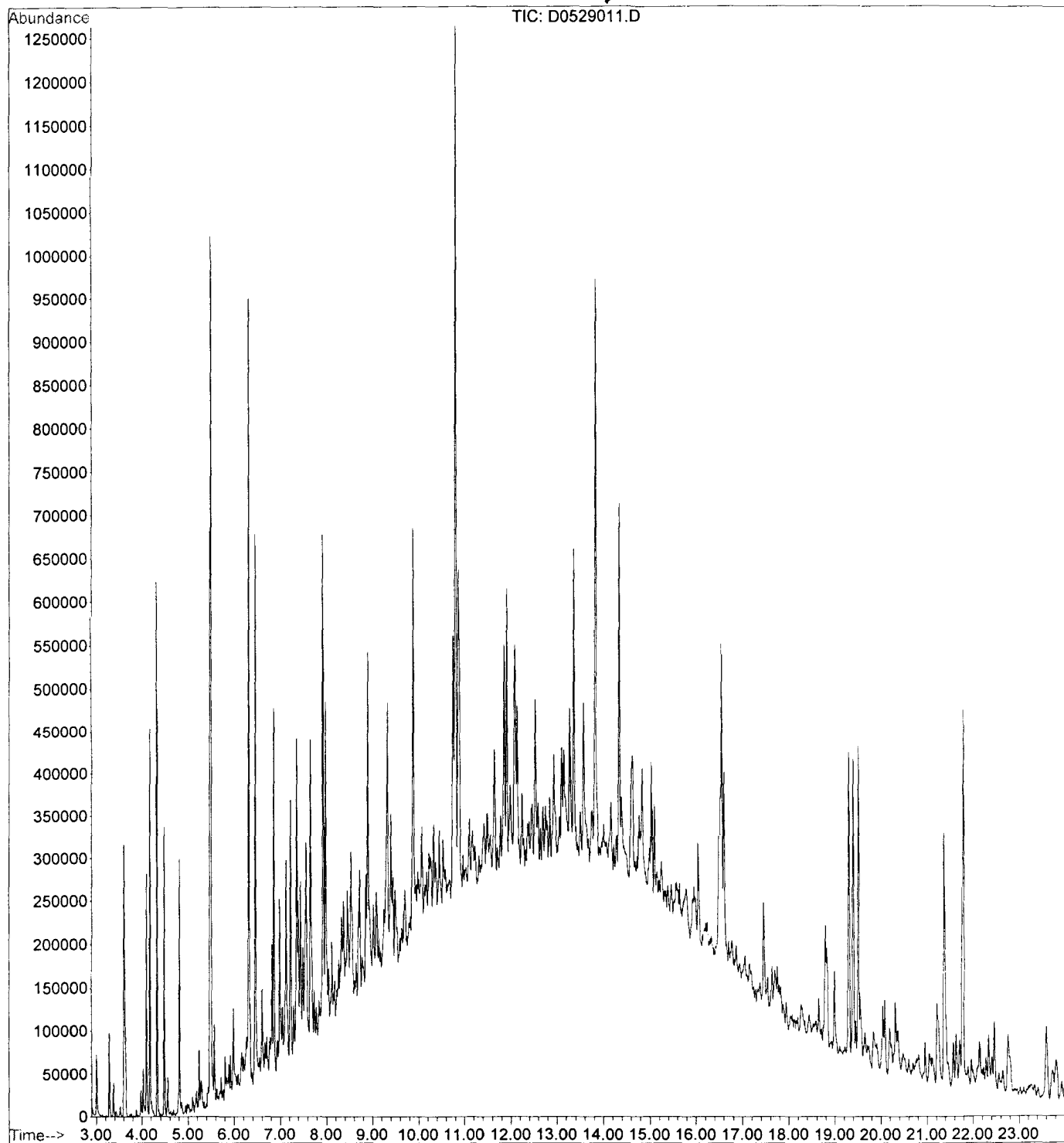


File : D:\HPCHEM\MSR\R4722.D  
Operator : C.LOMBARDI  
Acquired : 20 Oct 1999 6:05 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-15  
Misc Info : (SB2 (8.5-10)) ; OLM ; 1 ; LLS ; R0323  
Vial Number: 13



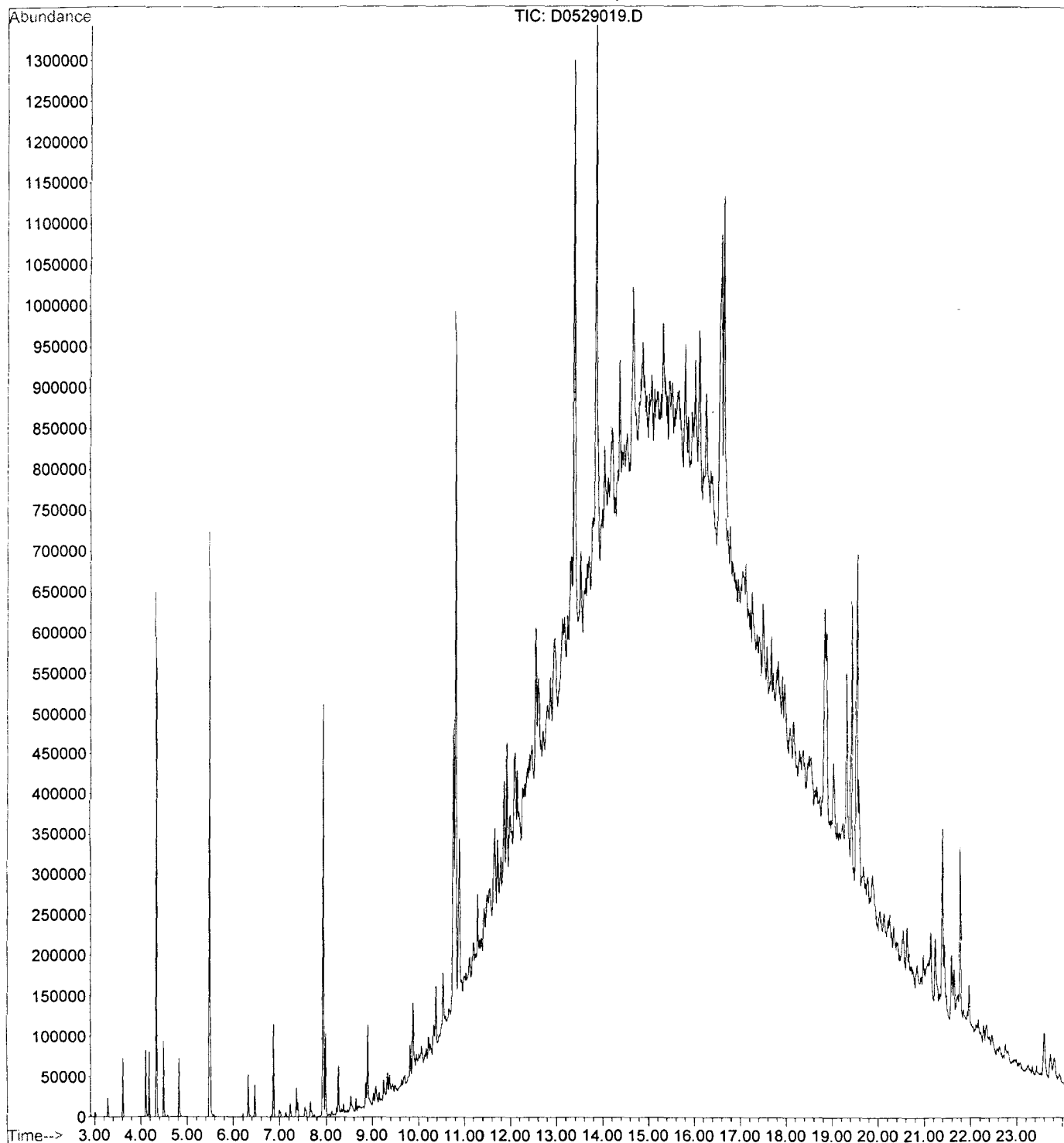
File : D:\NYACK\1NYACK\C1E180181\D0529011.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 6:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-001 2x soil 5/22/01 clp3.2  
Misc Info : edk8mlad,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 13

SB 20 (7.3-7.4)



File : D:\NYACK\1NYACK\C1E180181\D0529019.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 10:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-011 10x soil 5/22/01 clp3.2  
Misc Info : edlh81a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 21

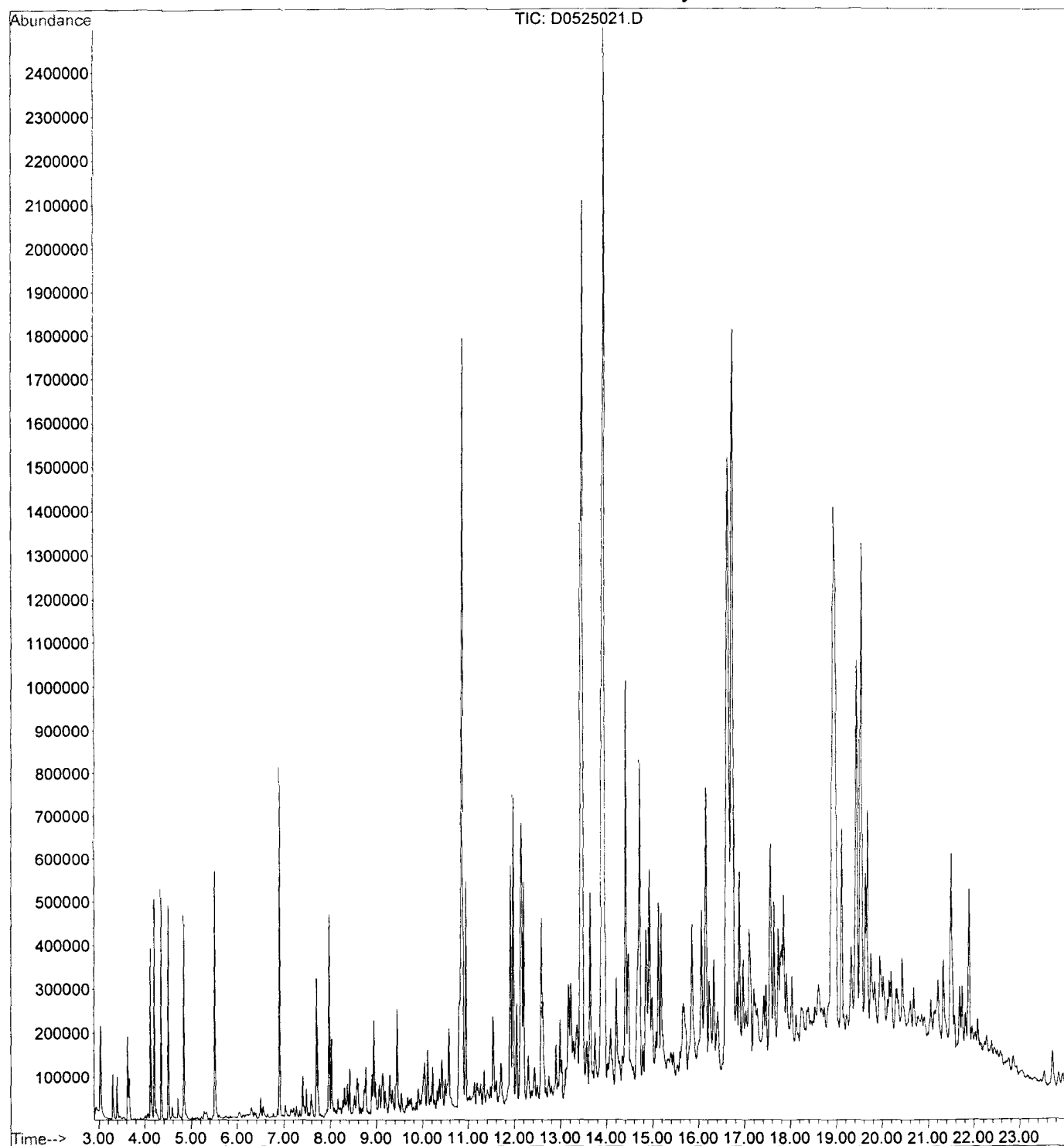
SP.1 (6.3-6.6)





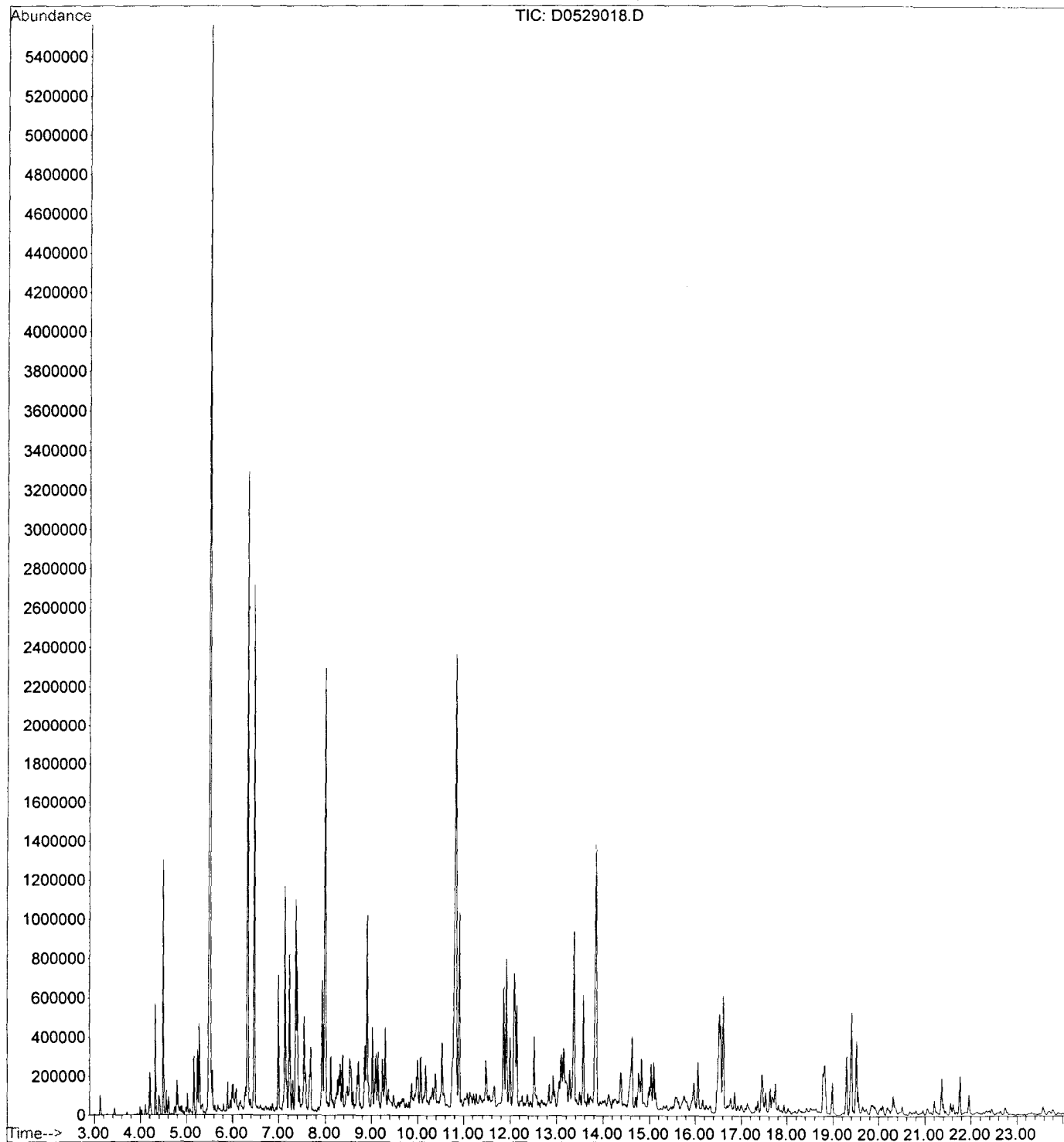
File : D:\NYACK\1NYACK\C1E180181\D0525021.D  
Operator : 001562, DLF  
Acquired : 26 May 2001 12:19 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-005 soil 5/22/01 clp3.2  
Misc Info : edlaf1a1,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 23

SB 22 (7.0 - 7.3)



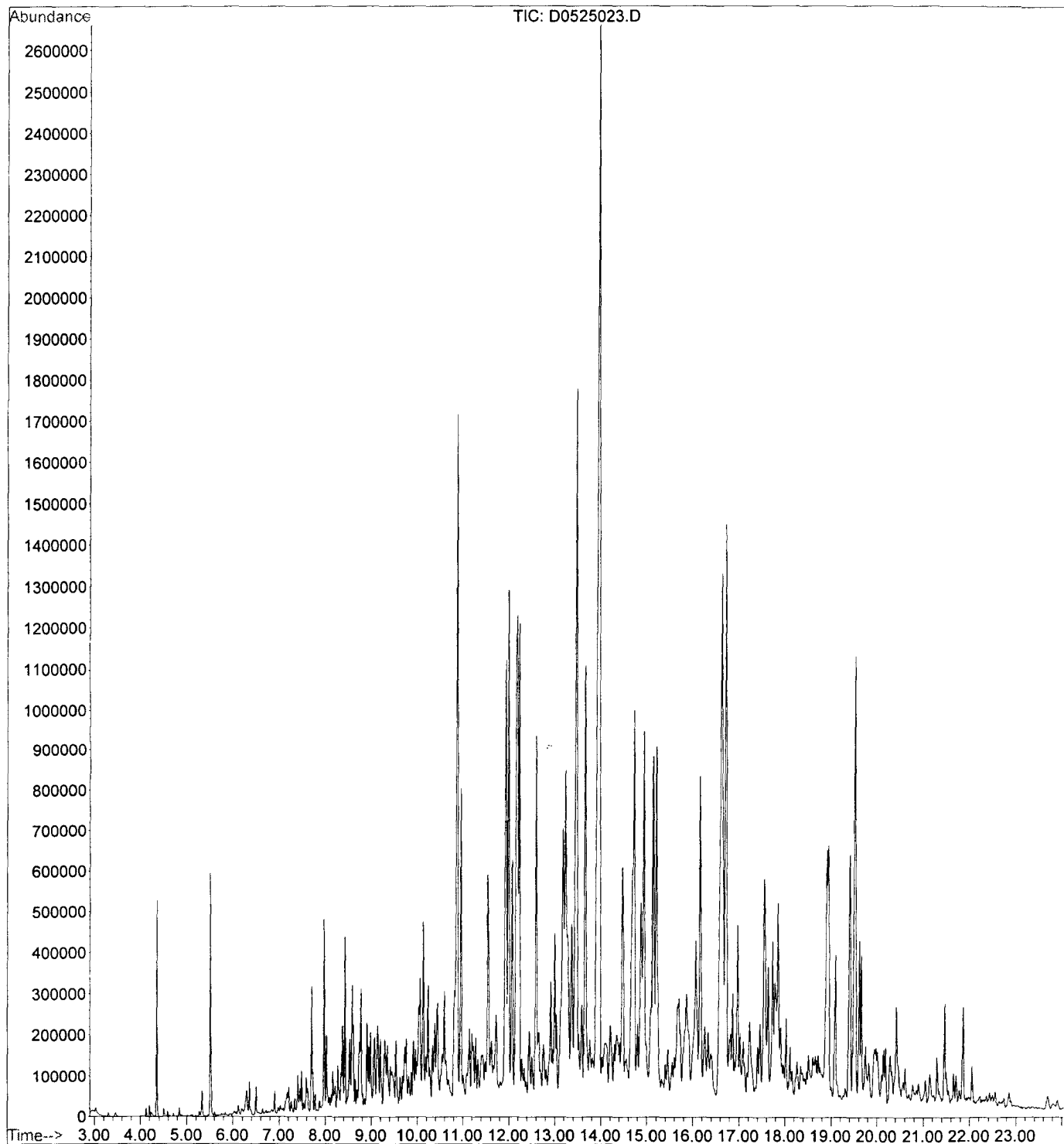
File : D:\NYACK\1NYACK\C1E180181\D0529018.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 10:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-010 50x soil 5/22/01 clp3.2  
Misc Info : edlh61a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 20

SB 23(13-14)



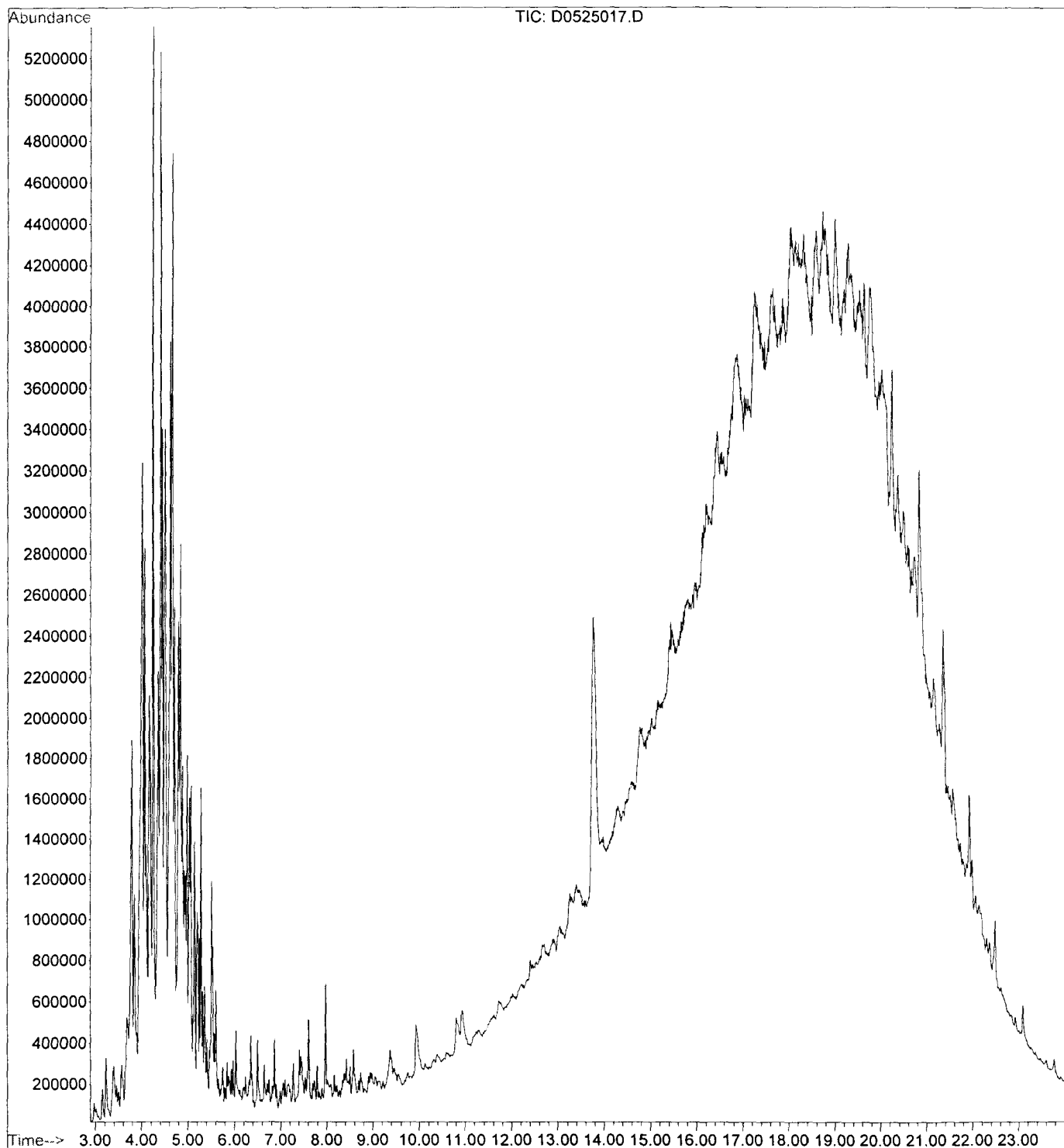
File : D:\NYACK\1NYACK\C1E180181\D0525023.D  
Operator : 001562, DLF  
Acquired : 26 May 2001 1:19 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-007 20x soil 5/22/01 clp3.2  
Misc Info : edlhp1a1,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 25

SB 25 (12-16)



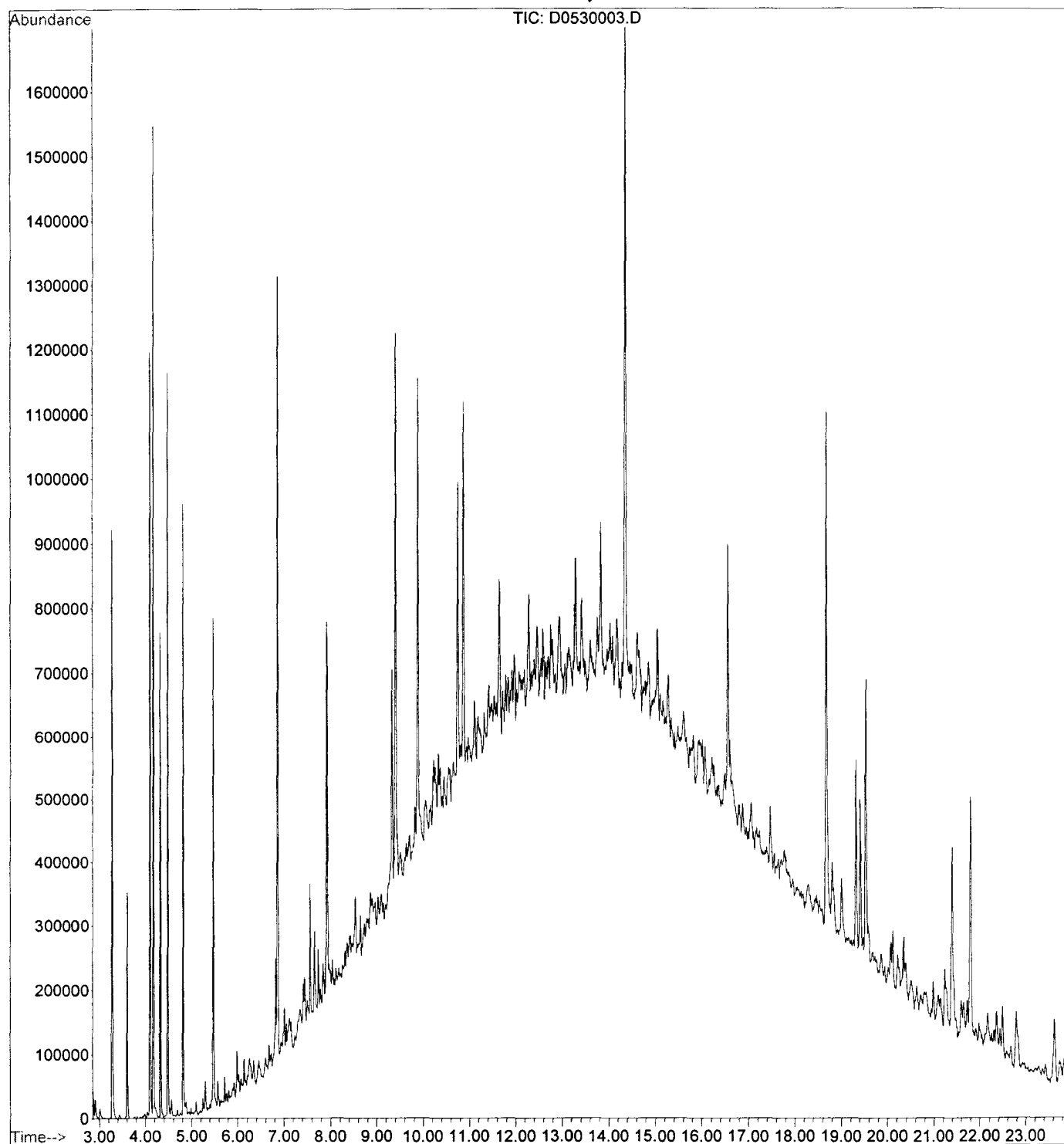
File : D:\NYACK\1NYACK\C1E180181\D0525017.D  
Operator : 001562, DLF  
Acquired : 25 May 2001 10:19 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-00210x soil 5/22/01 clp3.2  
Misc Info : edk9k1a1,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 19

SB 26 (16-20)



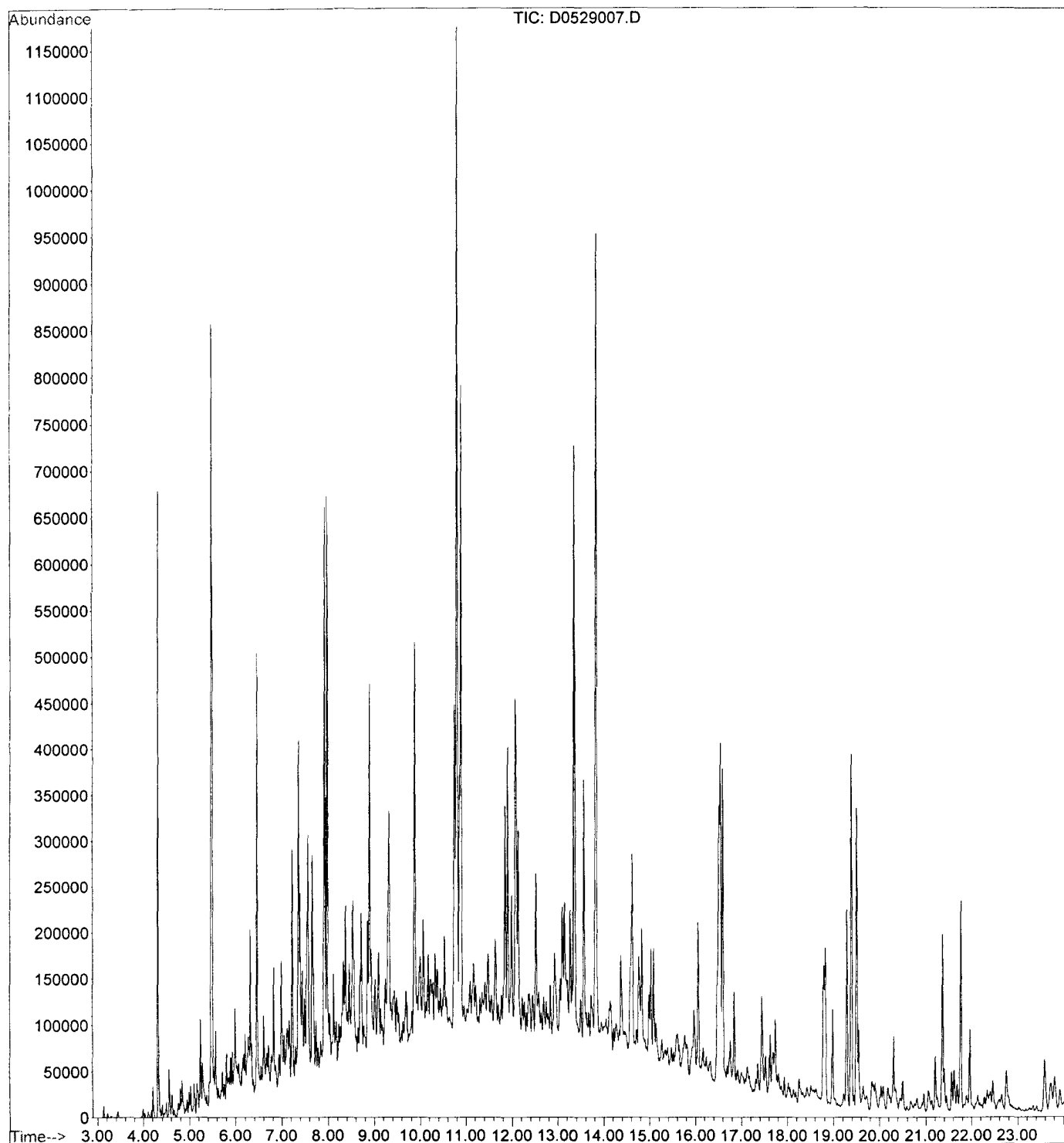
File : D:\NYACK\1NYACK\C1E180181\D0530003.D  
Operator : 001562, DLF  
Acquired : 30 May 2001 1:11 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-013 soil 5/22/01 clp3.2  
Misc Info : edljh1a1,d053001p.b,clp.m,1-3.1.sub  
Vial Number: 5

5828 (7-10)

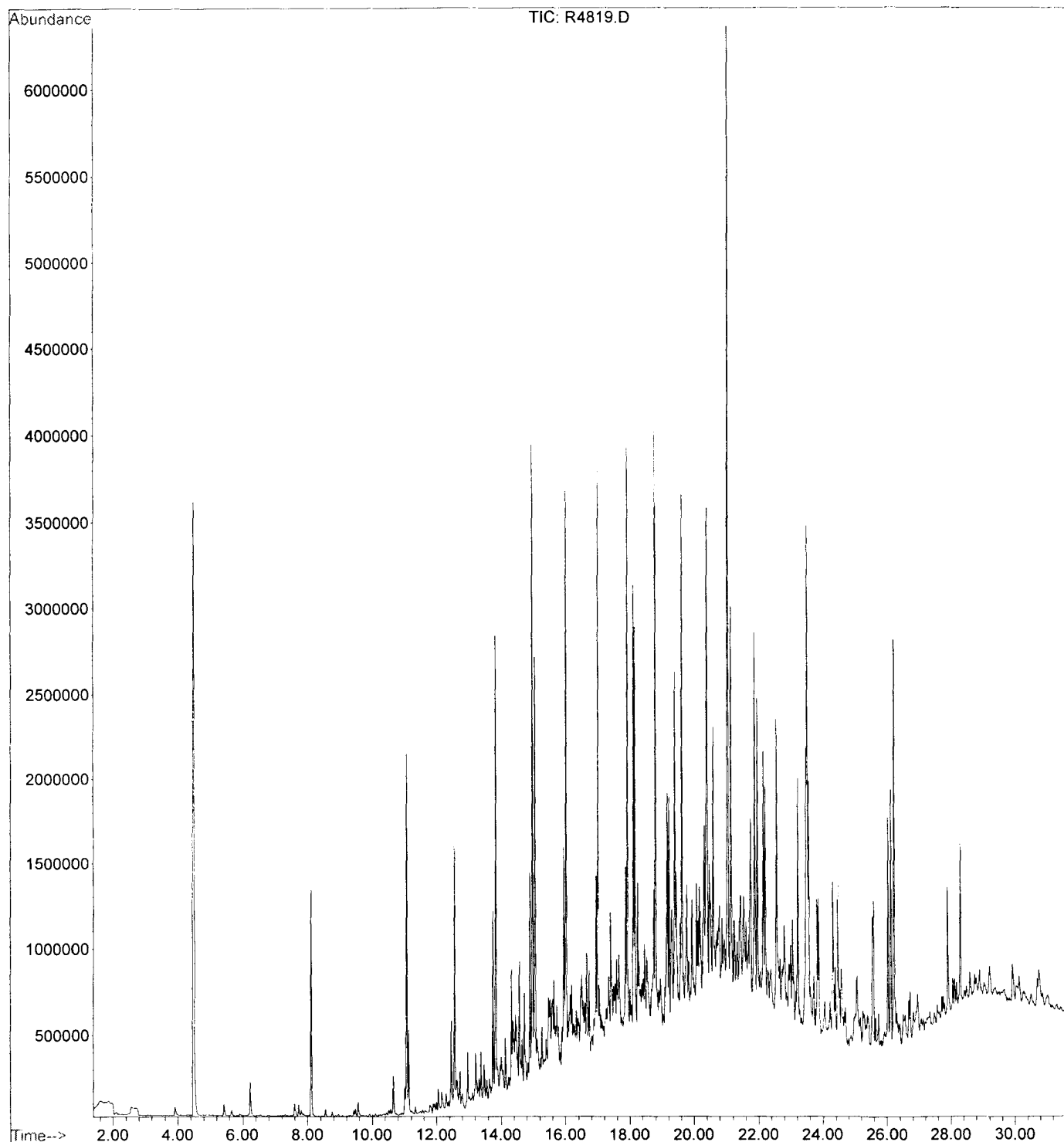


File : D:\NYACK\1NYACK\C1E190109\D0529007.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 4:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e190109-001 100x soil 5/22/01 clp3.2  
Misc Info : edmkrlaf,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 9

SB 29 (10-12)

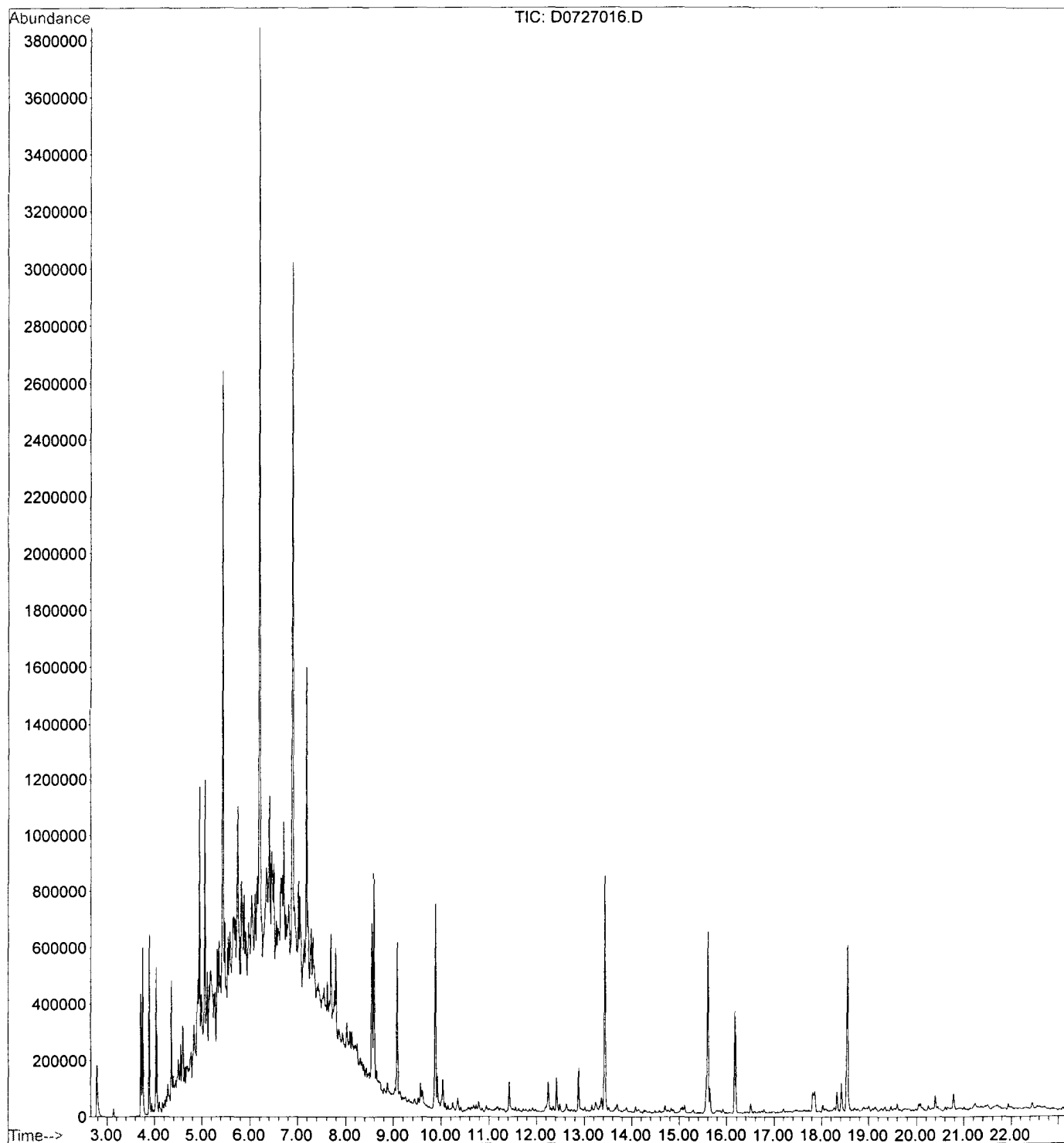


File : D:\HPCHEM\MSR\R4819.D  
Operator : C.LOMBARDI  
Acquired : 27 Oct 1999 5:35 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-18  
Misc Info : SB3 (14.0-15.9) ; OLM ; 50 ; LLS ; R0333  
Vial Number: 8



File : D:\NYACK\1NYACK\C1E250124\D0727016.D  
Operator : 001562, DLF  
Acquired : 26 Jul 2001 6:54 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: CIG170143-002 x2 7/18/01 soil clp3.2 (NYACK8)  
Misc Info : egfte1dq,d072601p.b,clp.m,1-3.1.sub  
Vial Number: 18

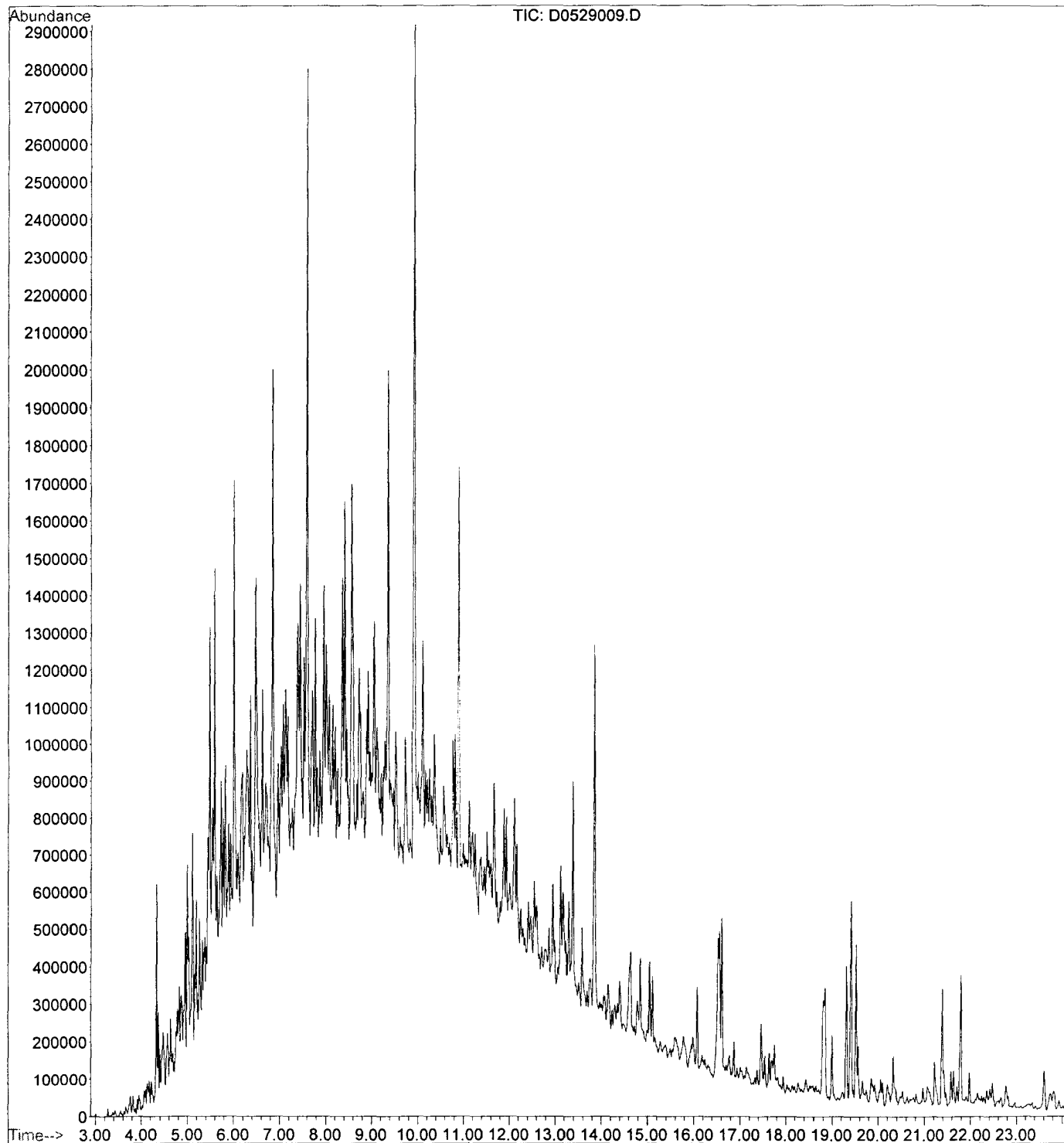
SD31 (9-9.5)



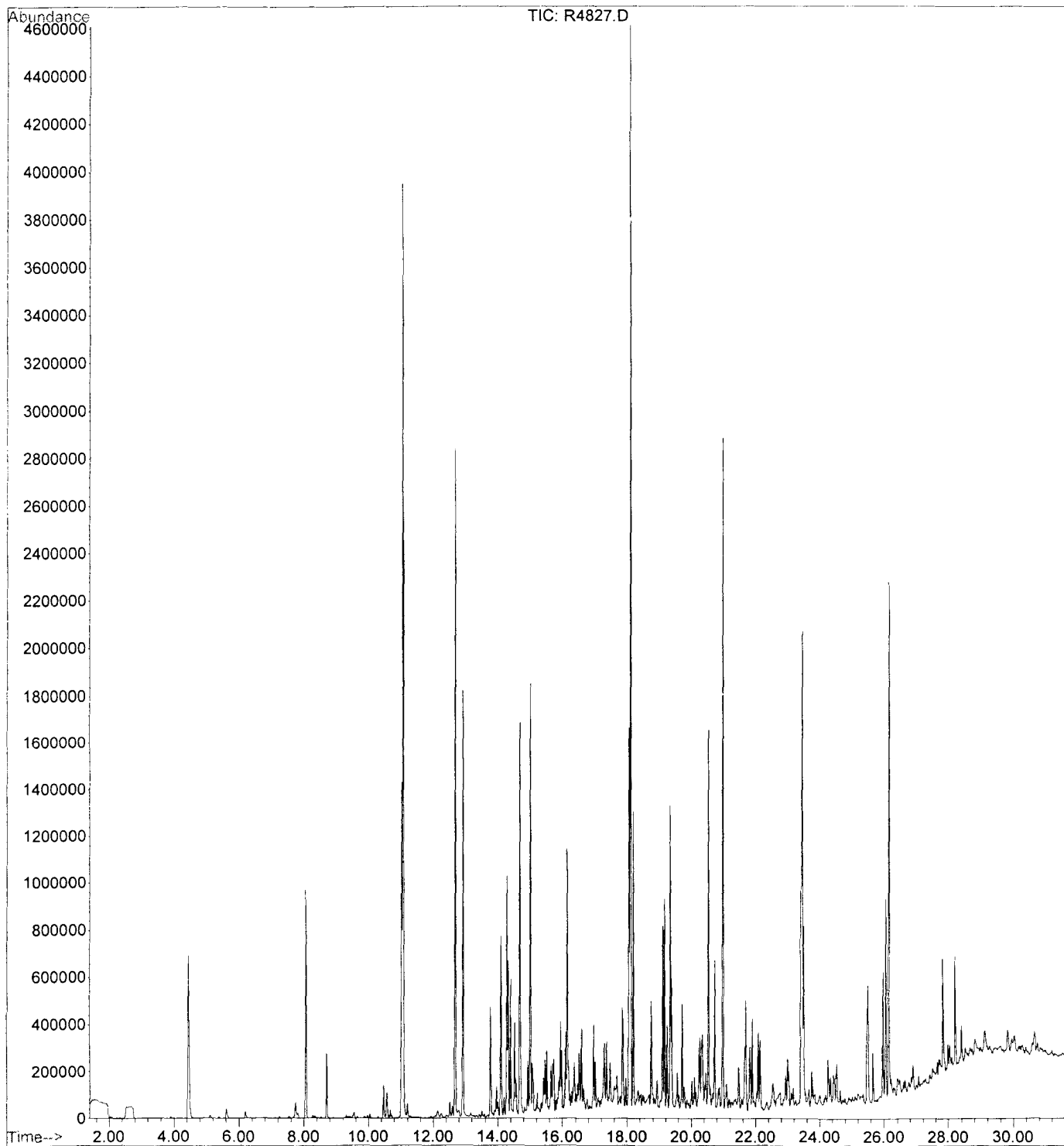


File : D:\NYACK\1NYACK\C1E190109\D0529009.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 5:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e190109-003 20x soil 5/22/01 clp3.2  
Misc Info : edmk01ag,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 11

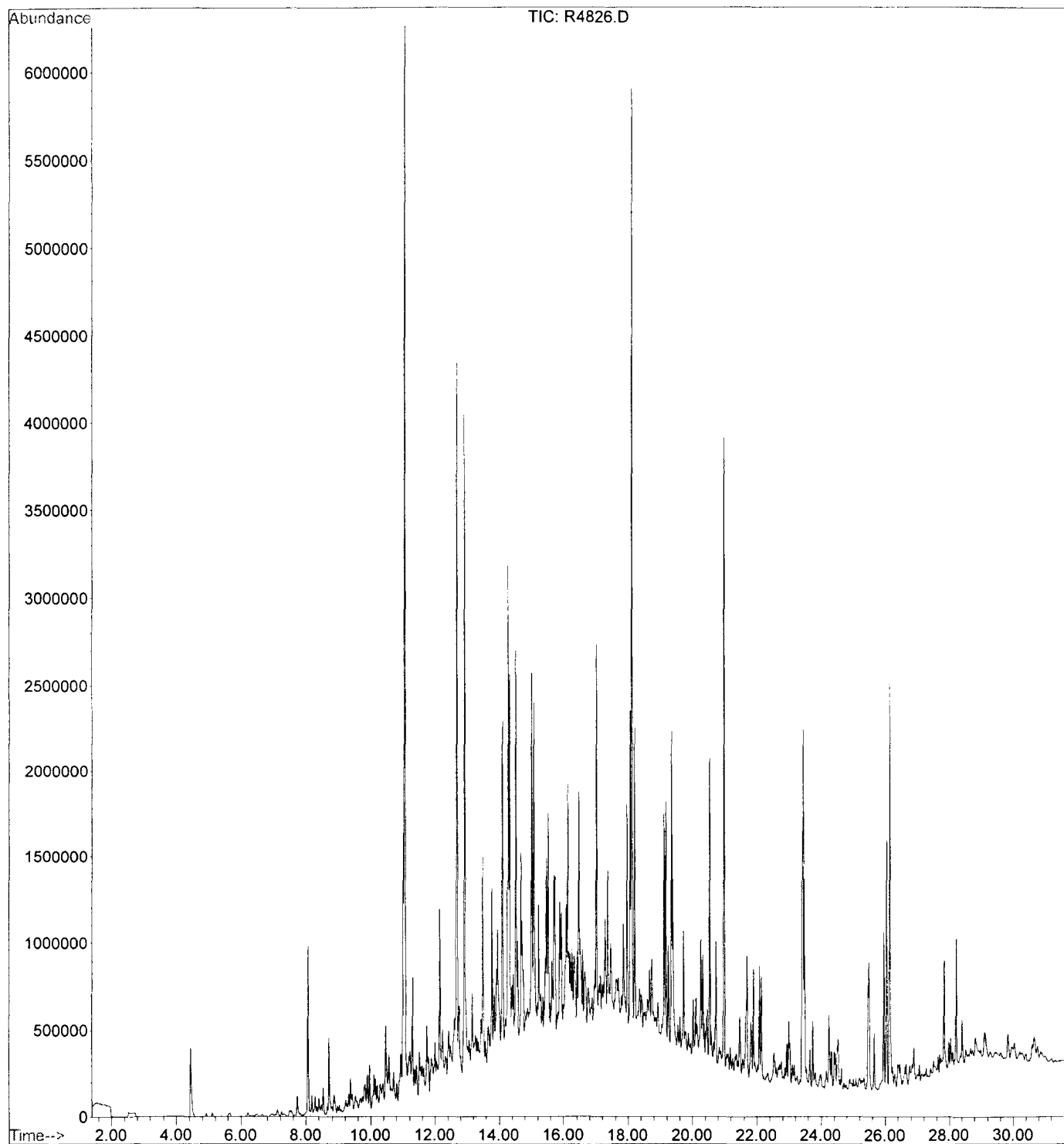
SB130 (8-10)



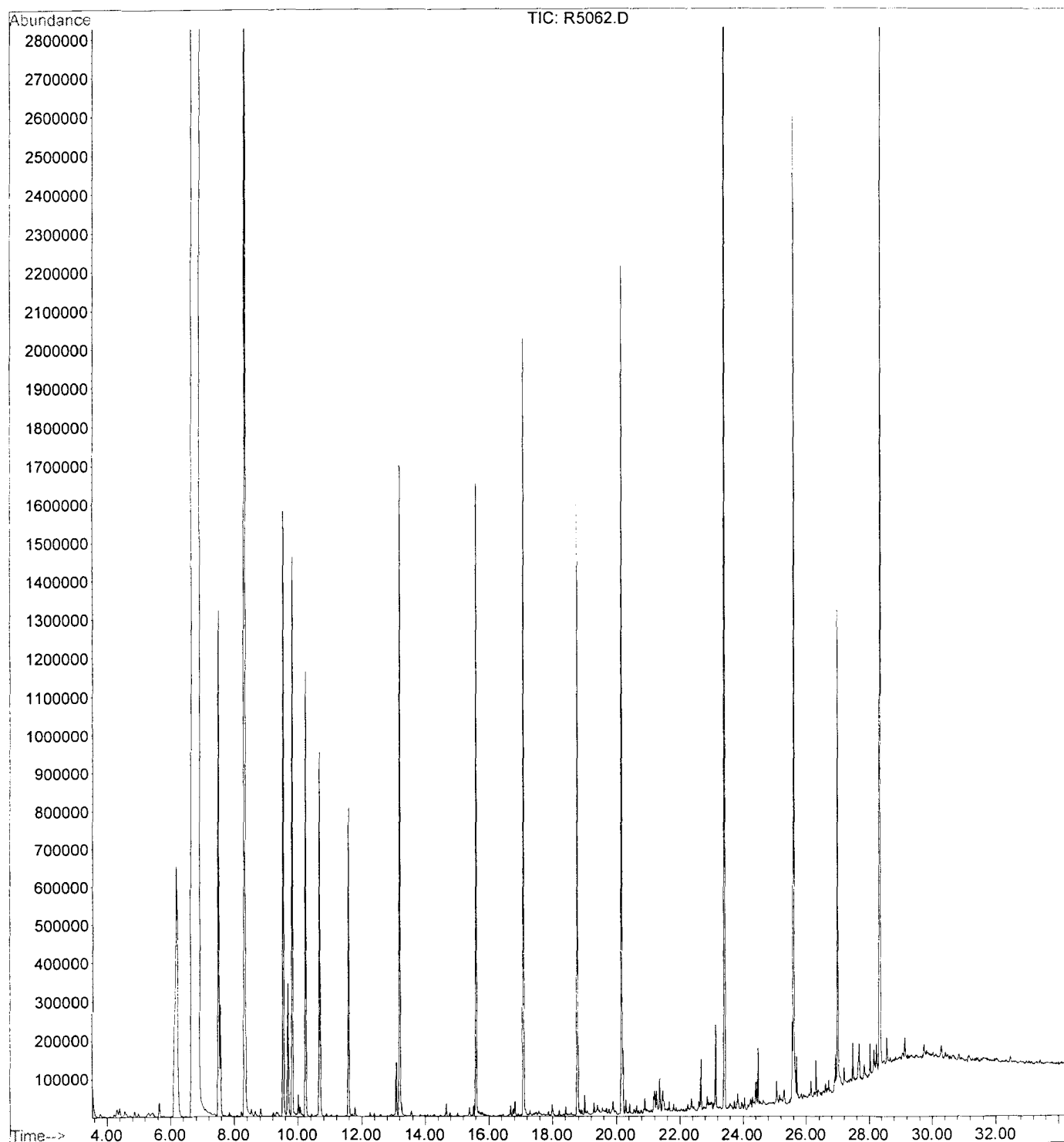
File : D:\HPCHEM\MSR\R4827.D  
Operator : C.LOMBARDI  
Acquired : 28 Oct 1999 11:46 am using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-19  
Misc Info : SB4 (4.0-6.0) ; OLM ; 100 ; LLS ; R0334  
Vial Number: 3



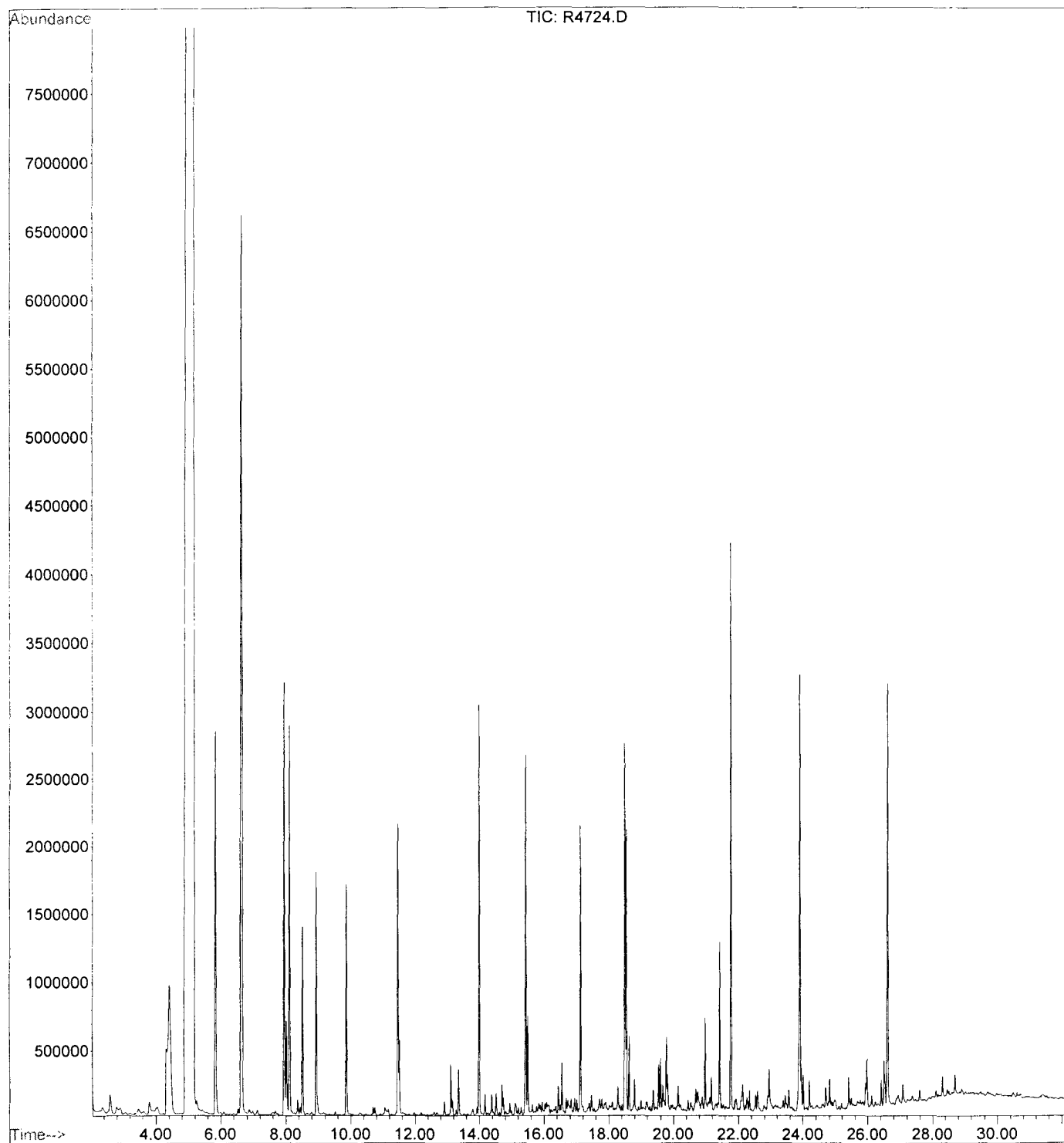
File : D:\HPCHEM\MSR\R4826.D  
Operator : C.LOMBARDI  
Acquired : 28 Oct 1999 11:05 am using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-20  
Misc Info : SB5 (4.0-6.0) ; OLM ; 50 ; LLS ; R0334  
Vial Number: 2



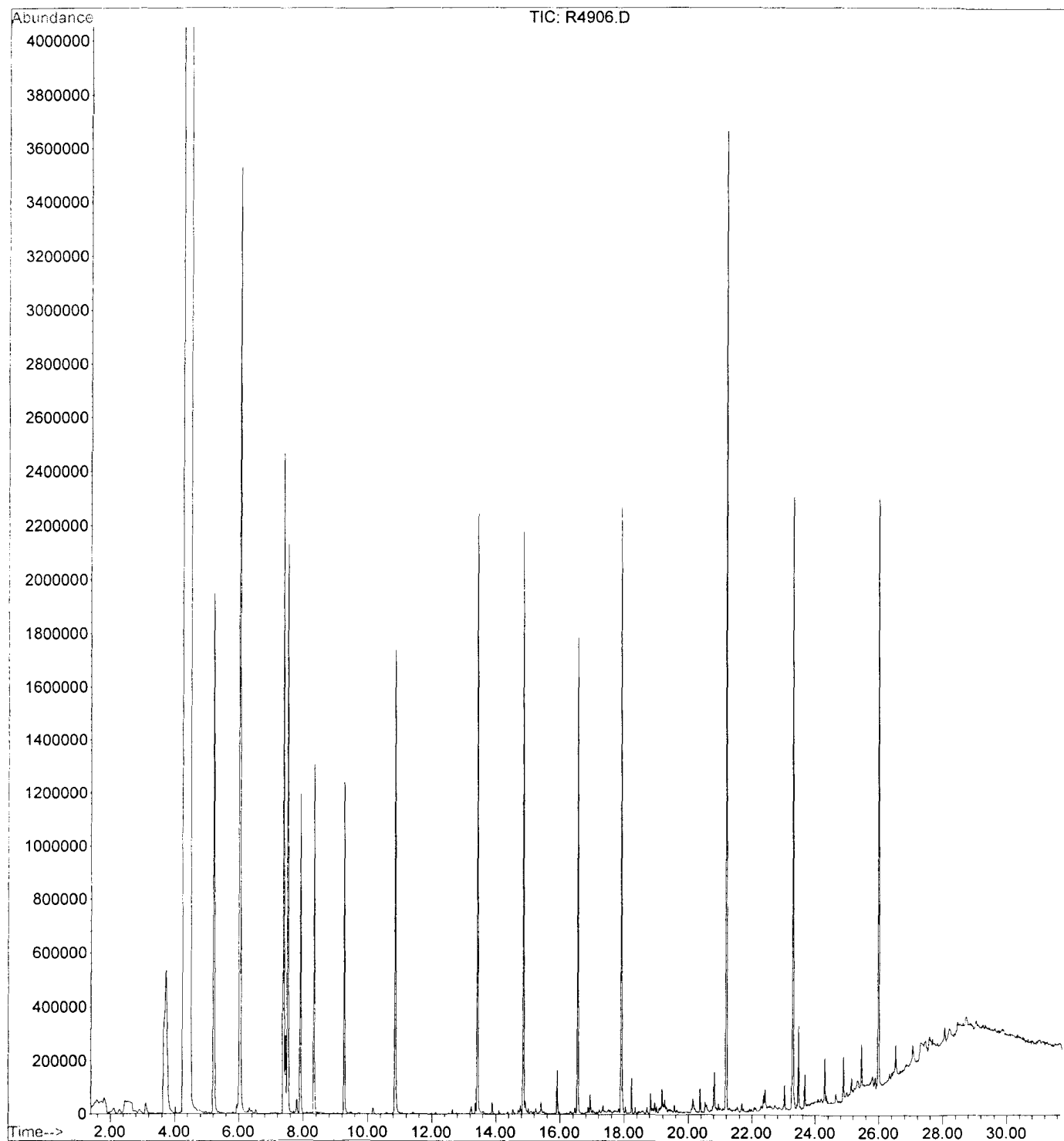
File : D:\HPCHEM\MSR\R5062.D  
Operator : J. Bennett  
Acquired : 15 Nov 1999 10:40 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414C-05  
Misc Info : SB6 (10.4-12.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 12



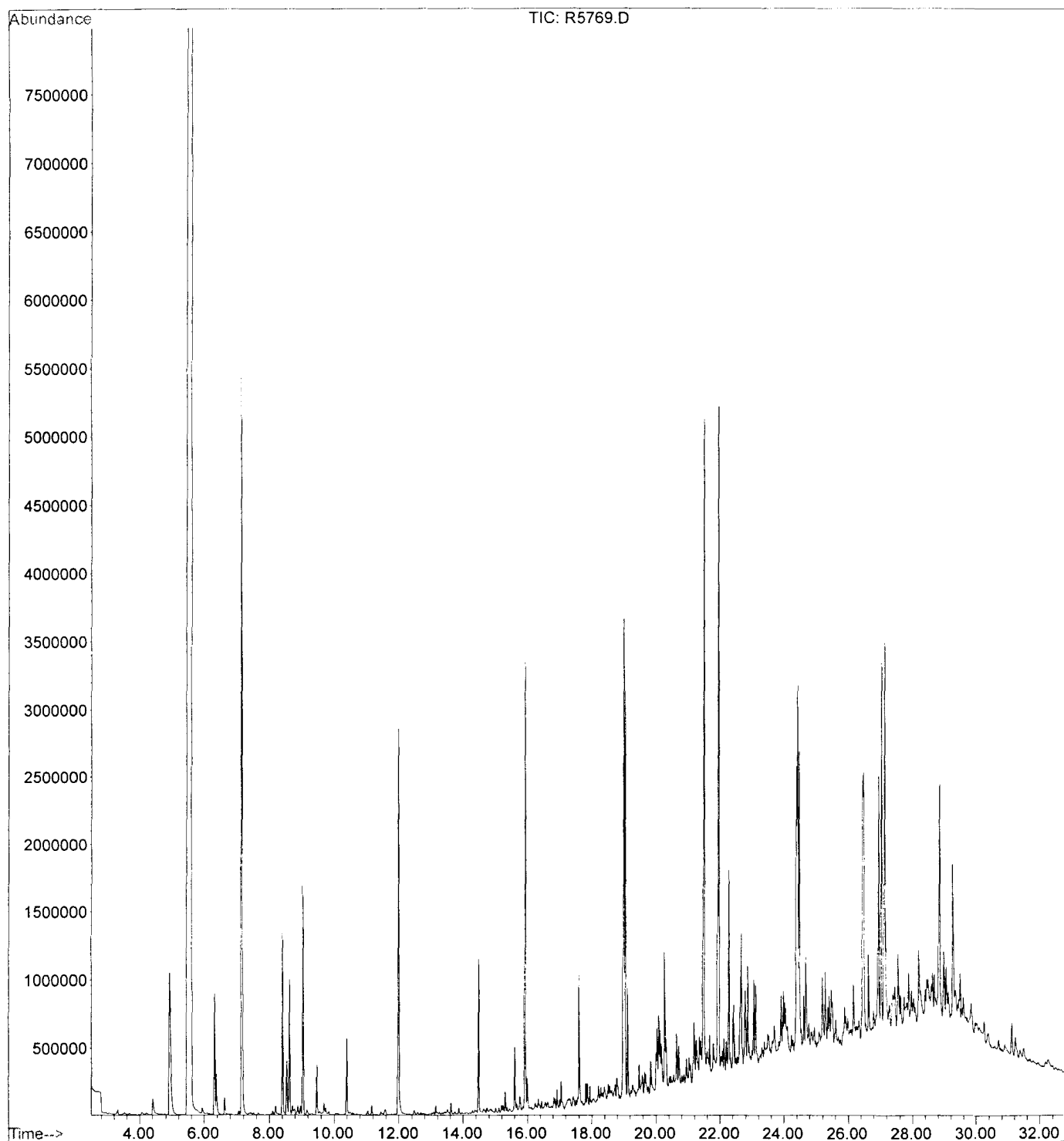
File : D:\HPCHEM\MSR\R4724.D  
Operator : C.LOMBARDI  
Acquired : 20 Oct 1999 7:27 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-17  
Misc Info : SB8 (4.0-6.0) ; OLM ; 1 ; LLS ; R0323  
Vial Number: 15



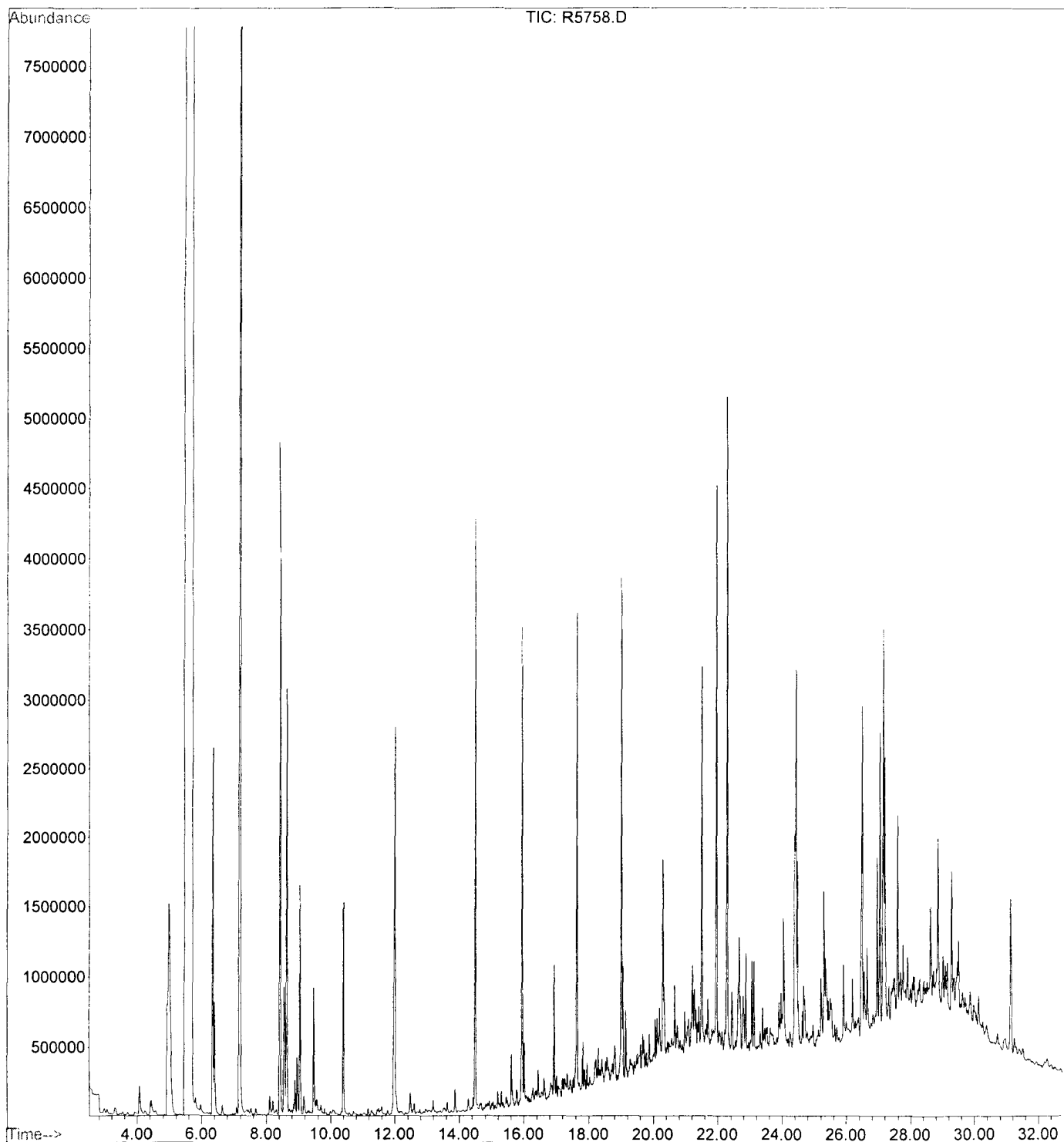
File : D:\HPCHEM\MSR\R4906.D  
Operator : J. Bennett  
Acquired : 2 Nov 1999 8:05 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-13  
Misc Info : SB9 (14.0-15.5) ; OLM ; 1 ; LLS ; R0338  
Vial Number: 14



File : D:\HPCHEM\MSR\R5769.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 3:56 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-11  
Misc Info SD1 (0.0-0.2) ; OLM ; 5; LLS ; SOIL  
Vial Number: 24

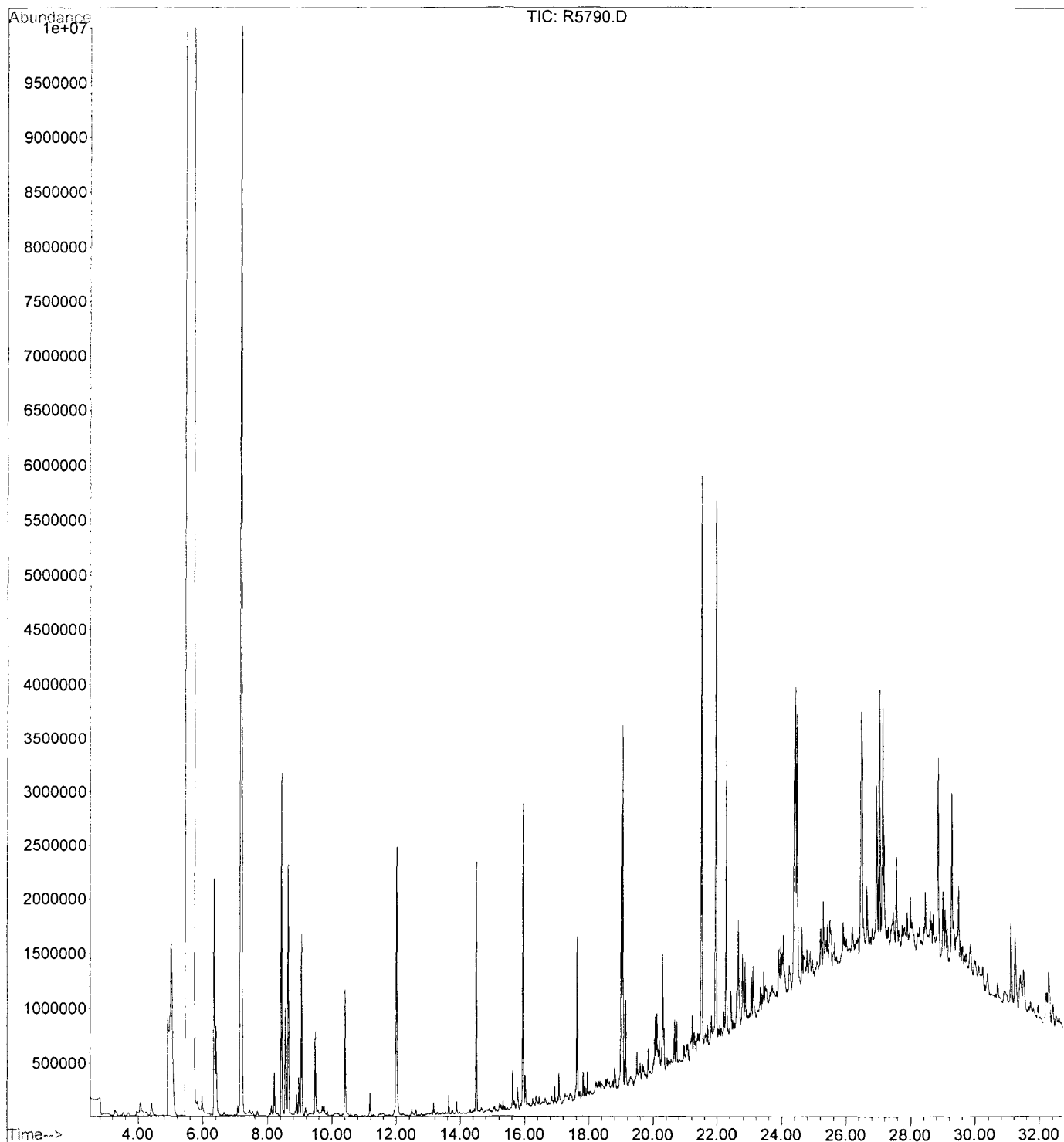


File : D:\HPCHEM\MSR\R5758.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 8:19 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-01  
Misc Info SD1 (0.4-1.4) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 13

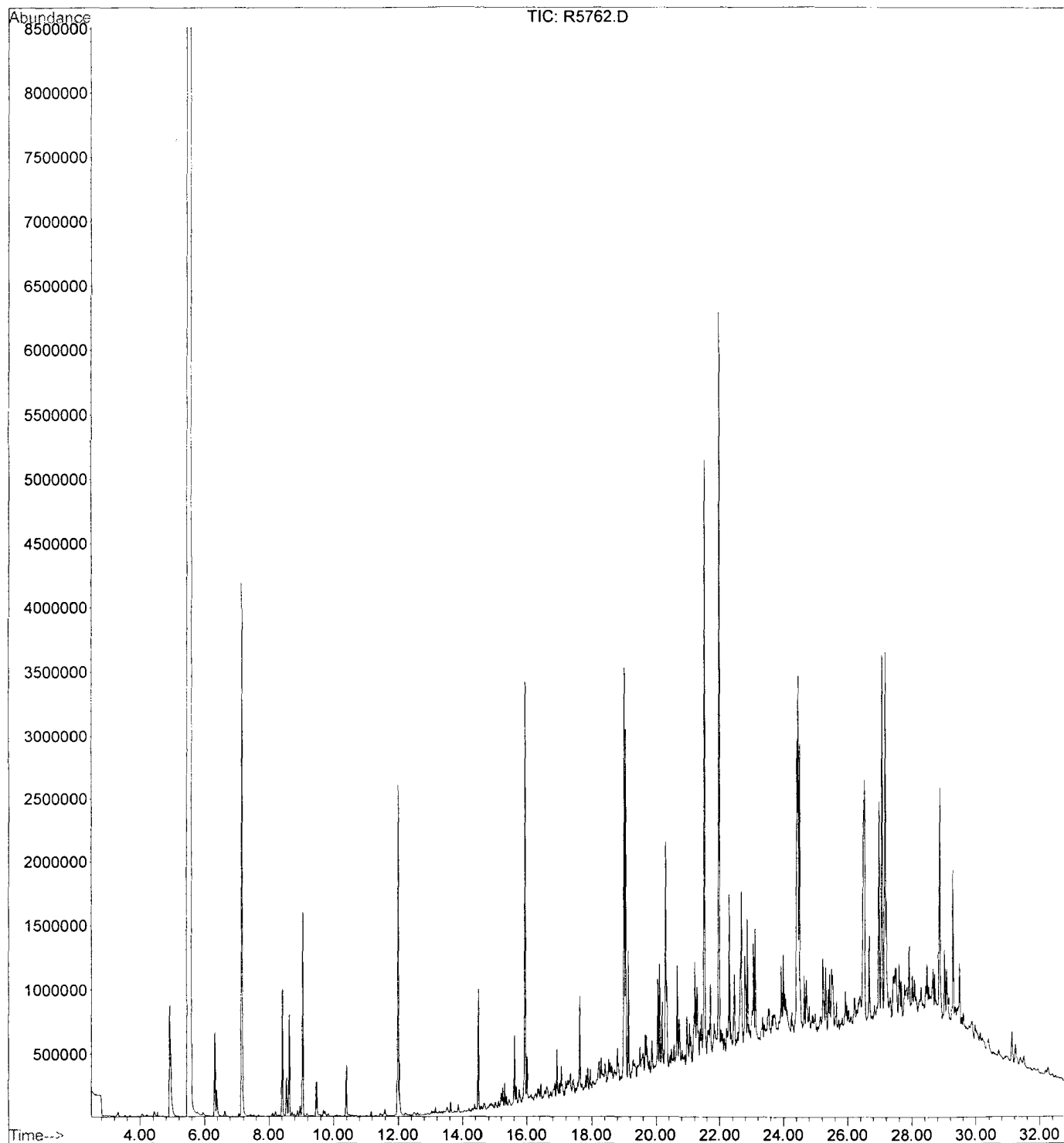




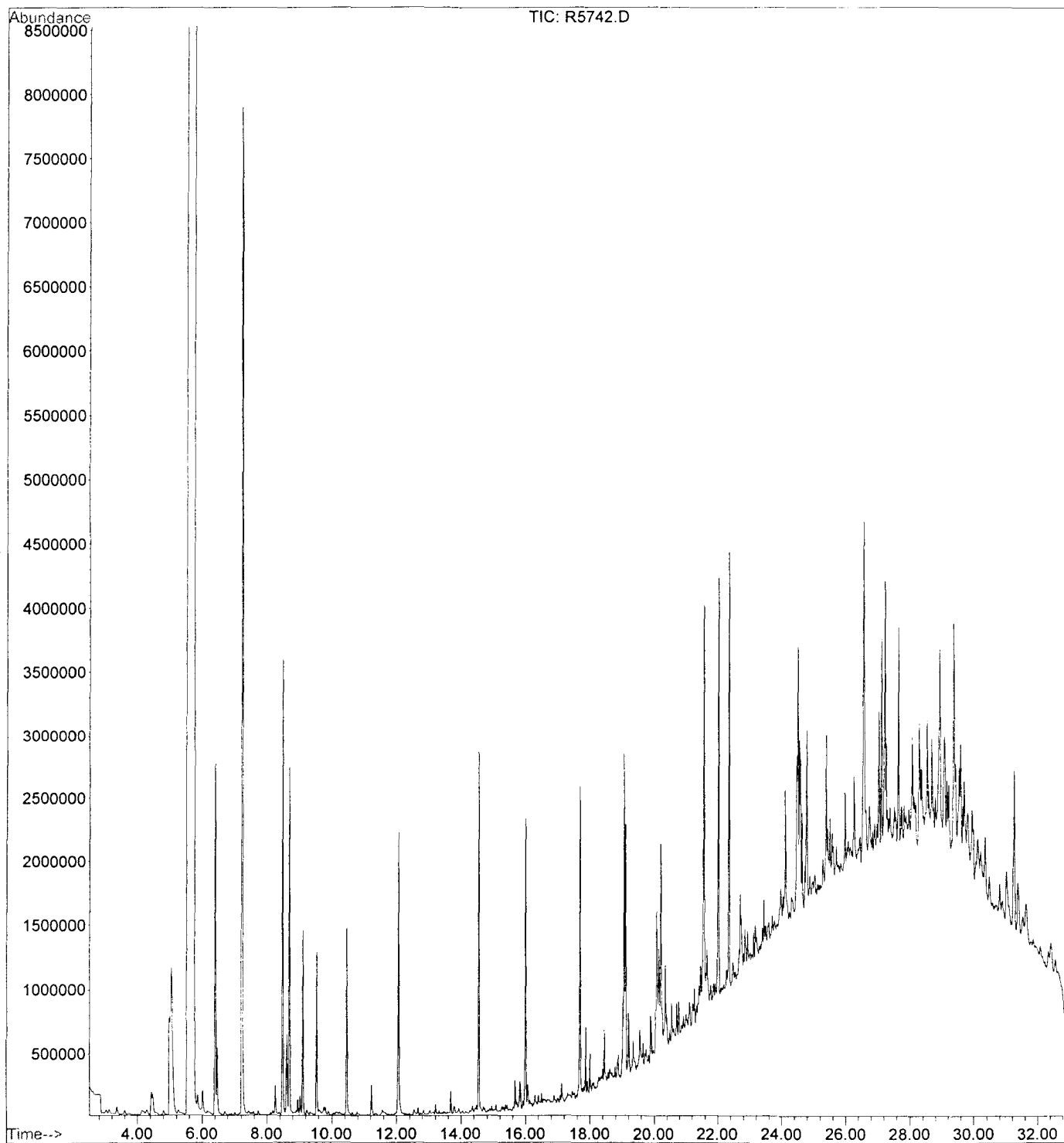
File : D:\HPCHEM\MSR\R5790.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 9:45 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-14  
Misc Info : SD10 (0.0-0.4) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 16



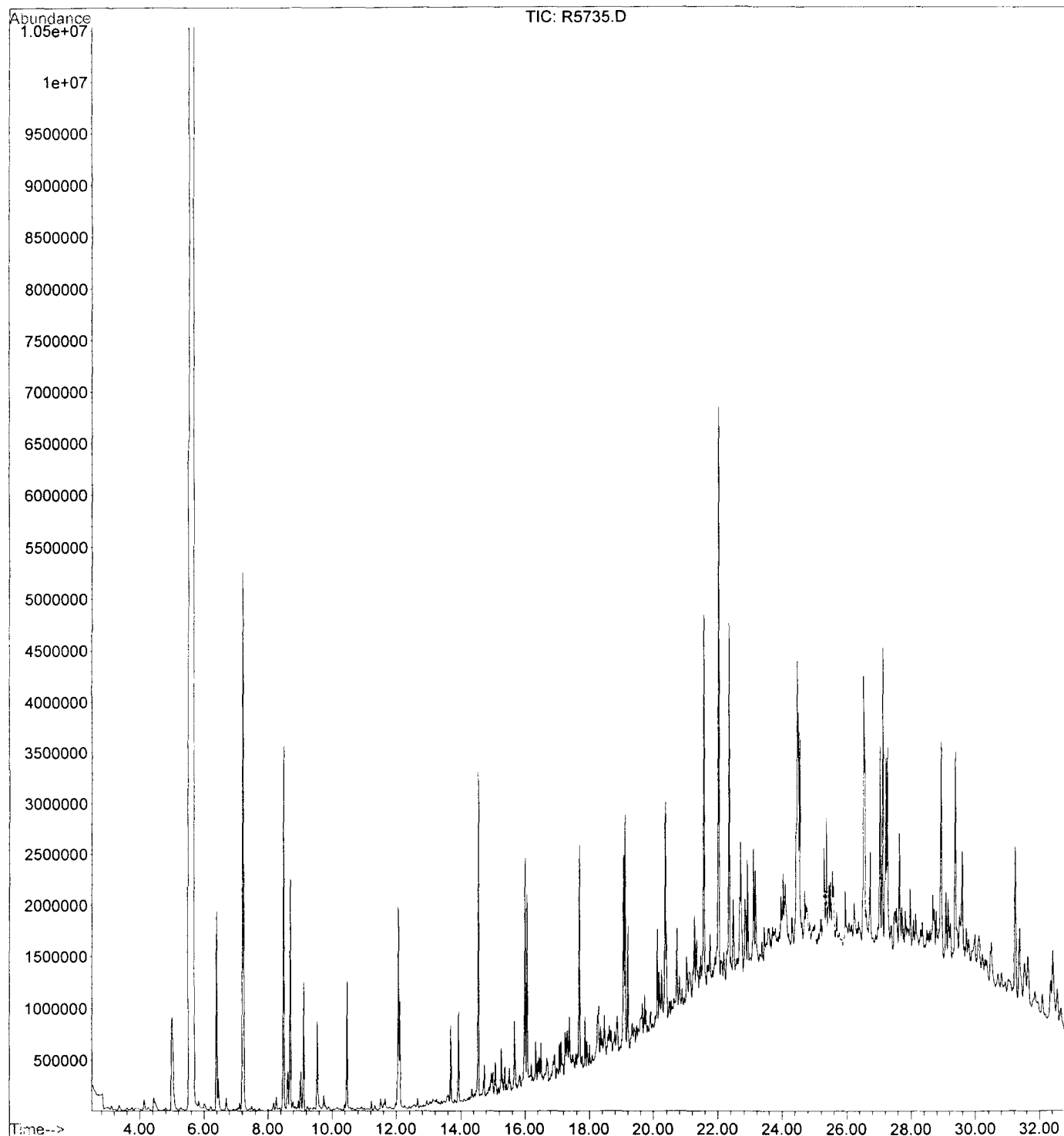
File : D:\HPCHEM\MSR\R5762.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 11:05 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-04  
Misc Info : SD10 (0.2-2.0) ; OLM ; 5 ; LLS ; SOIL  
Vial Number: 17



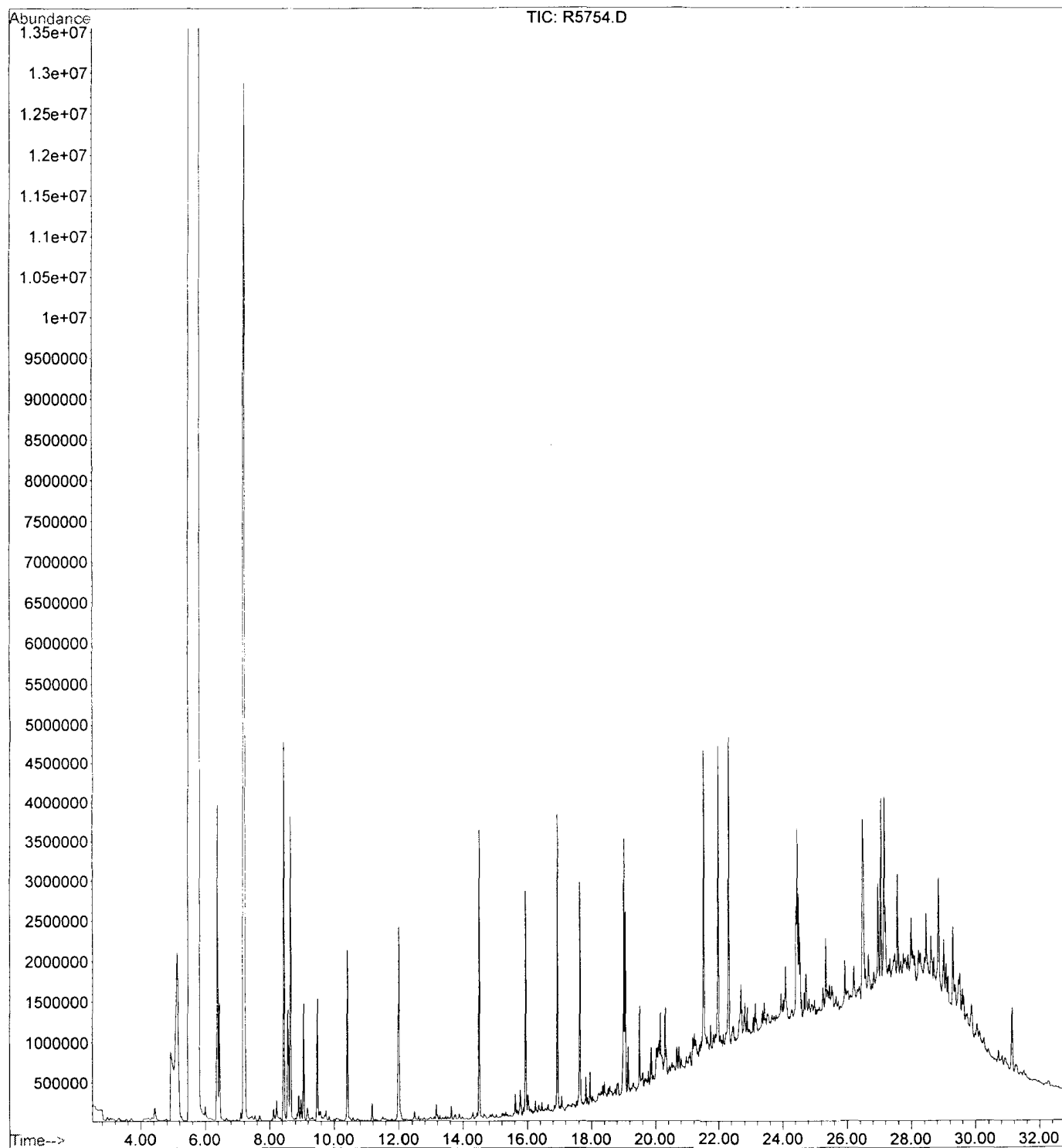
File : D:\HPCHEM\MSR\R5742.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 9:07 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-01  
Misc Info : SD11 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 15



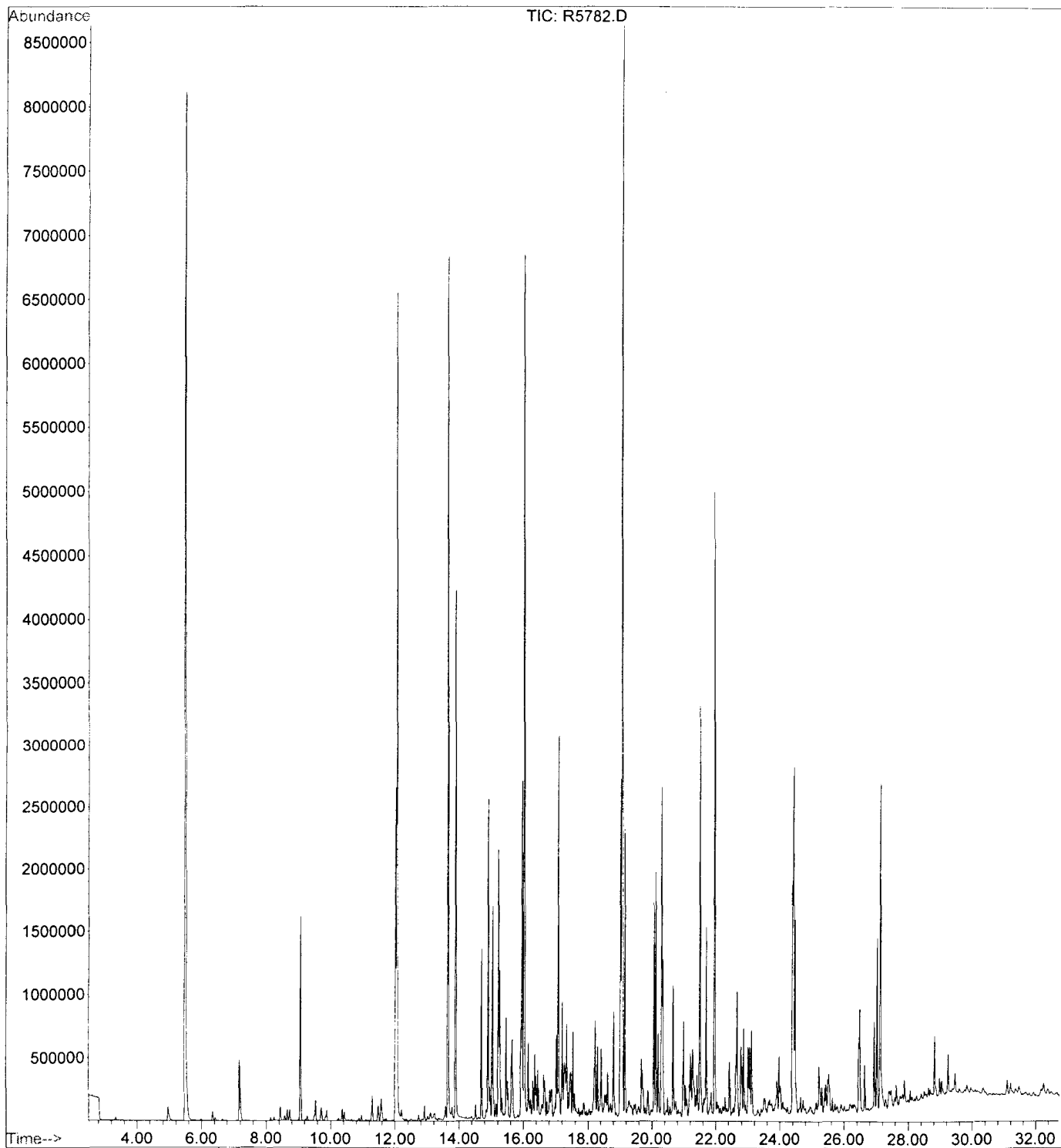
File : D:\HPCHEM\MSR\R5735.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 4:02 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-02  
Misc Info : SD11 (0.5-2.0) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 8



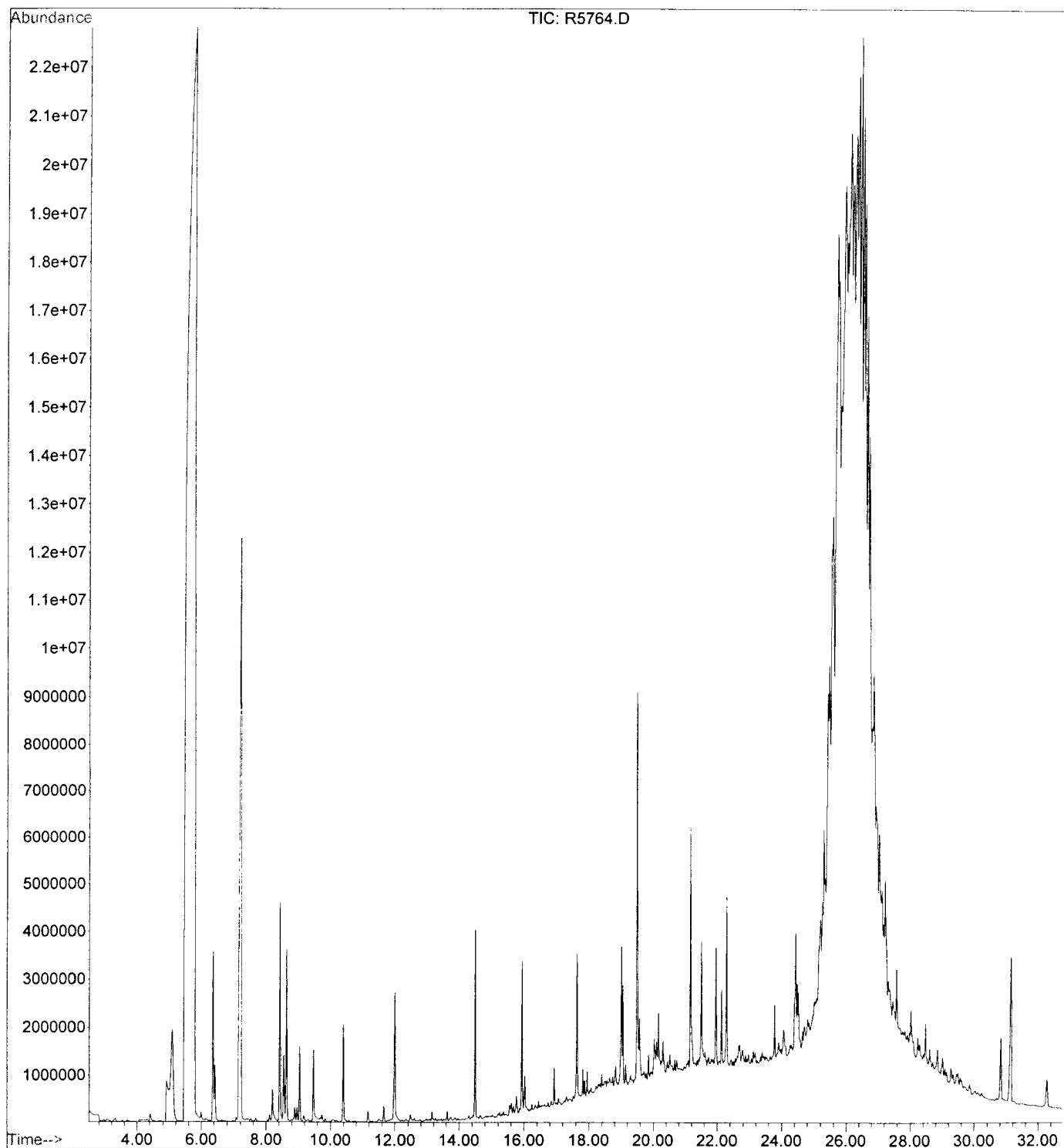
File : D:\HPCHEM\MSR\R5754.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 5:31 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-19  
Misc Info : SD12 (0.0-0.7) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 9



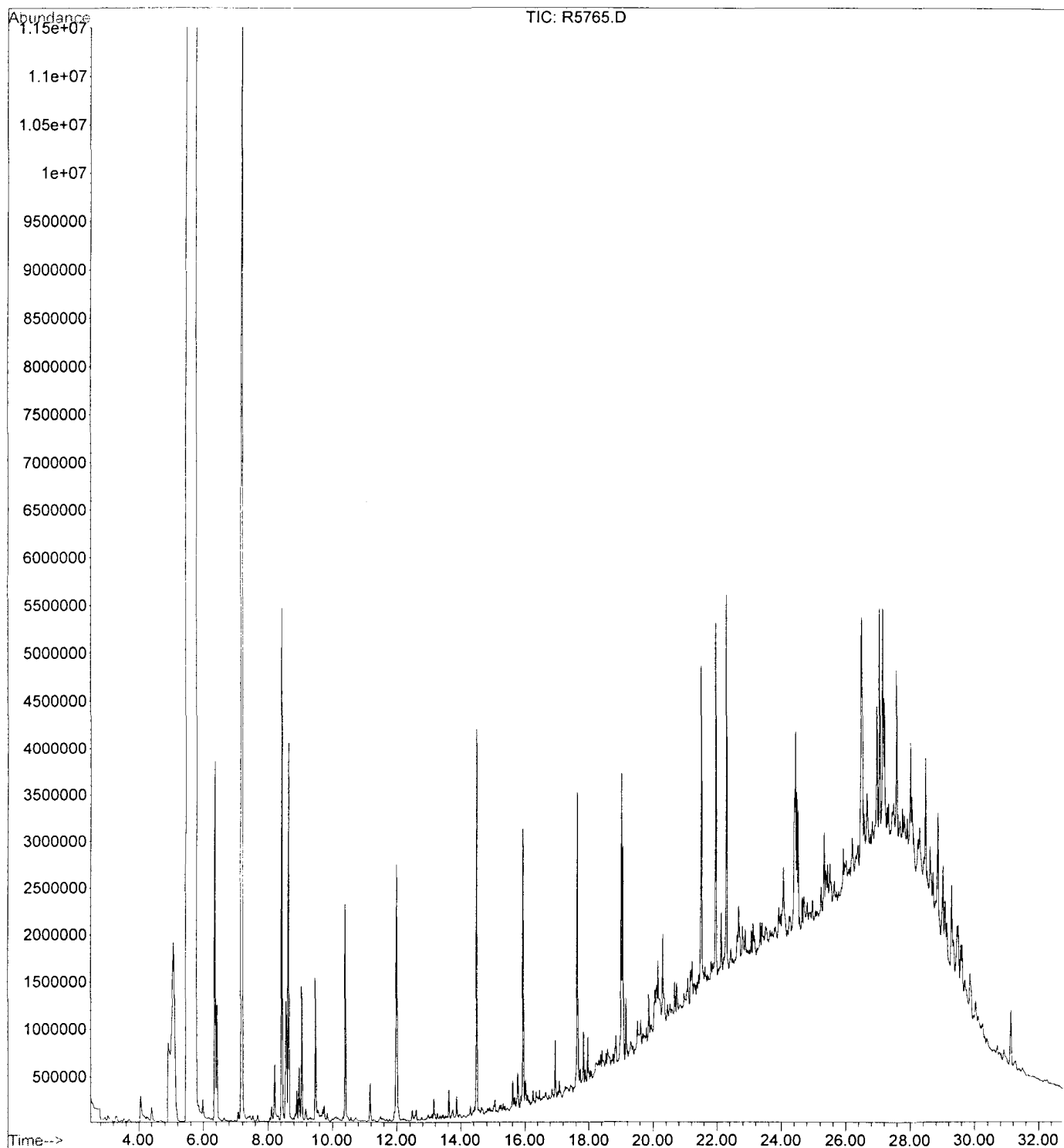
File : D:\HPCHEM\MSR\R5782.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 4:10 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-20  
Misc Info : SD12 (4.4-4.7) ; OLM ; 50 ; LLS ; SOIL  
Vial Number: 8



File : D:\HPCHEM\MSR\R5764.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 12:28 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-06  
Misc Info : SD13 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 19

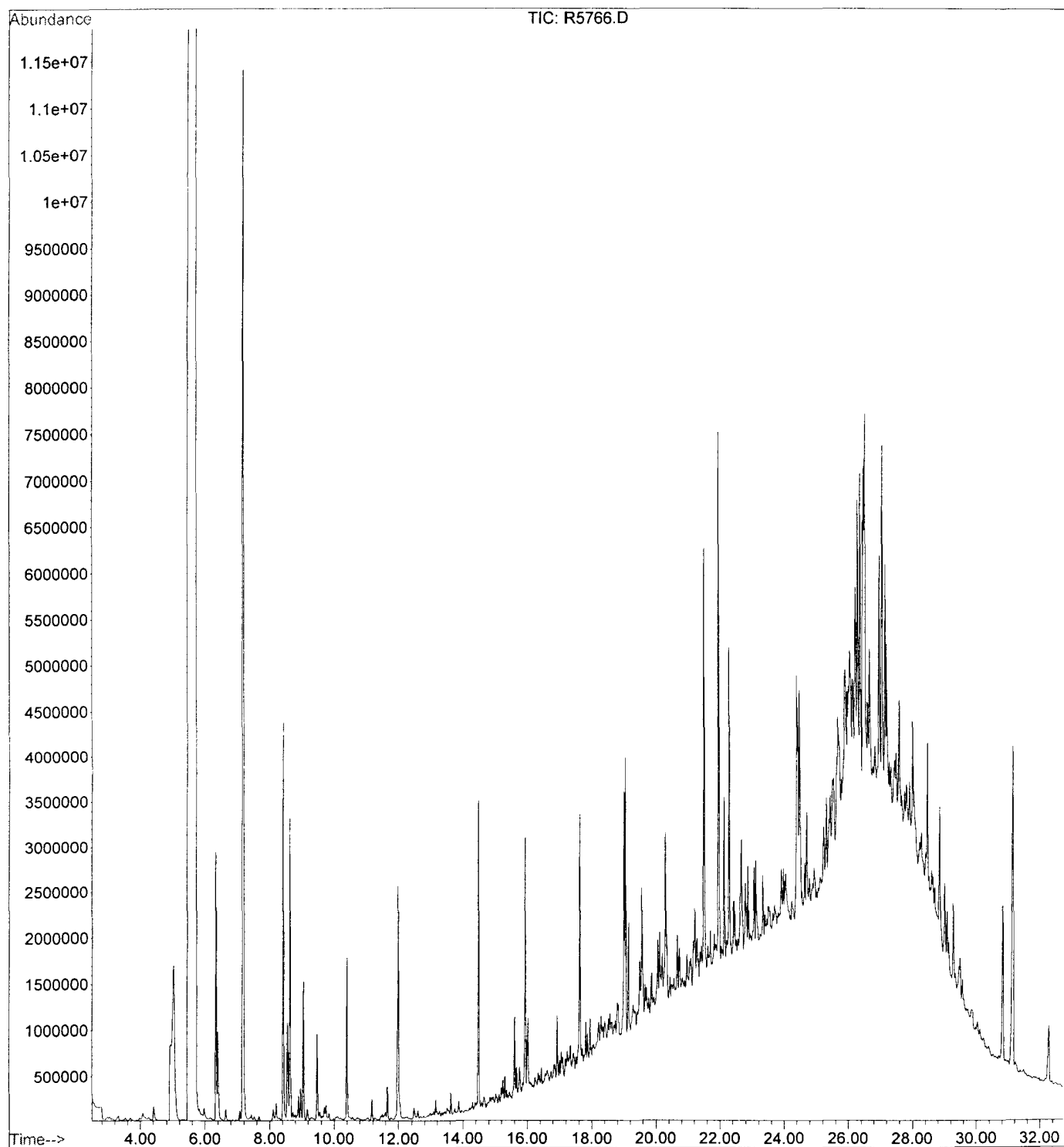


File : D:\HPCHEM\MSR\R5765.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 1:10 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-07  
Misc Info : SD13 (0.5-2.1) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 20

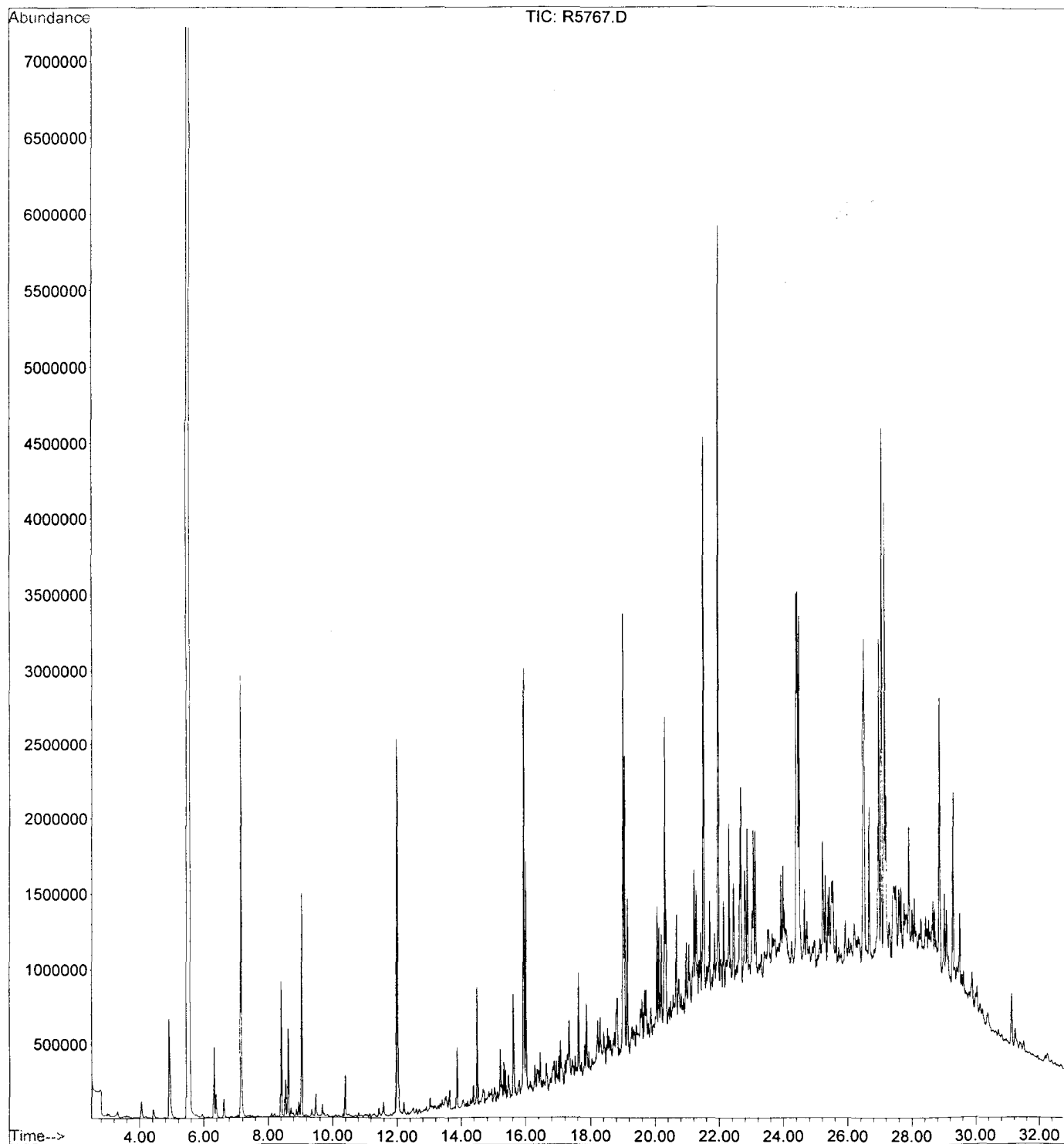




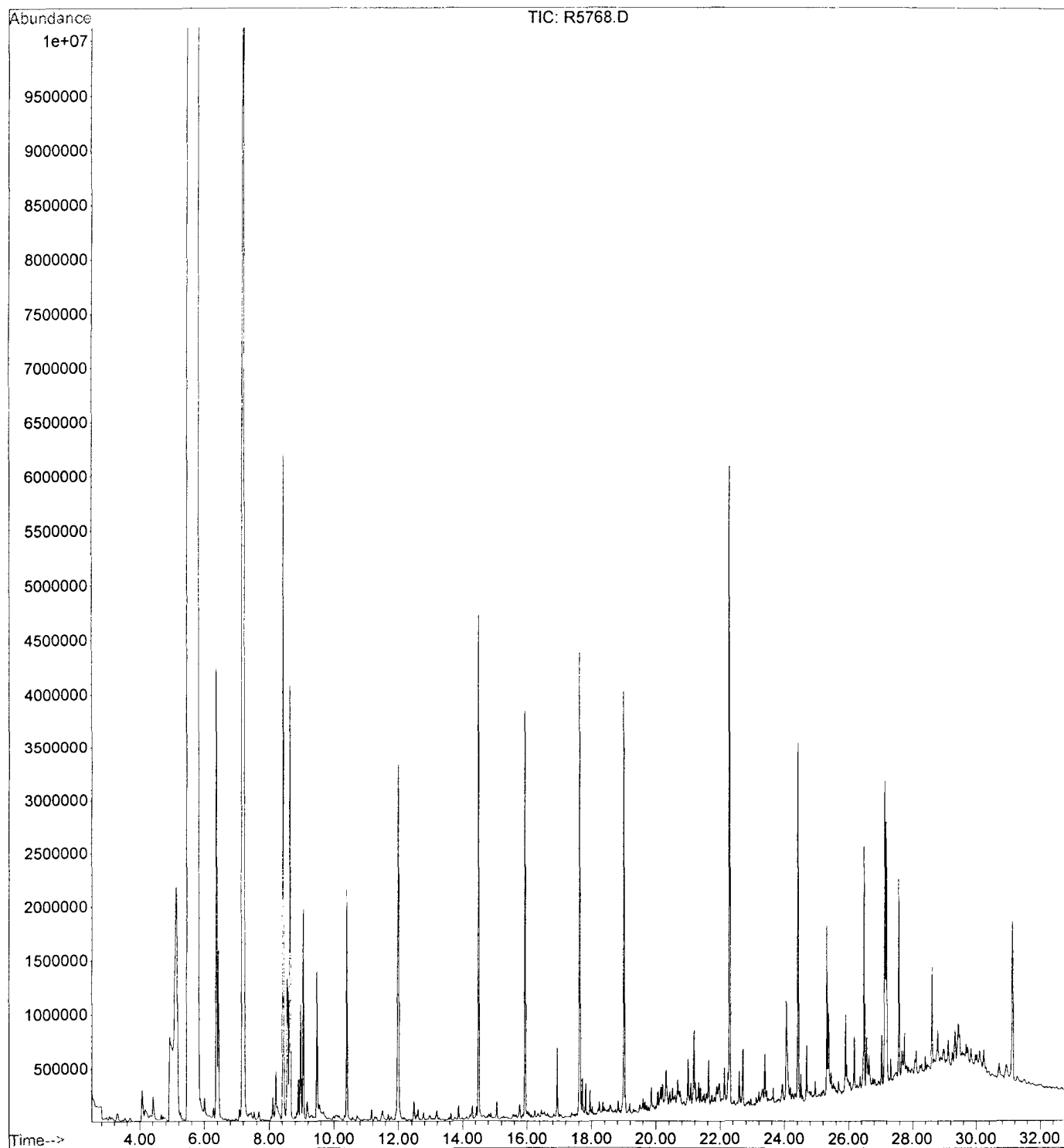
File : D:\HPCHEM\MSR\R5766.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 1:51 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-08  
Misc Info : SD14 (0.0-0.2); OLM ; 1 ; LLS ; SOIL  
Vial Number: 21



File : D:\HPCHEM\MSR\R5767.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 2:33 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-09  
Misc Info : SD14 (0.7-2.1) ; OLM ; 5 ; LLS ; SOIL  
Vial Number: 22

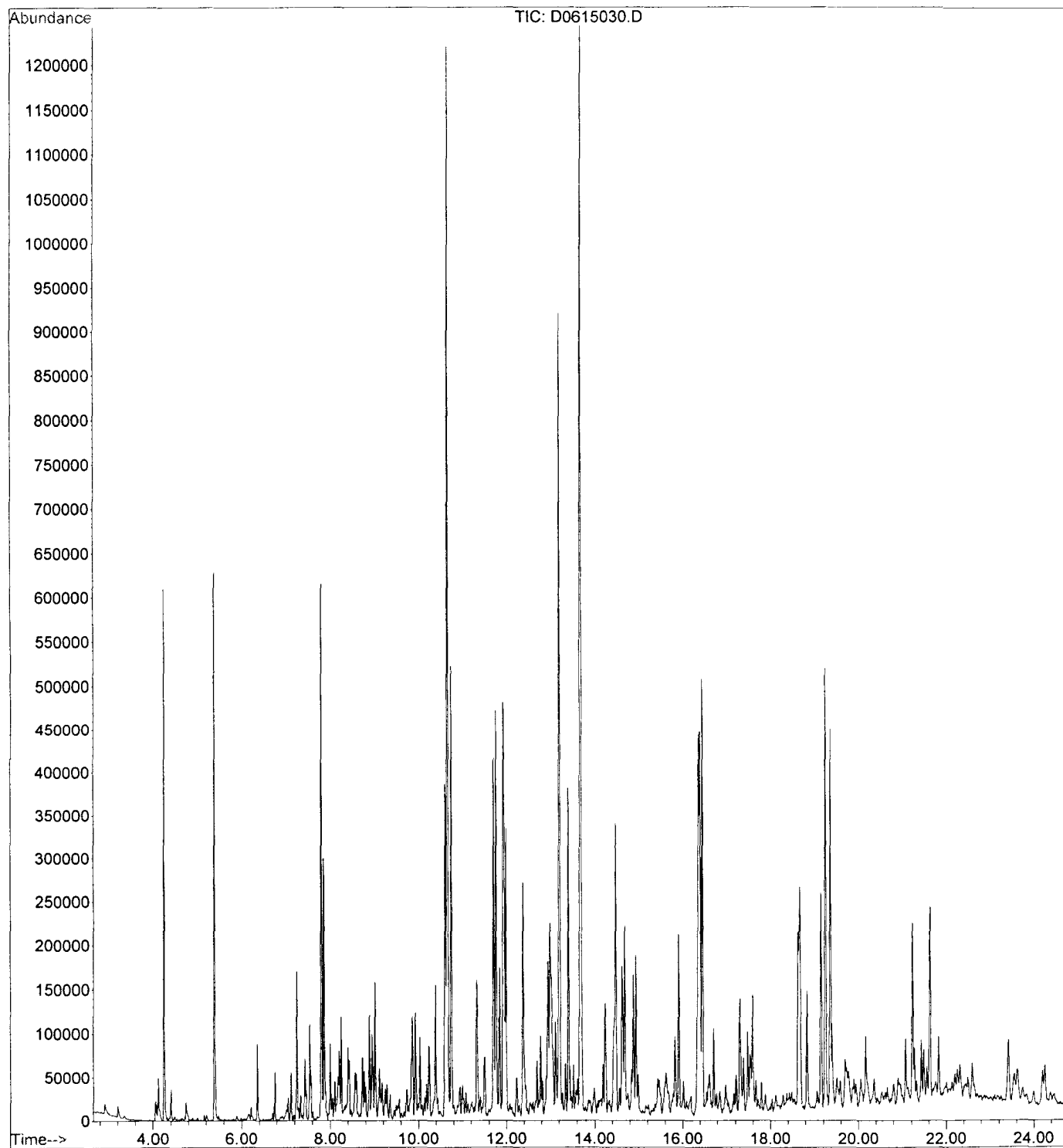


File : D:\HPCHEM\MSR\R5768.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 3:15 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-10  
Misc Info : SD14 (5.0-5.4) ; OLM ; 1; LLS ; SOIL  
Vial Number: 23



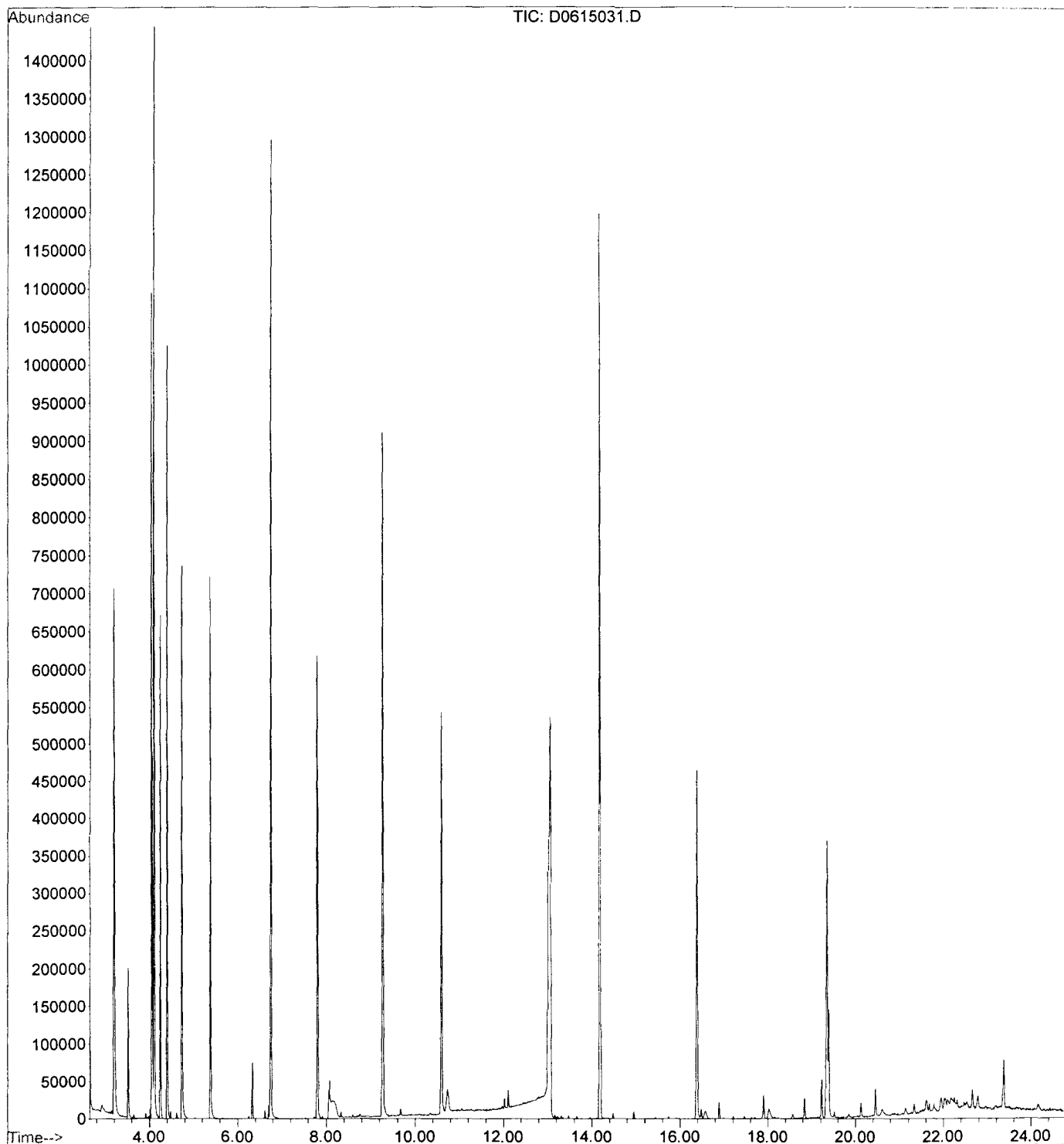
File : D:\NYACK\1NYACK\C1F070175\D0615030.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 3:55 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-003 20x soil 6/9/11 clp3.2  
Misc Info : eehhjlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 32

SD15 (0.2)



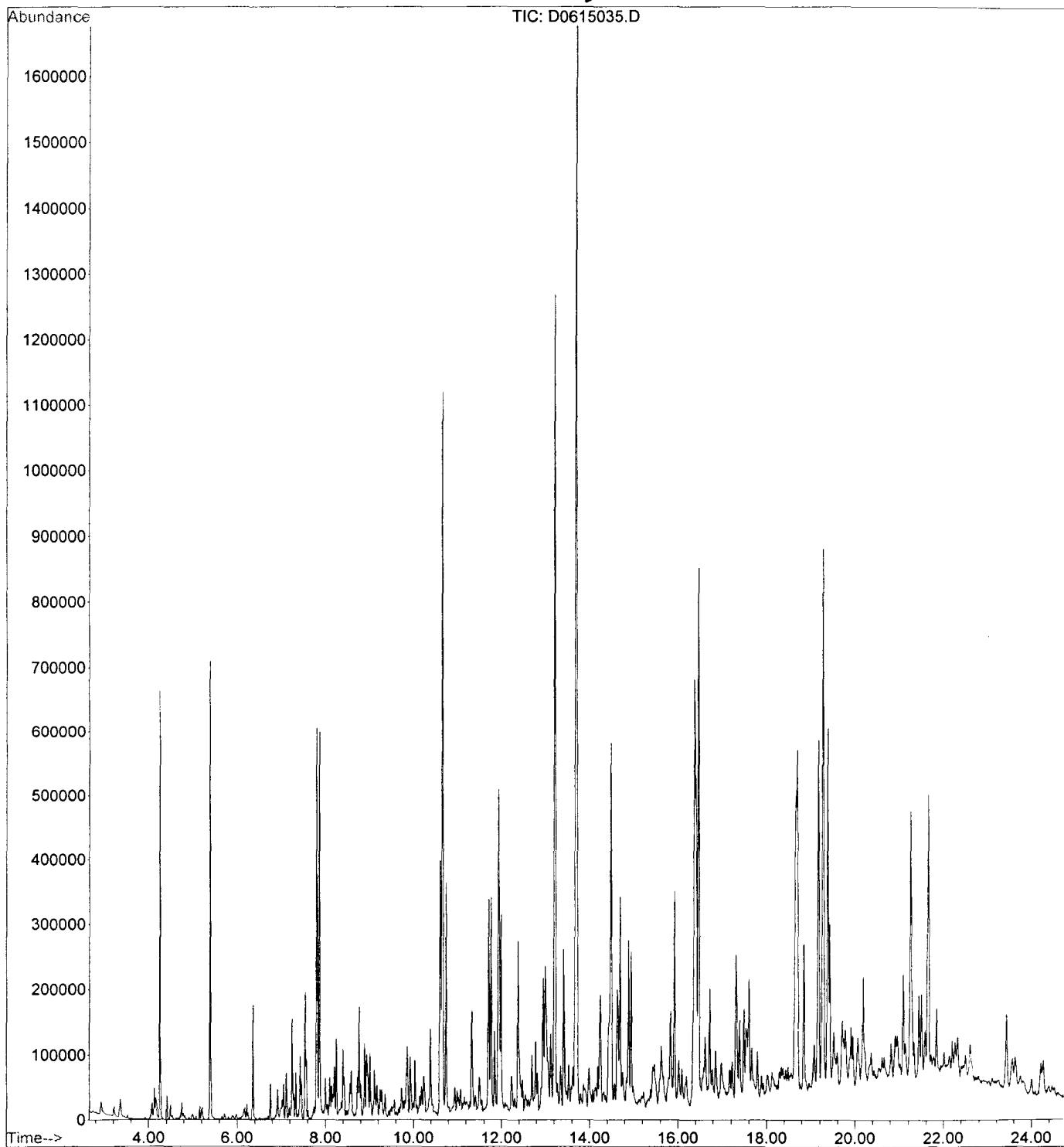
File : D:\NYACK\1NYACK\C1F070175\D0615031.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 4:25 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-004 soil 6/9/11 clp3.2  
Misc Info : eehhmlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 33

SD 15( 2.8-3.5)



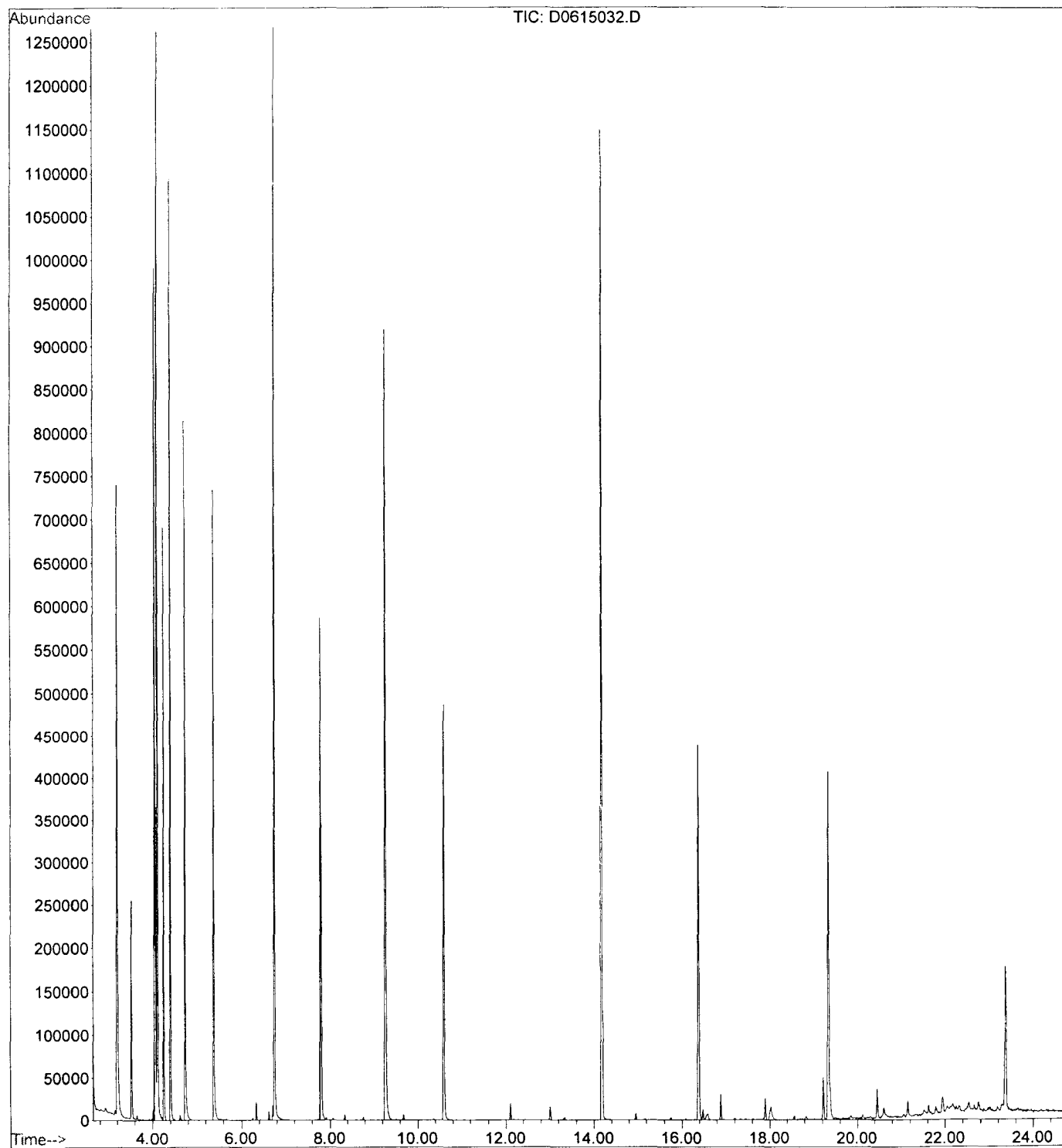
File : D:\NYACK\1NYACK\C1F070175\D0615035.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 6:28 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-008 20x soil 6/9/11 clp3.2  
Misc Info : eehh41ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 37

SD16 (0-2)



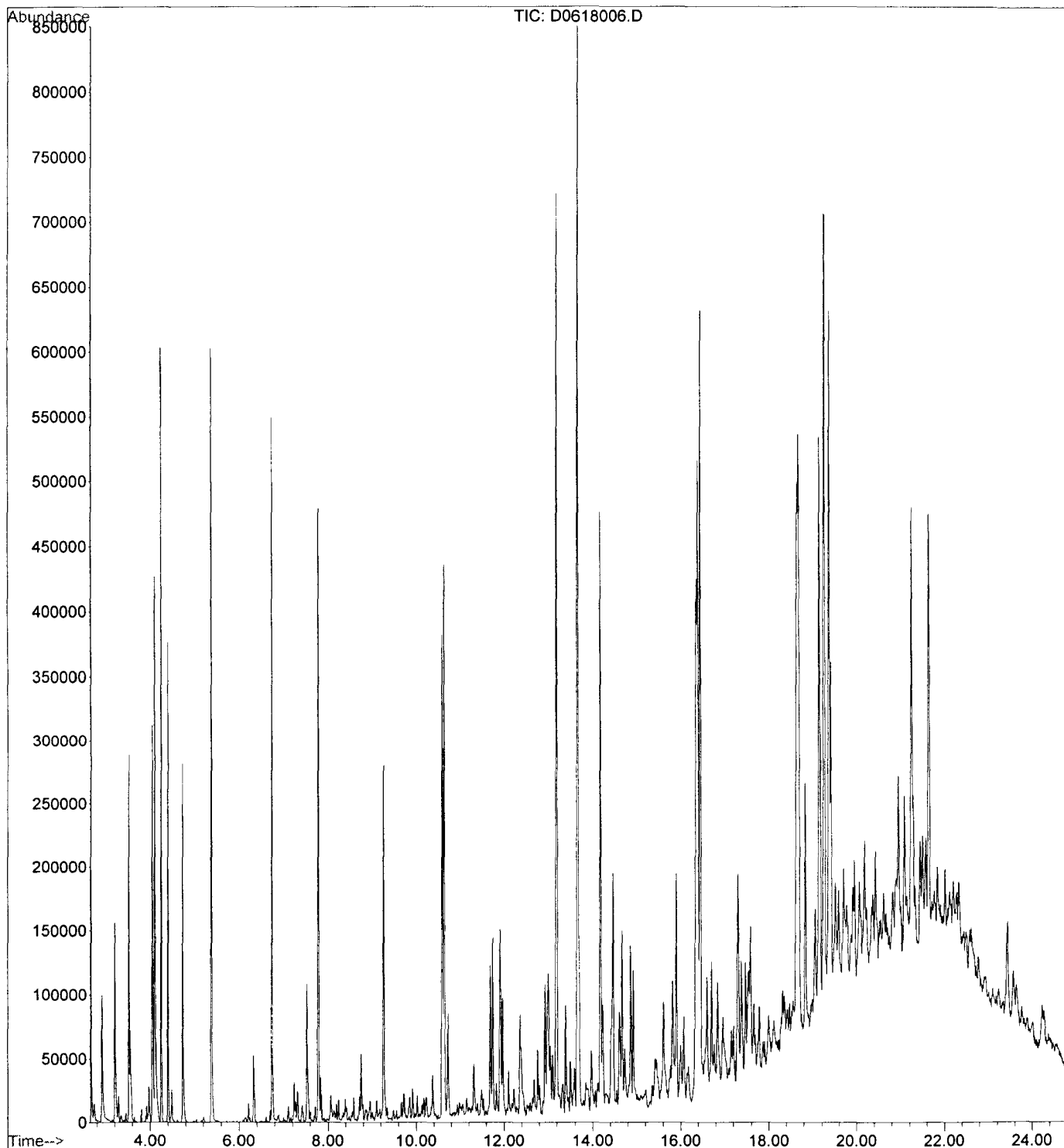
File : D:\NYACK\1NYACK\C1F070175\D0615032.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 4:56 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-005 soil 6/9/11 clp3.2  
Misc Info : eehhp1ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 34

SD16 (3.5 - 4.5)



File : D:\NYACK\1NYACK\C1F070175\D0618006.D  
Operator : 001562, DLF  
Acquired : 18 Jun 2001 3:33 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-009 2x soil 6/9/11 clp3.2  
Misc Info : eehh91af,d061801p.b,clp.m,1-3.1.sub  
Vial Number: 8

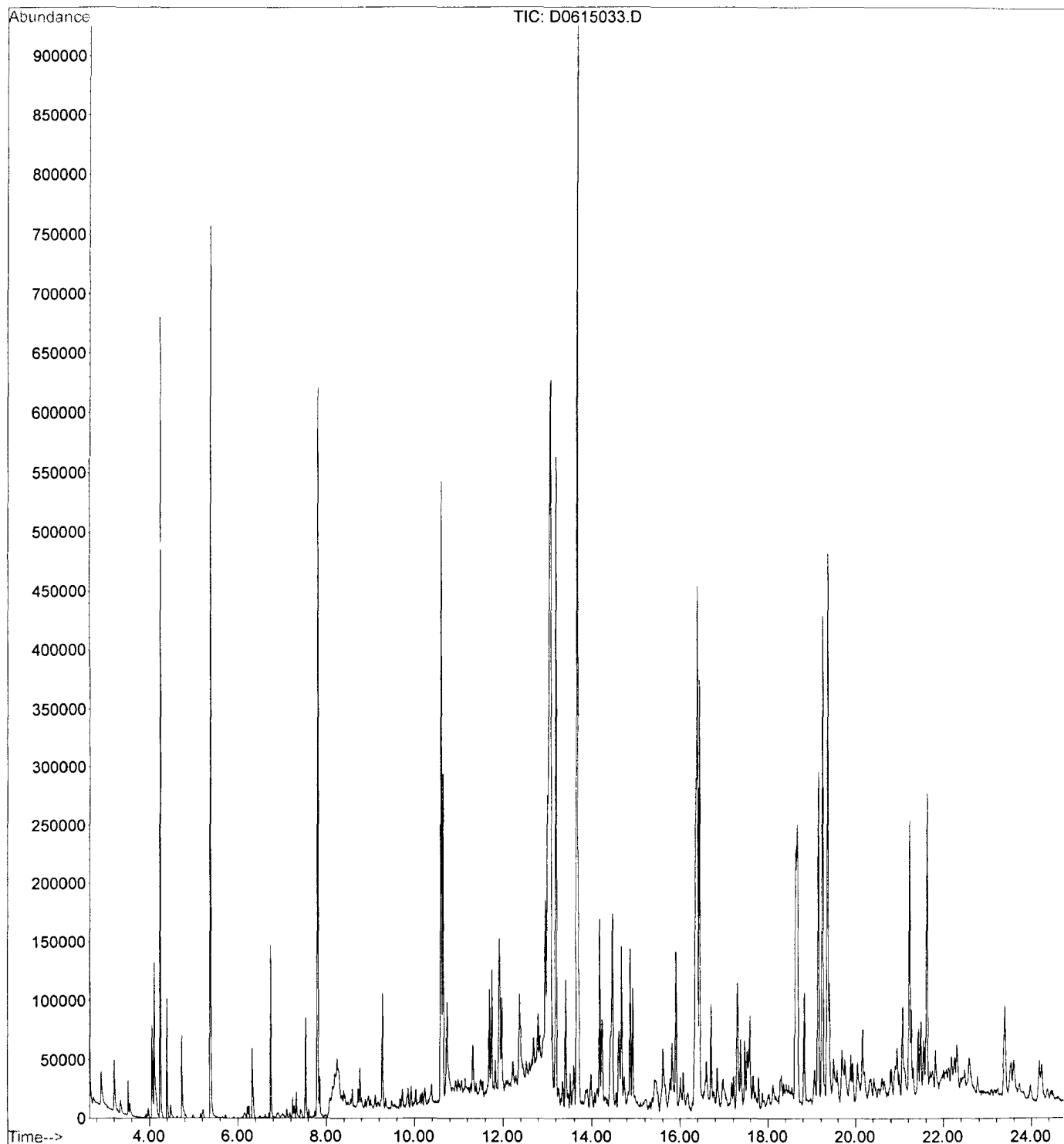
SD17 (0-2)





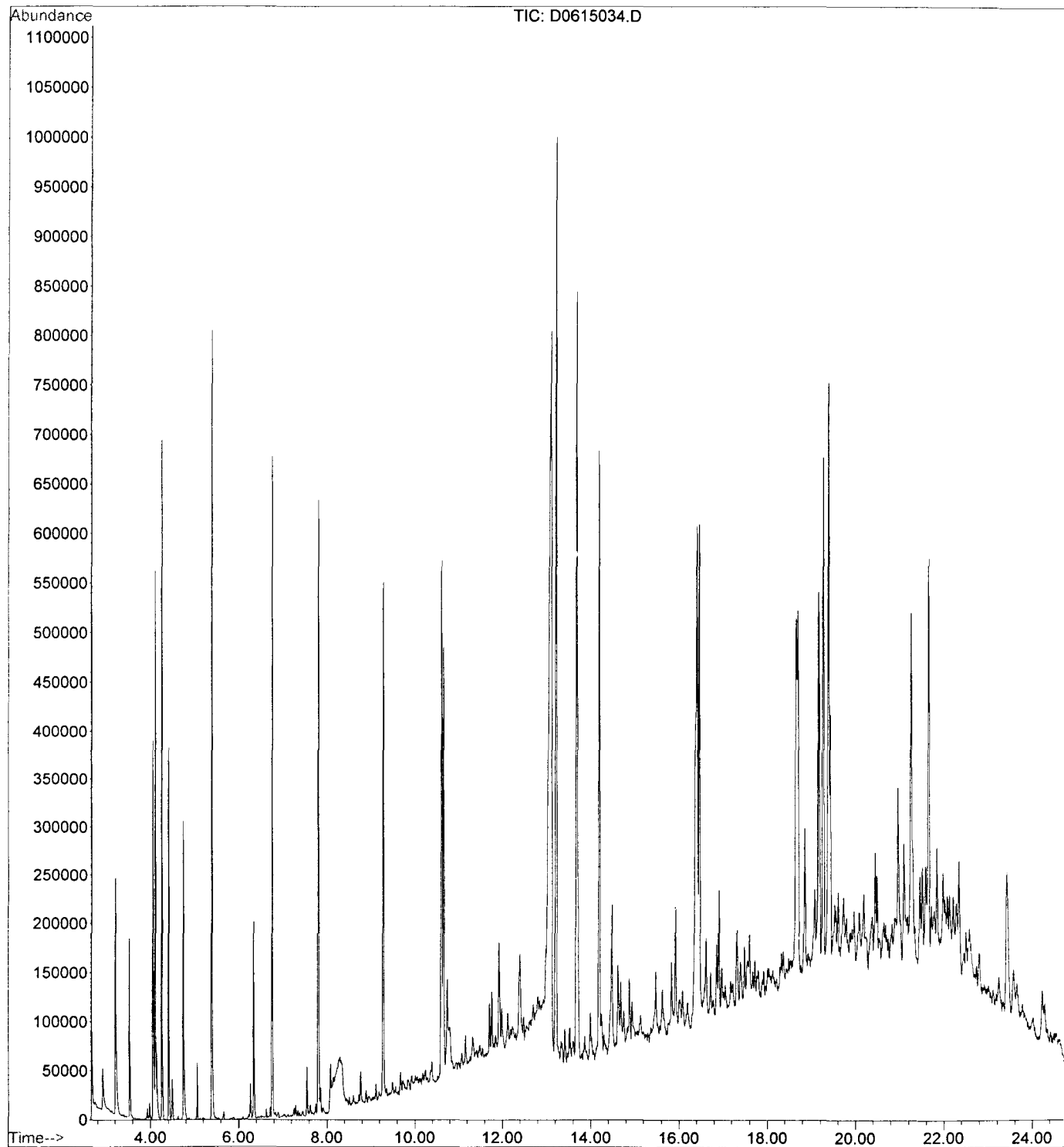
File : D:\NYACK\1NYACK\C1F070175\D0615033.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 5:27 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-006 5x soil 6/9/11 clp3.2  
Misc Info : eehv1ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 35

SD17 (2-4)



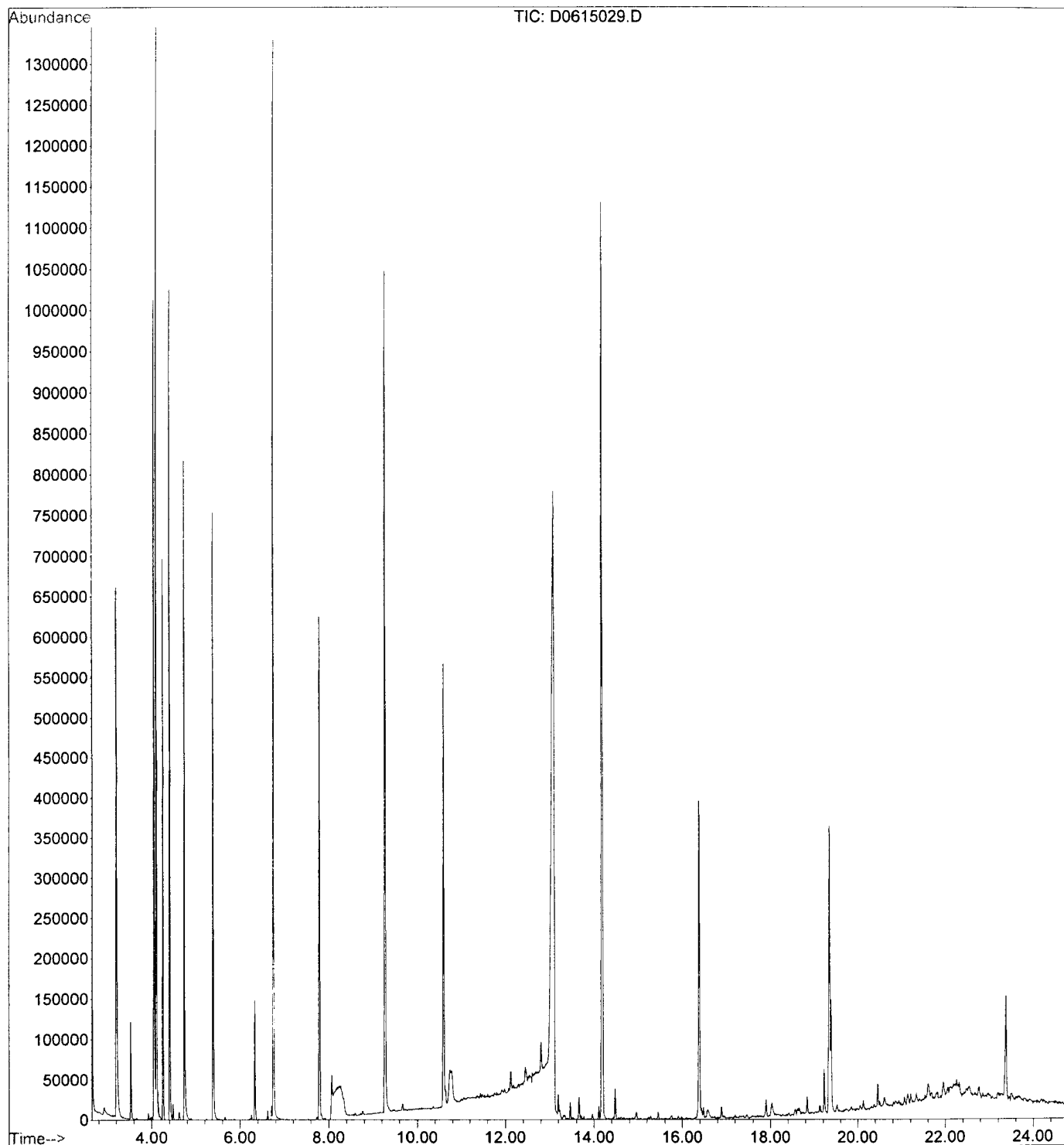
File : D:\NYACK\1NYACK\C1F070175\D0615034.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 5:57 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-007 2x soil 6/9/11 clp3.2  
Misc Info : eehh01ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 36

SD18(0-2)



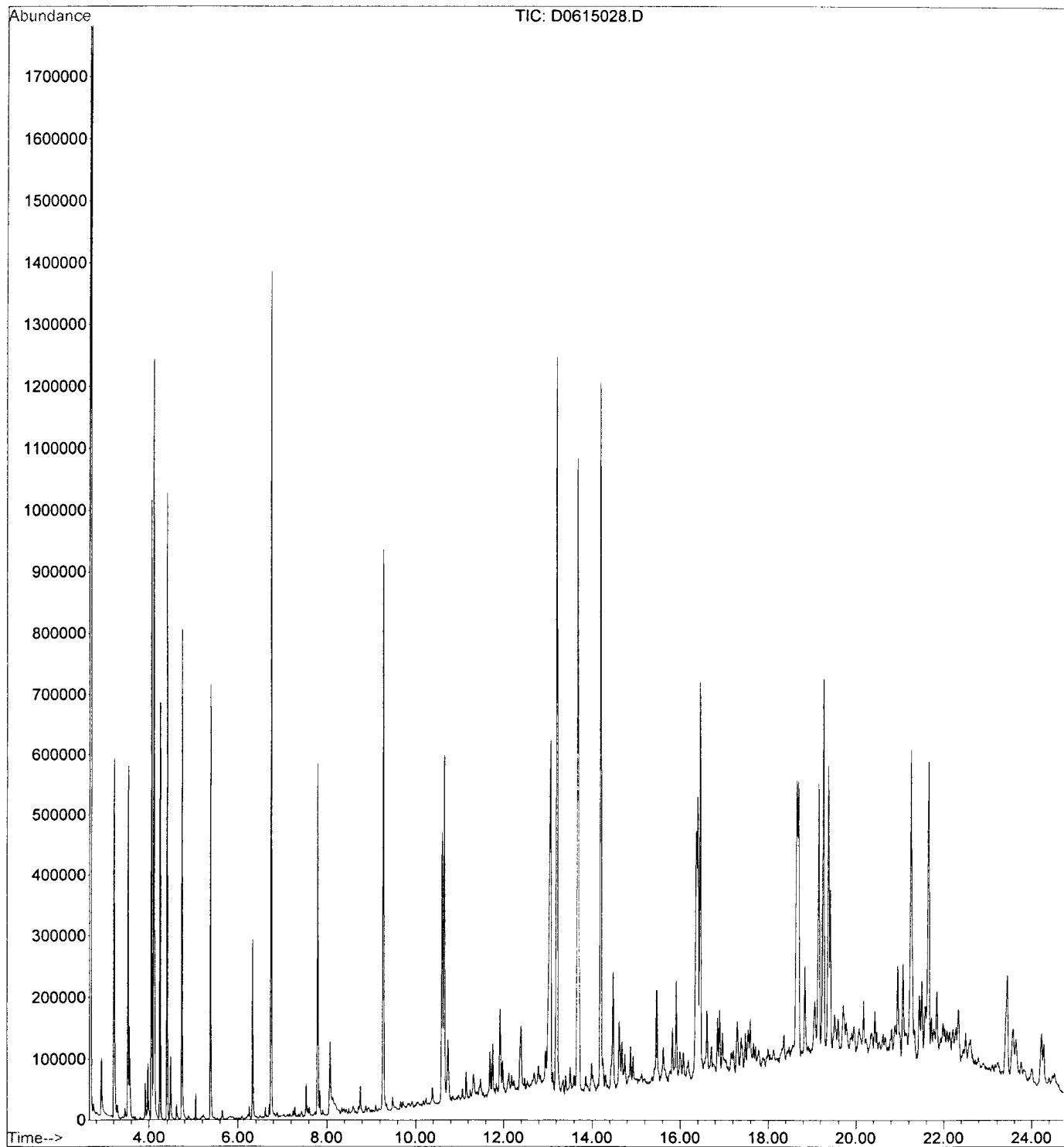
File : D:\NYACK\1NYACK\C1F070175\D0615029.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 3:24 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-002 soil 6/9/11 clp3.2  
Misc Info : eehf1ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 31

SD18(4.3-4.5)



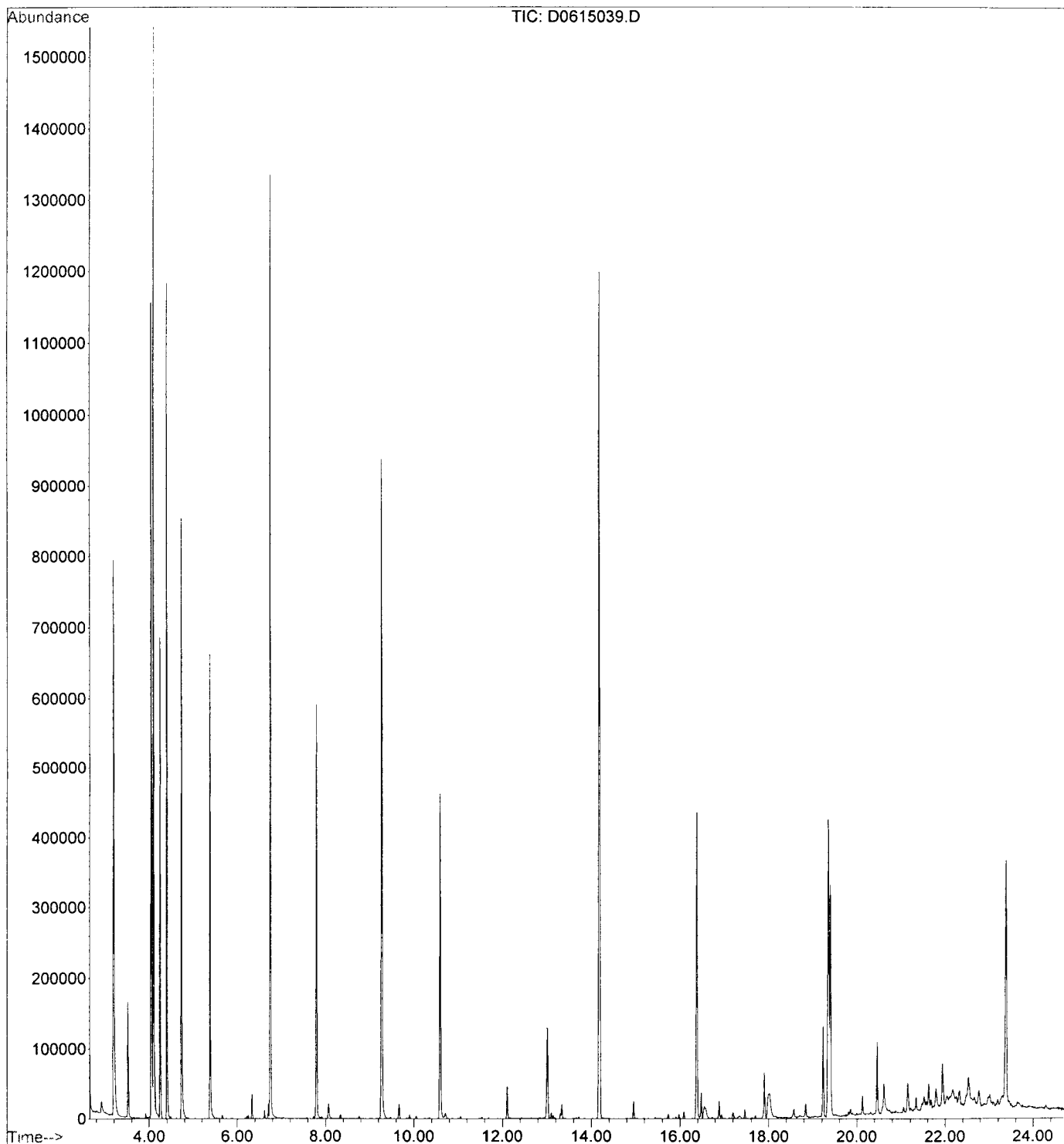
File : D:\NYACK\1NYACK\C1F070175\D0615028.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 2:53 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-001 soil 6/9/11 clp3.2  
Misc Info : eehgx1ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 30

SD19 (0-2)

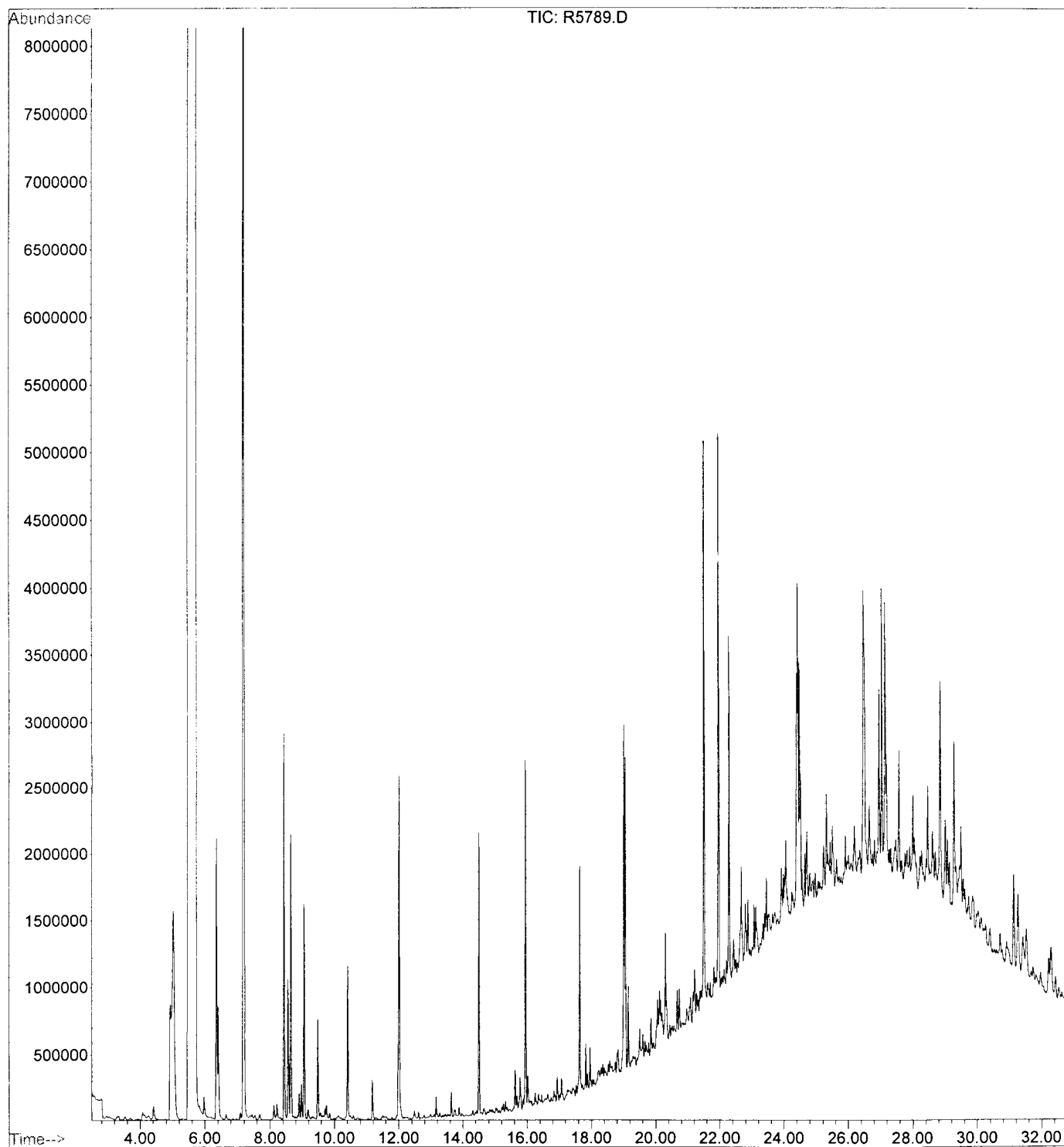


File : D:\NYACK\1NYACK\C1F070175\D0615039.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 8:31 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-010 soil 6/9/11 clp3.2  
Misc Info : eehjfiad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 41

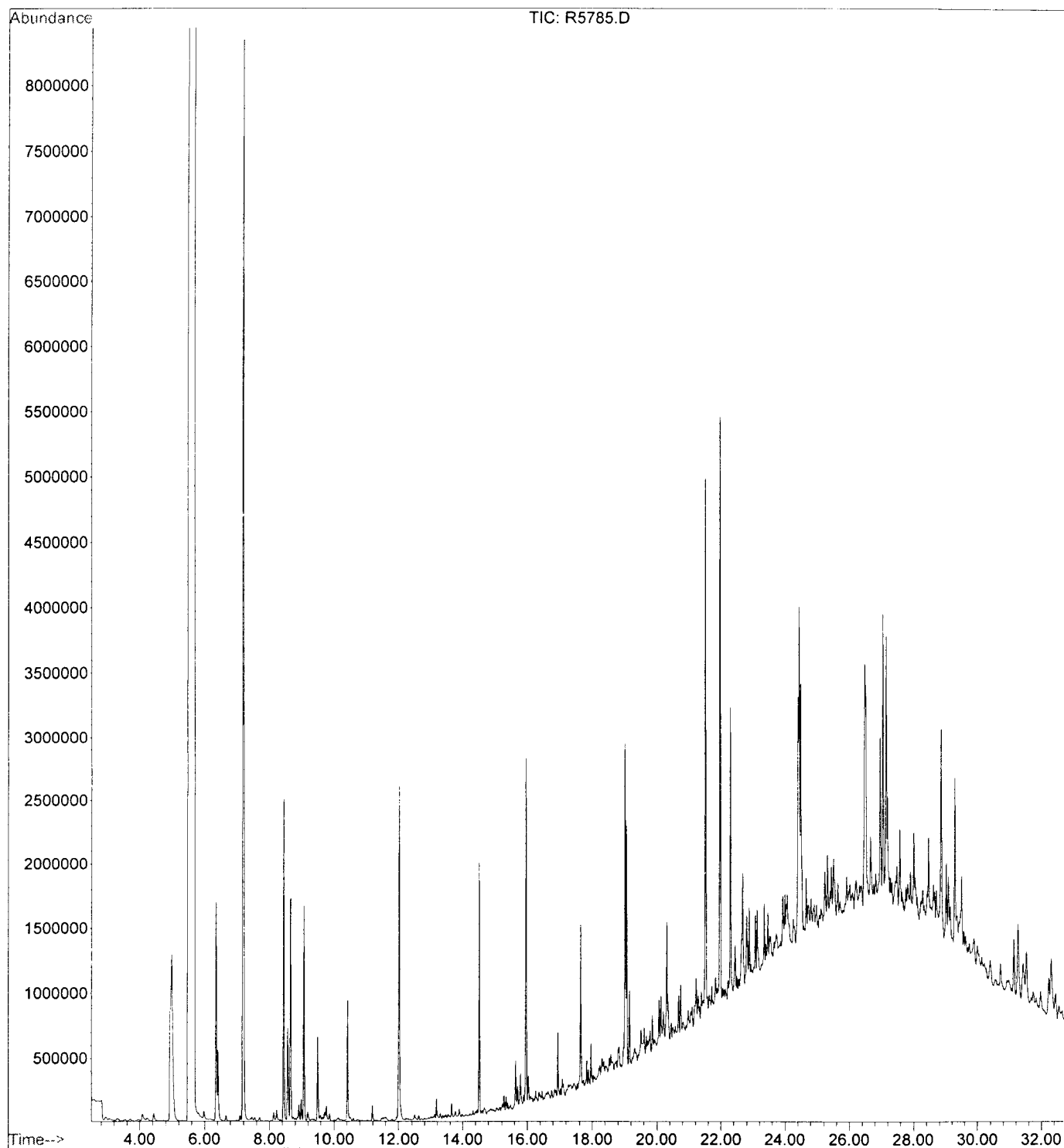
SD19 (6.3 - 7.0)



File : D:\HPCHEM\MSR\R5789.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 9:03 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-13  
Misc Info : SD2 (0.0-0.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 15

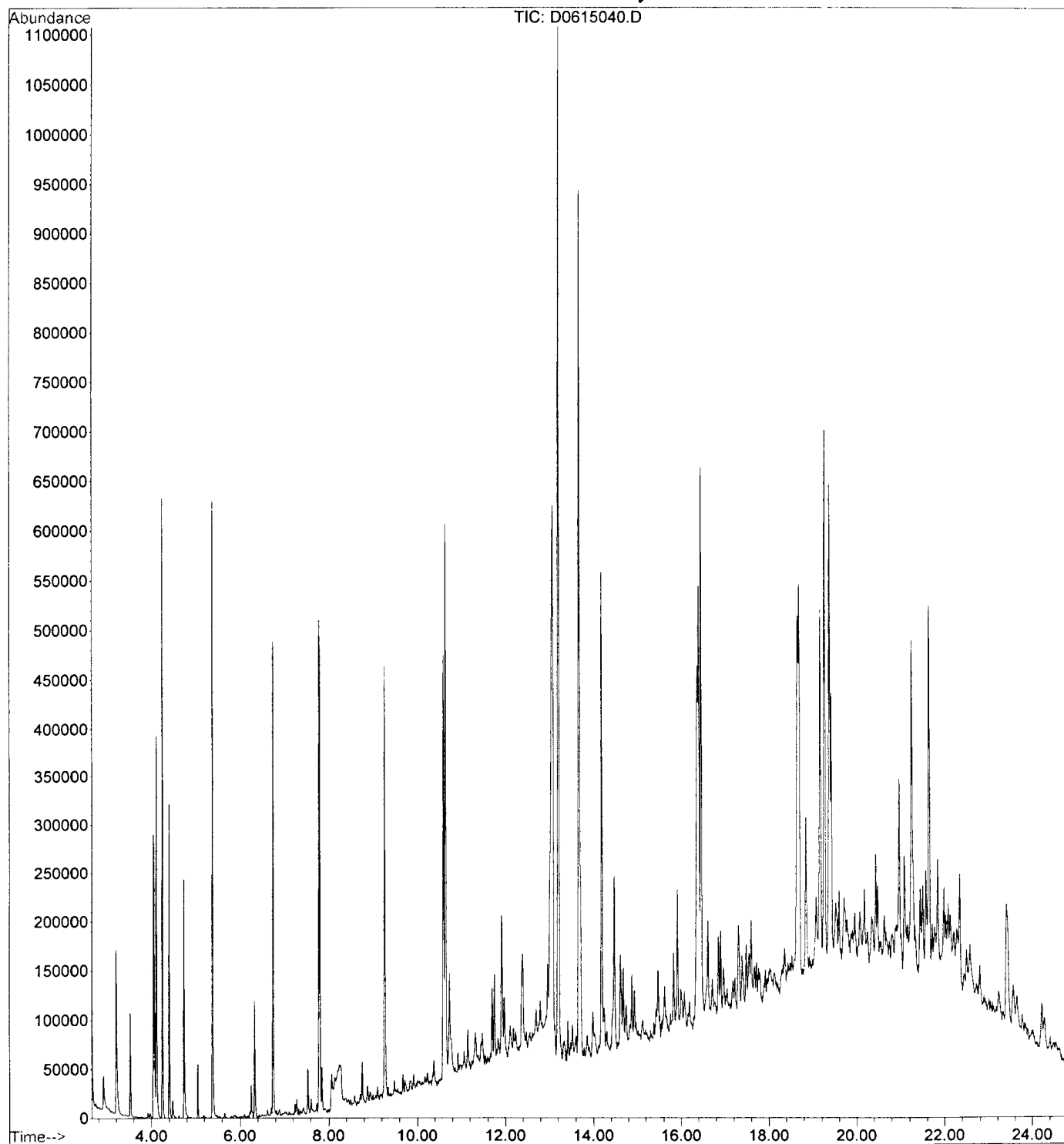


File : D:\HPCHEM\MSR\R5785.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 6:16 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-03  
Misc Info : SD2 (0.2-2.0) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 11



File : D:\NYACK\1NYACK\C1F070175\D0615040.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 9:02 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-011 2x soil 6/9/11 clp3.2  
Misc Info : eehjhlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 42

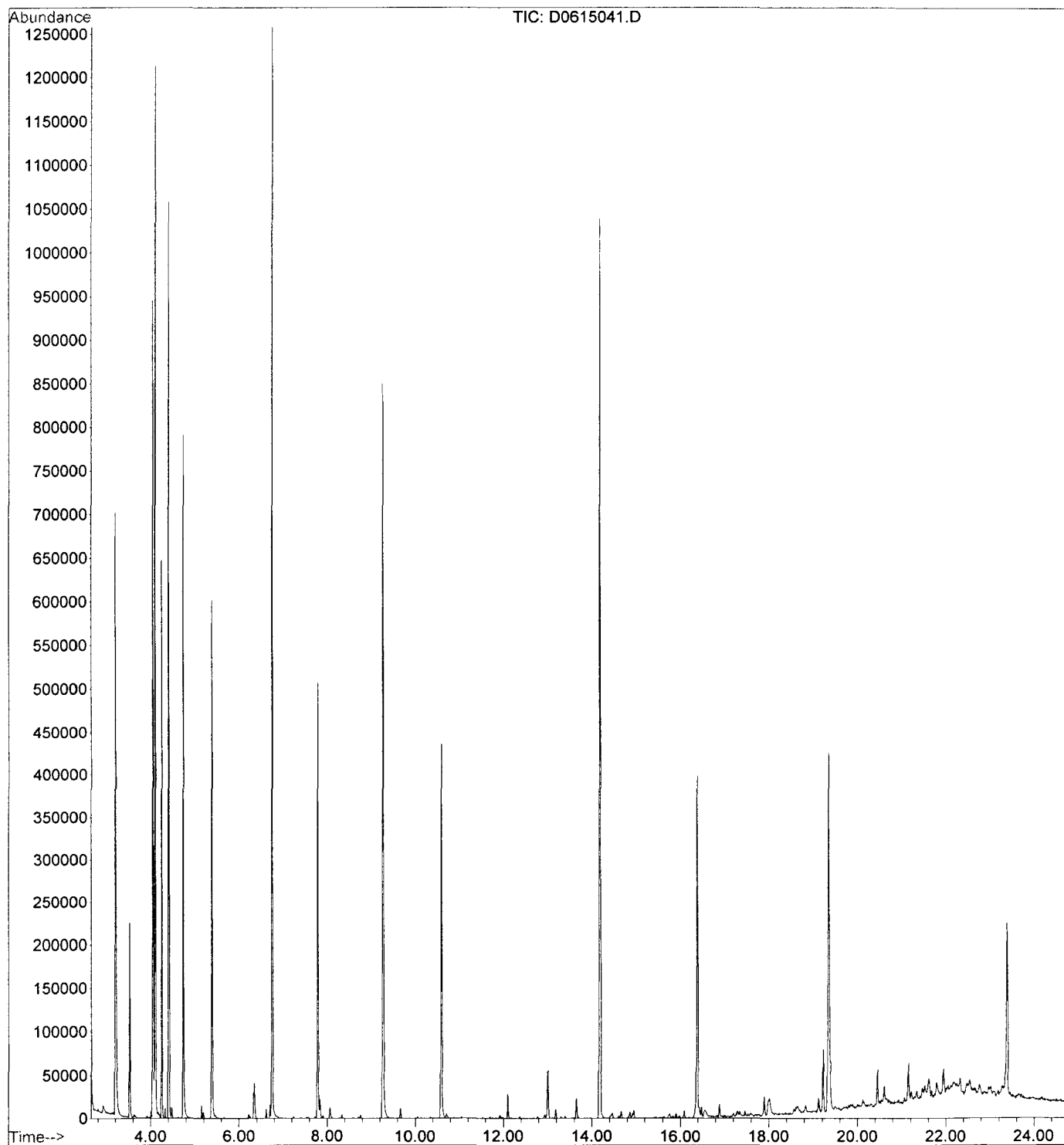
SD20(0-2)





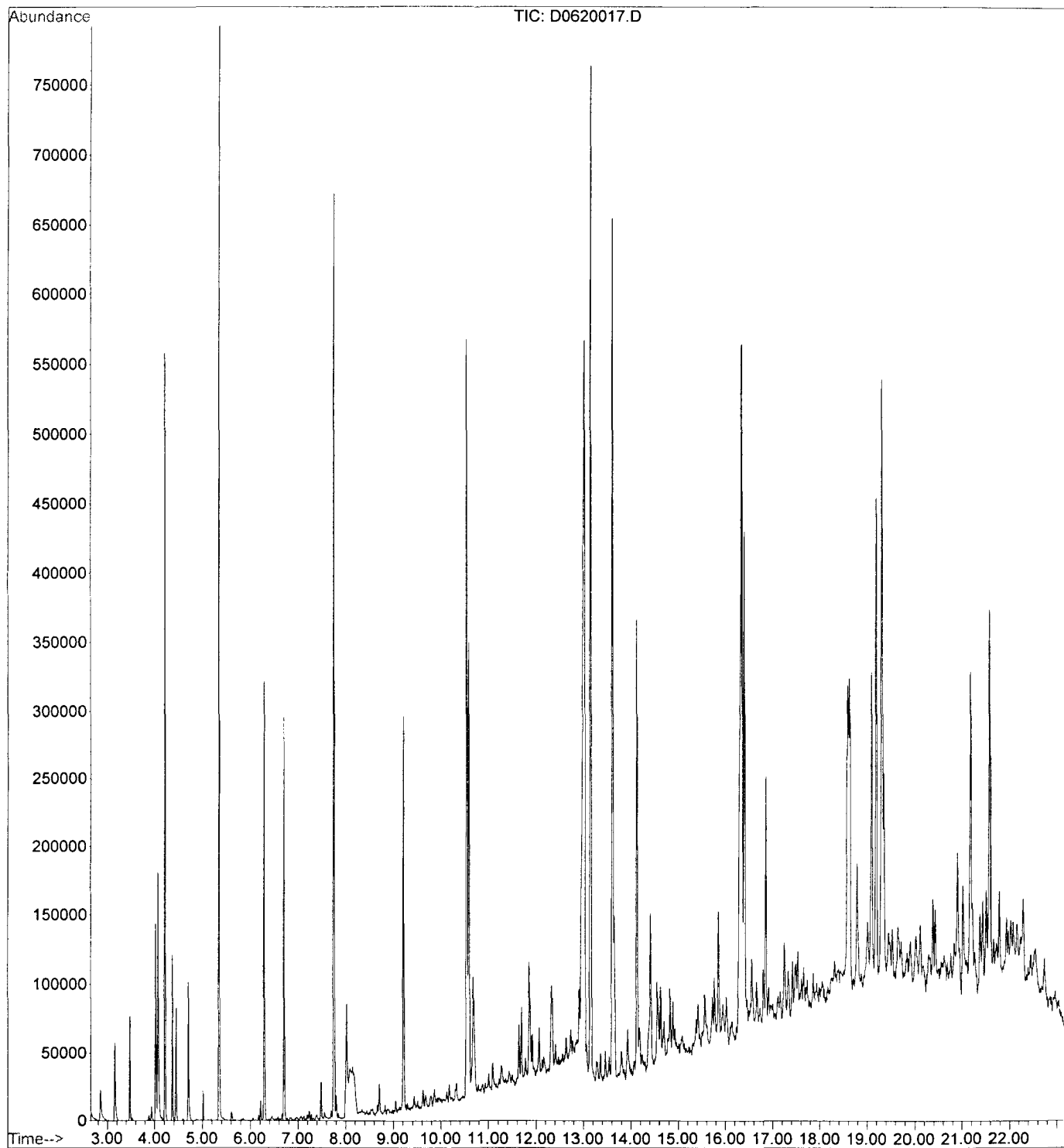
File : D:\NYACK\1NYACK\C1F070175\D0615041.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 9:32 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-012 soil 6/9/11 clp3.2  
Misc Info : eehjjlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 43

SD20(5.2-6.3)



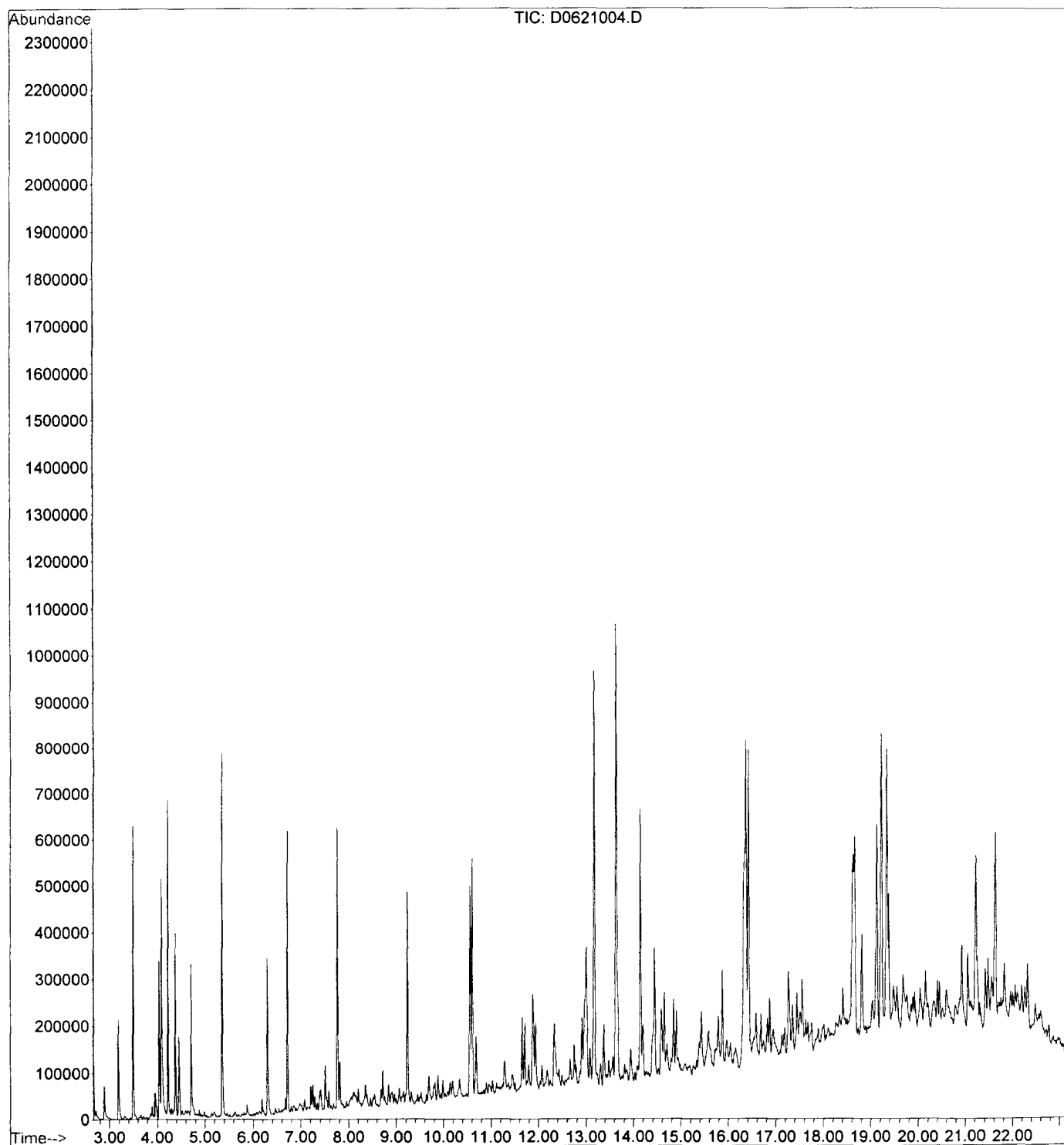
File : D:\NYACK\1NYACK\C1F070229\D0620017.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 8:52 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-011 4x soil 6/11/01 clp3.2  
Misc Info : eeh351af,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 19

5721 (c-2)



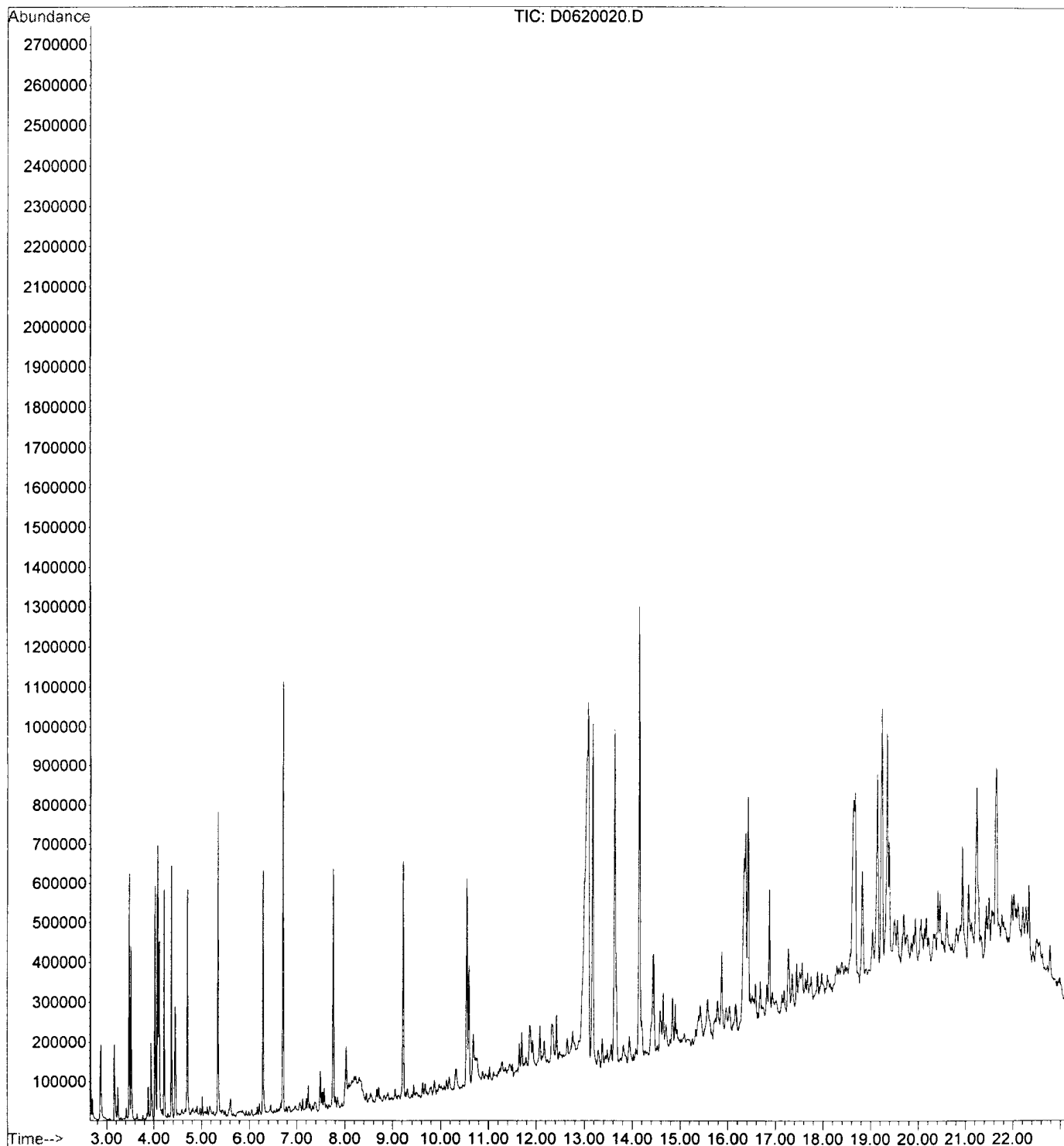
File : D:\NYACK\1NYACK\C1F070229\D0621004.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 3:14 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-010 2x soil 6/11/01 clp3.2  
Misc Info : eeh321ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 6

SD 21 (6-7)



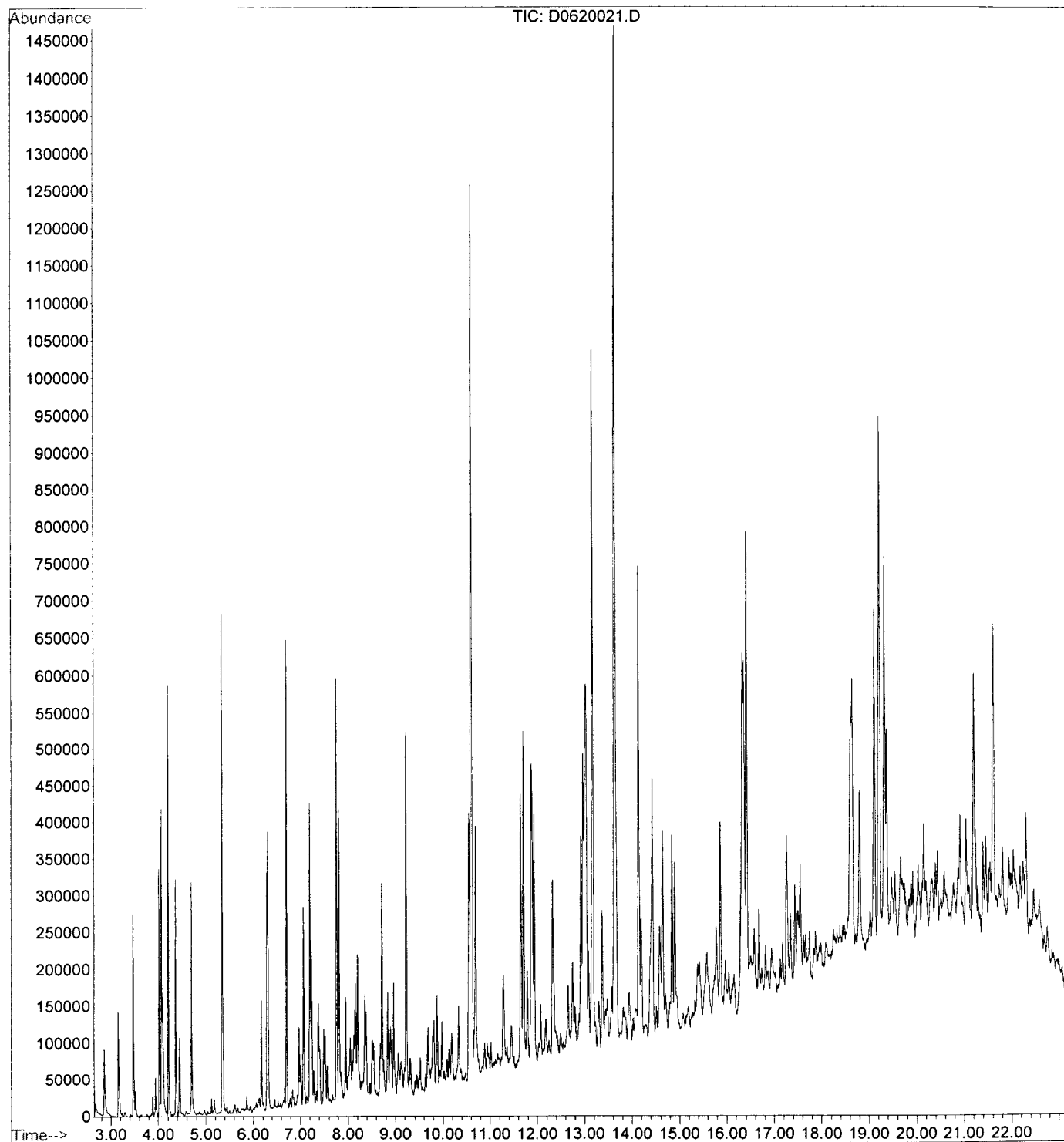
File : D:\NYACK\1NYACK\C1F070229\D0620020.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 10:19 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-012 soil 6/11/01 clp3.2  
Misc Info : eeh4elad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 22

SD22 (0-2)



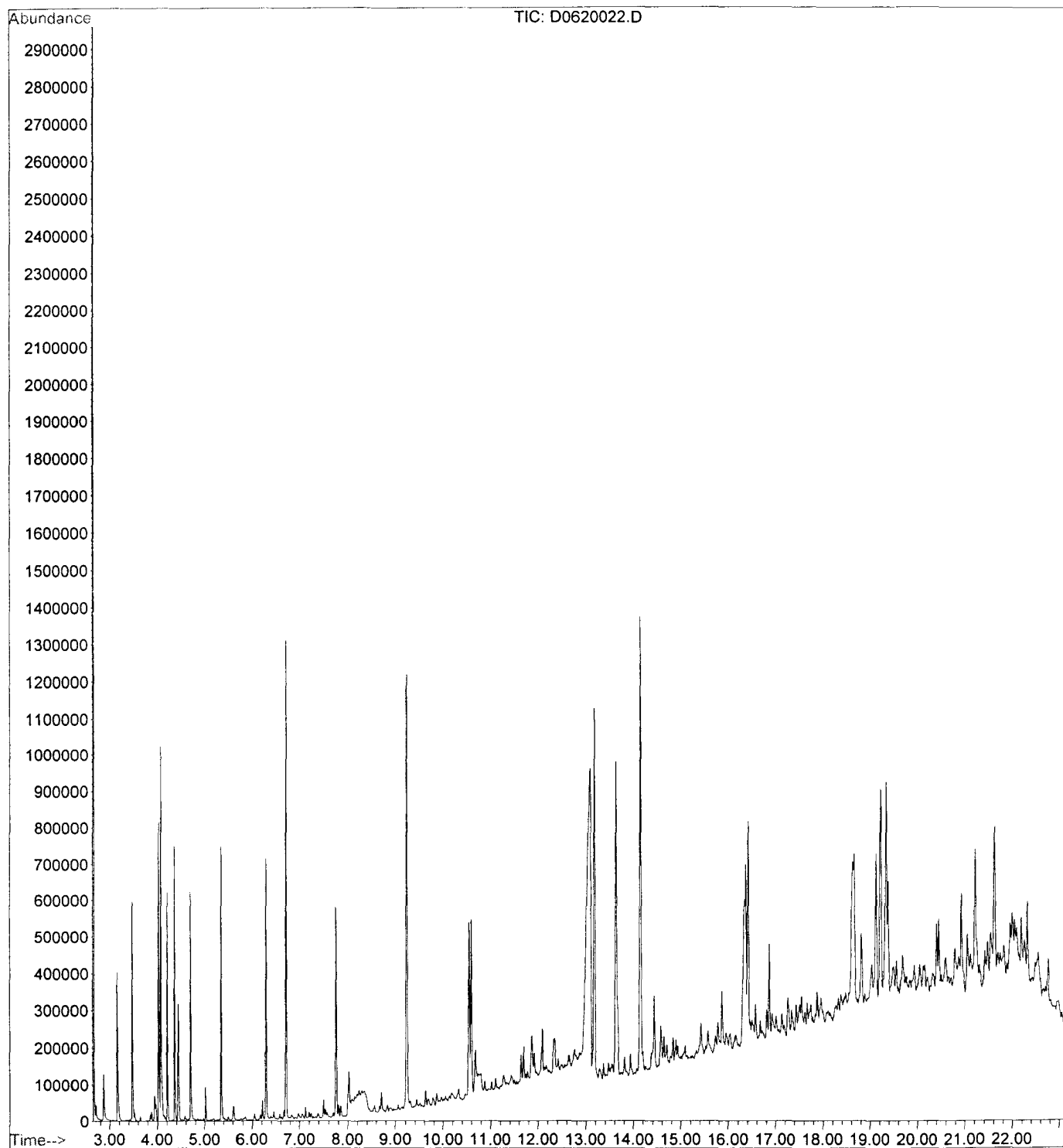
File : D:\NYACK\1NYACK\C1F070229\D0620021.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 10:48 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-013 2x soil 6/11/01 clp3.2  
Misc Info : eeh4glad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 23

SD 22 (4.9-6.0)



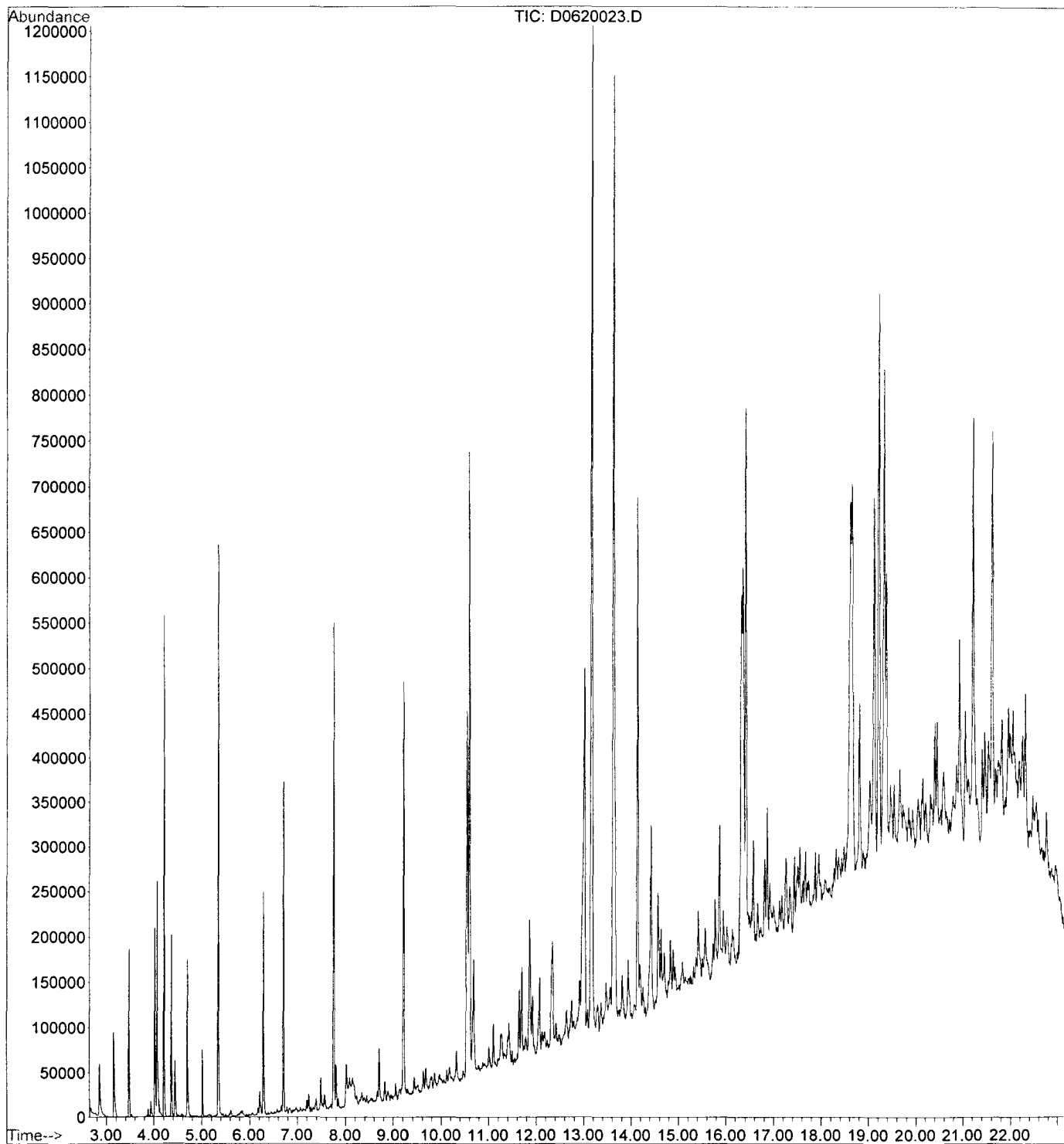
File : D:\NYACK\1NYACK\C1F070229\D0620022.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 11:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-014 soil 6/11/01 clp3.2  
Misc Info : eeh4jlad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 24

SD 23(0-2)



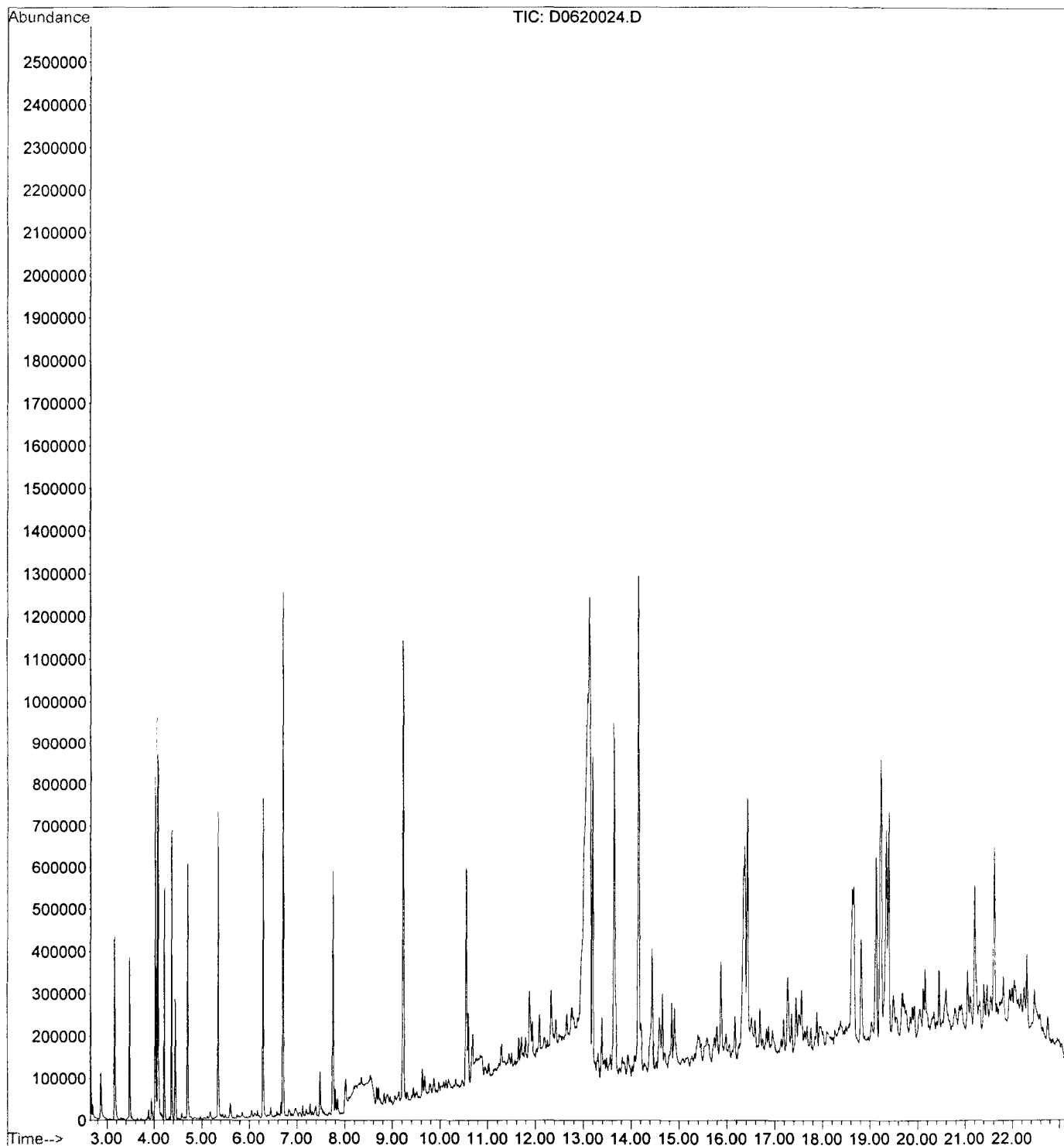
File : D:\NYACK\1NYACK\C1F070229\D0620023.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 11:46 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-015 2x soil 6/11/01 clp3.2  
Misc Info : eeh411ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 25

SD 23 (3-4)



File : D:\NYACK\1NYACK\C1F070229\D0620024.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 12:15 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-016 soil 6/11/01 clp3.2  
Misc Info : eeh4mlad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 26

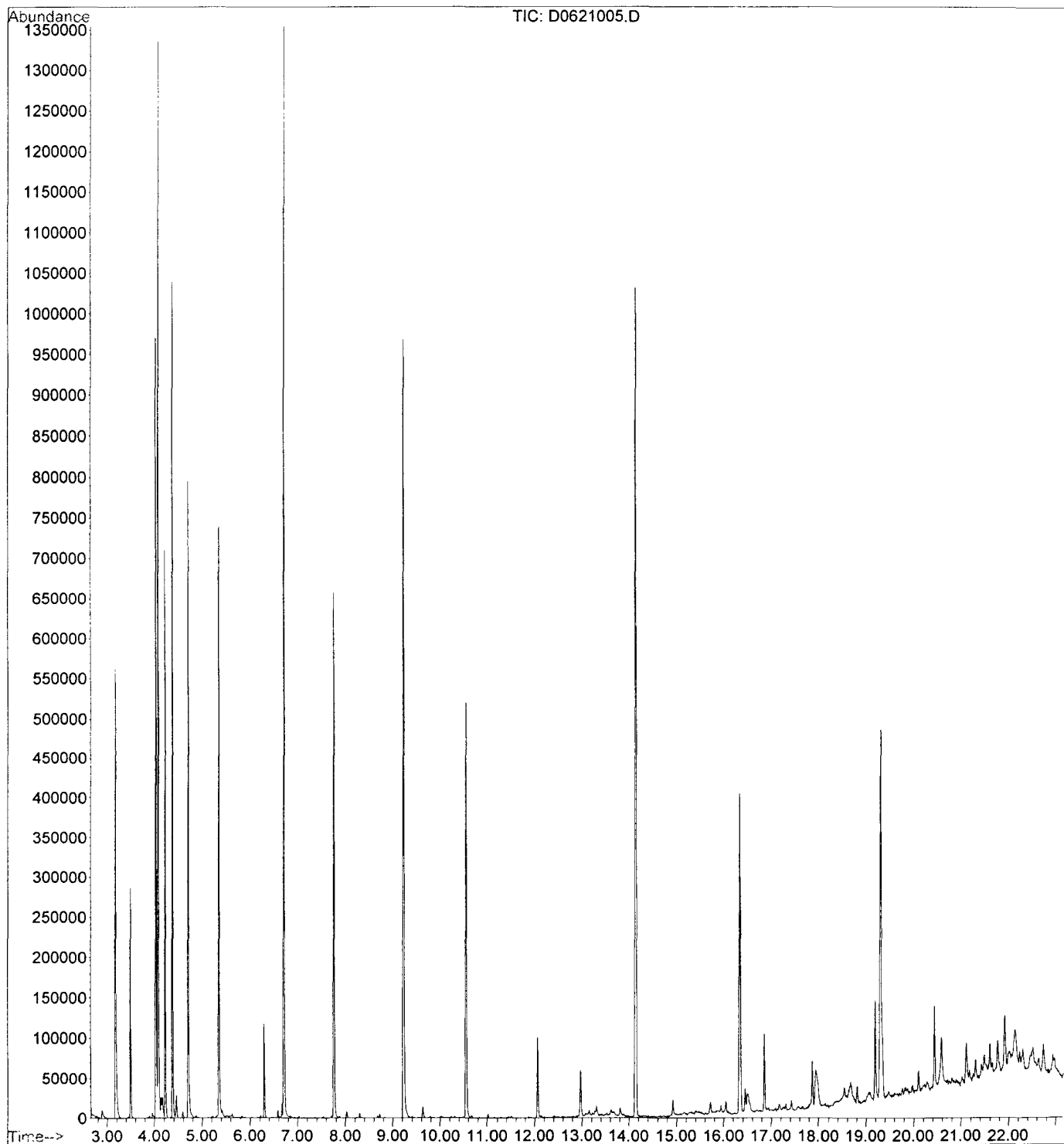
SD 24 (0-2)





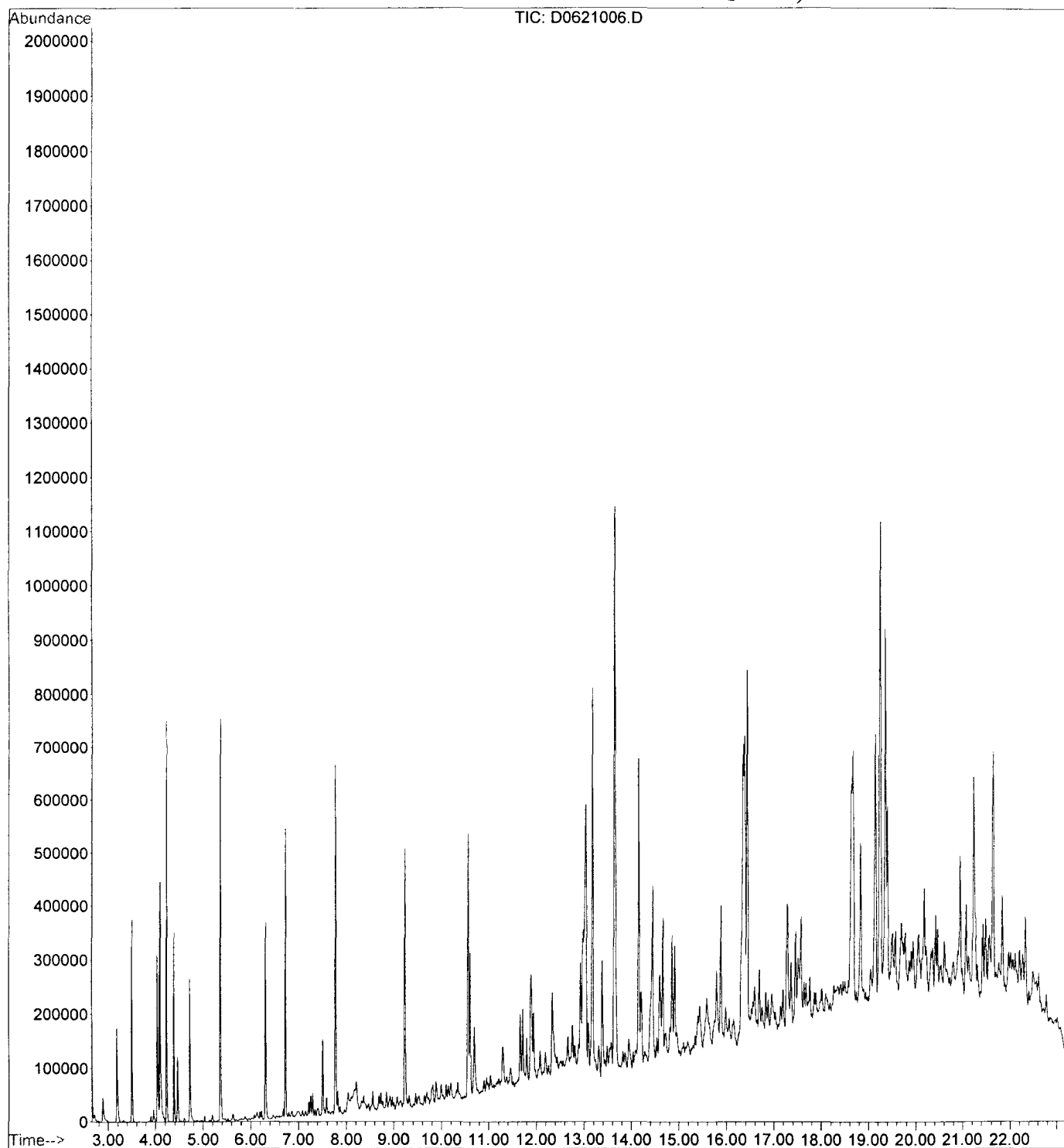
File : D:\NYACK\1NYACK\C1F070229\D0621005.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 3:43 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-017 soil 6/11/01 clp3.2  
Misc Info : eeh4p1ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 7

SD 24 (5.2-6.0)



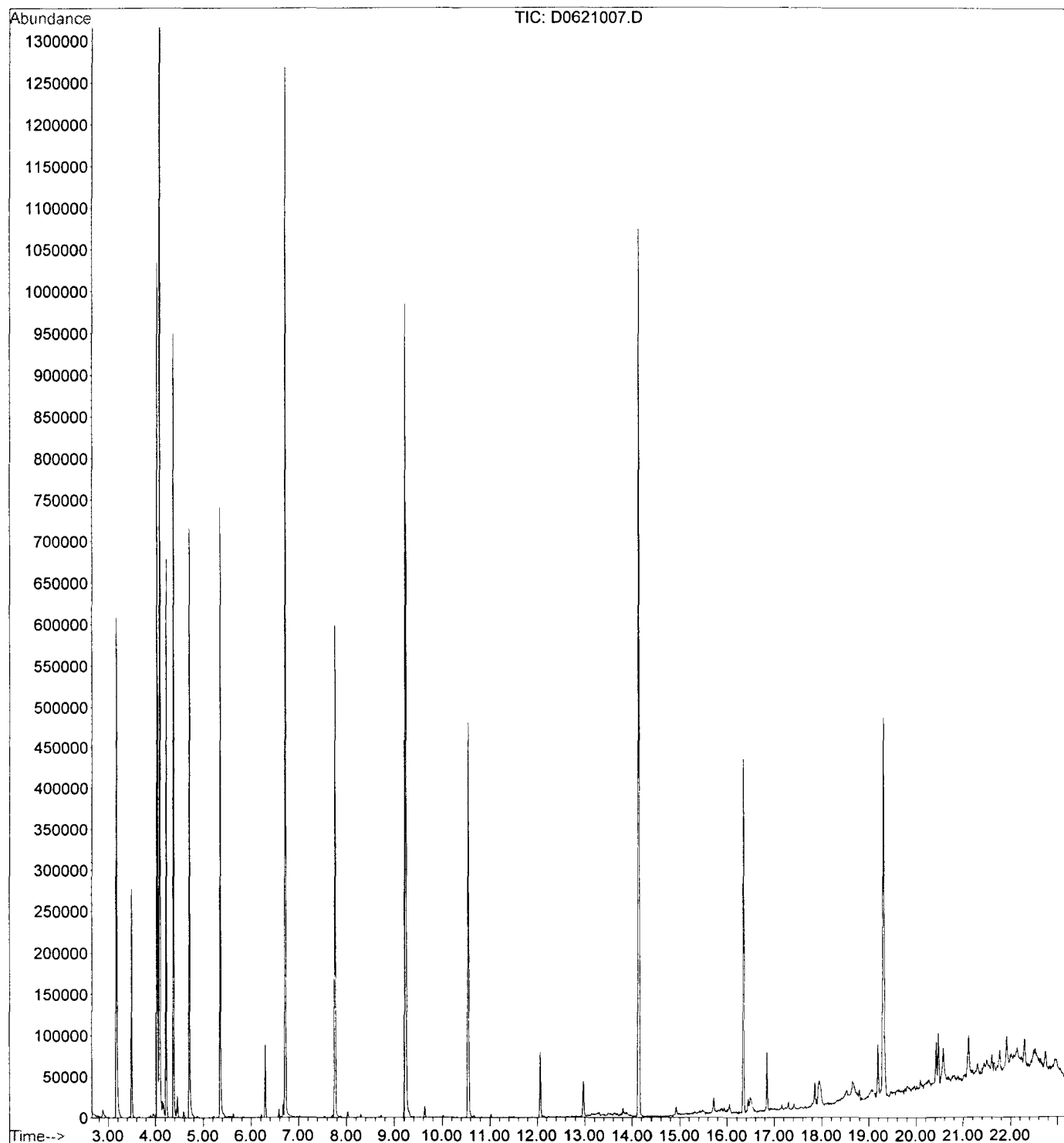
File : D:\NYACK\1NYACK\C1F070229\D0621006.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 4:12 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-018 2x soil 6/11/01 clp3.2  
Misc Info : eeh4r1ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 8

SD 25 (0.2)



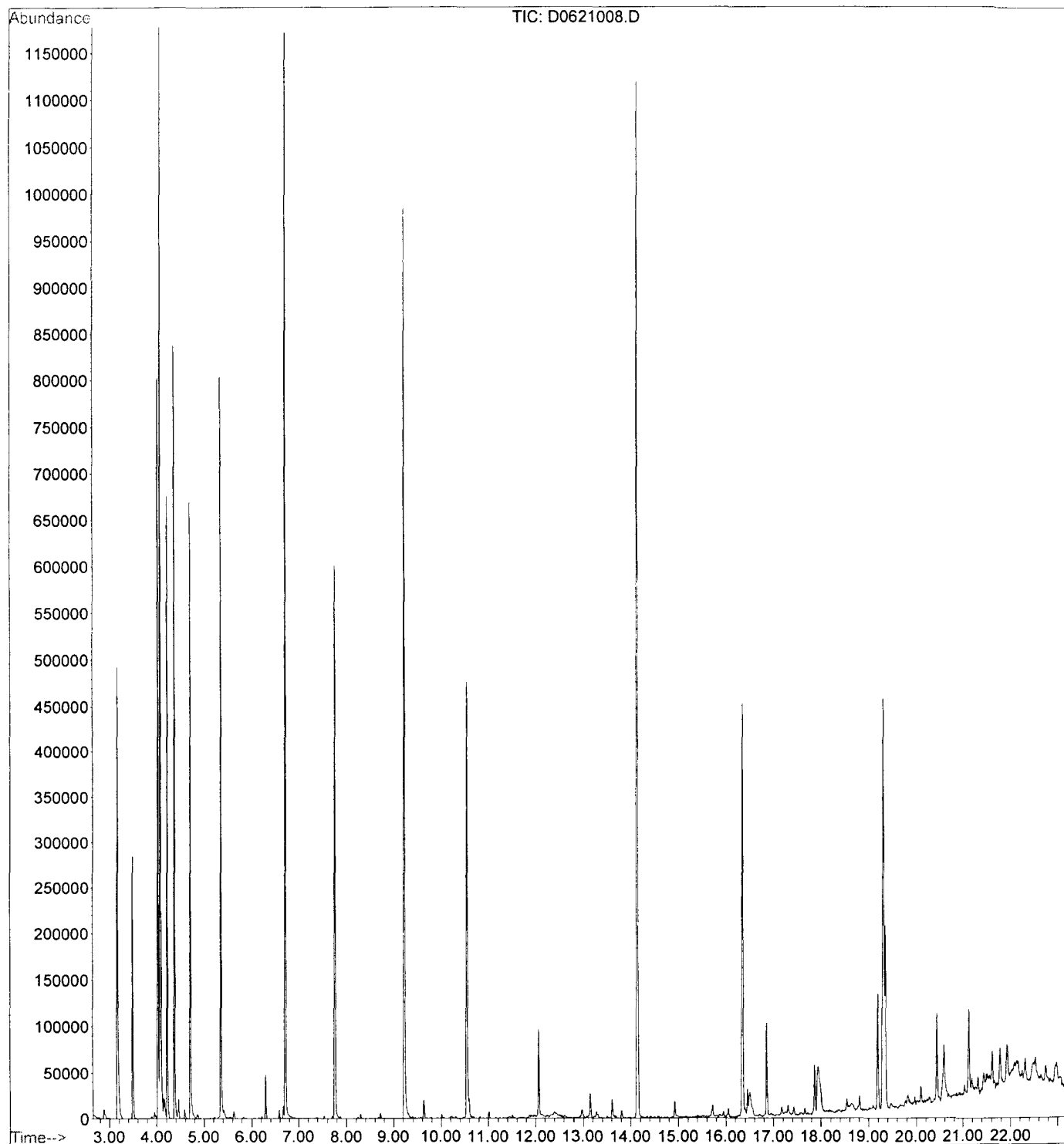
File : D:\NYACK\1NYACK\C1F070229\D0621007.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 4:41 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-019 soil 6/11/01 clp3.2  
Misc Info : eeh491ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 9

SD 25 (5.3-6)



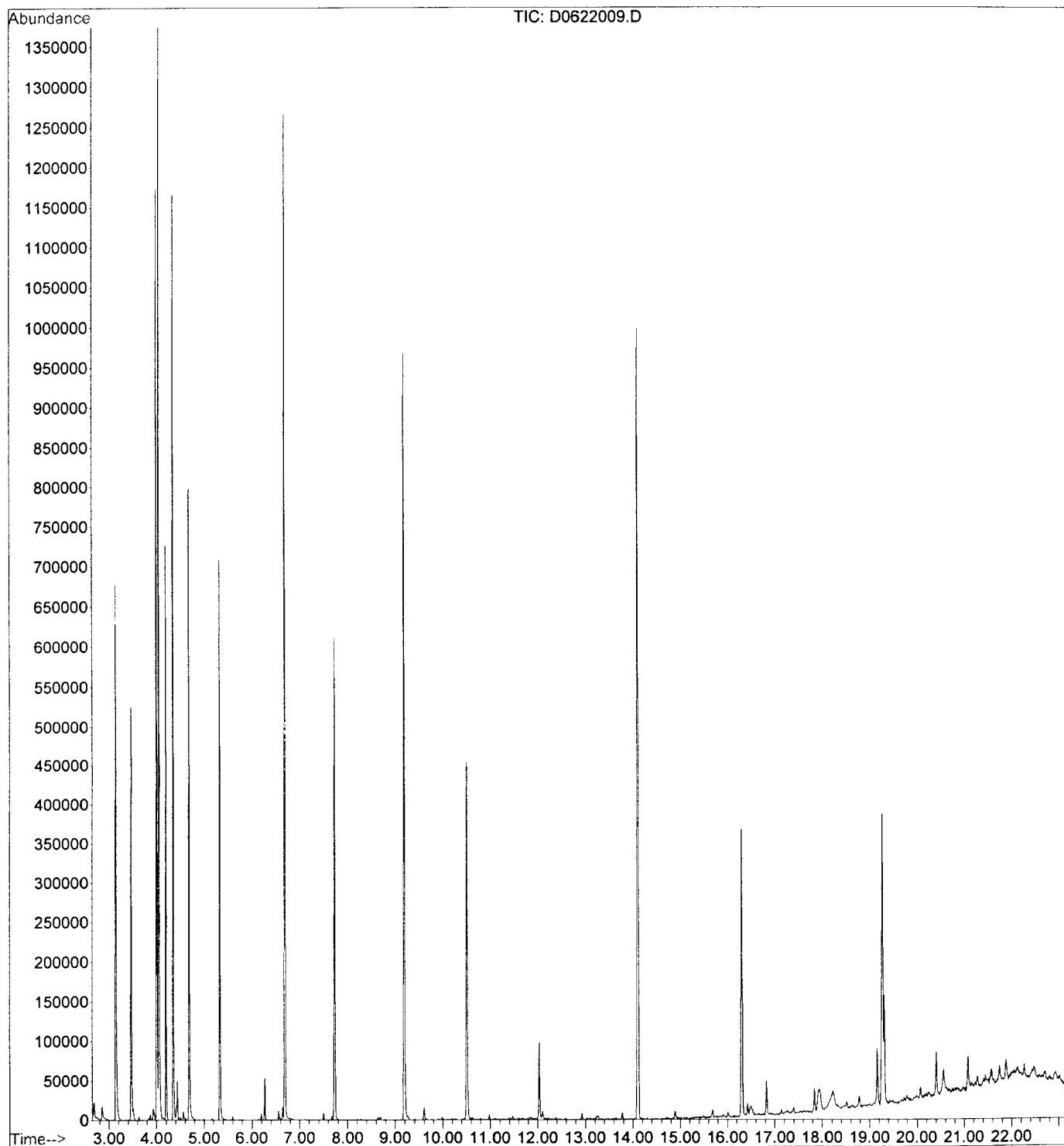
File : D:\NYACK\1NYACK\C1F070229\D0621008.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 5:10 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-020 soil 6/11/01 clp3.2  
Misc Info : eeh5e1ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 10

SD 26 (0-2)



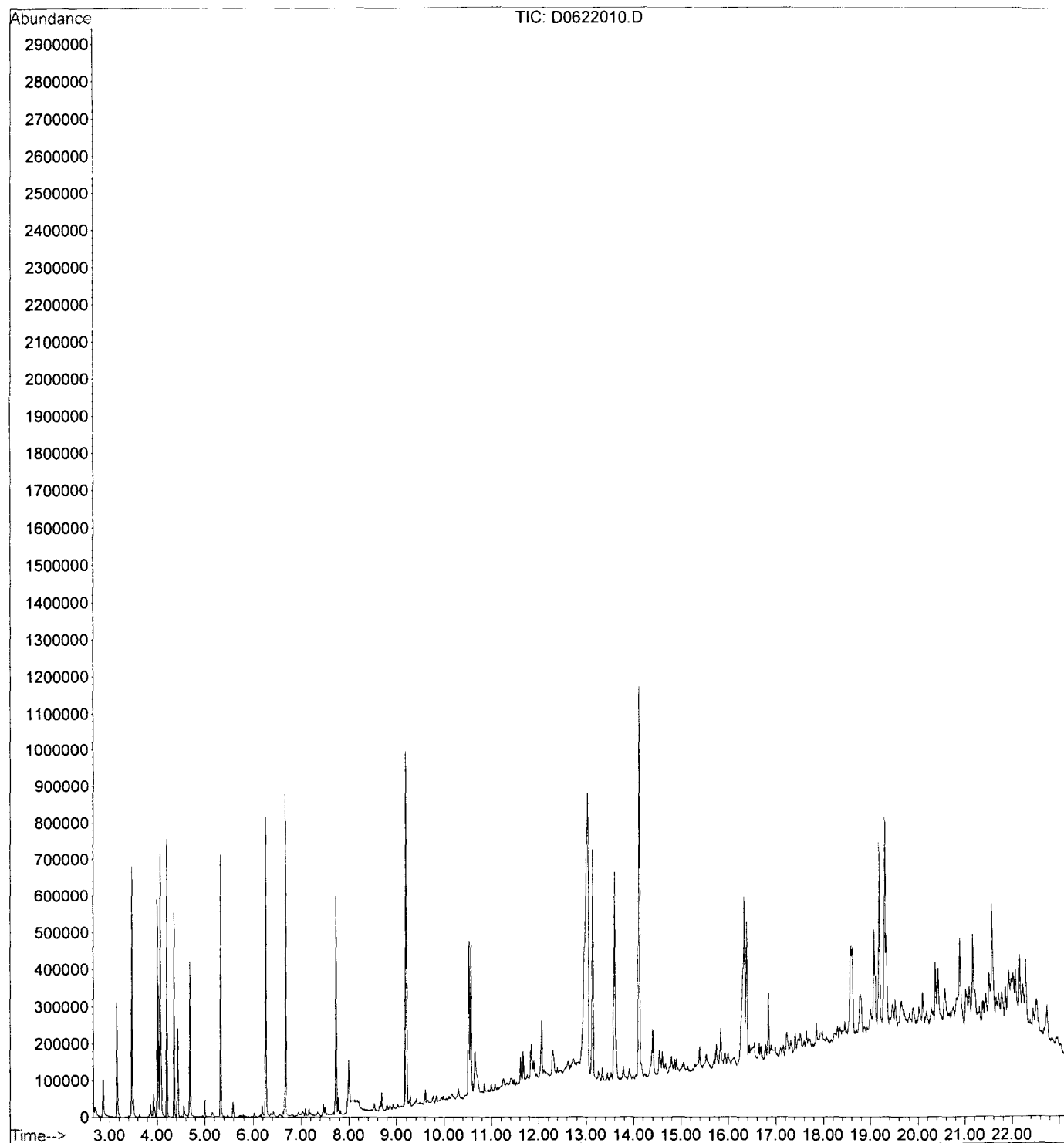
File : D:\NYACK\1NYACK\C1F070248\D0622009.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 3:43 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f070248-001 soil 6/12/01 clp3.2  
Misc Info : eeh7dlad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 11

SD 26 (3.5-4.5)



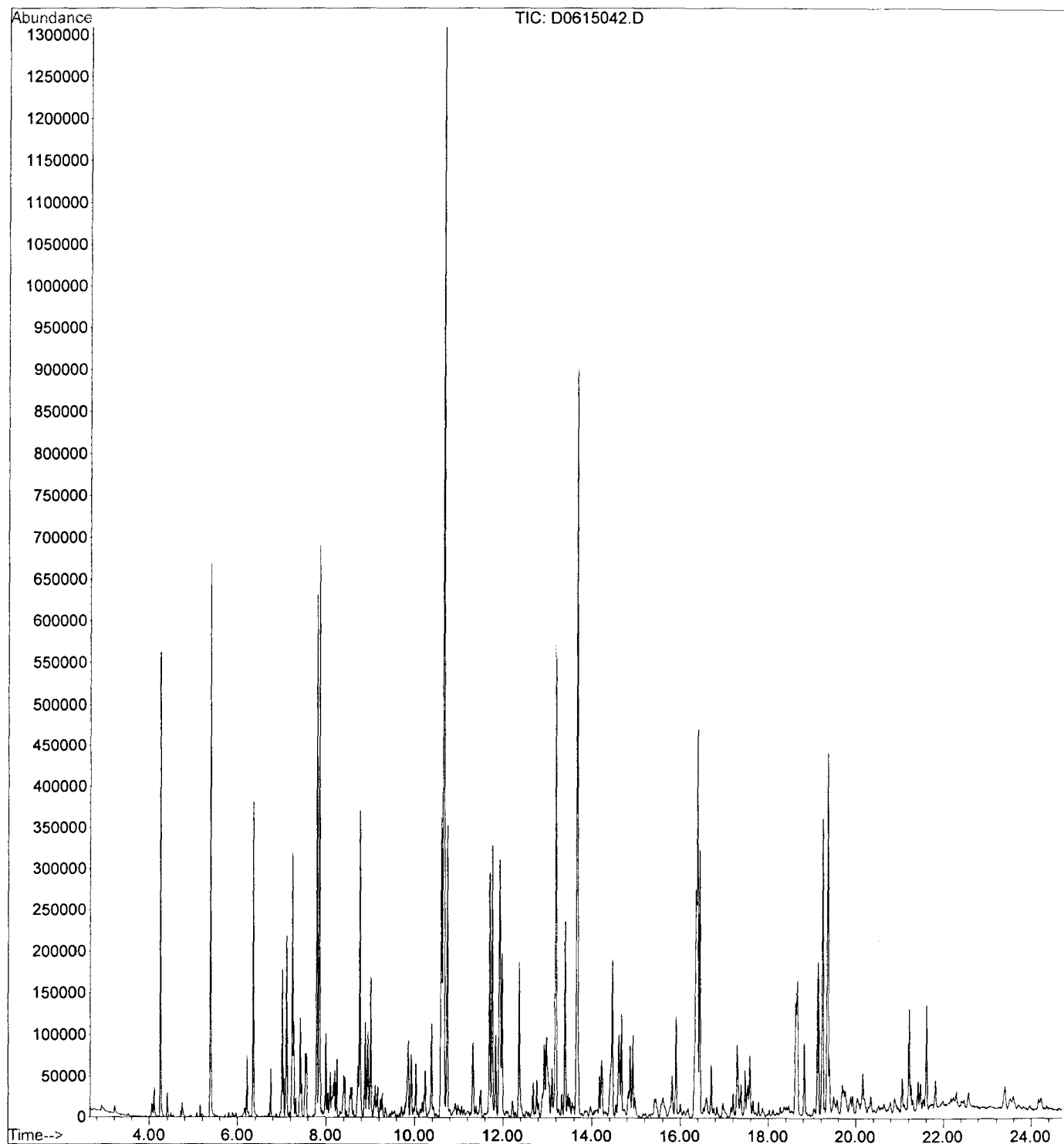
File : D:\NYACK\1NYACK\C1F070248\D0622010.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 4:12 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f070248-002 soil 6/12/01 clp3.2  
Misc Info : eeh7jlad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 12

SD 27 (0-2)



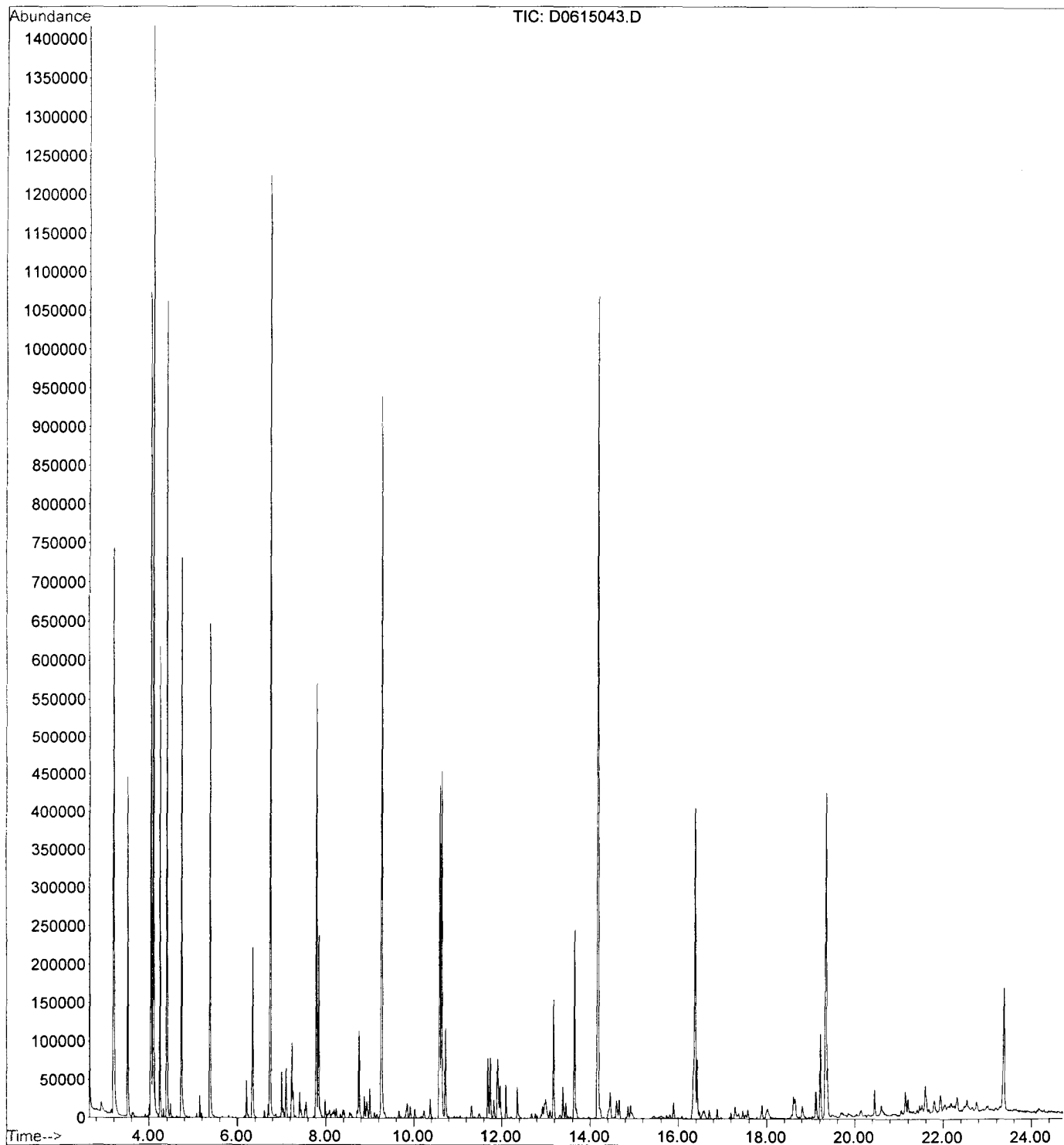
File : D:\NYACK\1NYACK\C1F070211\D0615042.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 10:03 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-001 20x soil 6/9/11 clp3.2  
Misc Info : eehrmlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 44

SD 27 (5.1 - 5.8)



File : D:\NYACK\1NYACK\C1F070211\D0615043.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 10:34 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-002 soil 6/9/11 clp3.2  
Misc Info : eeher21ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 45

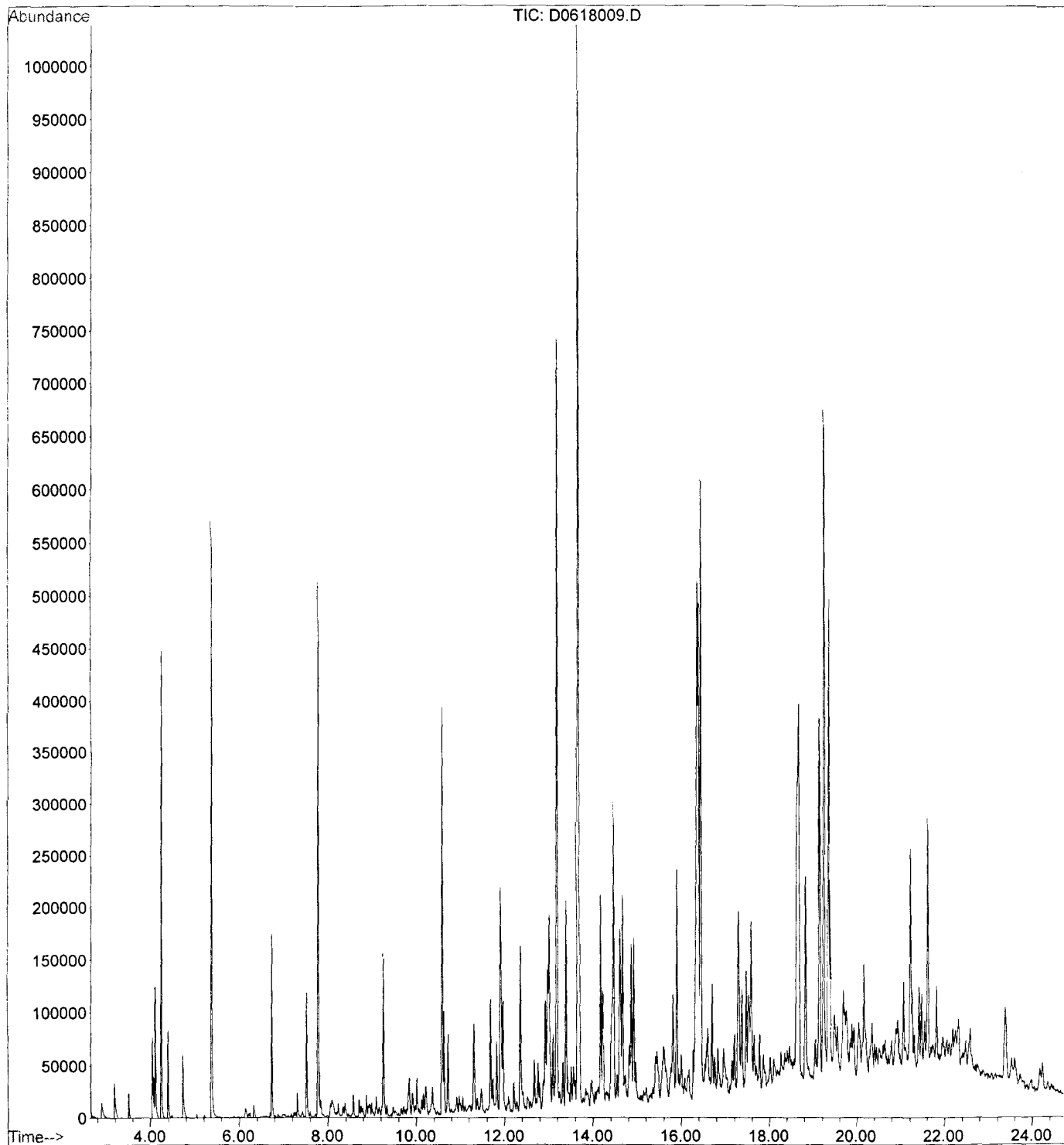
SD27 (6.4-6.9)





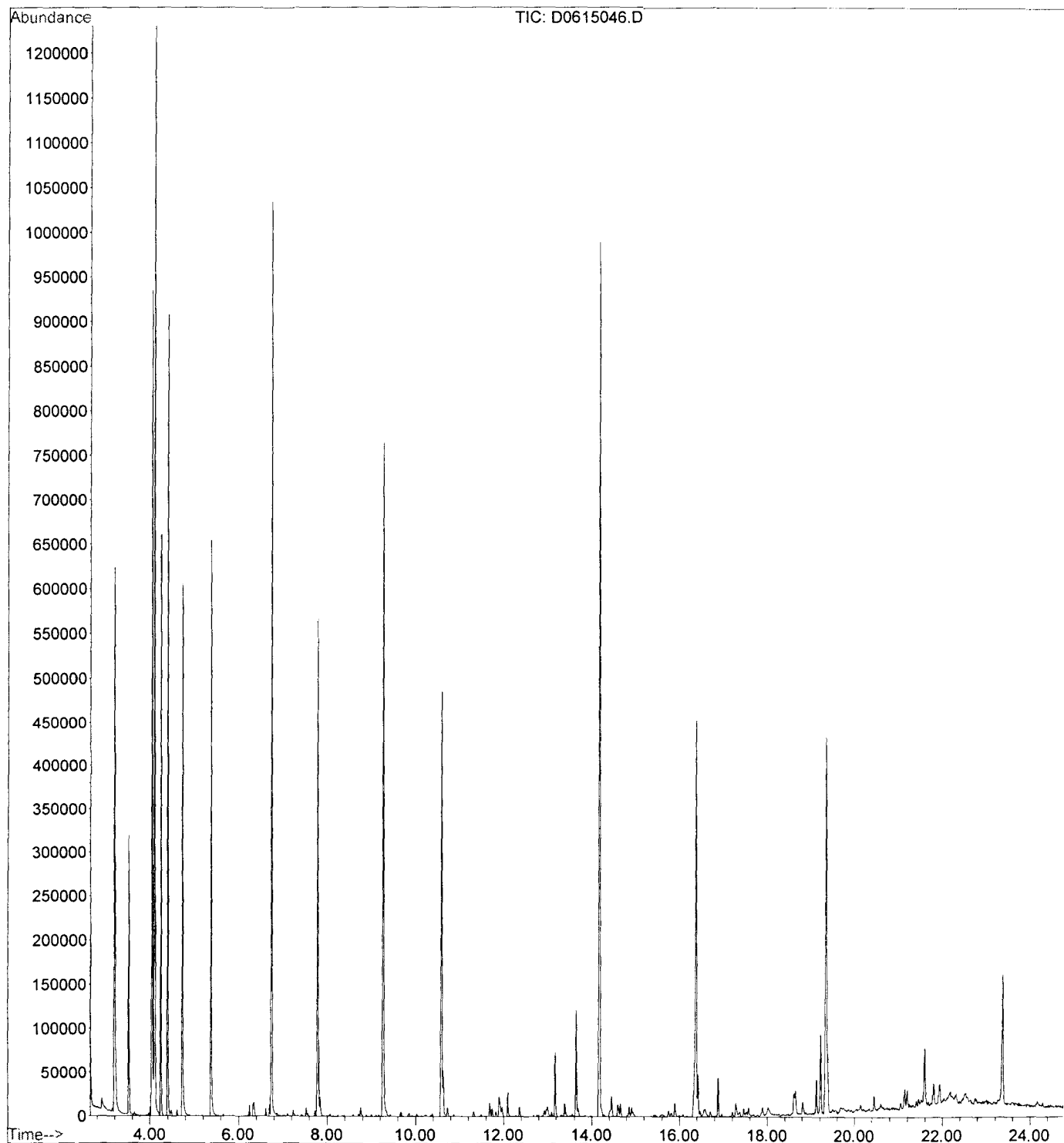
File : D:\NYACK\1NYACK\C1F070211\D0618009.D  
Operator : 001562, DLF  
Acquired : 18 Jun 2001 5:05 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070211-003 5x soil 6/9/11 clp3.2  
Misc Info : ee41ad,d061801p.b,clp.m,1-3.1.sub  
Vial Number: 11

SD28(0-2)



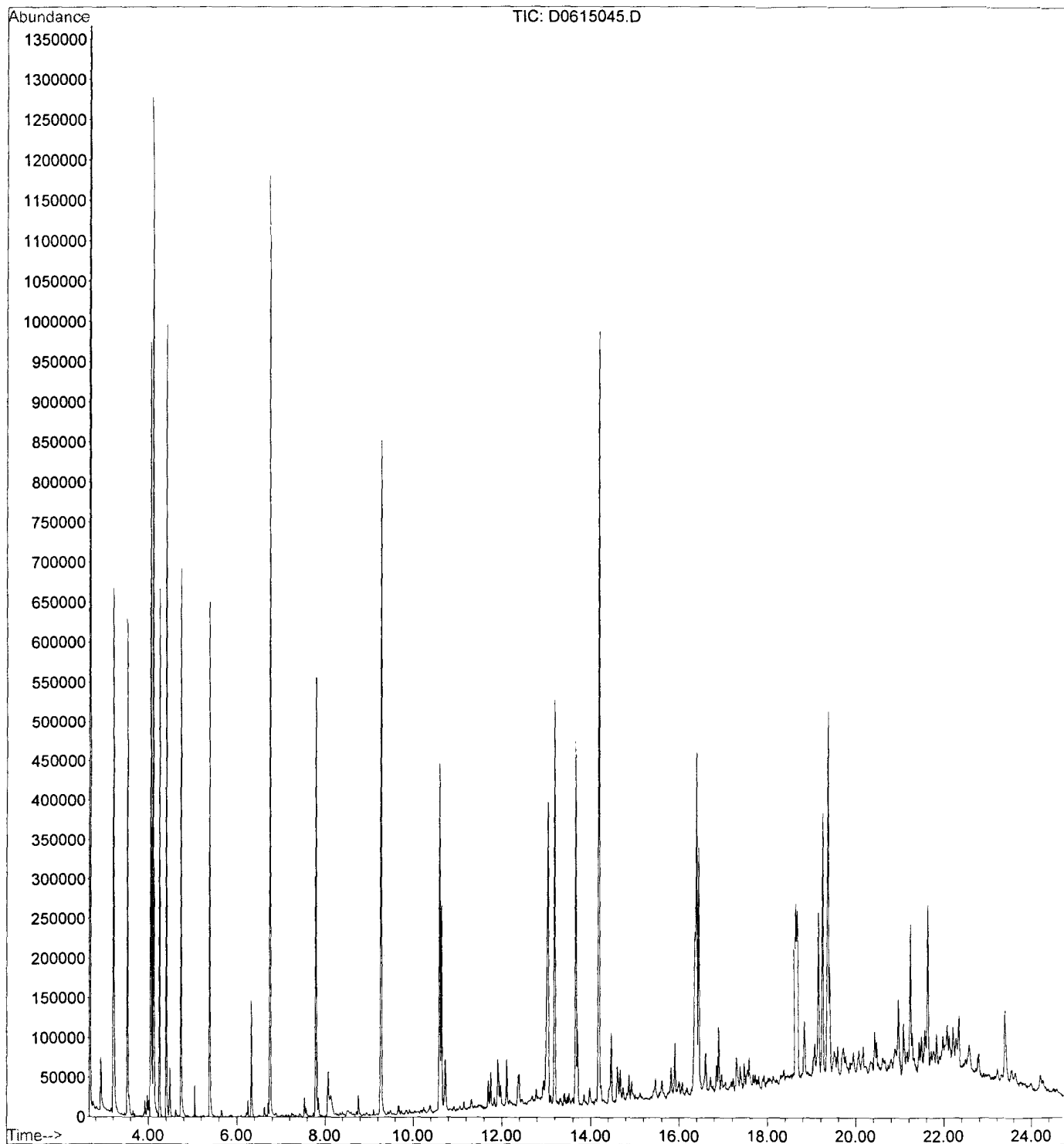
File : D:\NYACK\1NYACK\C1F070211\D0615046.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 12:06 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-005 soil 6/9/11 clp3.2  
Misc Info : eehtelad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 48

SD 28 (3-4.5)



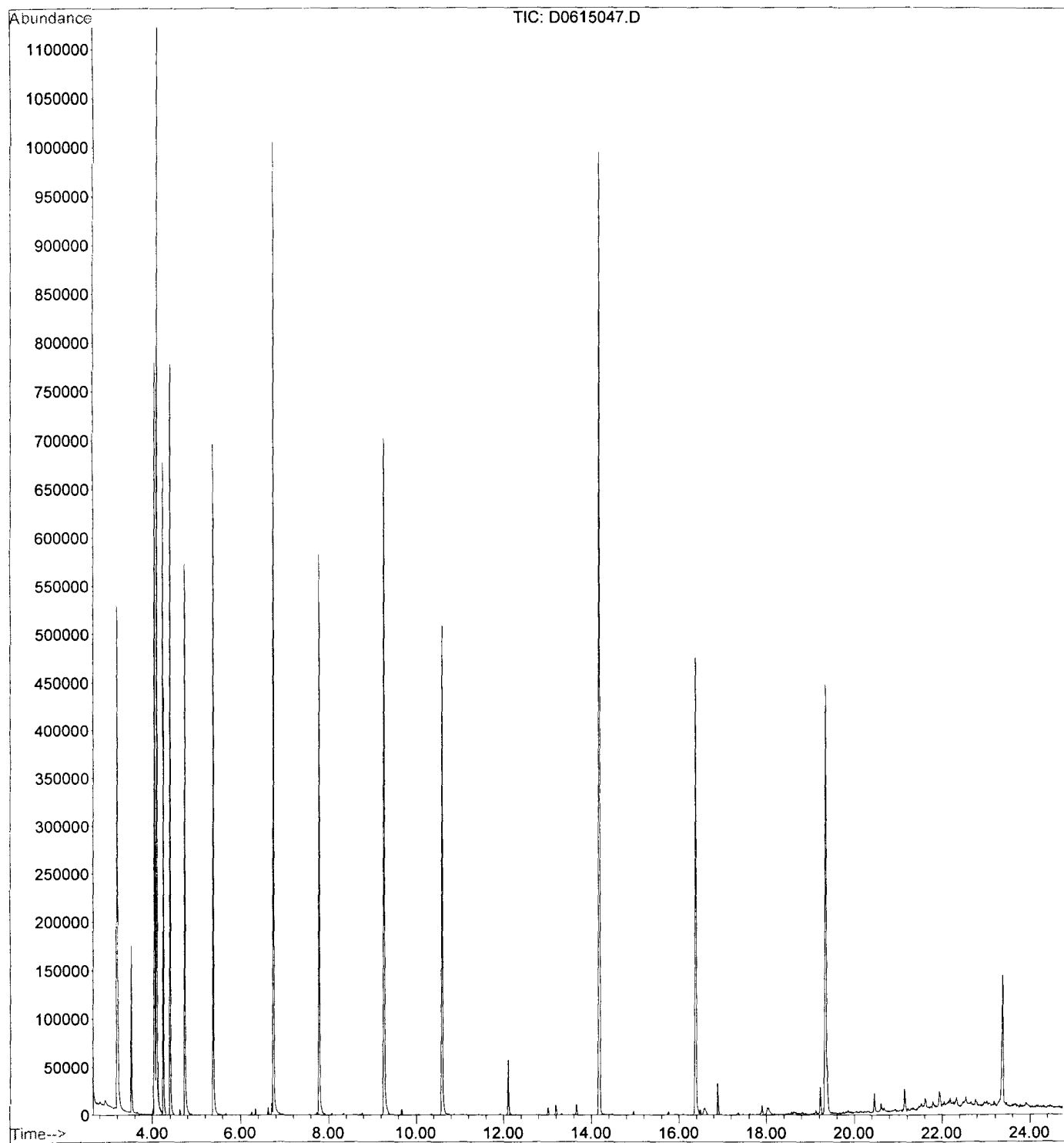
File : D:\NYACK\1NYACK\C1F070211\D0615045.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 11:35 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-004 soil 6/9/11 clp3.2  
Misc Info : ee8r81ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 47

SD29 (0-2)

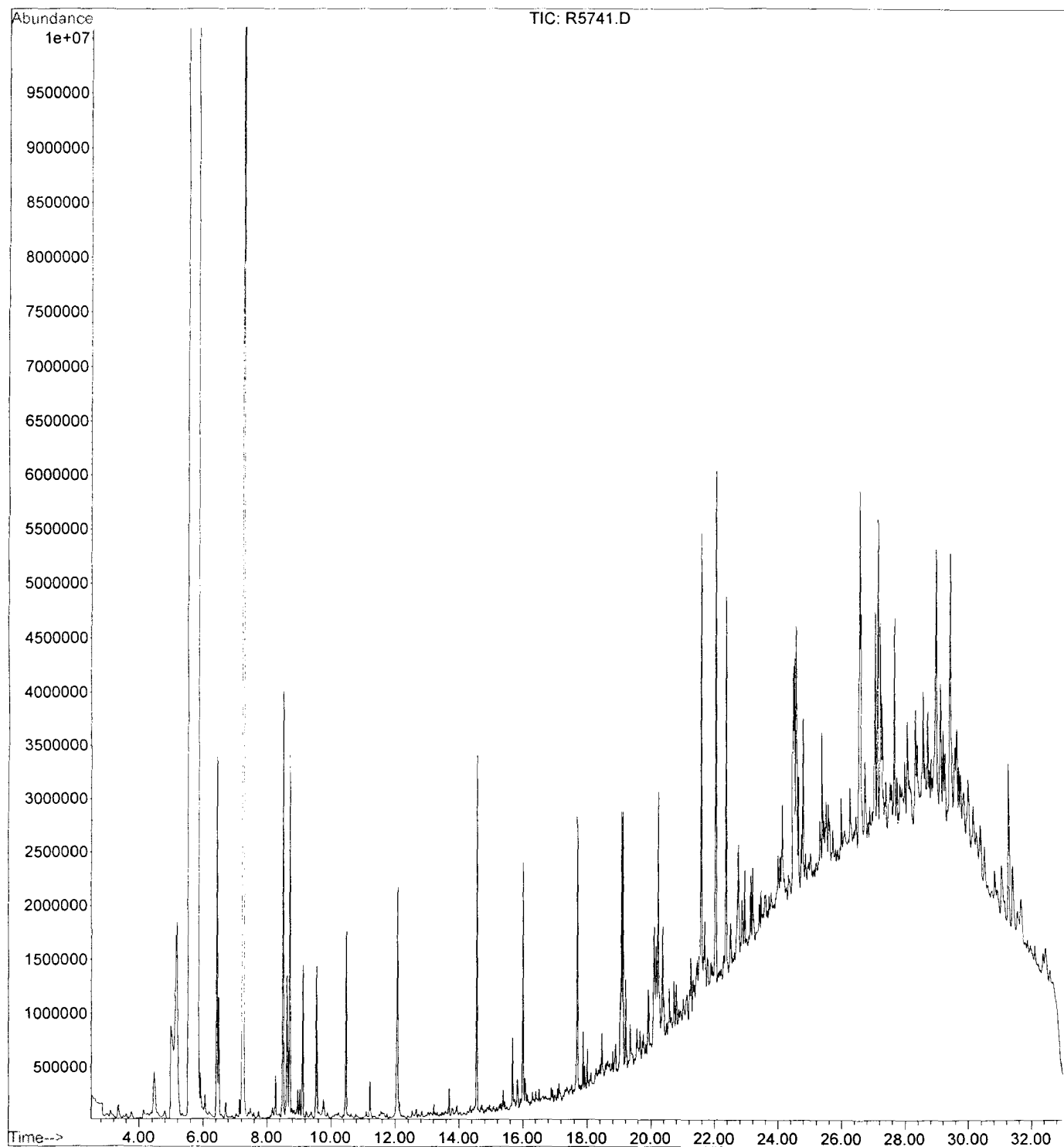


File : D:\NYACK\1NYACK\C1F070211\D0615047.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 12:36 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-006 soil 6/9/11 clp3.2  
Misc Info : eehtnlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 49

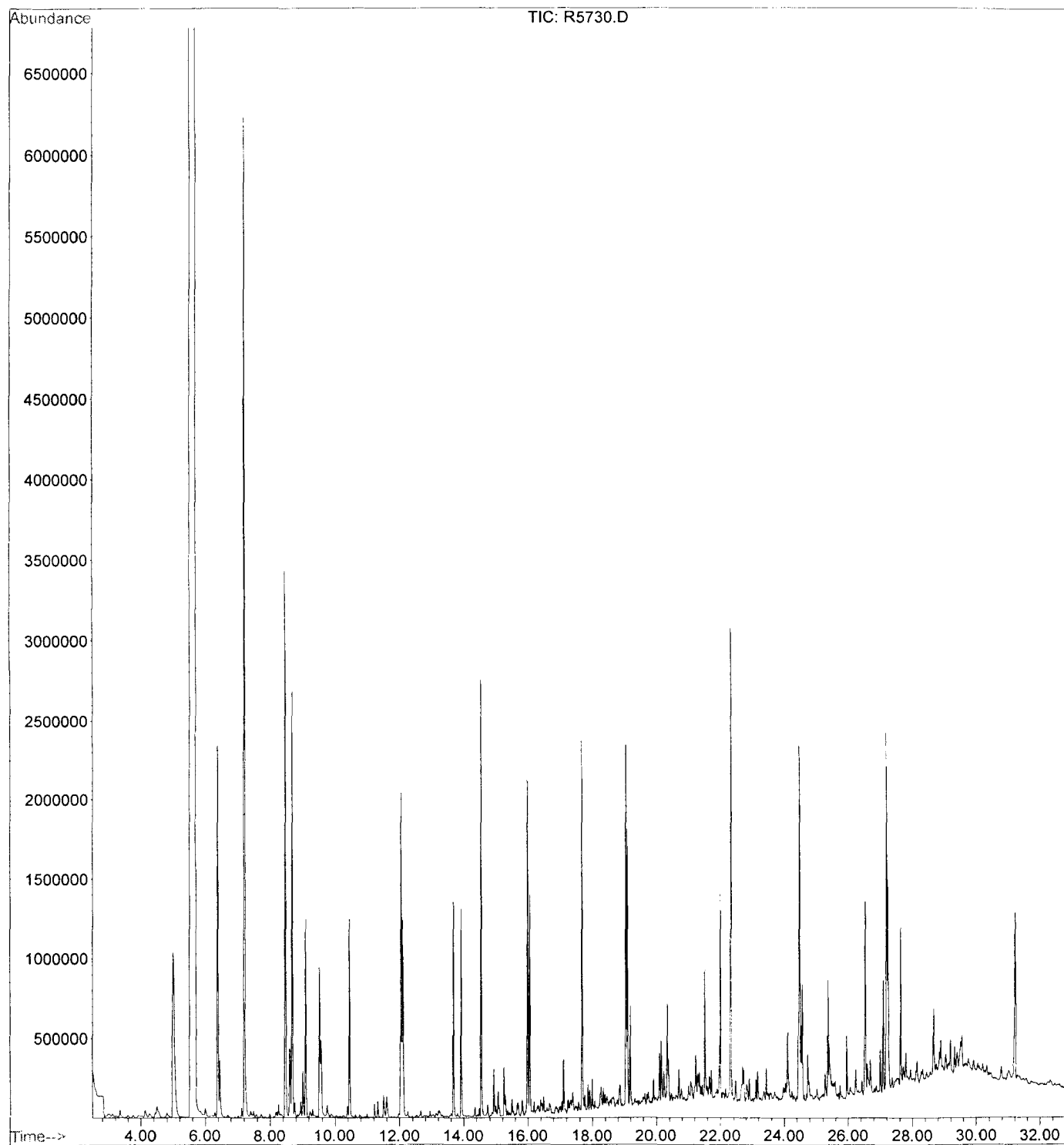
SD29 (2.8 - 3.6)



File : D:\HPCHEM\MSR\R5741.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 8:25 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-16  
Misc Info : SD3 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 14

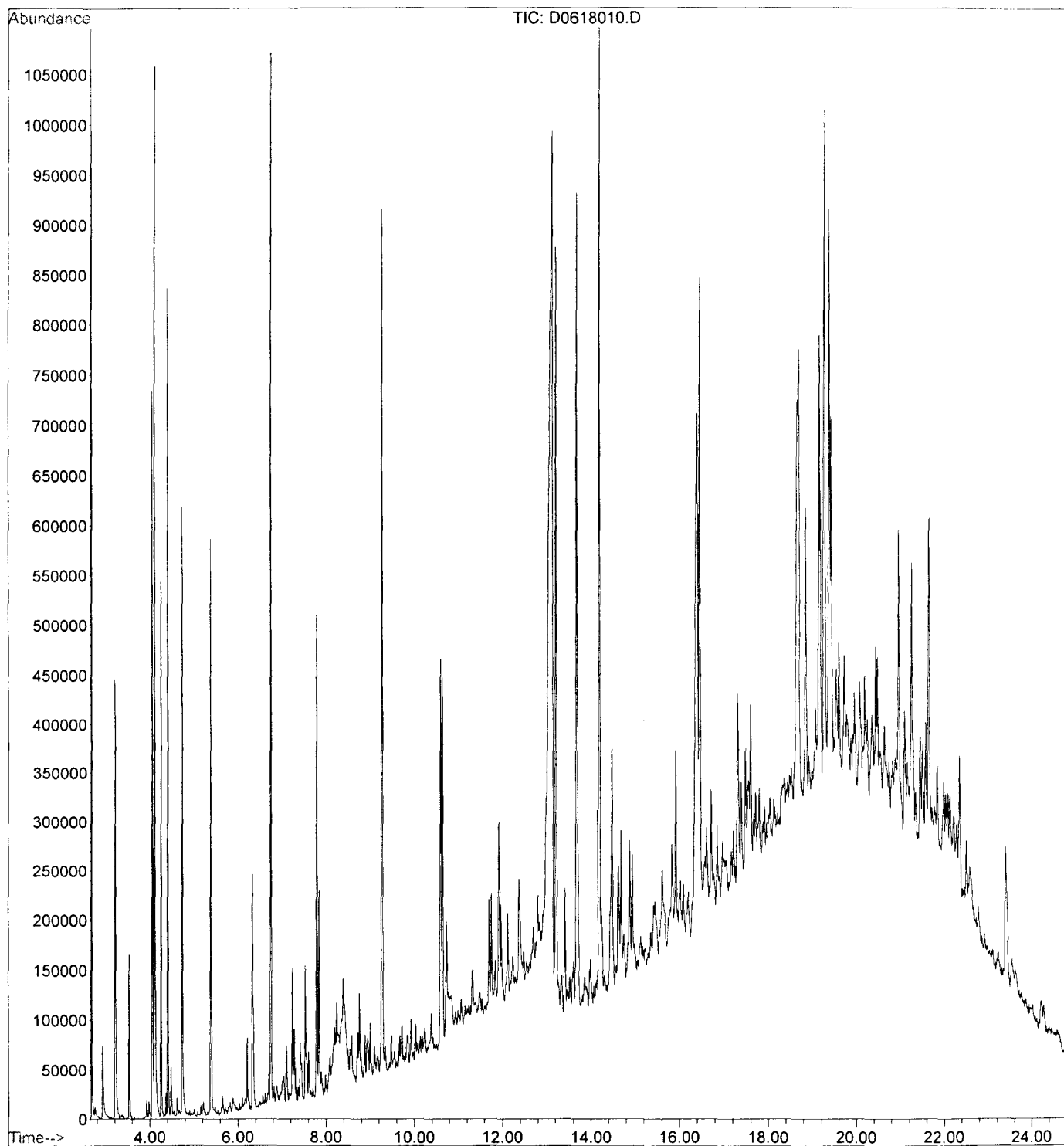


File : D:\HPCHEM\MSR\R5730.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 12:36 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-10  
Misc Info : SD3 (0.2-1.6) ; OLM ; 1; LLS ; SOIL  
Vial Number: 3



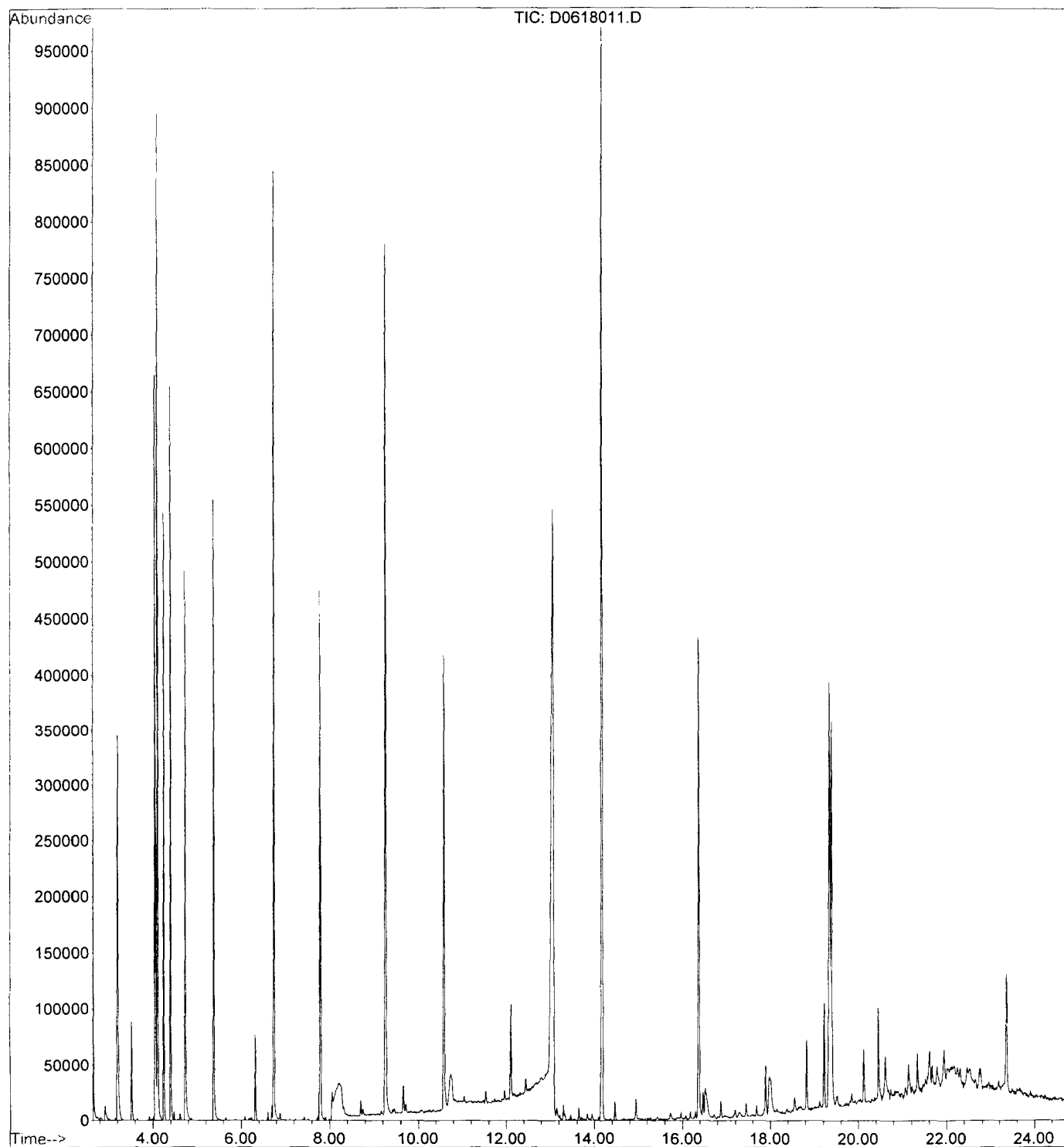
File : D:\NYACK\1NYACK\C1F070211\D0618010.D  
Operator : 001562, DLF  
Acquired : 18 Jun 2001 5:36 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070211-007 soil 6/9/11 clp3.2  
Misc Info : eehtvlad,d061801p.b,clp.m,1-3.1.sub  
Vial Number: 12

SD30(0-2)



File : D:\NYACK\1NYACK\C1F070211\D0618011.D  
Operator : 001562, DLF  
Acquired : 18 Jun 2001 6:07 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070211-008 soil 6/9/11 clp3.2  
Misc Info : eeht21ad,d061801p.b,clp.m,1-3.1.sub  
Vial Number: 13

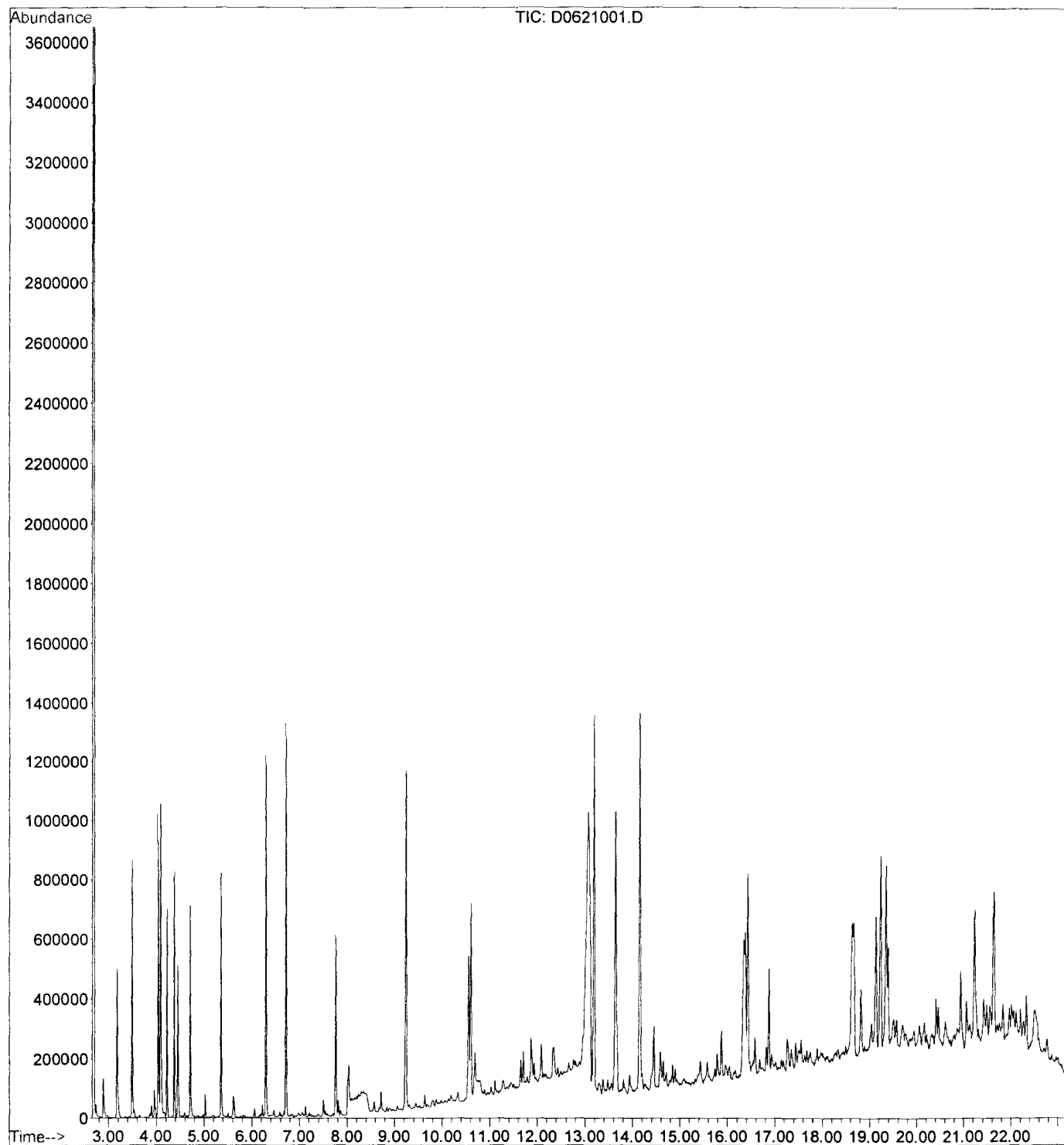
SD30(4.5-5.6)





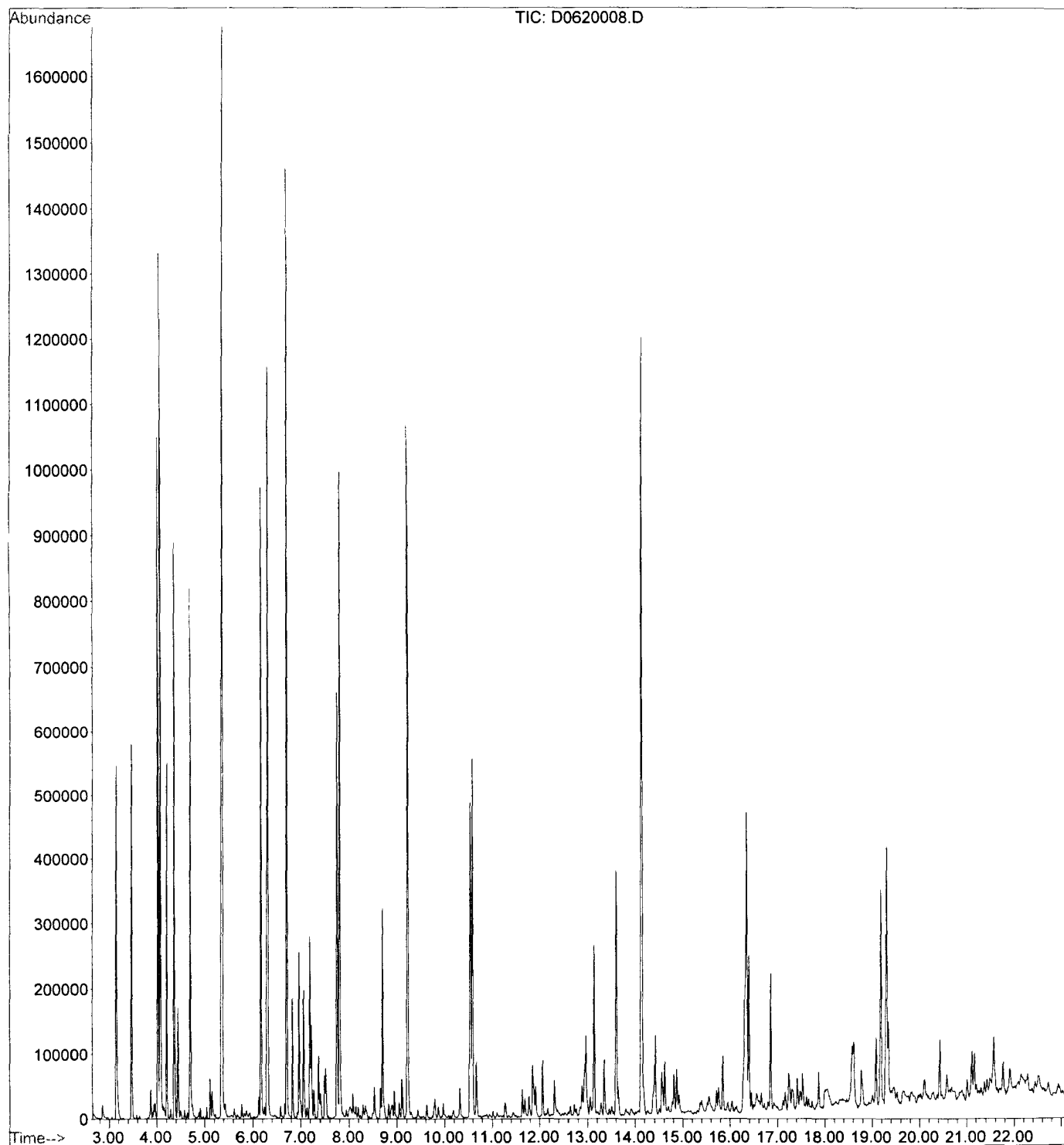
File : D:\NYACK\1NYACK\C1F070229\D0621001.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 1:46 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-001 soil 6/11/01 clp3.2  
Misc Info : eeh181ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 3

SD 31 (0-2)



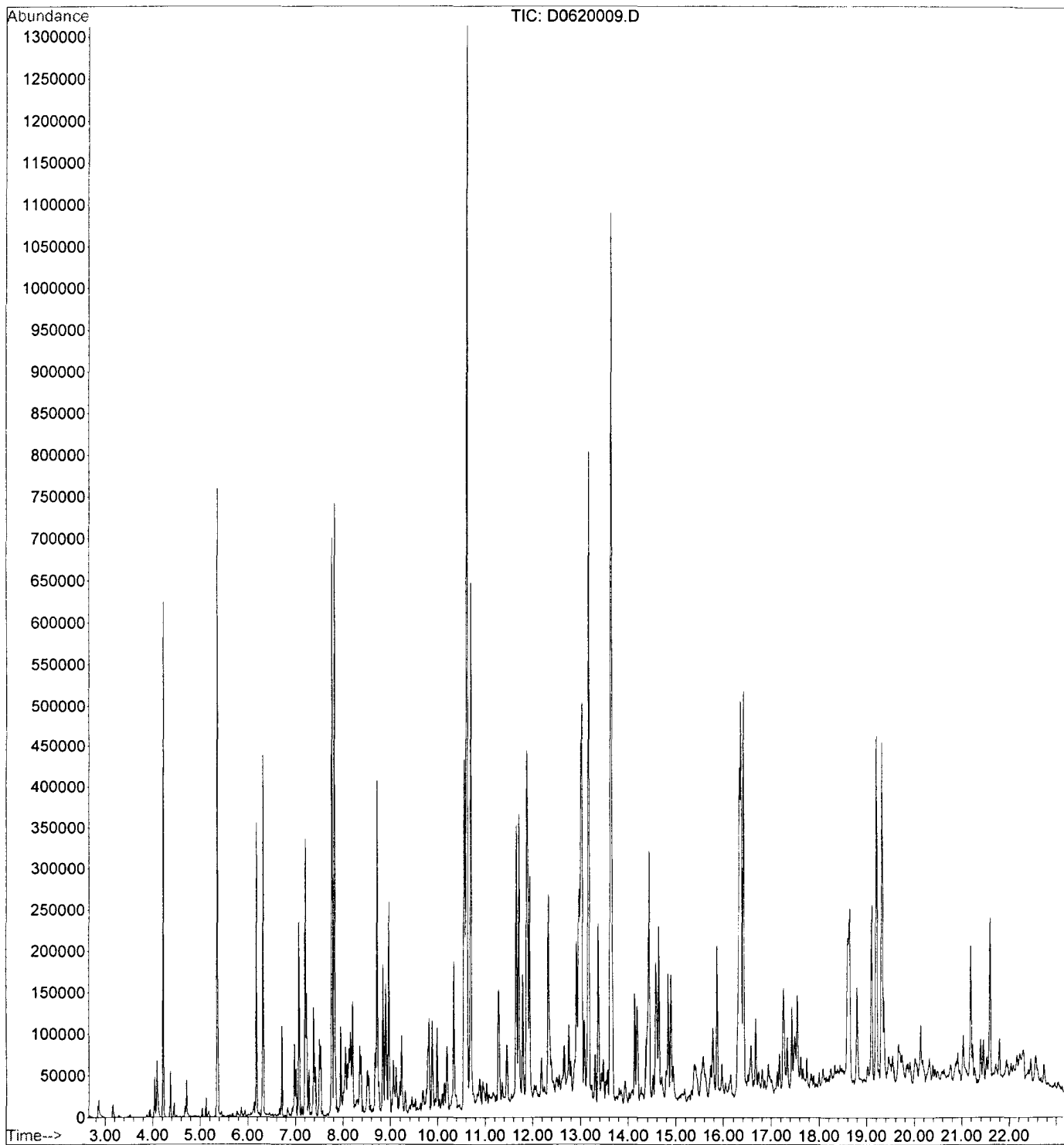
File : D:\NYACK\1NYACK\C1F070229\D0620008.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 4:31 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-002 soil 6/11/01 clp3.2  
Misc Info : eeh2wlad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 10

SD 31 (2.6-3.6)



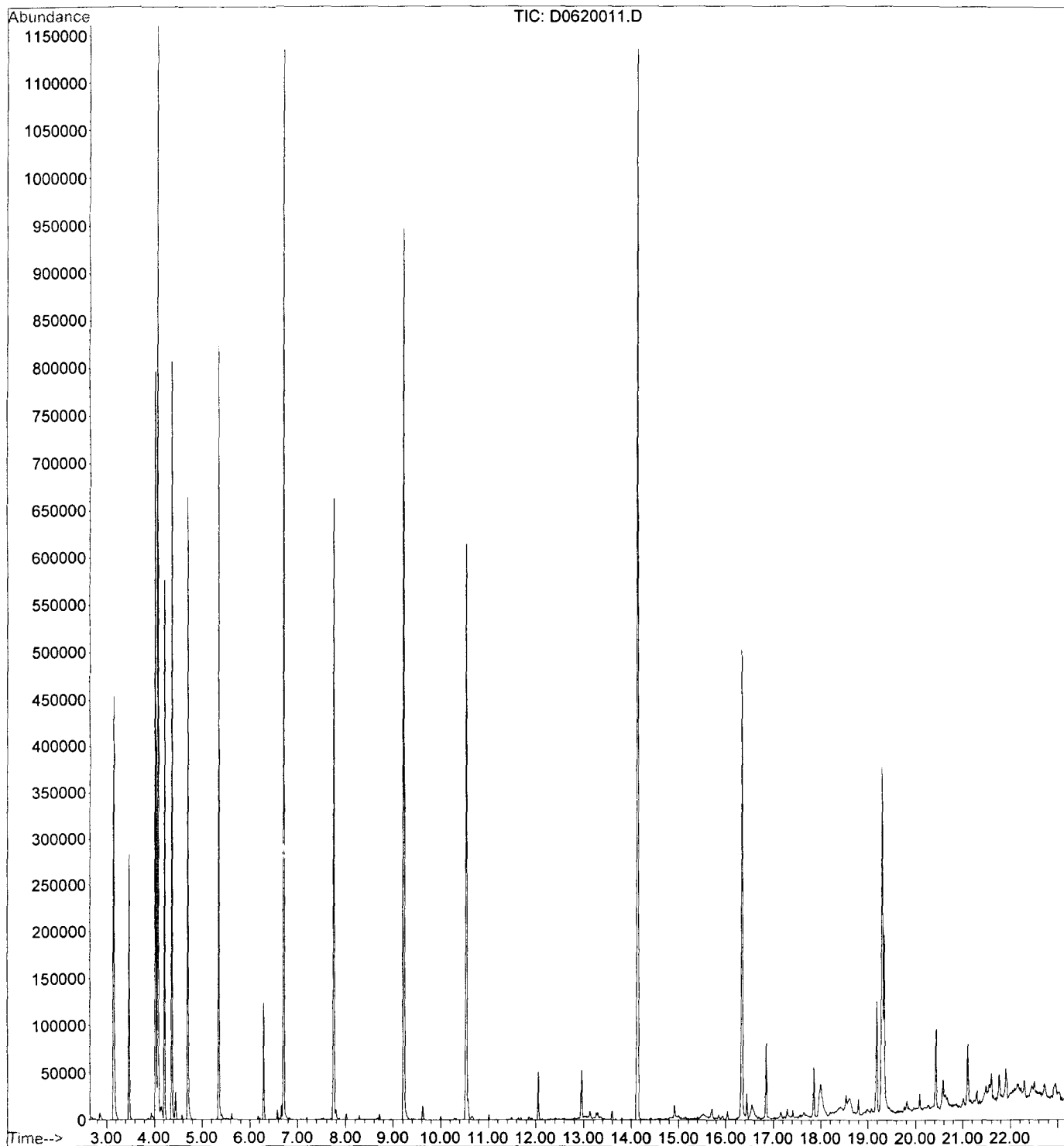
File : D:\NYACK\1NYACK\C1F070229\D0620009.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 5:00 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-003 10x soil 6/11/01 clp3.2  
Misc Info : eeh211ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 11

SD3a (0-2)



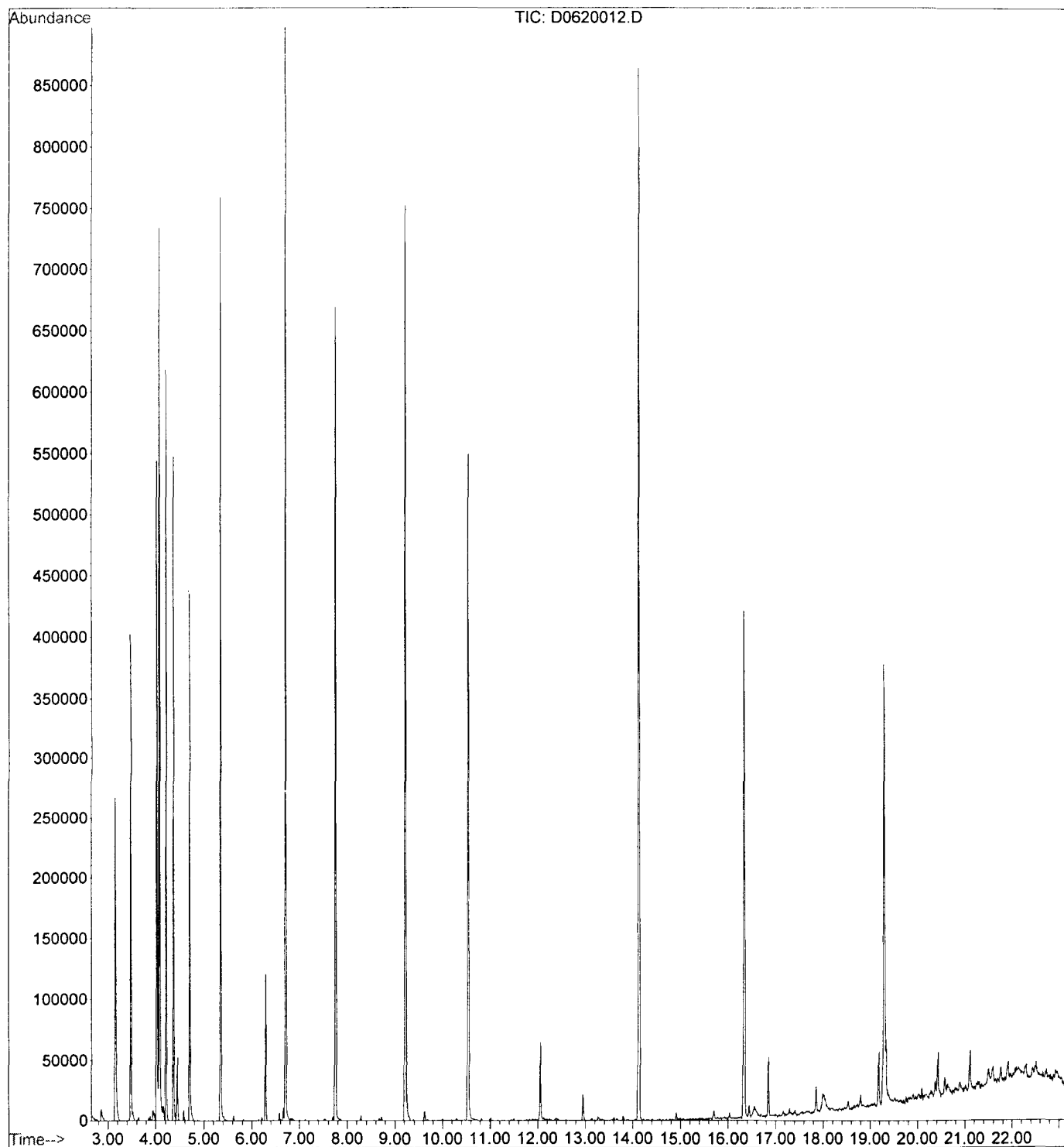
File : D:\NYACK\1NYACK\C1F070229\D0620011.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 5:58 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-005 soil 6/11/01 clp3.2  
Misc Info : eeh3clad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 13

SD 32 - (3.5 - 4.0)



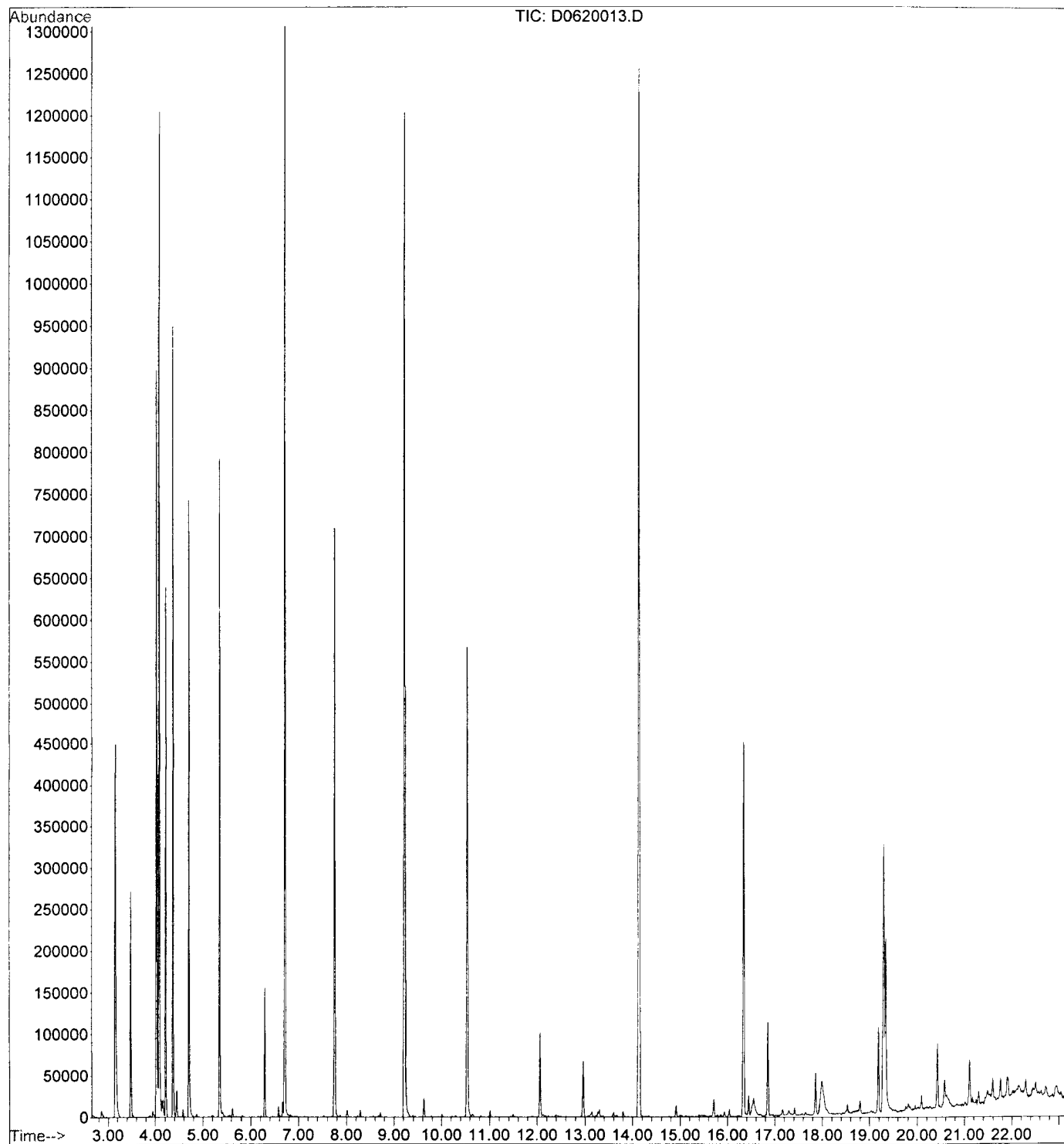
File : D:\NYACK\1NYACK\C1F070229\D0620012.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 6:27 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-006 soil 6/11/01 clp3.2  
Misc Info : eeh3flad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 14

SD33 (C-2)



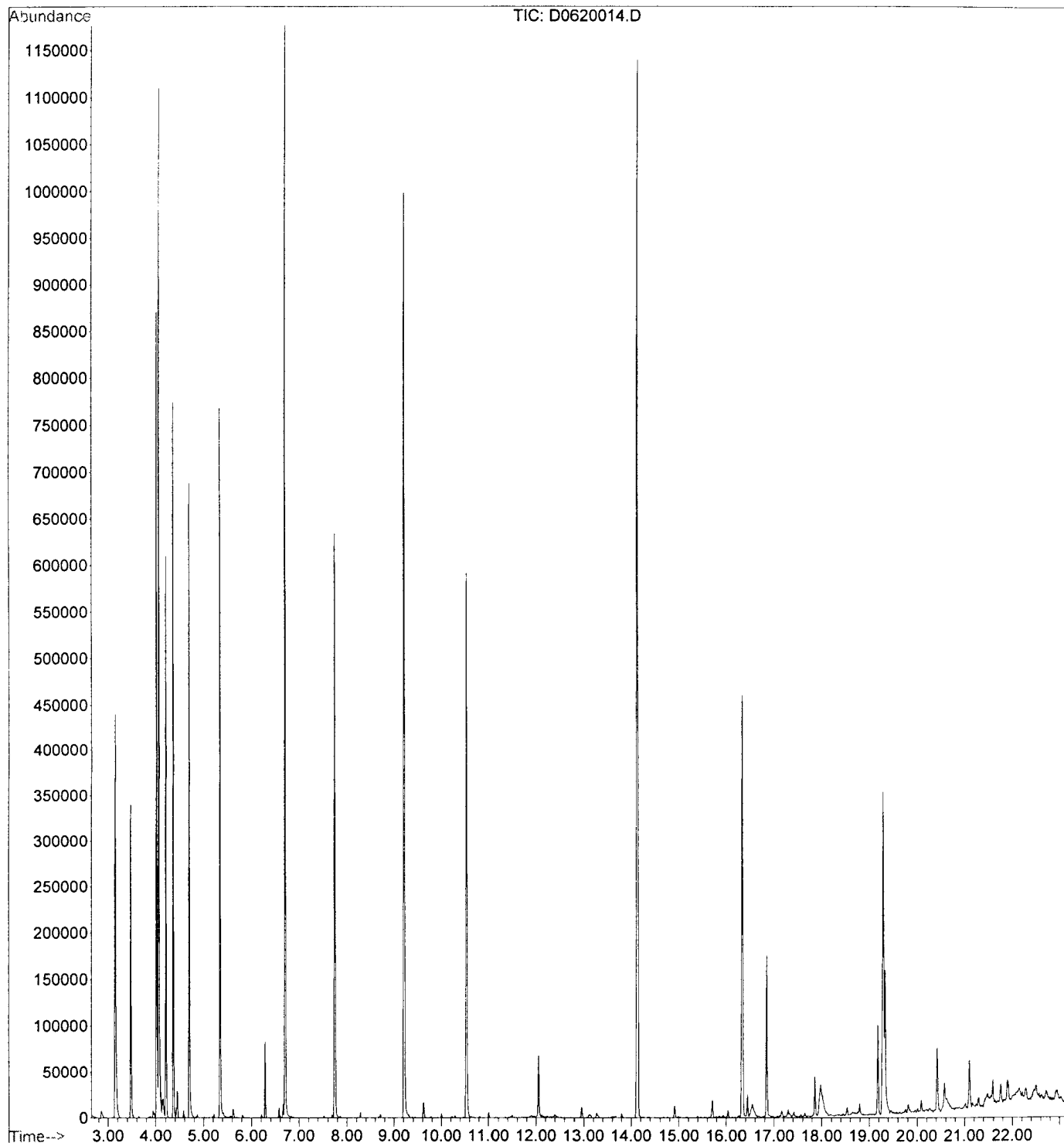
File : D:\NYACK\1NYACK\C1F070229\D0620013.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 6:56 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-007 soil 6/11/01 clp3.2  
Misc Info : eeh3jl1ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 15

SD 33 (2.6 - 3.5)



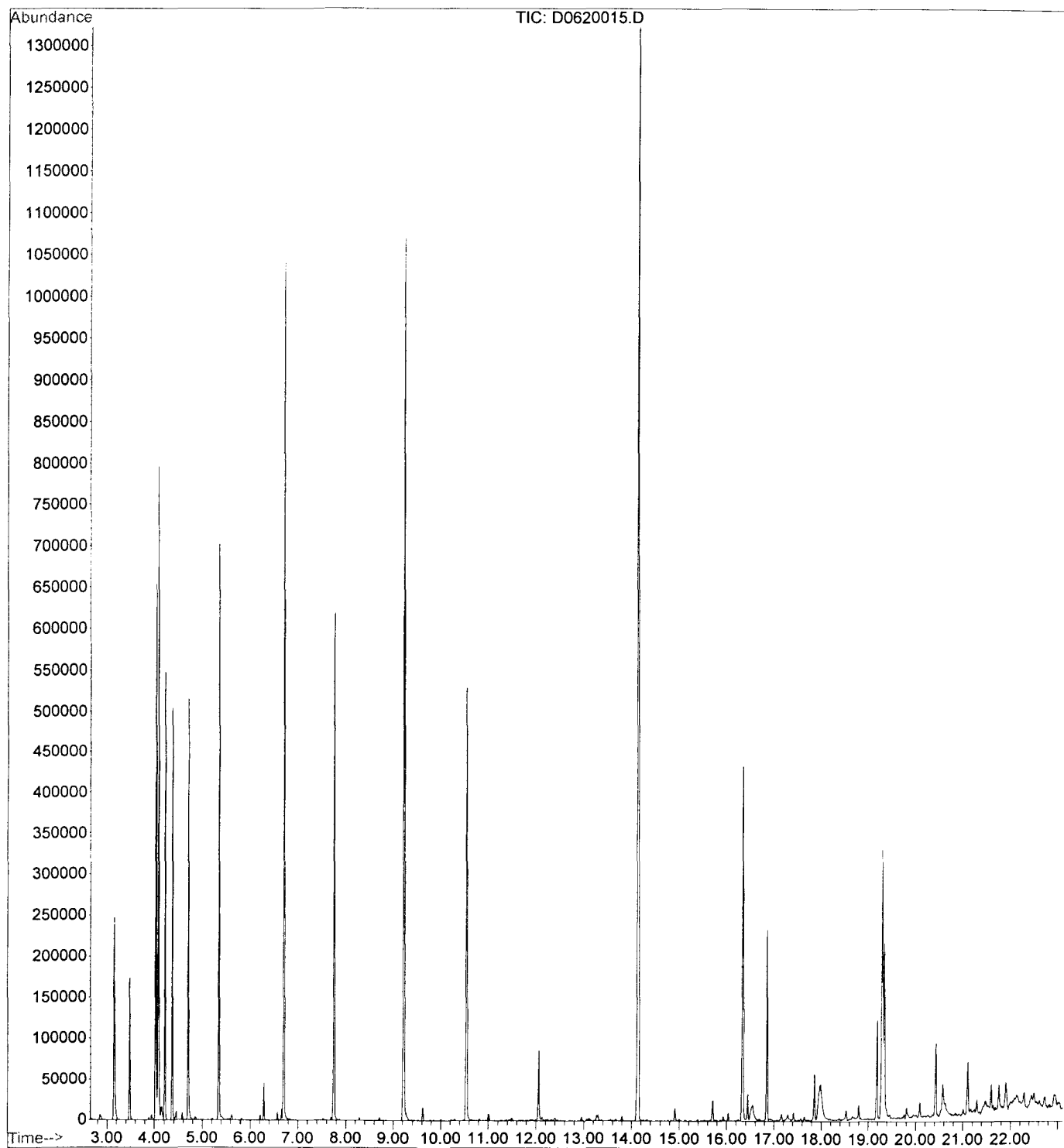
File : D:\NYACK\1NYACK\C1F070229\D0620014.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 7:25 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-008 soil 6/11/01 clp3.2  
Misc Info : eeh3q1ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 16

SD 34 (0-2)



File : D:\NYACK\1NYACK\C1F070229\D0620015.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 7:54 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-009 soil 6/11/01 clp3.2  
Misc Info : eeh311ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 17

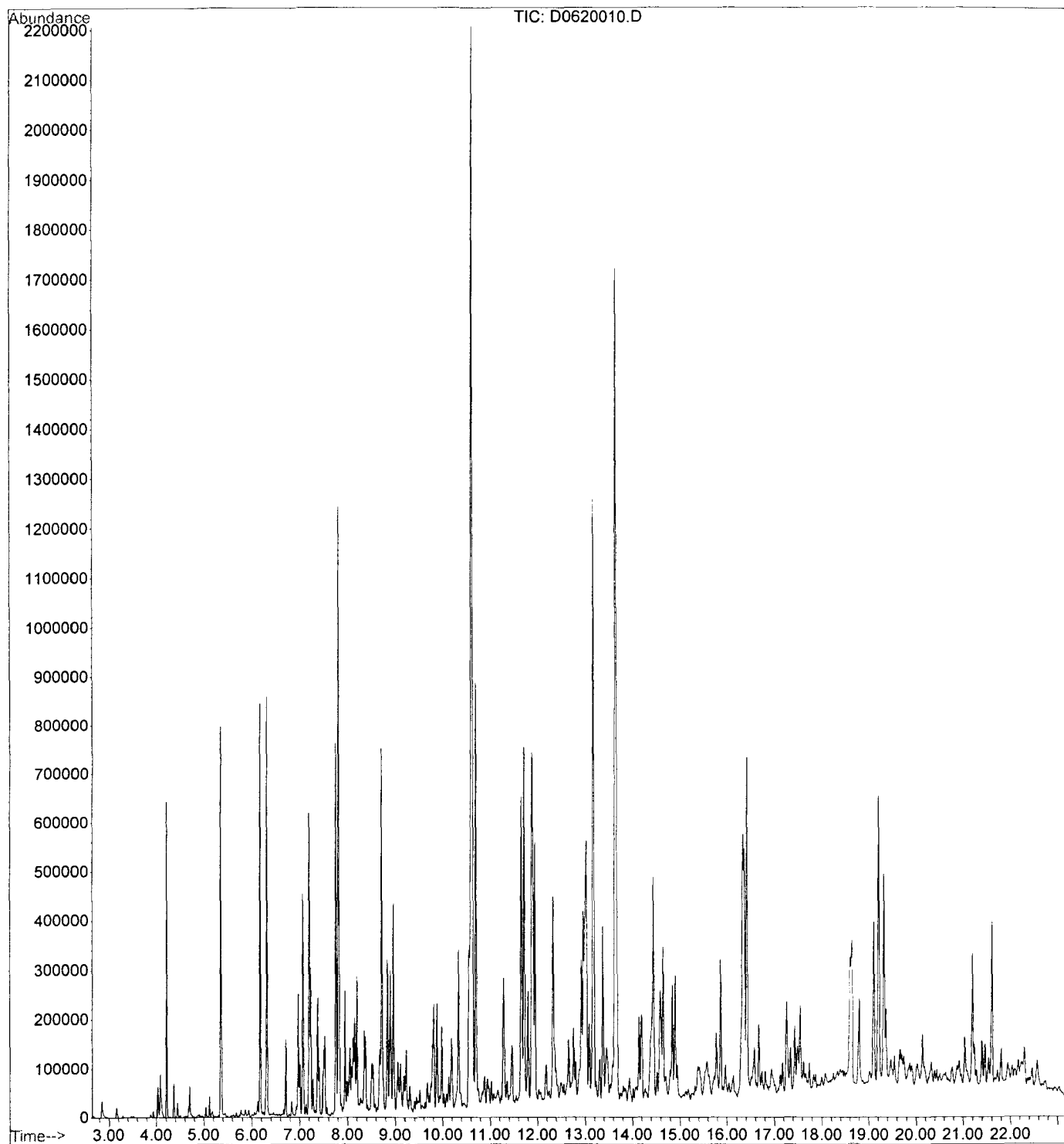
SD 34 (2.7-3.8)





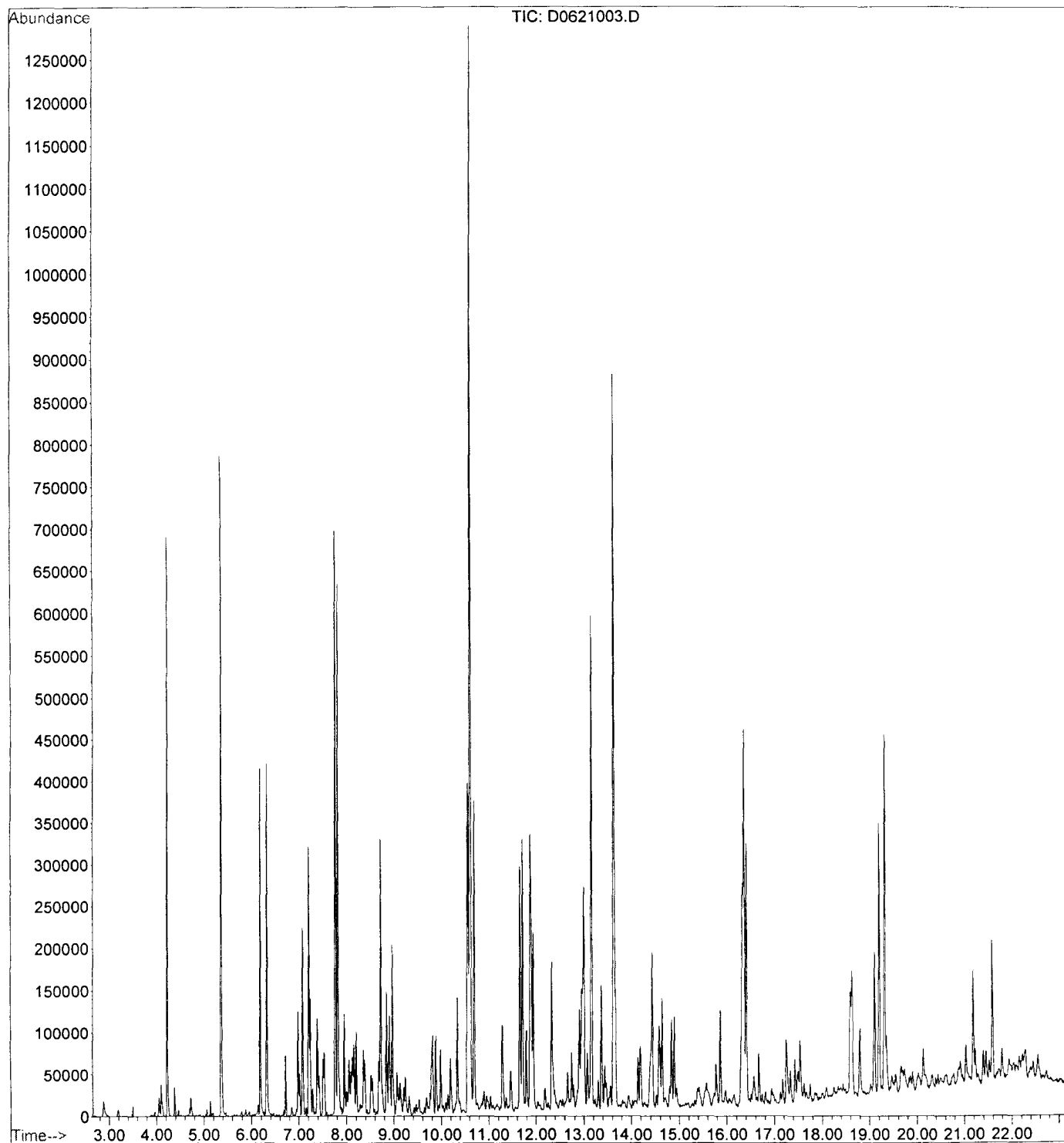
File : D:\NYACK\1NYACK\C1F070229\D0620010.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 5:29 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-004 10x soil 6/11/01 clp3.2  
Misc Info : eeh271ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 12

SD 320 (0-2)

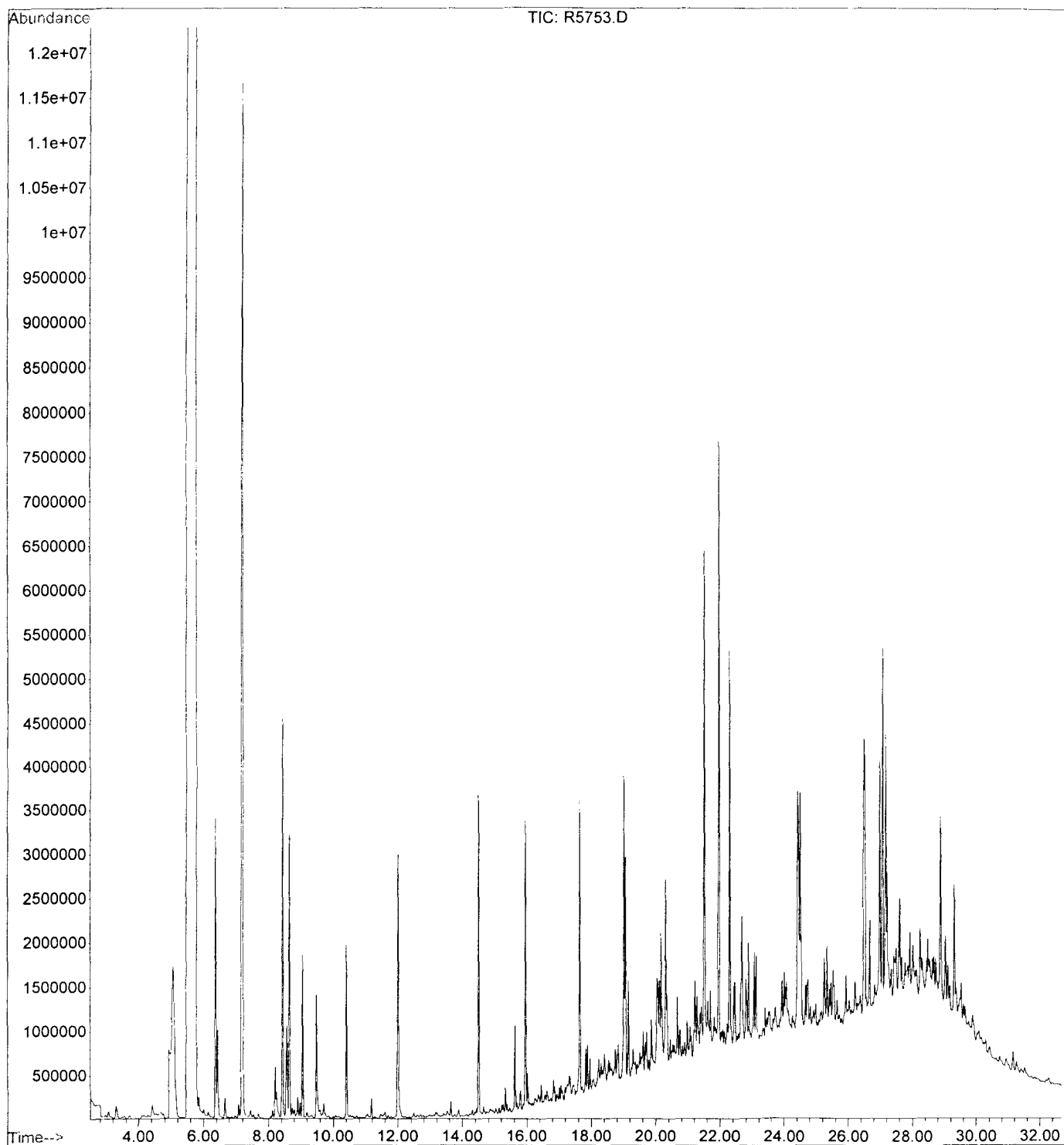


File : D:\NYACK\1NYACK\C1F070229\D0621003.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 2:44 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-004 20x soil 6/11/01 clp3.2  
Misc Info : eeh271ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 5

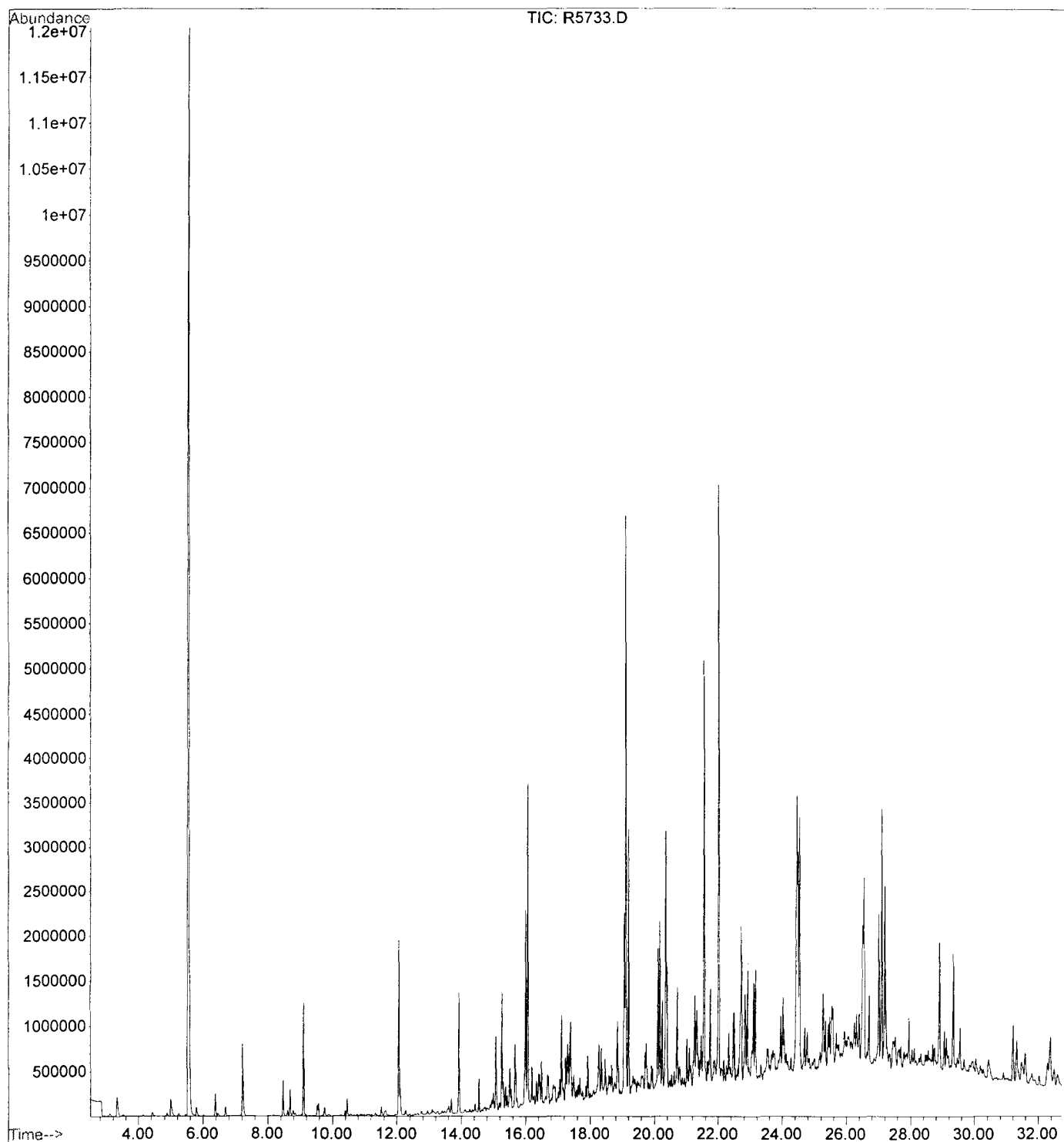
SD 320 (0.2)



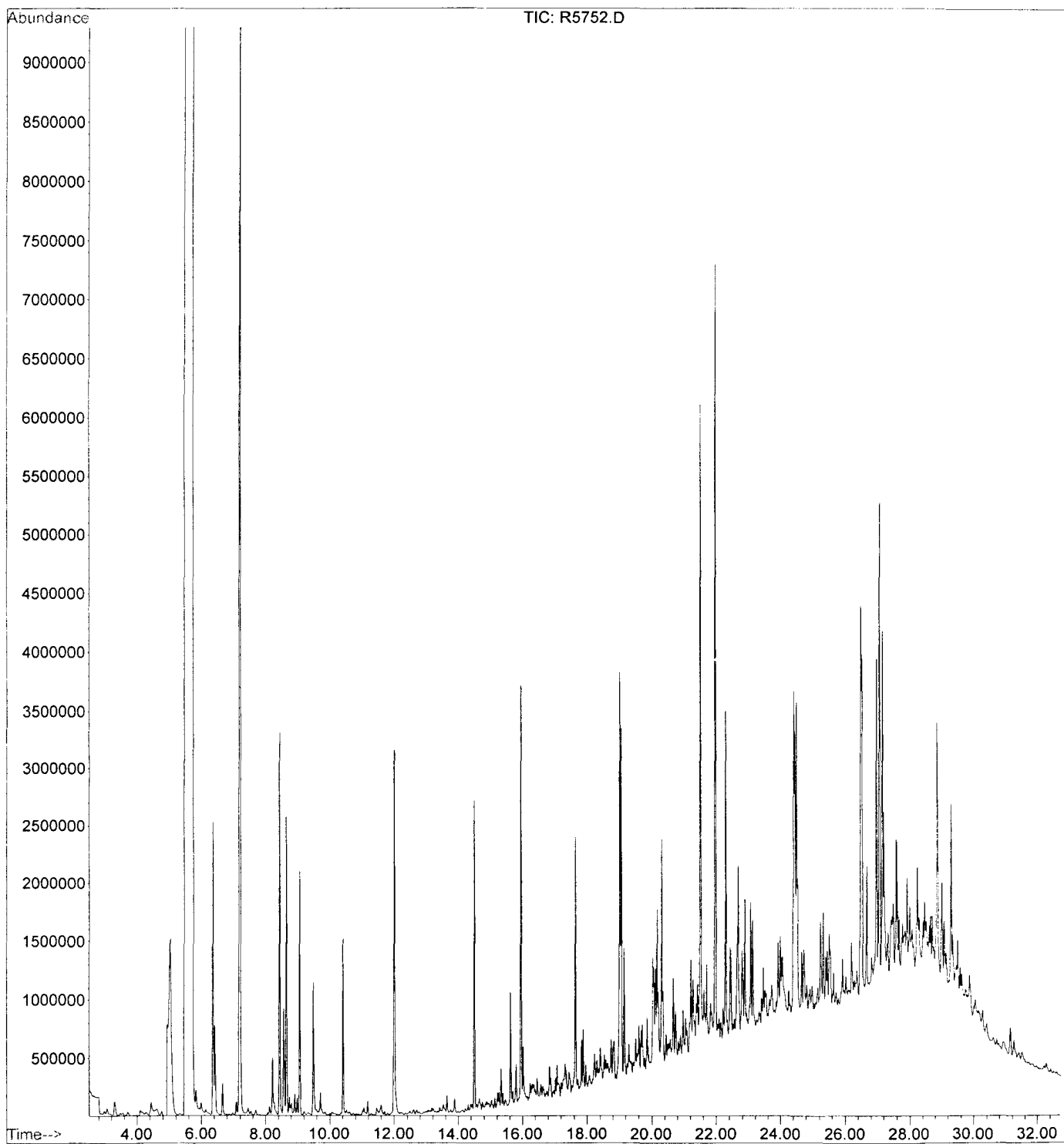
File : D:\HPCHEM\MSR\R5753.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 4:50 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-17  
Misc Info : SD4 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 8



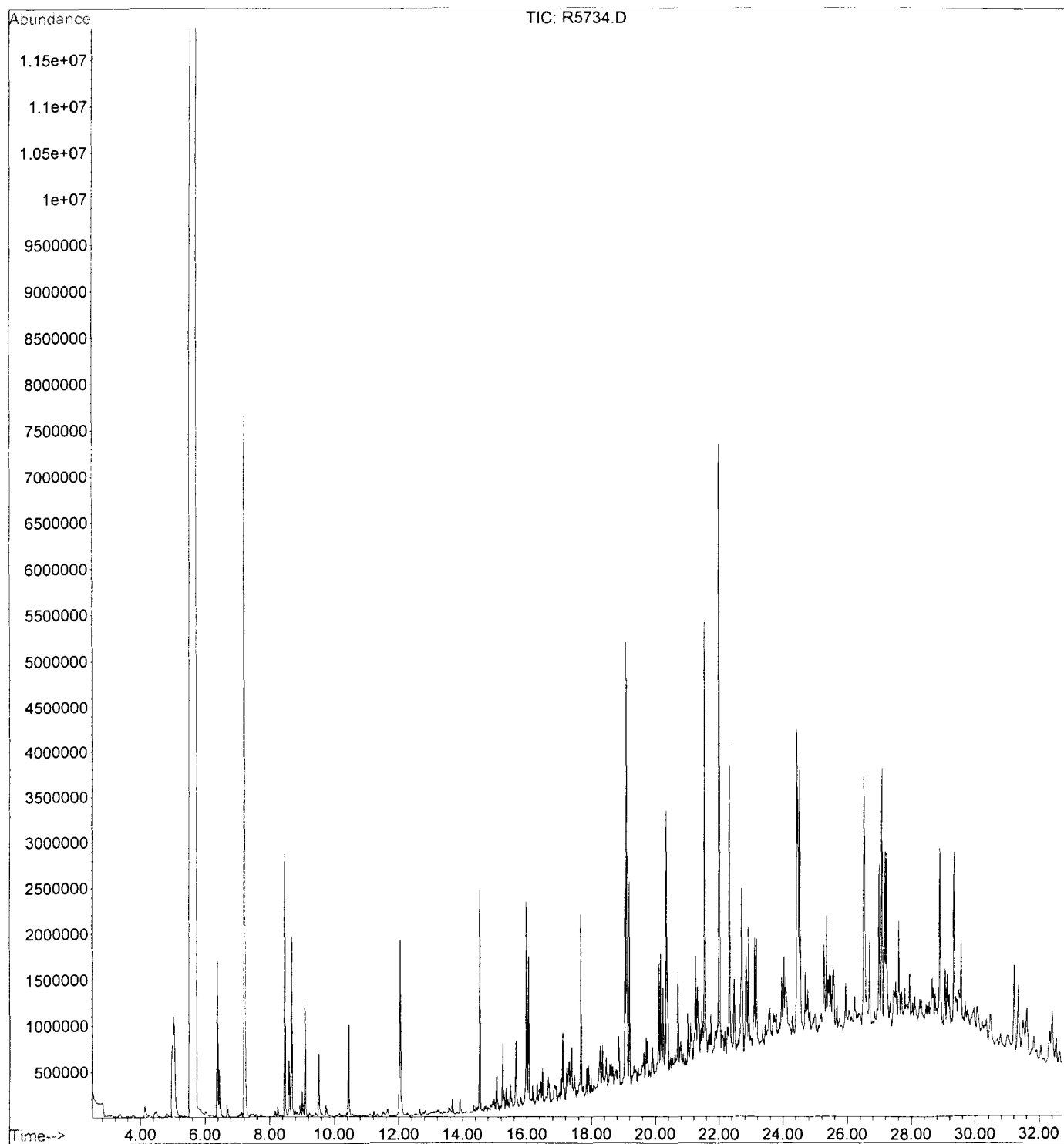
File : D:\HPCHEM\MSR\R5733.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 2:39 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-11  
Misc Info : SD4 (0.4-1.4) ; OLM ; 10 ; LLS ; SOIL  
Vial Number: 6



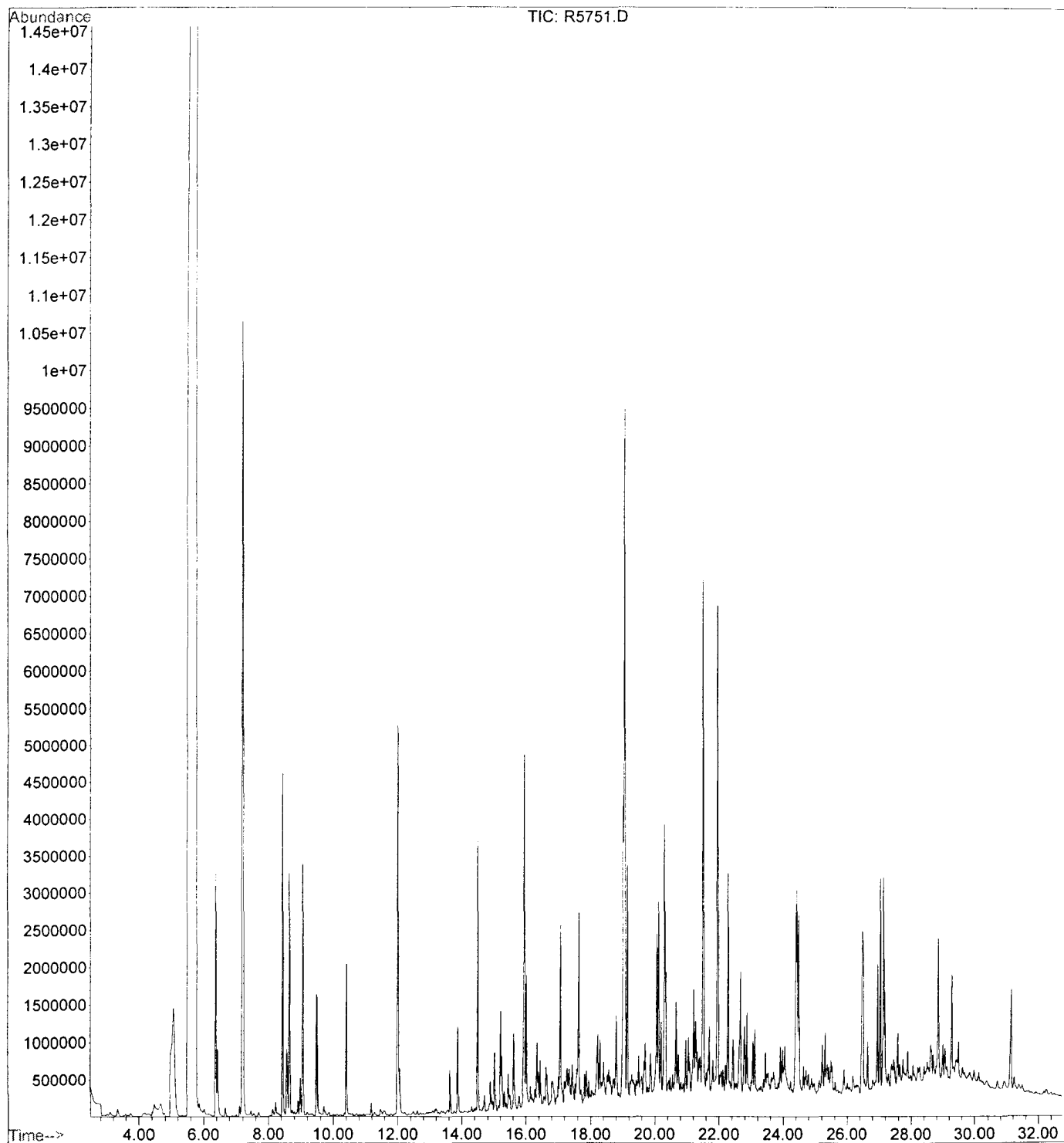
File : D:\HPCHEM\MSR\R5752.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 4:08 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-18  
Misc Info : SD6 (0.0-0.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 7 5?



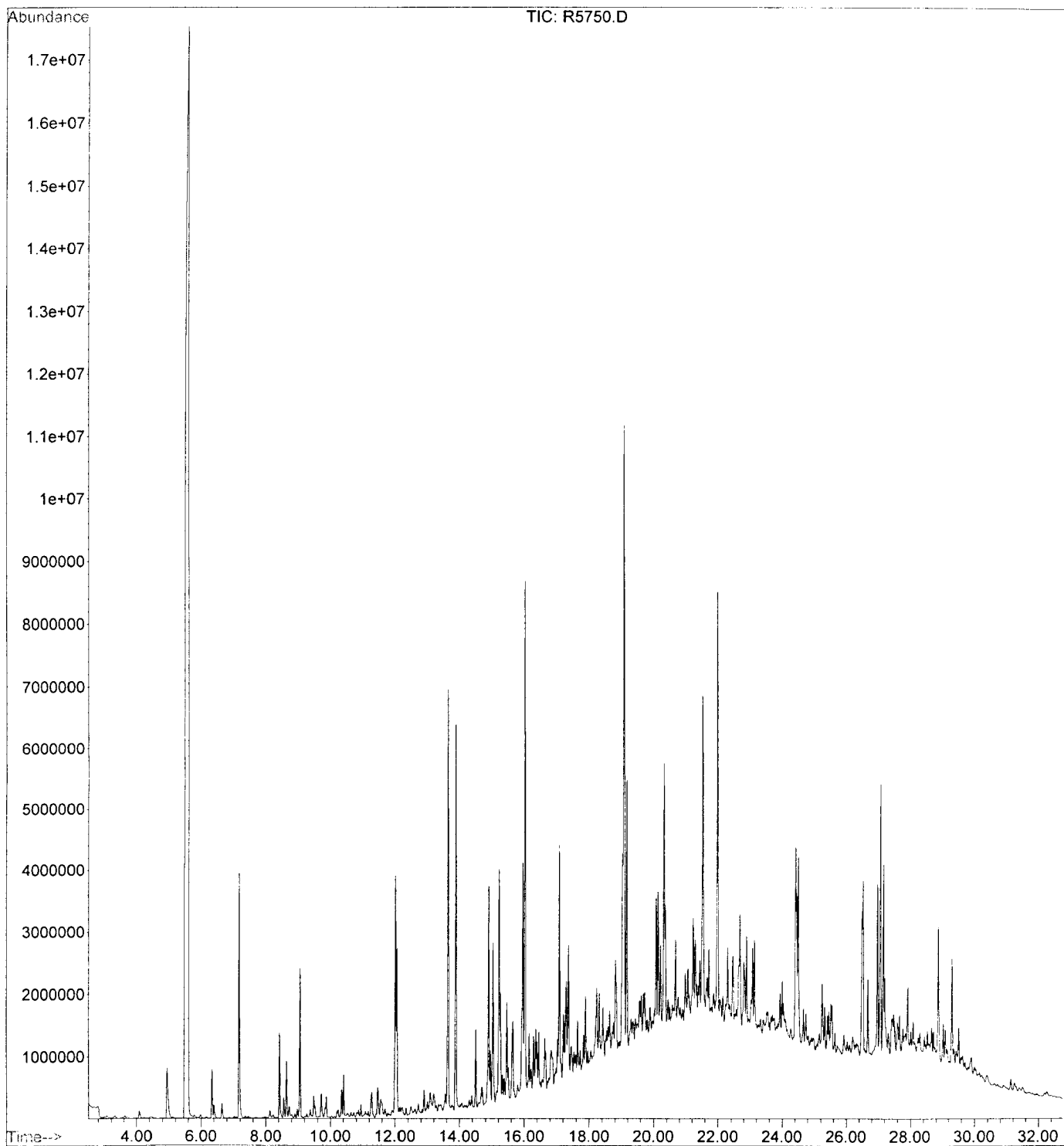
File : D:\HPCHEM\MSR\R5734.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 3:21 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-14  
Misc Info : SD5 (0.5-1.3) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 7



File : D:\HPCHEM\MSR\R5751.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 3:26 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-12  
Misc Info : SD6 (0.0-0.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 6

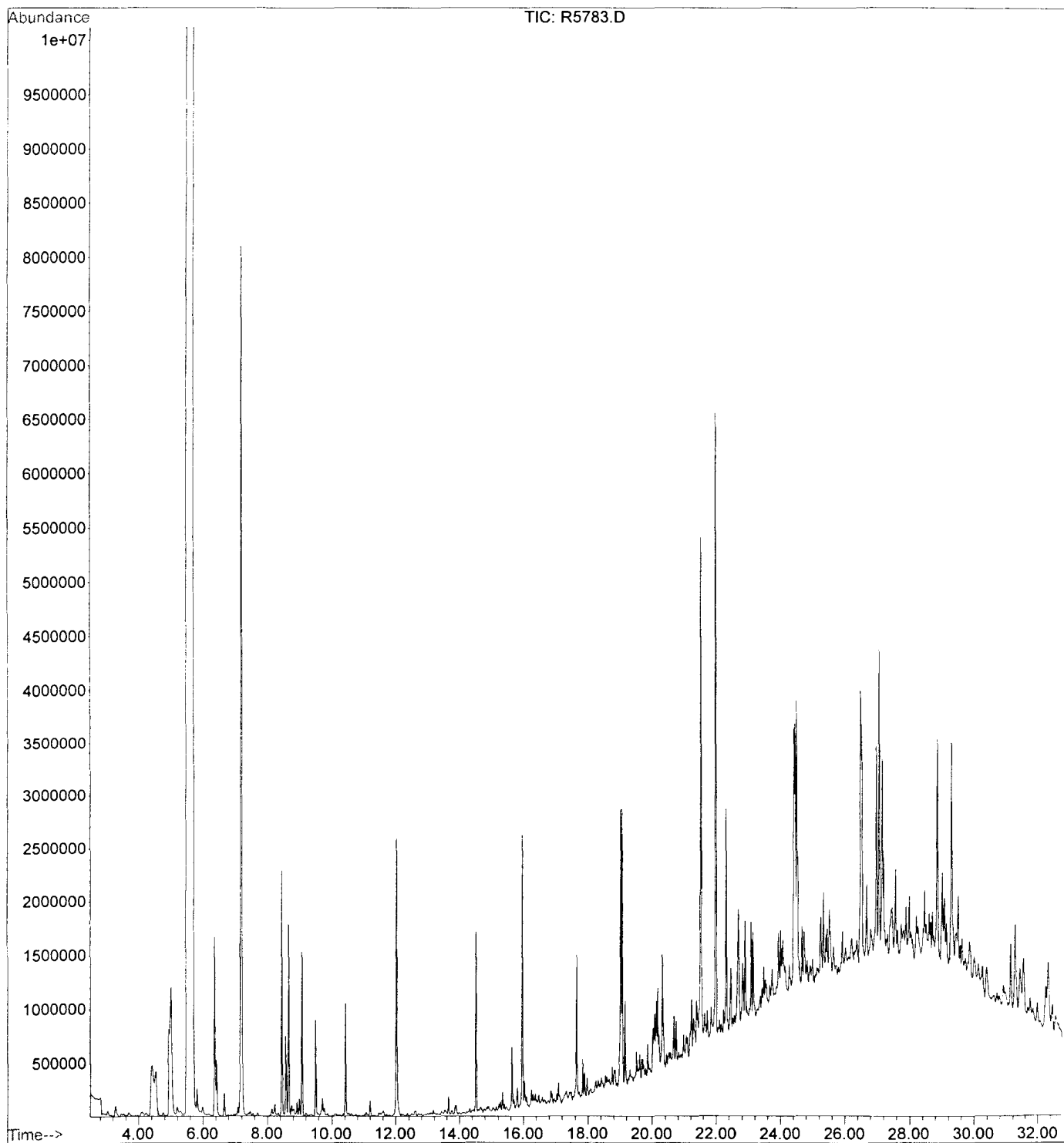


File : D:\HPCHEM\MSR\R5750.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 2:44 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-13  
Misc Info : SD6 (2.1-2.3) ; OLM ; 5 ; LLS ; SOIL  
Vial Number: 5

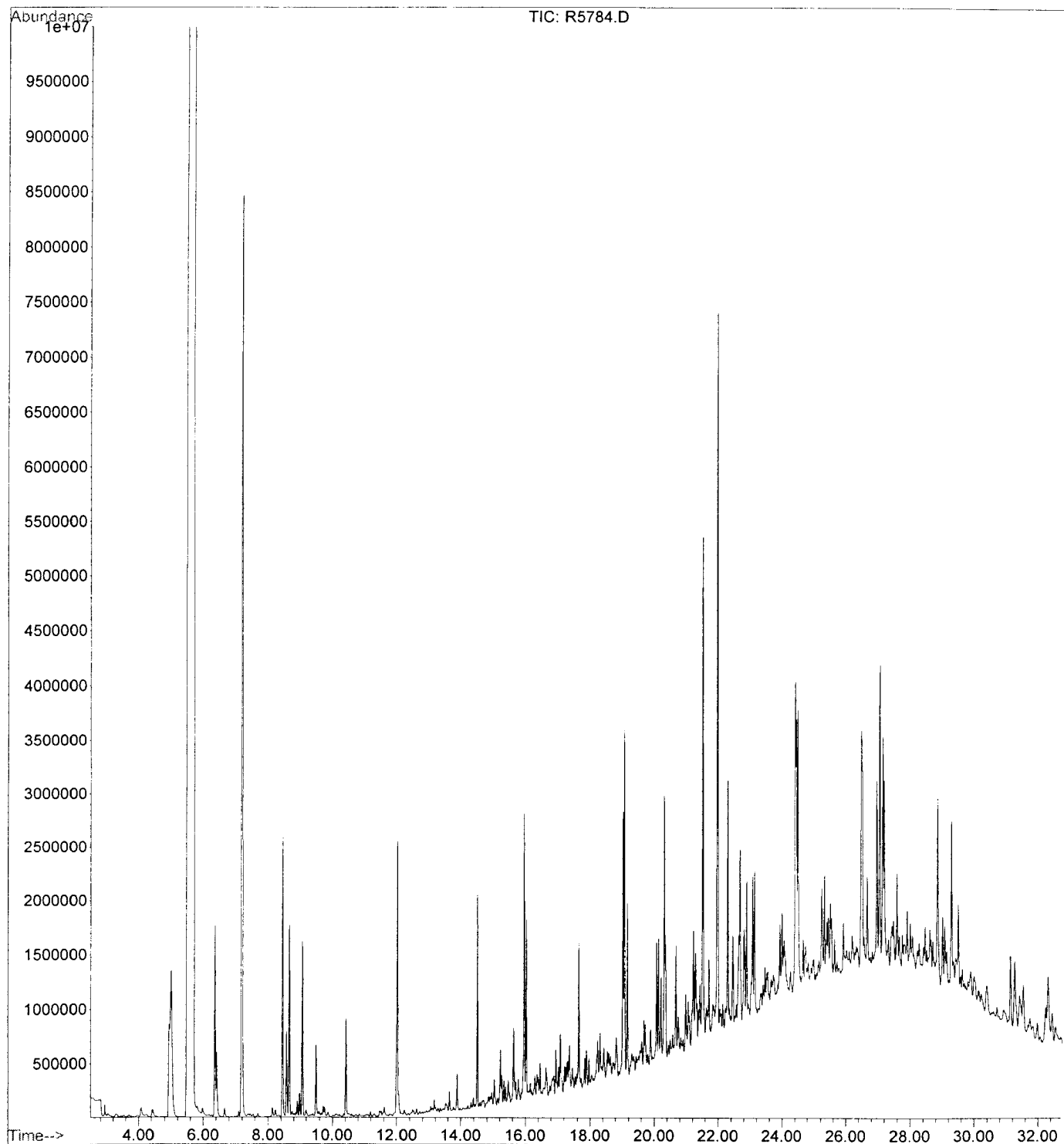




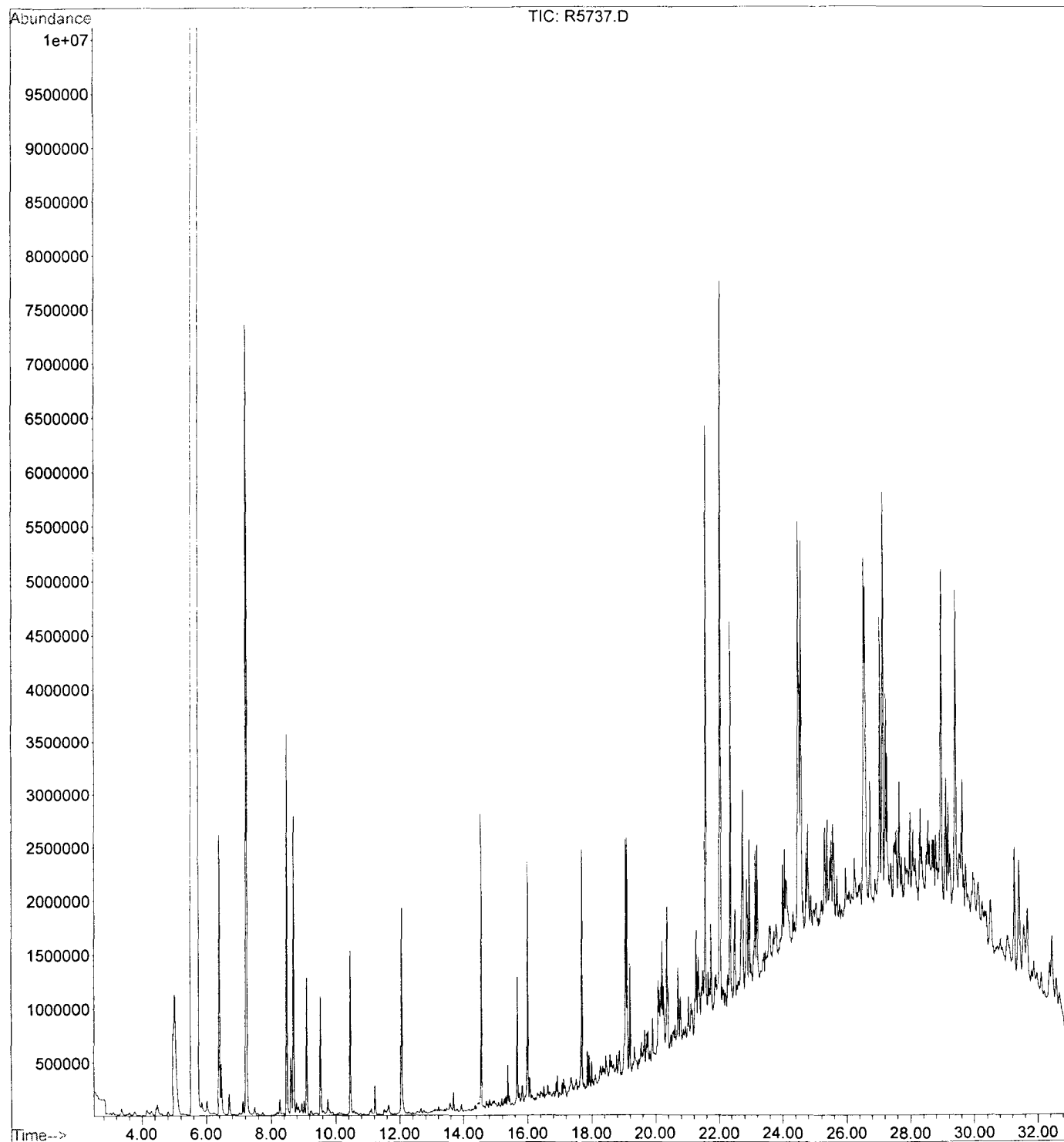
File : D:\HPCHEM\MSR\R5783.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 4:52 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993337A-01  
Misc Info : SD7 (0.0-0.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 9



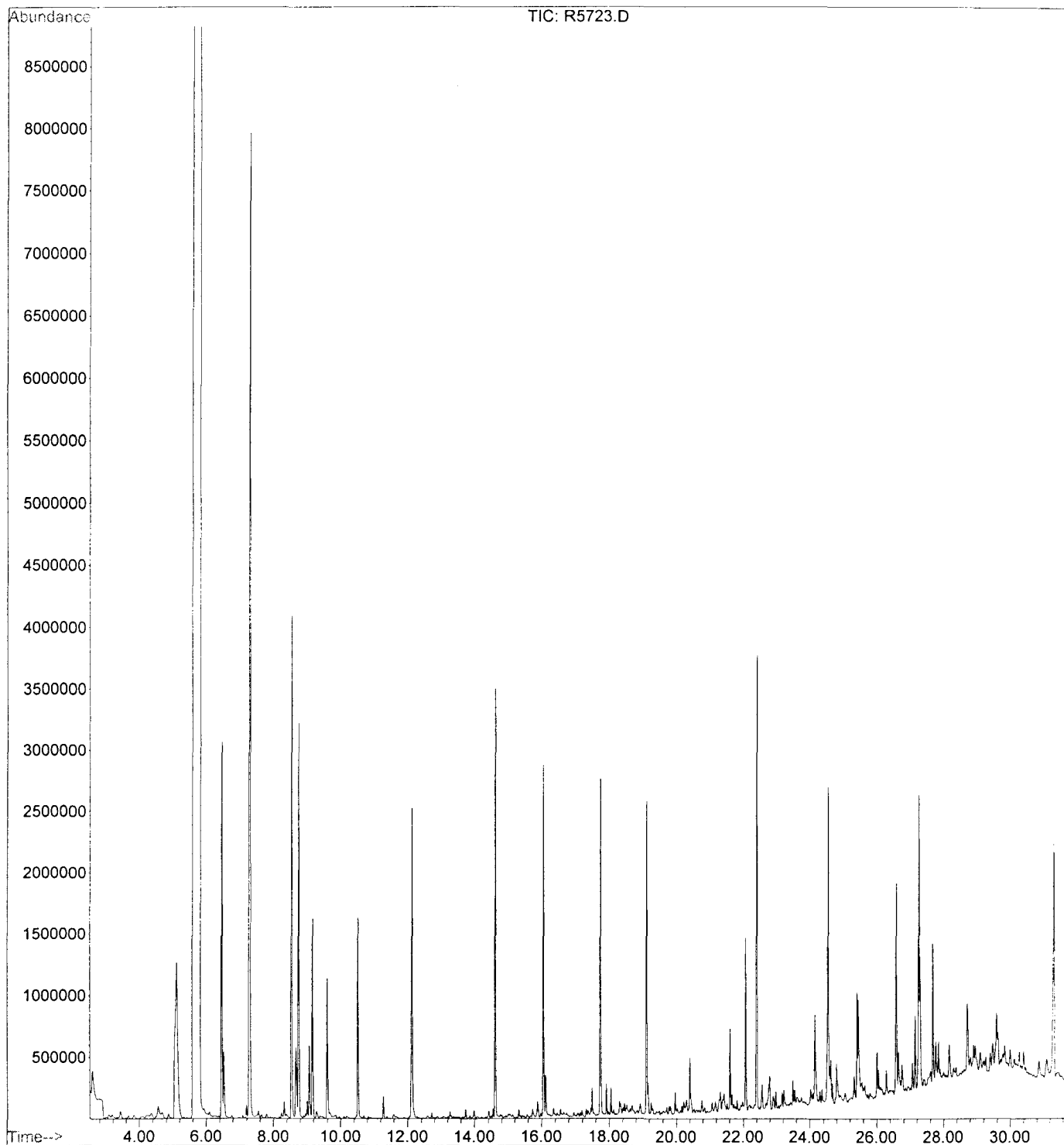
File : D:\HPCHEM\MSR\R5784.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 5:34 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-02  
Misc Info : SD7 (0.2-2.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 10



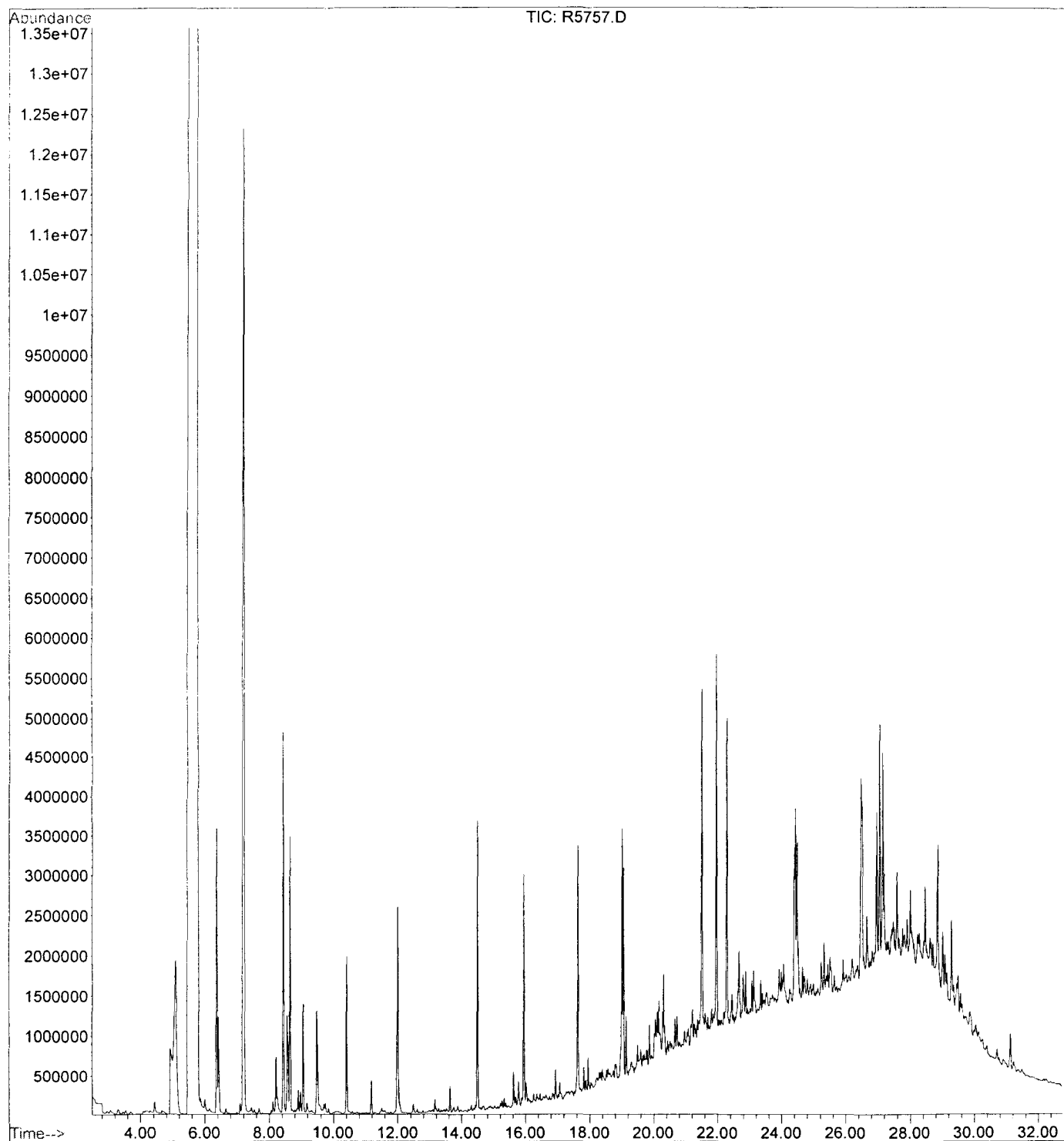
File : D:\HPCHEM\MSR\R5737.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 5:29 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-03  
Misc Info : SD8 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 10



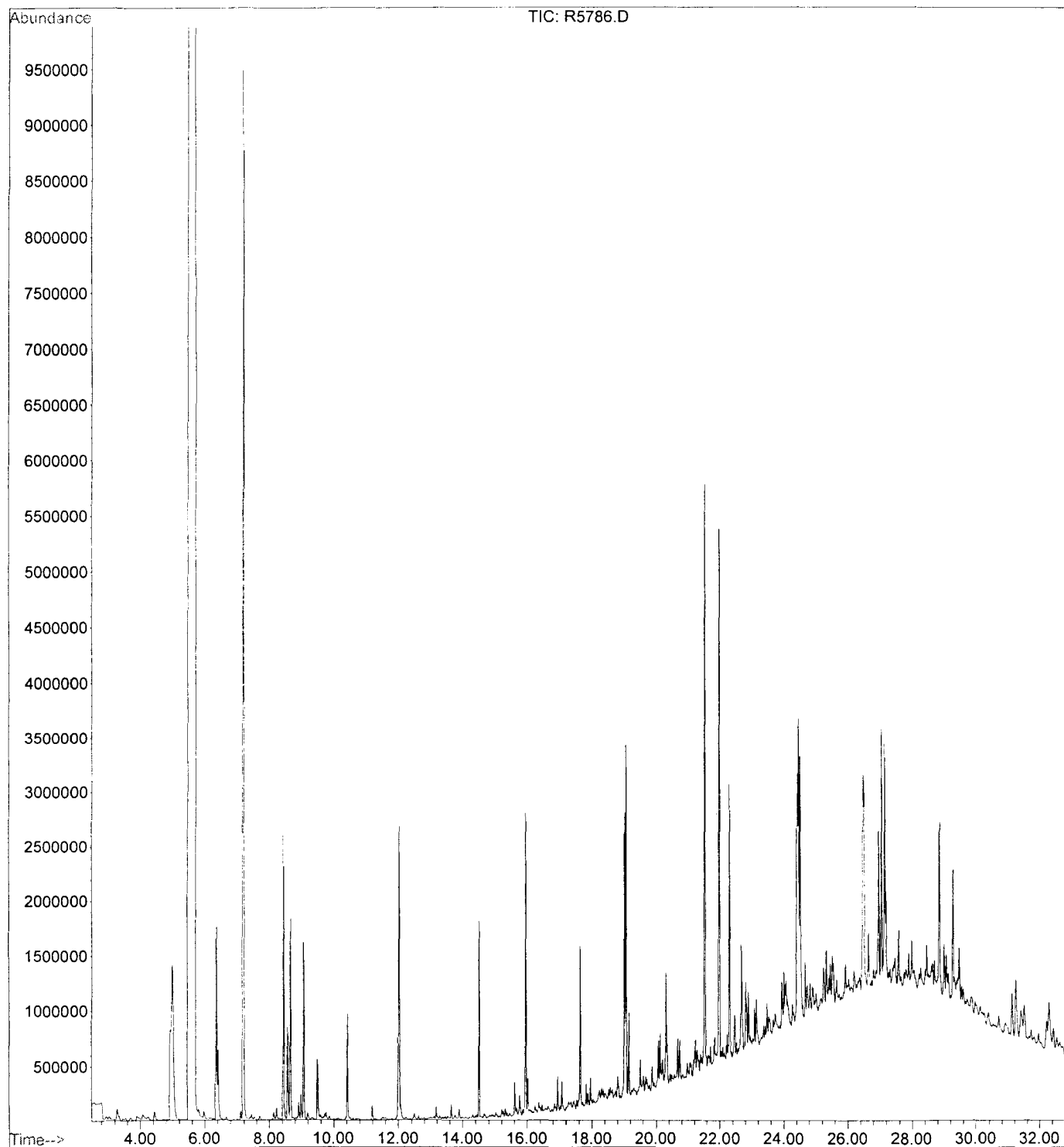
File : D:\HPCHEM\MSR\R5723.D  
Operator : C.LOMBARDI  
Acquired : 5 Jan 2000 9:29 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-04  
Misc Info : SD8 (0.5-2.0) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 14



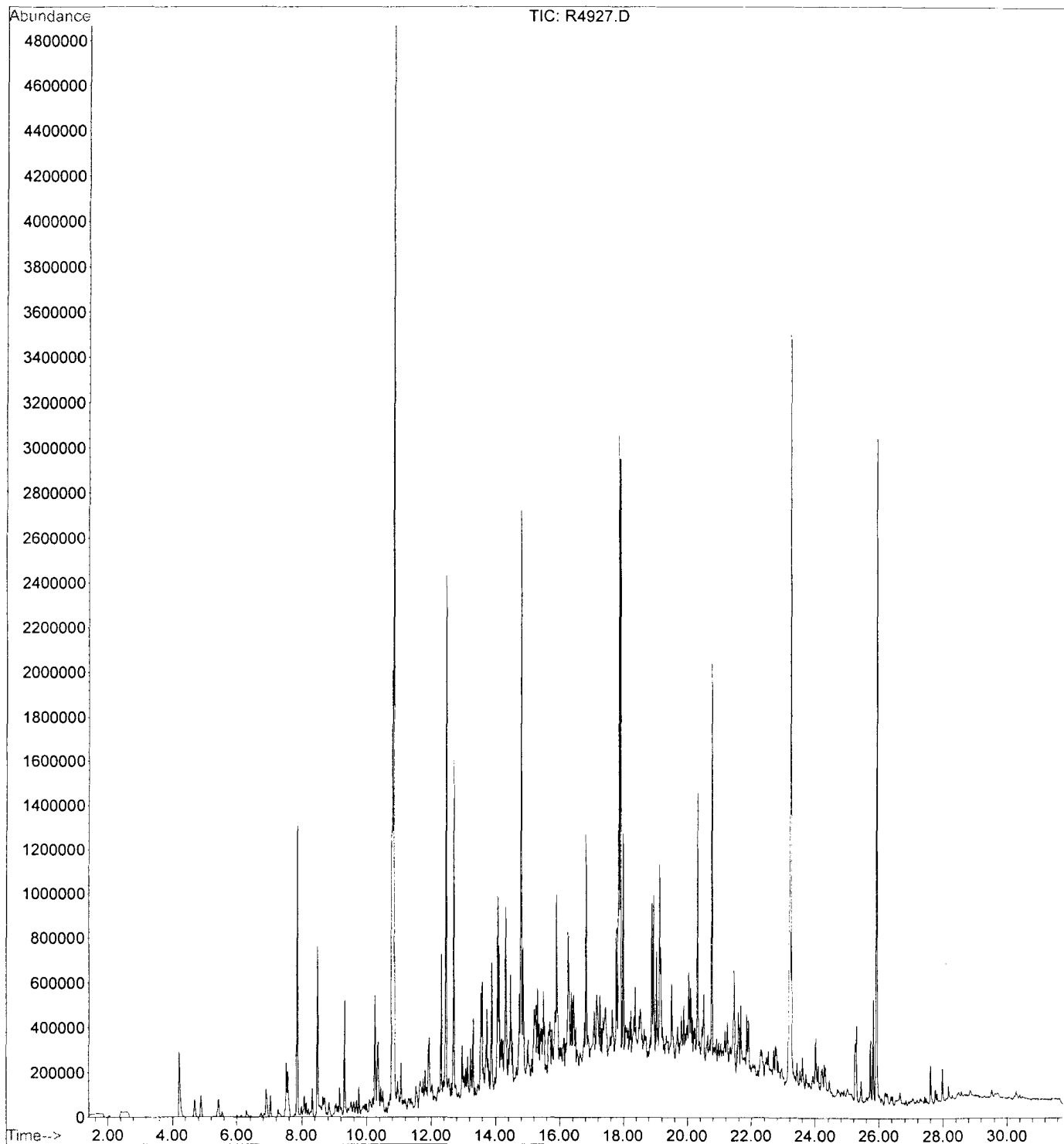
File : D:\HPCHEM\MSR\R5757.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 7:37 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993337A-02  
Misc Info : SD9 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 12



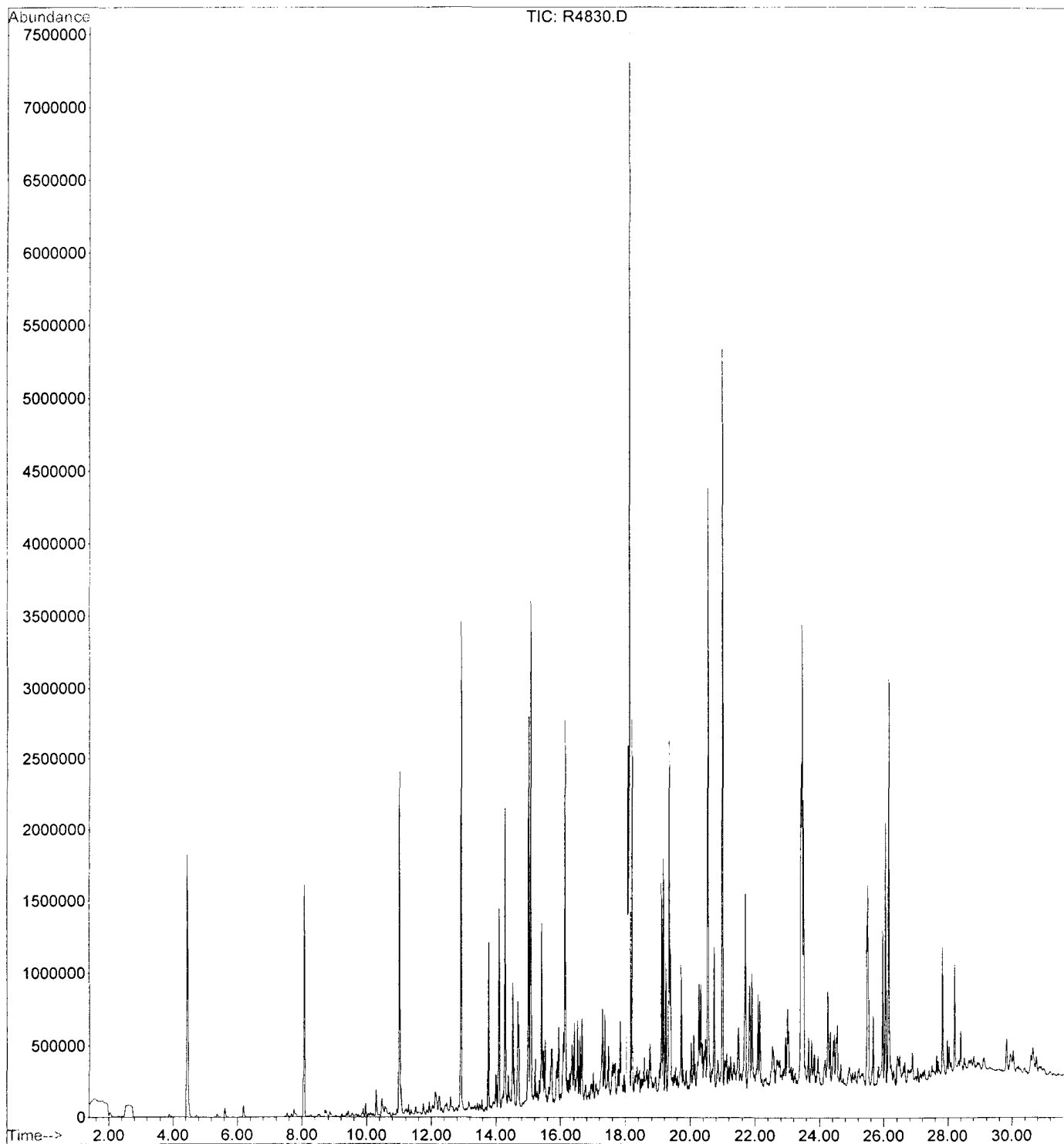
File : D:\HPCHEM\MSR\R5786.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 6:58 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-05  
Misc Info : SD9 (0.4-2.4) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 12



File : D:\HPCHEM\MSR\R4927.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 9:05 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992477A-01  
Misc Info : TP1 (8.0-9.0) ; OLM ; 100 ; LLS ; R0340  
Vial Number: 7

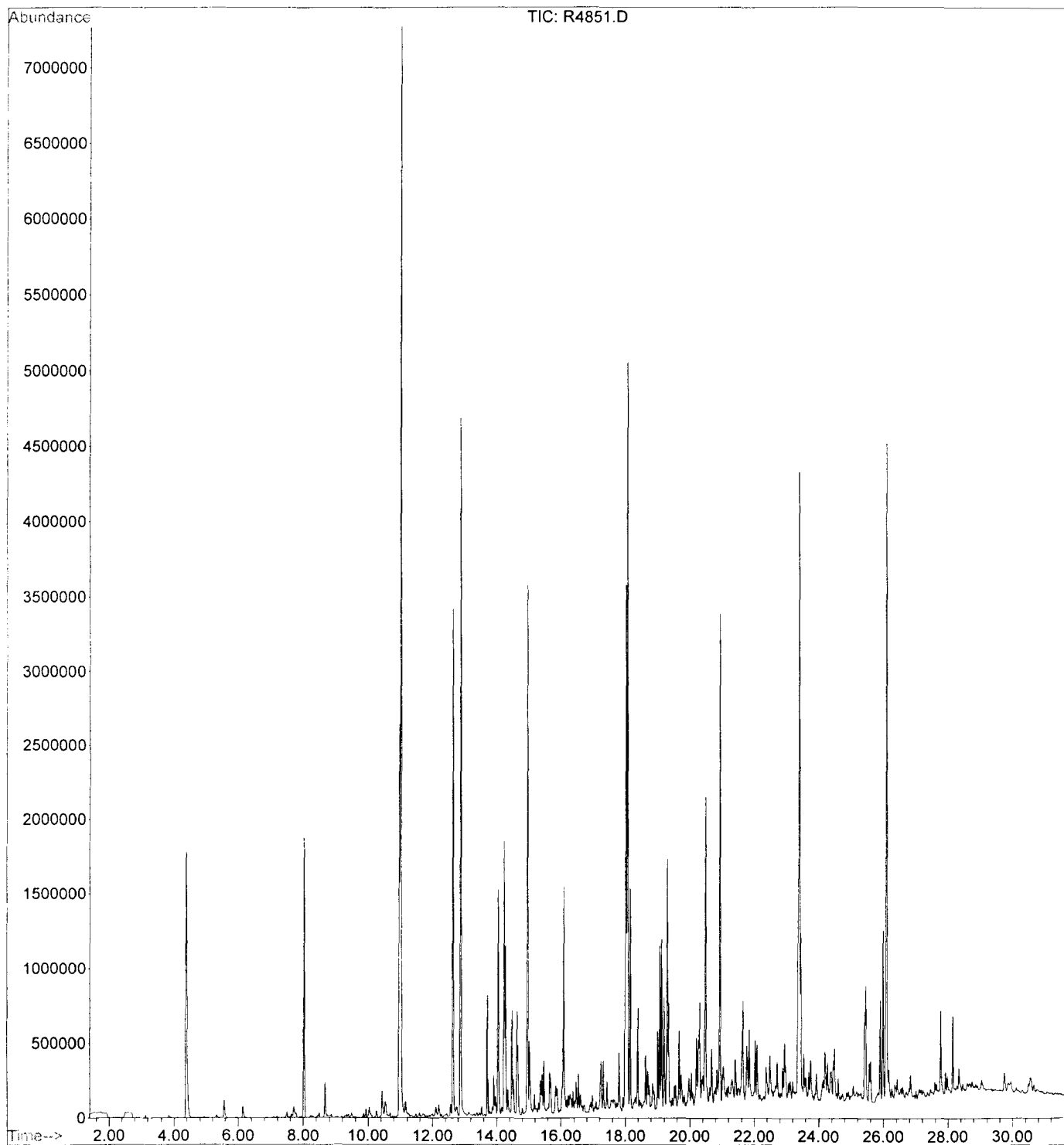


File : D:\HPCHEM\MSR\R4830.D  
Operator : C.LOMBARDI  
Acquired : 28 Oct 1999 1:48 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-03  
Misc Info : TP10 (9.5-10.5) ; OLM ; 50 ; LLS ; R0334  
Vial Number: 6

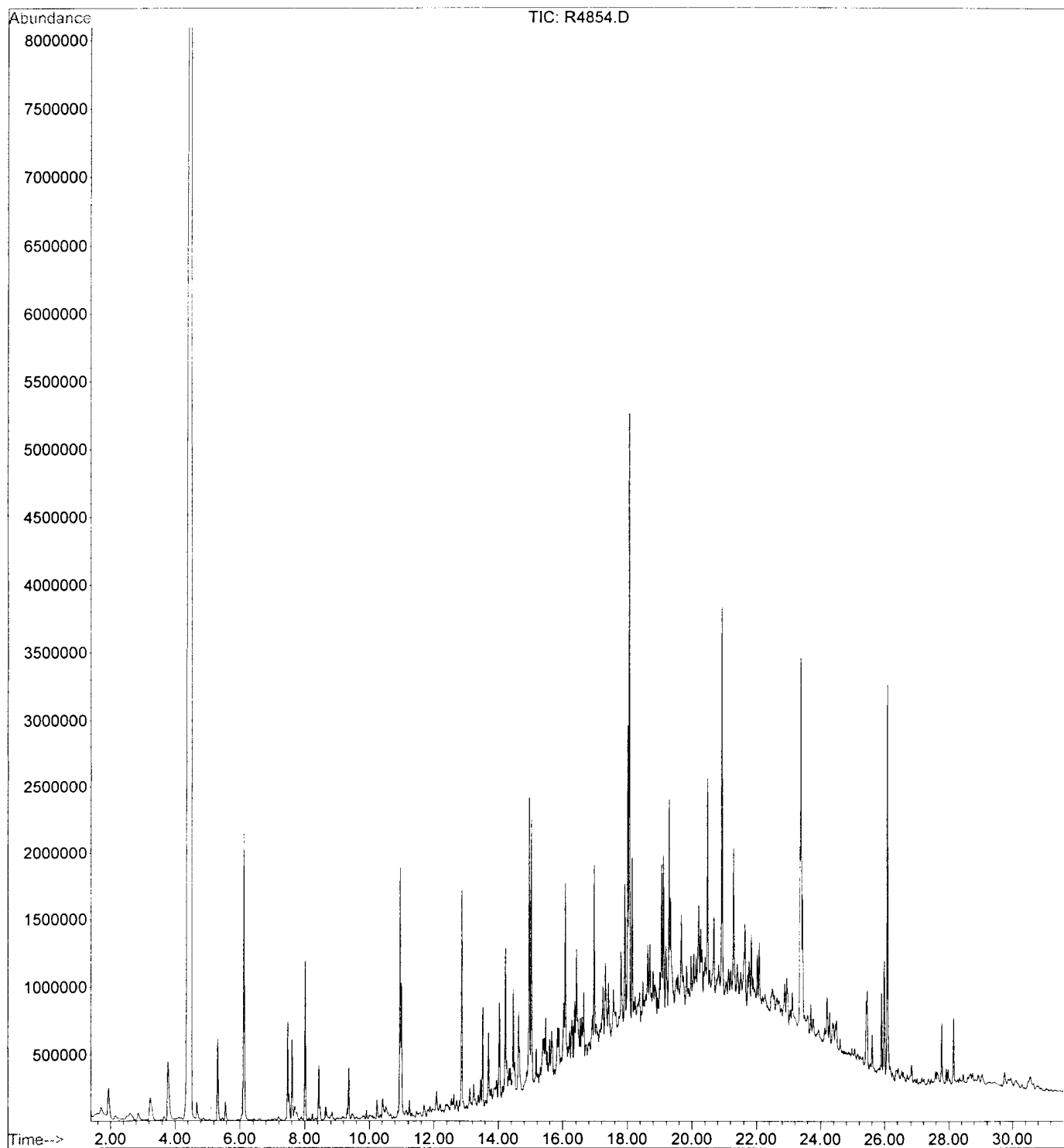




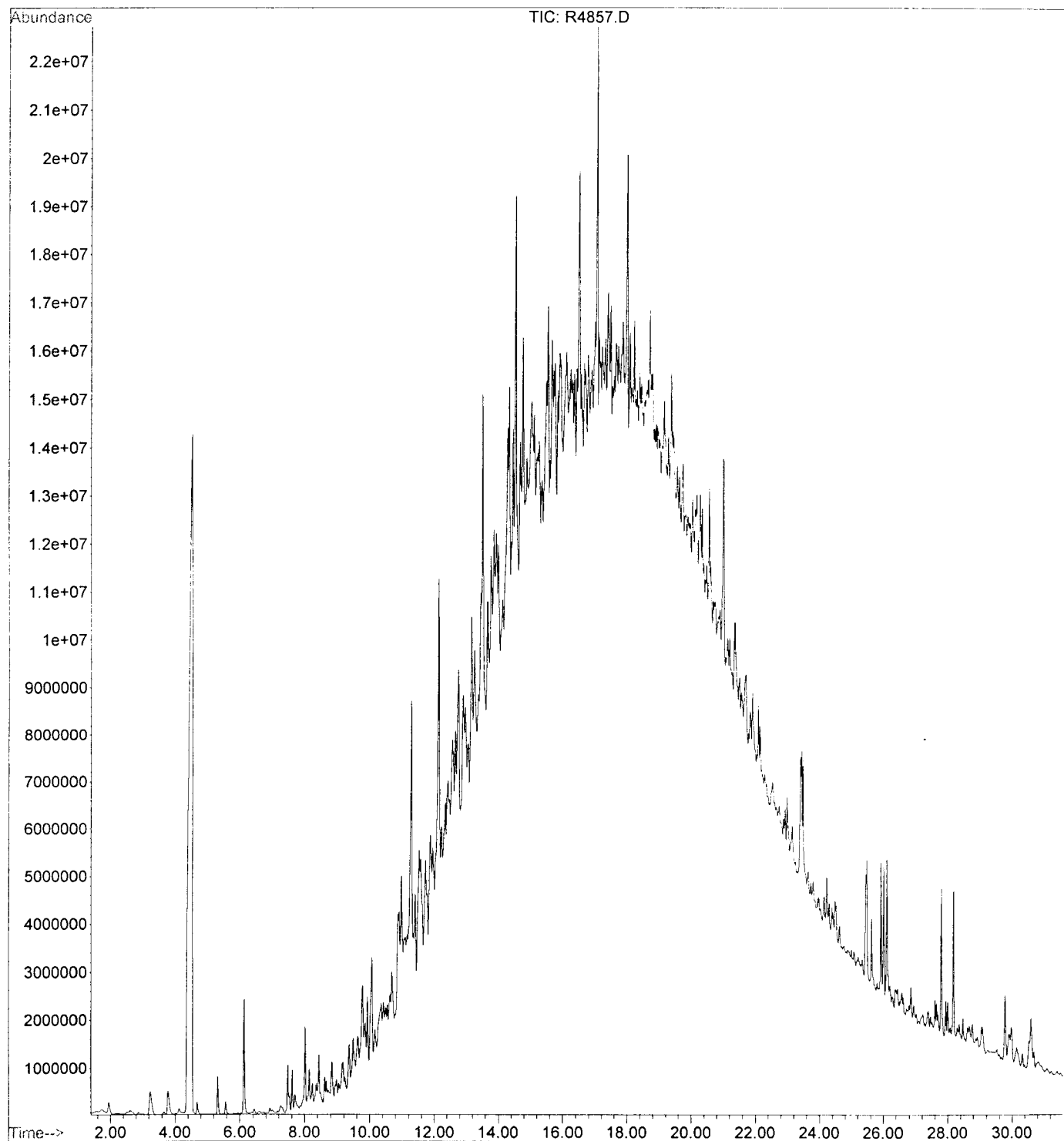
File : D:\HPCHEM\MSR\R4851.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 2:01 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-05  
Misc Info : TP13 (8-9) ; OLM ; 50 ; LLS ; R0335  
Vial Number: 6



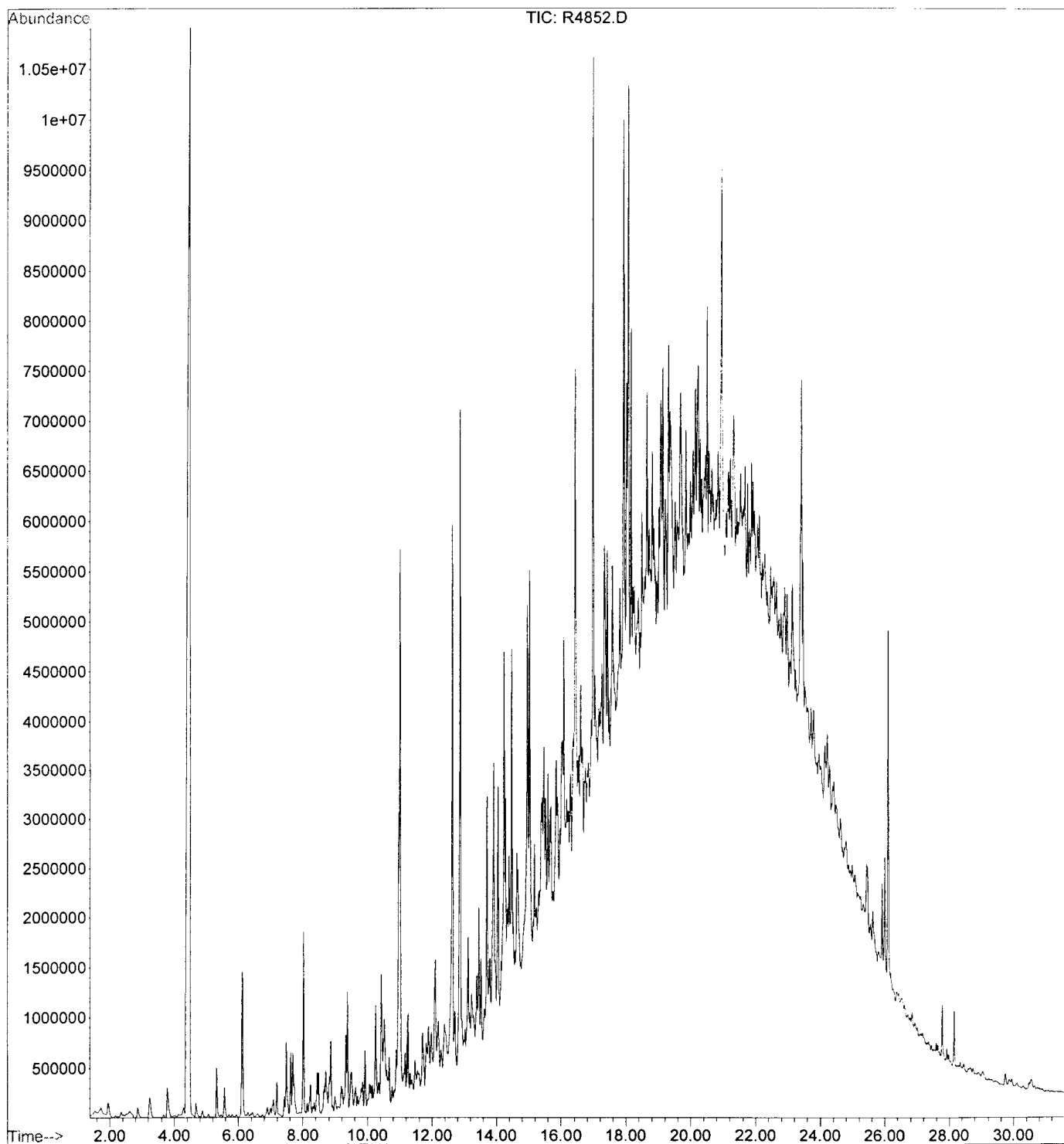
File : D:\HPCHEM\MSR\R4854.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 4:02 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-10  
Misc Info : TP14 (9.0-10.0) ; OLM ; 4 ; LLS ; R0335  
Vial Number: 9



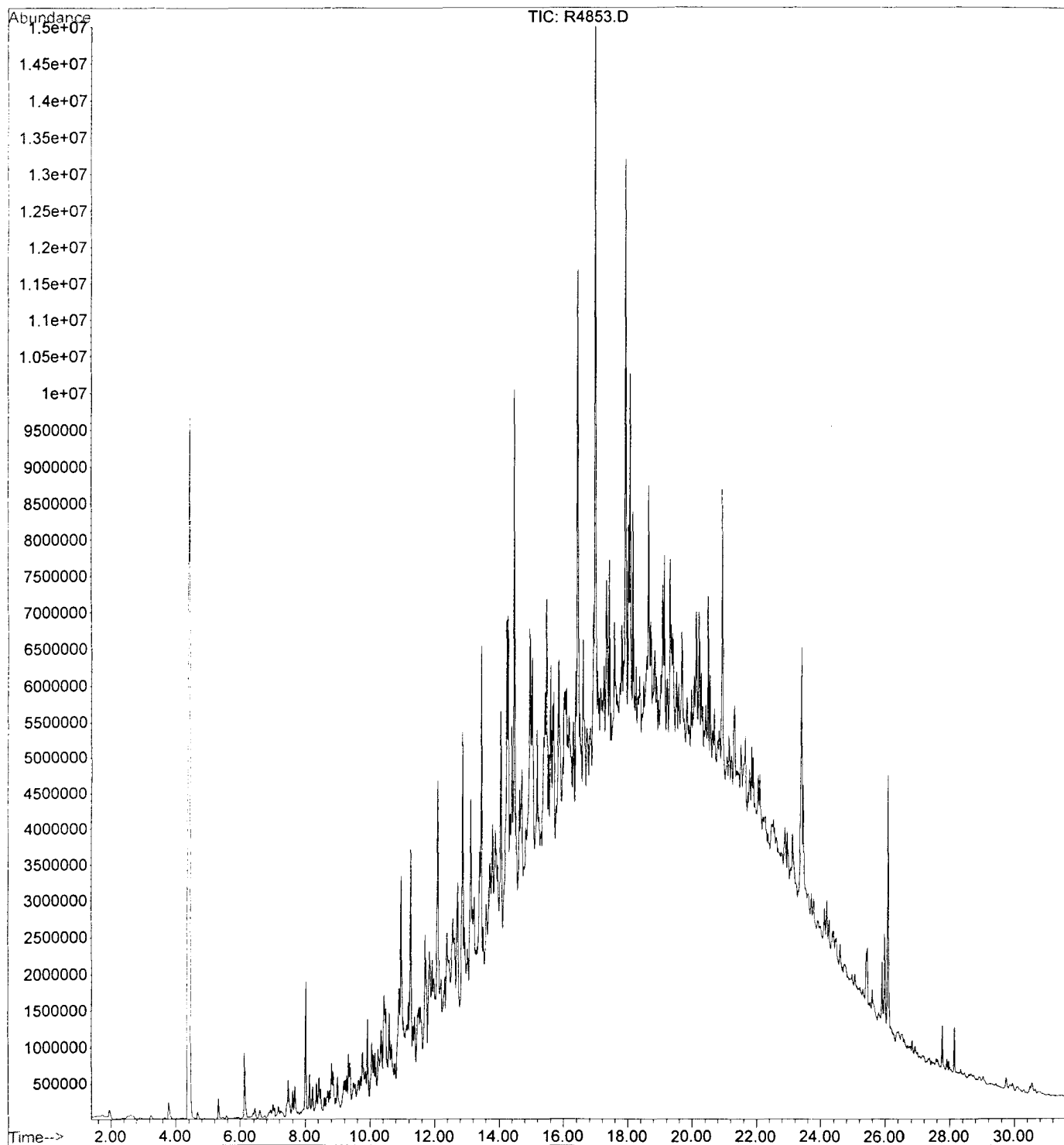
File : D:\HPCHEM\MSR\R4857.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 6:04 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-14  
Misc Info : TP14 HLDR B \; OLM ; 5 ; LLS ; R0335  
Vial Number: 12



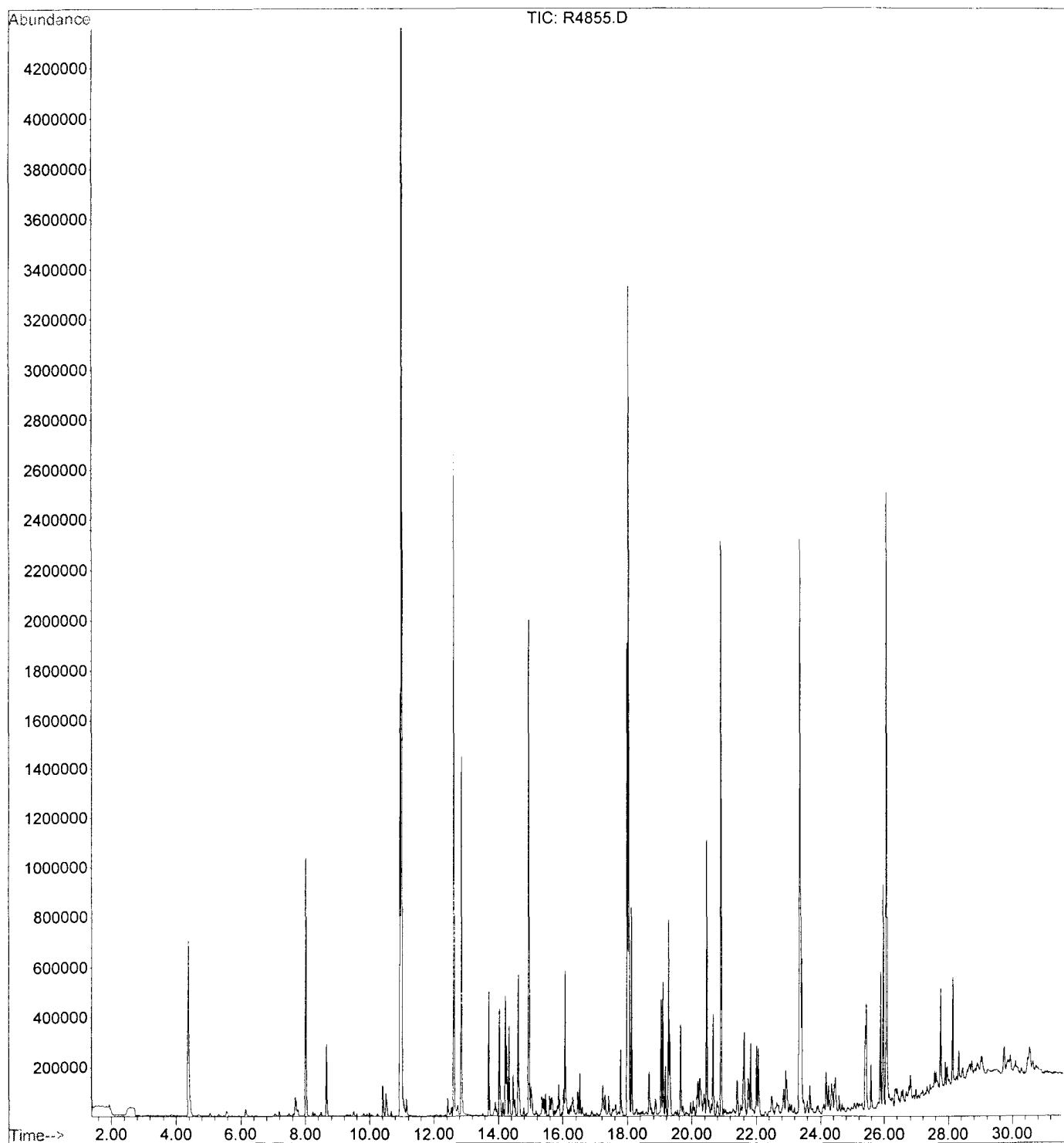
File : D:\HPCHEM\MSR\R4852.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 2:41 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-08  
Misc Info : TP15 (9.0-10.0) ; OLM ; 5 ; LLS ; R0335  
Vial Number: 7



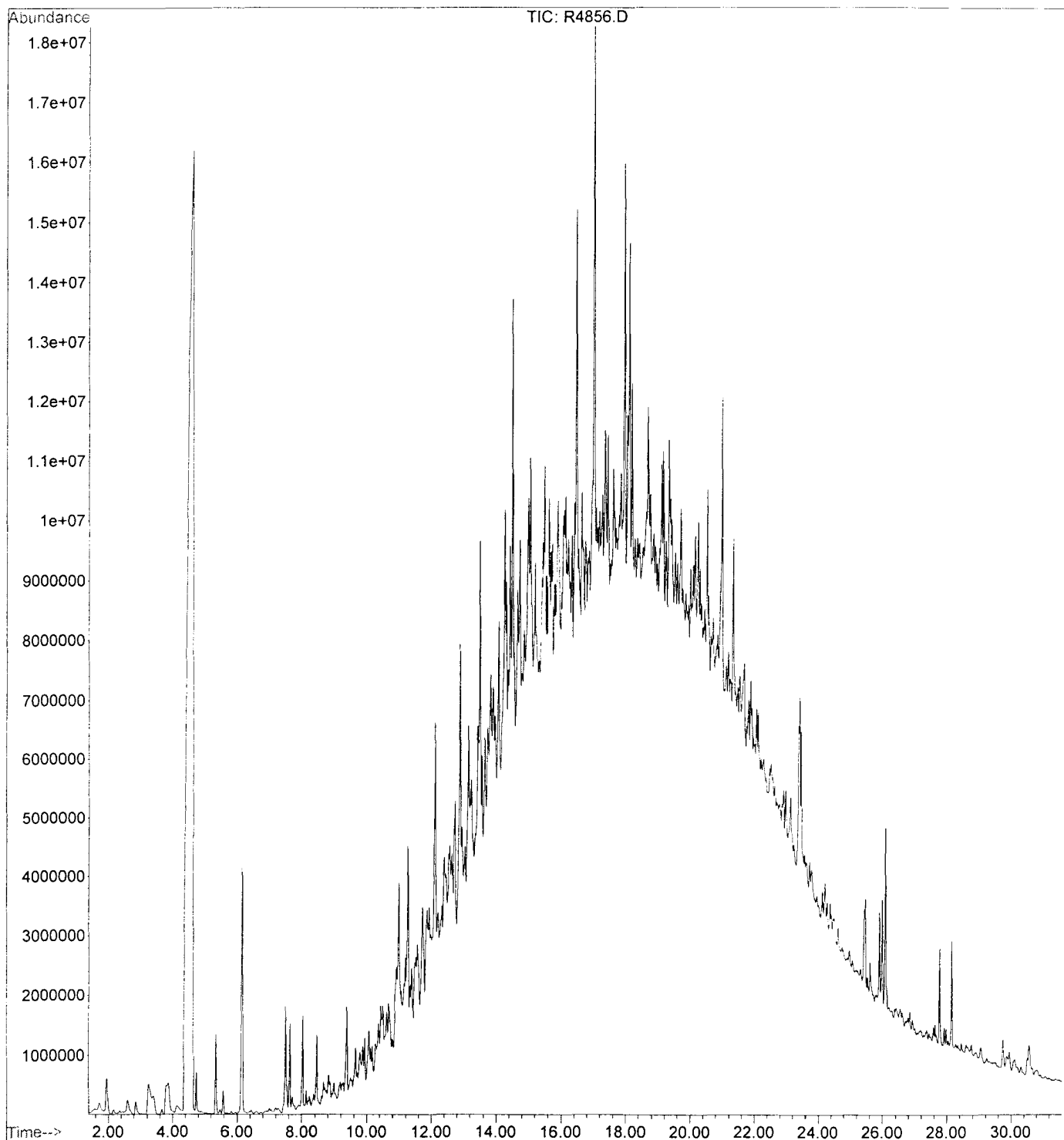
File : D:\HPCHEM\MSR\R4853.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 3:22 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-09  
Misc Info : TP2 (8.0-9.0); OLM ; 10 ; LLS ; R0335  
Vial Number: 8



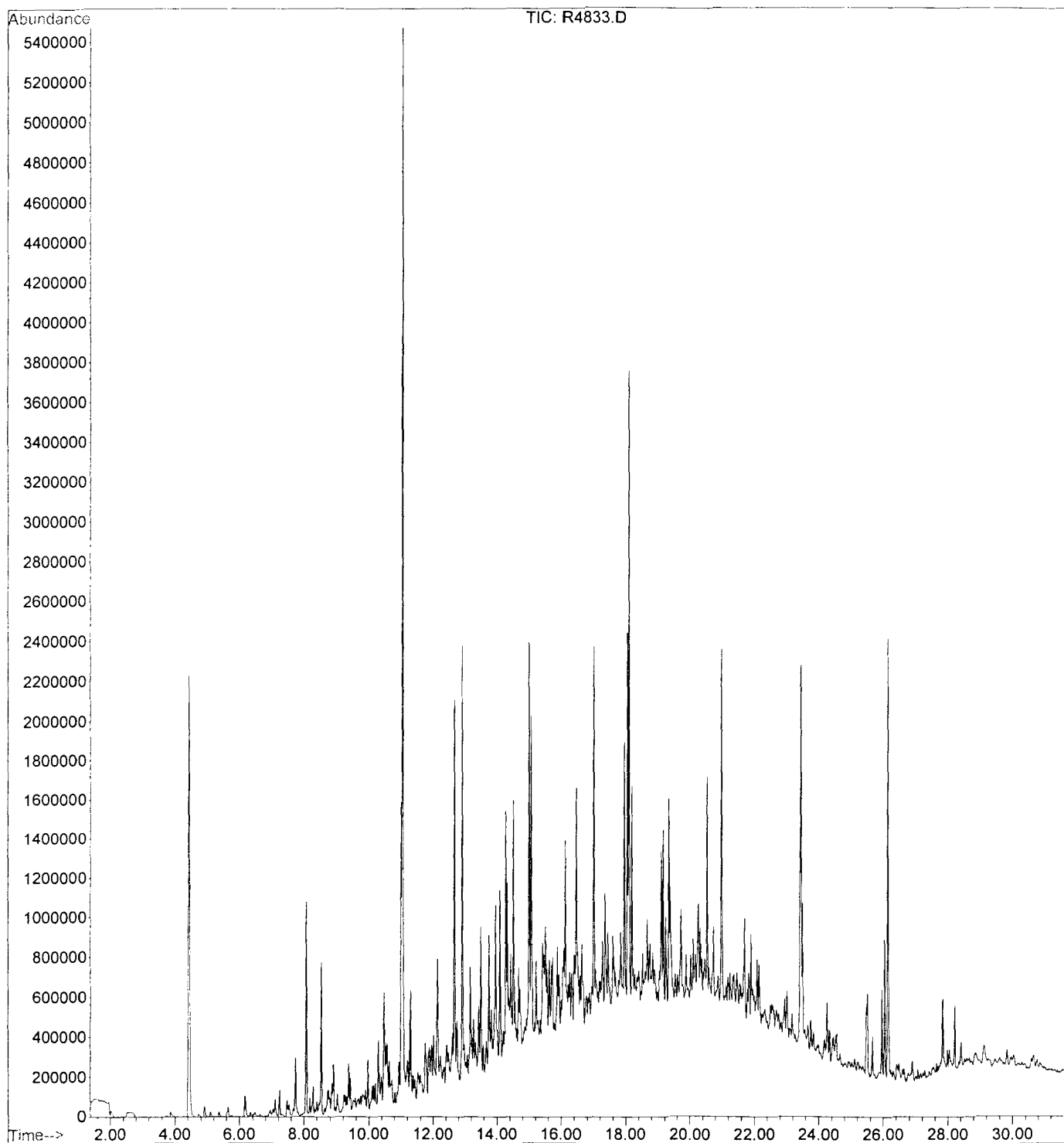
File : D:\HPCHEM\MSR\R4855.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 4:43 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-13  
Misc Info : TP20 (6.5-7.0) ; OLM ; 100 ; LLS ; R0335  
Vial Number: 10



File : D:\HPCHEM\MSR\R4856.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 5:24 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-04  
Misc Info : TP4 (9.5-10.0) ; OLM ; 2 ; LLS ; R0335  
Vial Number: 11

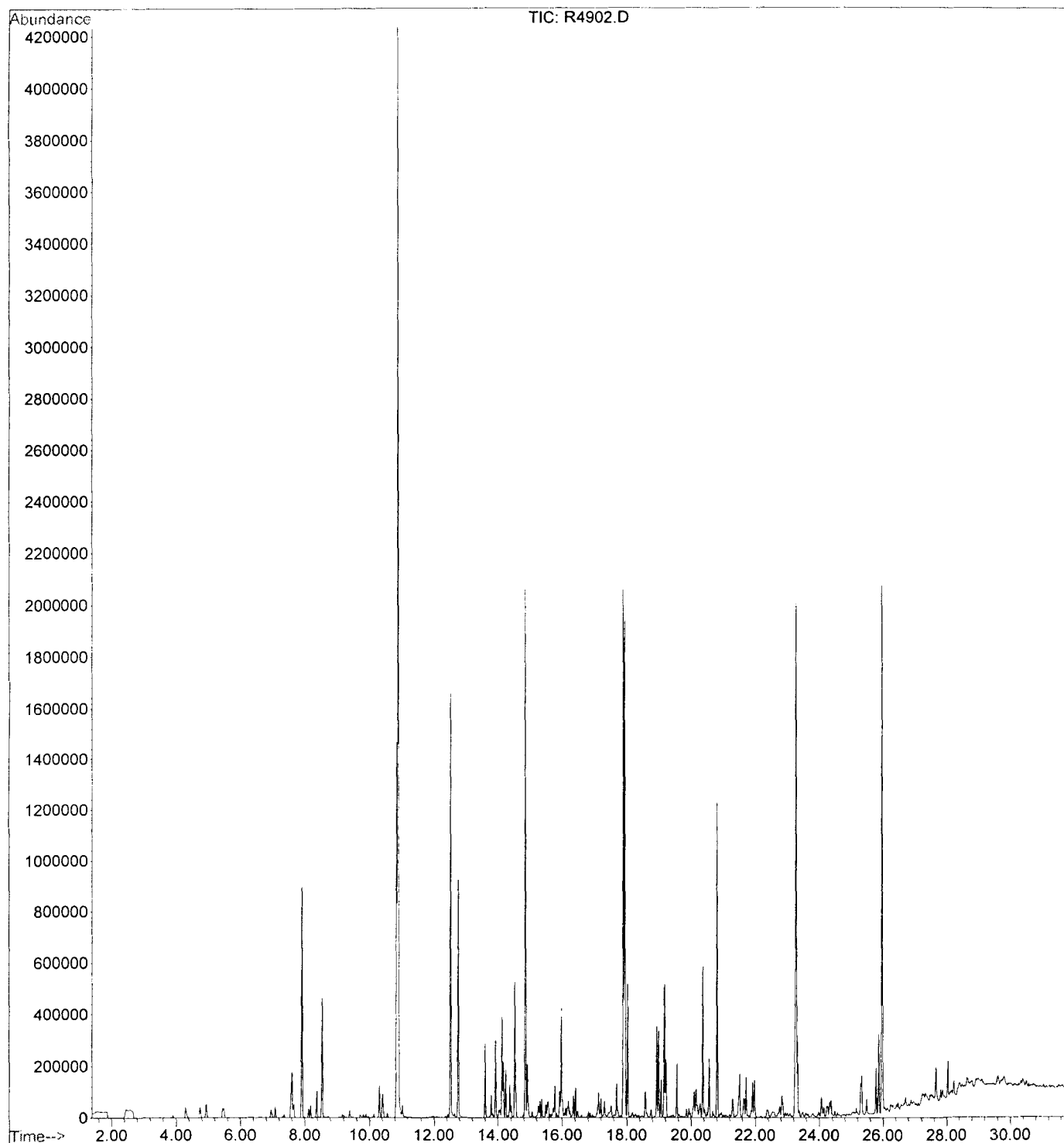


File : D:\HPCHEM\MSR\R4833.D  
Operator : C.LOMBARDI  
Acquired : 28 Oct 1999 3:49 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-07  
Misc Info : TP5 (8.5-9.5) ; OLM ; 25 ; LLS ; R0334  
Vial Number: 9

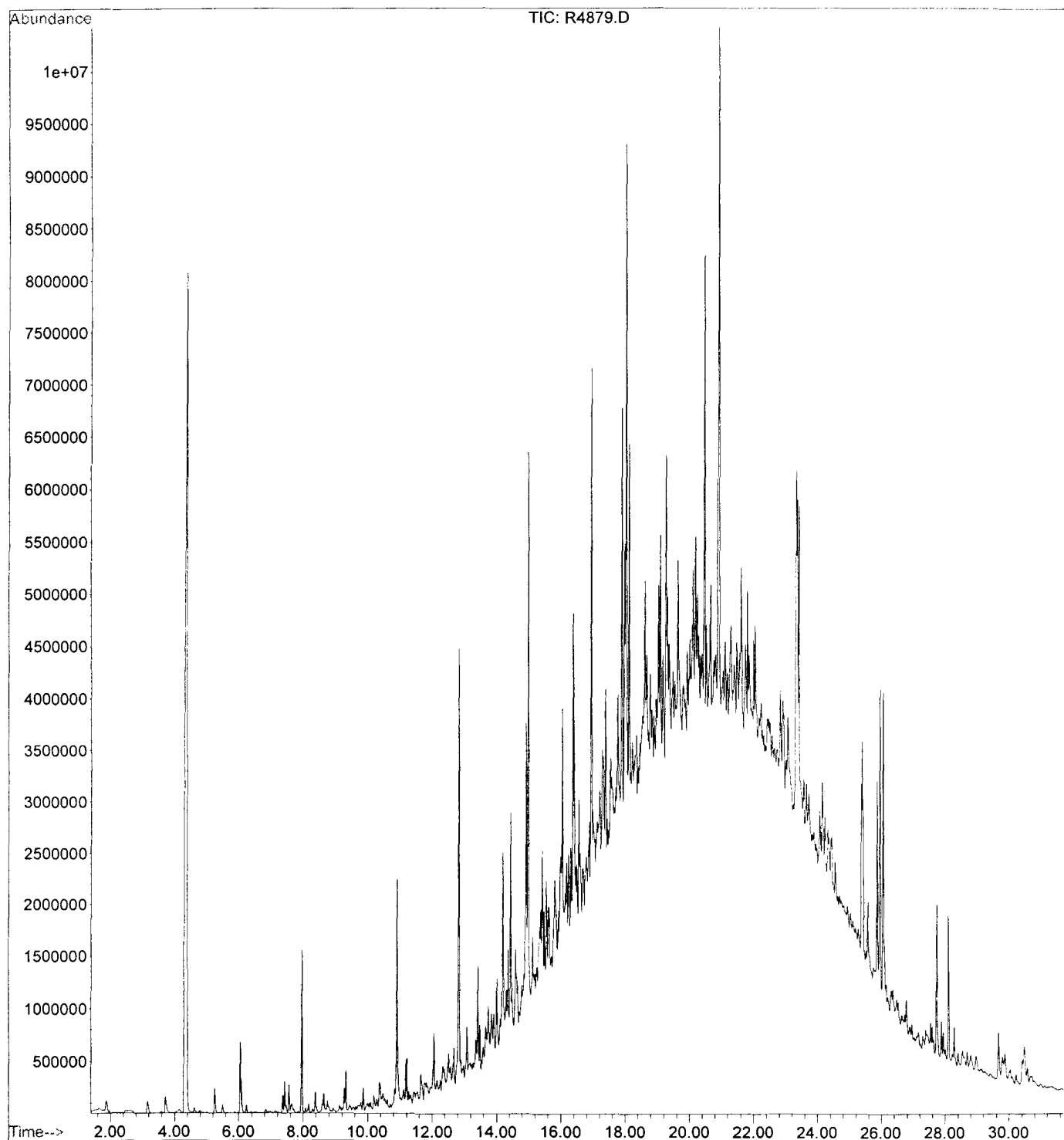




File : D:\HPCHEM\MSR\R4902.D  
Operator : J. Bennett  
Acquired : 2 Nov 1999 5:20 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414A-02  
Misc Info : TP6 (9.5-10.5) ; OLM ; 500 ; LLS ; R0338  
Vial Number: 10



File : D:\HPCHEM\MSR\R4879.D  
Operator : J. Bennett  
Acquired : 1 Nov 1999 7:57 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414A-01  
Misc Info : TP9 (11-11.5) ; OLM ; 5 ; LLS ; R0337  
Vial Number: 6



# E STAR PLOTS

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KEY:

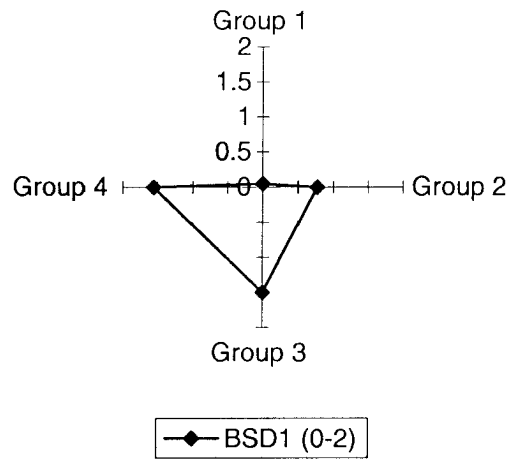
Group 1: Sum of naphthalene, 2-methylnaphthalene, and 1-methylnaphthalene

Group 2: Sum of fluorene, acenaphthene, acenaphthylenene, phenanthrene, and fluoranthene.

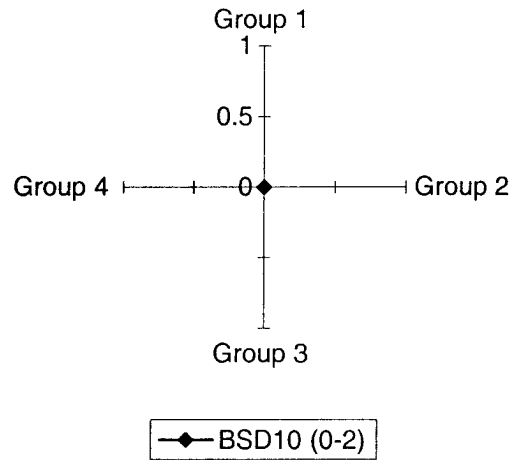
Group 3: Sum of fluoranthene, pyrene, benz(a)anthracene, and chrysene.

Group 4: Sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene.

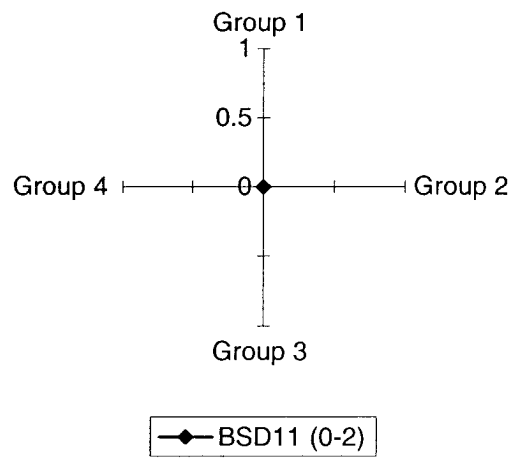
total PAHs = 4 mg/kg



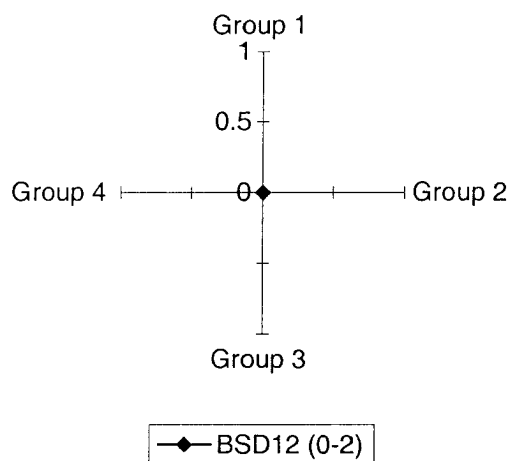
total PAHs = ND



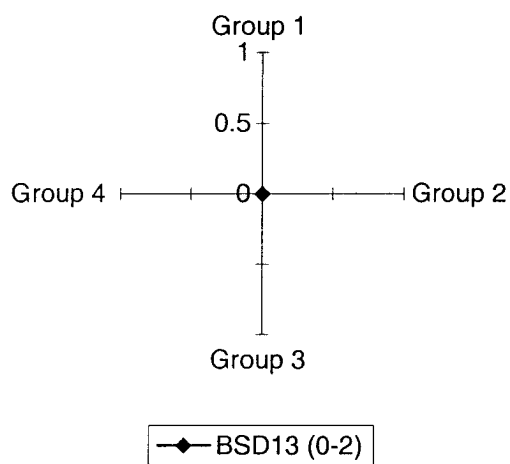
total PAHs = ND



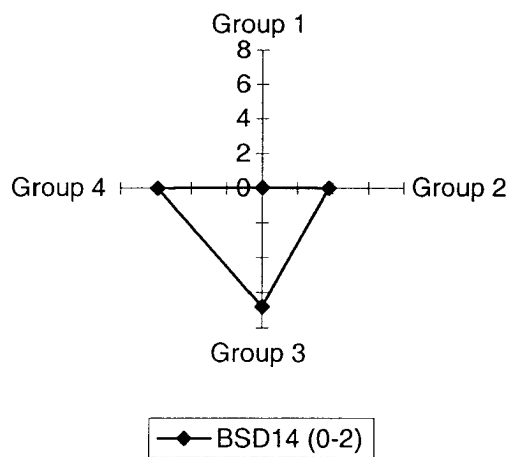
total PAHs = ND



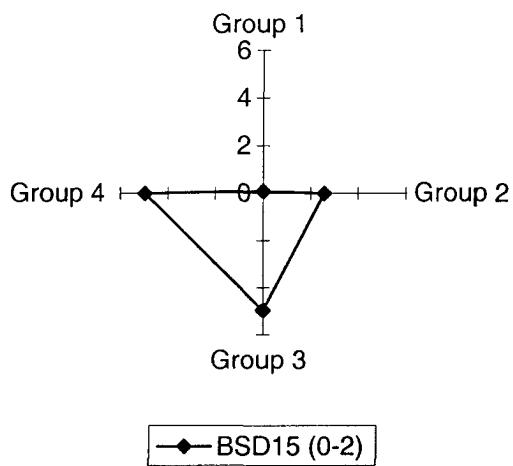
total PAHs = ND



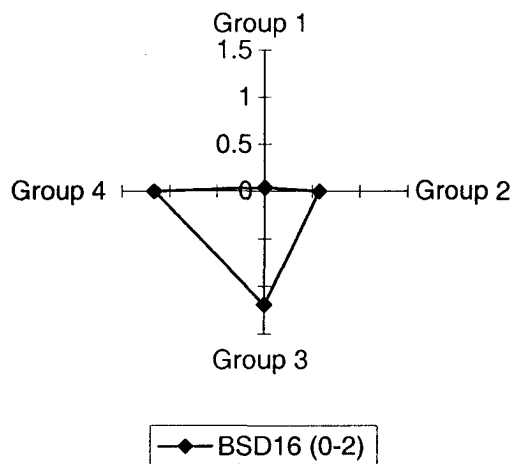
total PAHs = 19 mg/kg



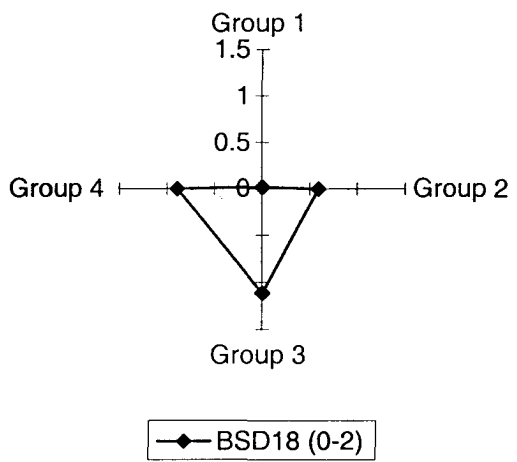
total PAHs = 16 mg/kg  
total PAHs = 16 mg/kg



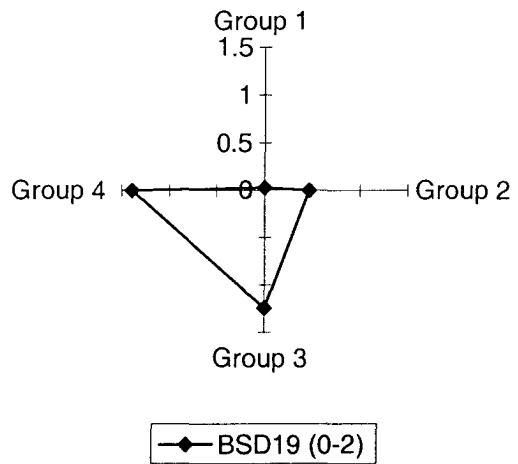
total PAHs = 4 mg/kg



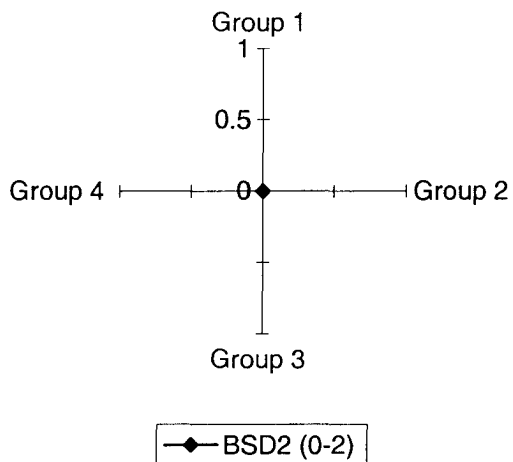
total PAHs = 3 mg/kg



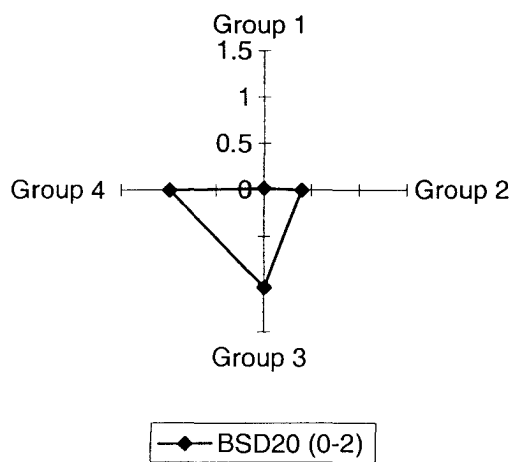
total PAHs = 4 mg/kg



total PAHs = ND

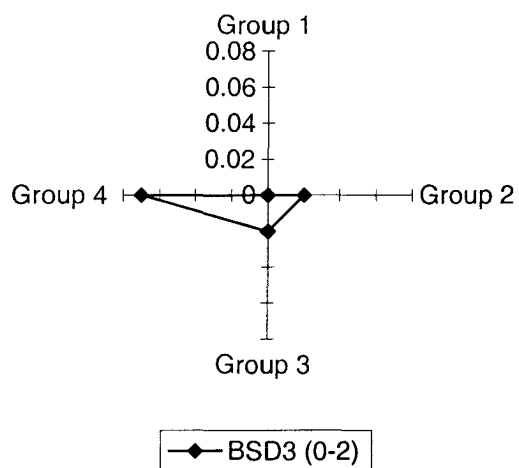


total PAHs = 3 mg/kg

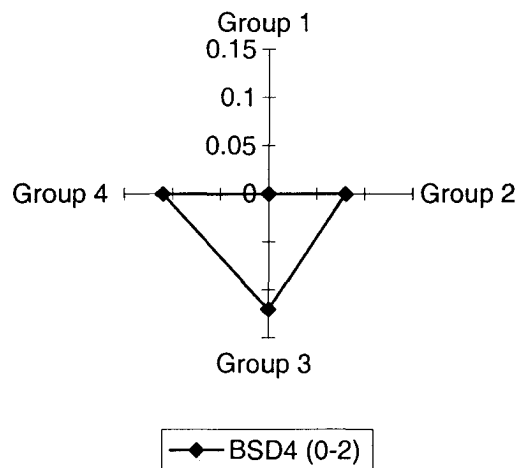




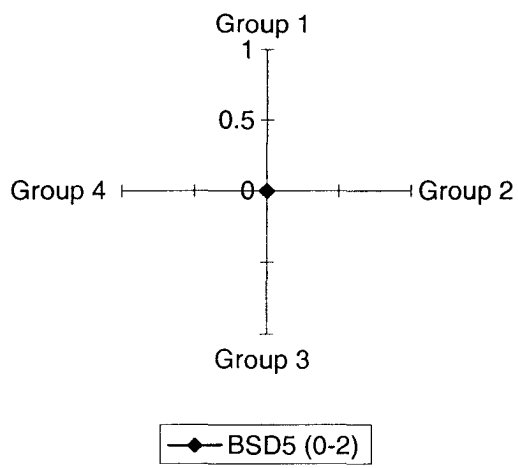
total PAHs = 0.1 mg/kg

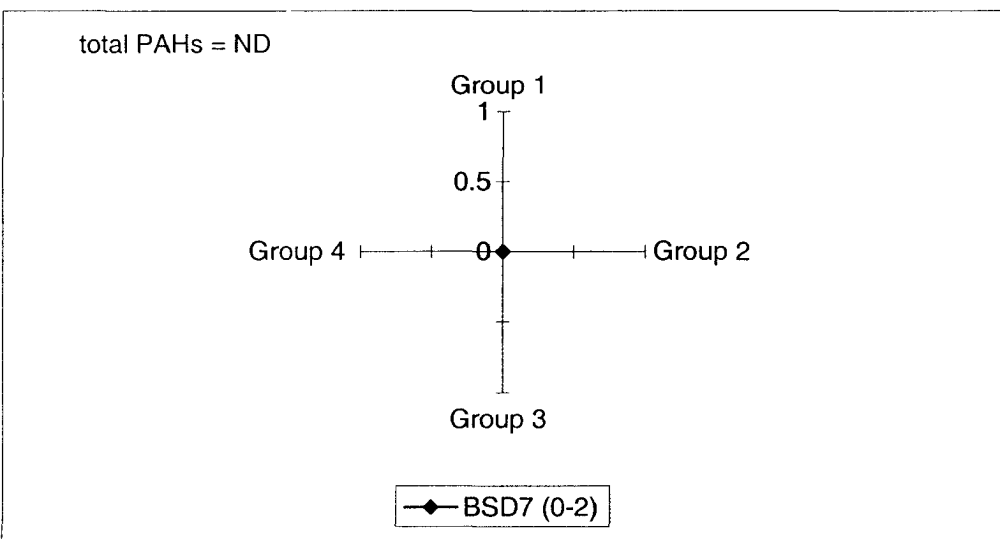
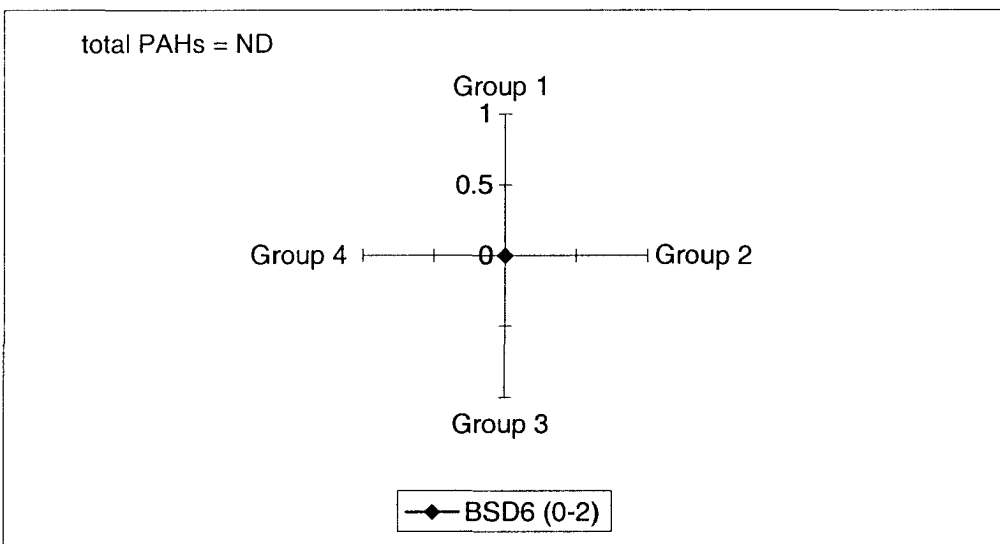
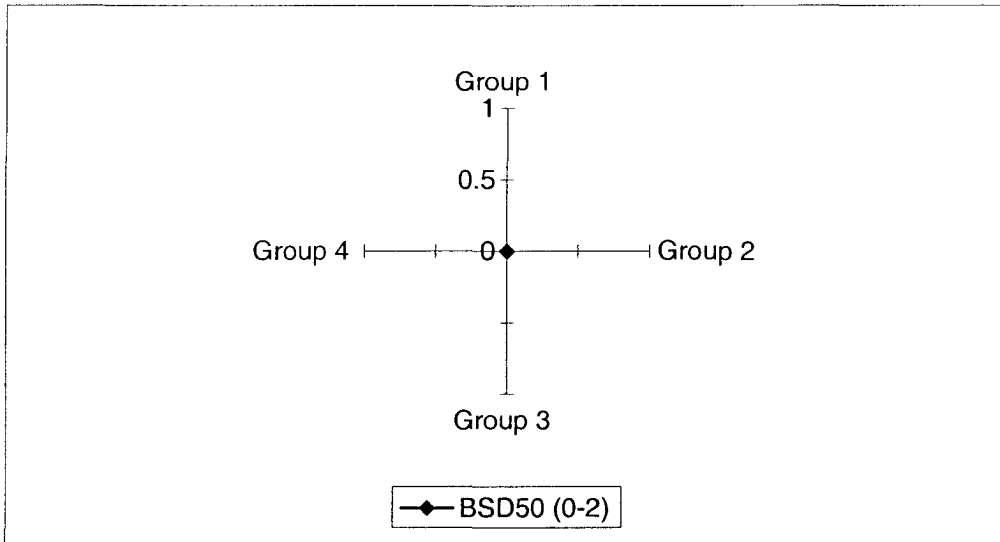


total PAHs = 0.3 mg/kg

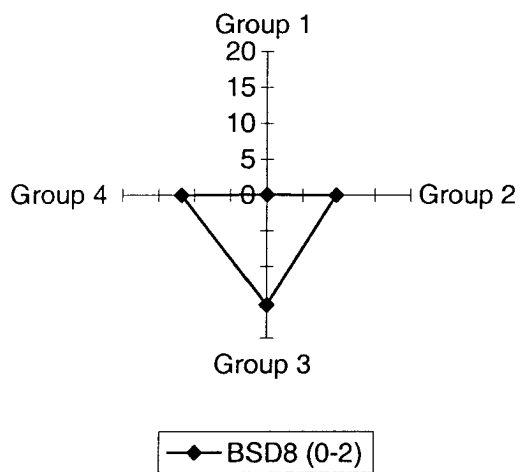


total PAHs = ND

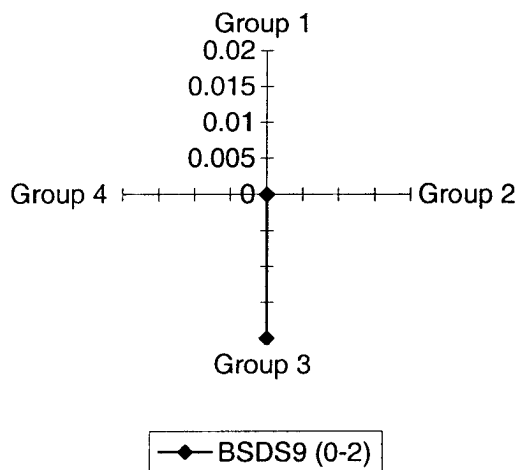




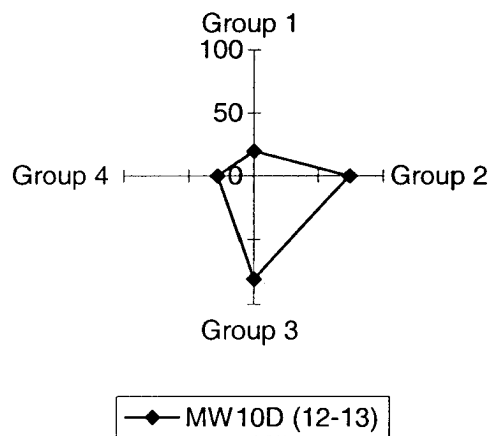
total PAHs = 37 mg/kg



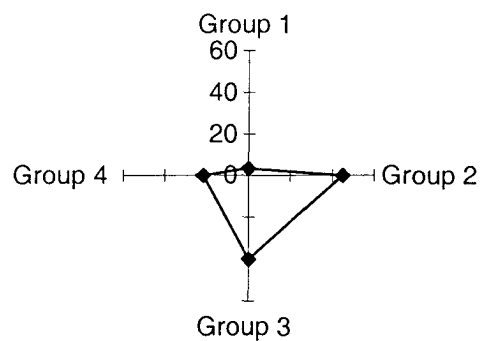
total PAHs = ND



total PAHs = ND

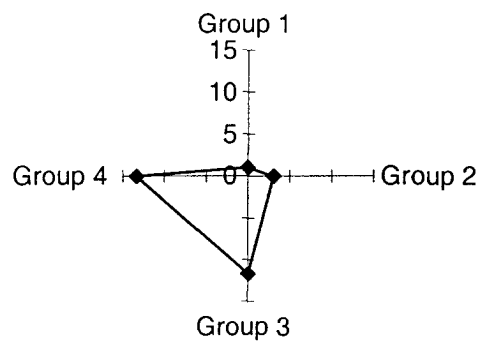


total PAHs = mg/kg



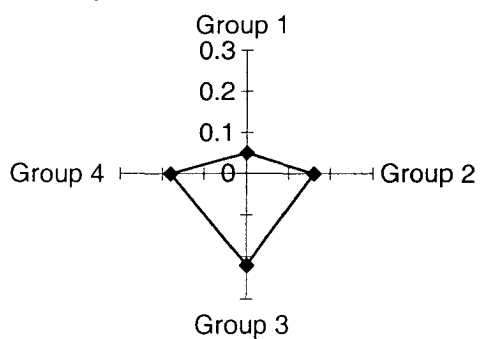
—◆— MW10S (11-12)

total PAHs = mg/kg

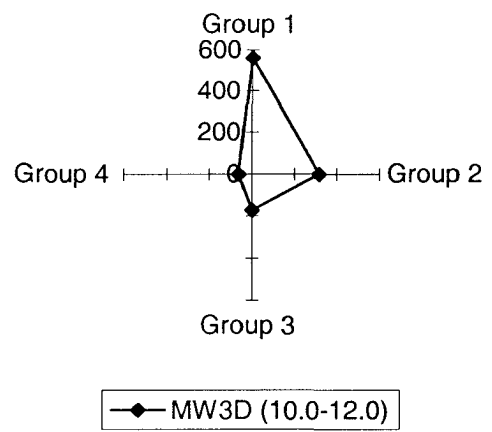
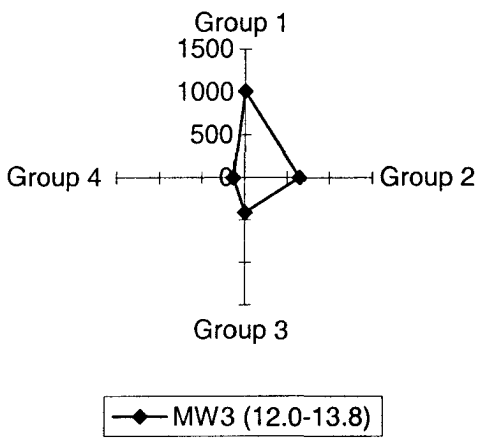
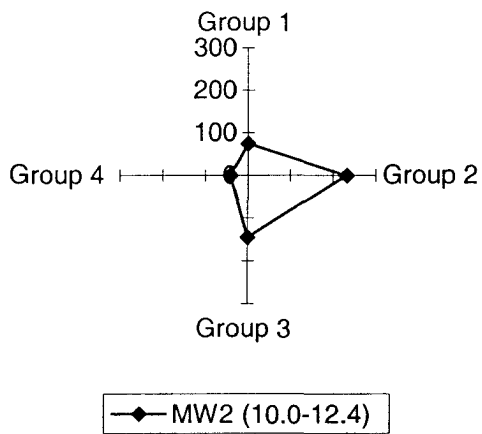


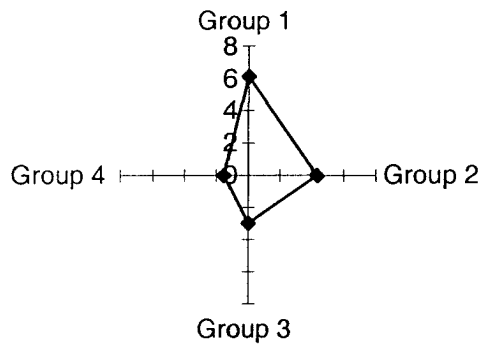
—◆— MW11-BC (10-11)

total PAHs = mg/kg

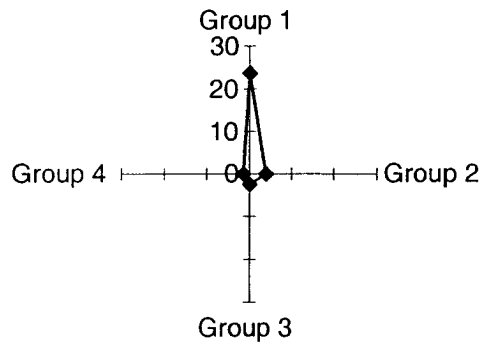


—◆— MW1D (4.0-5.0)

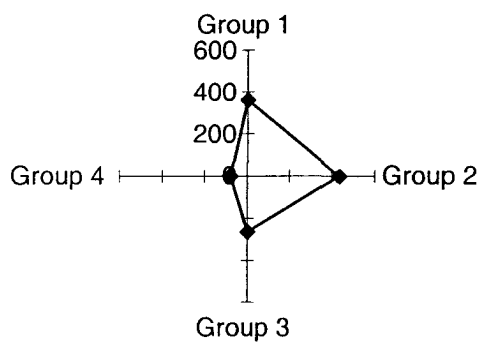




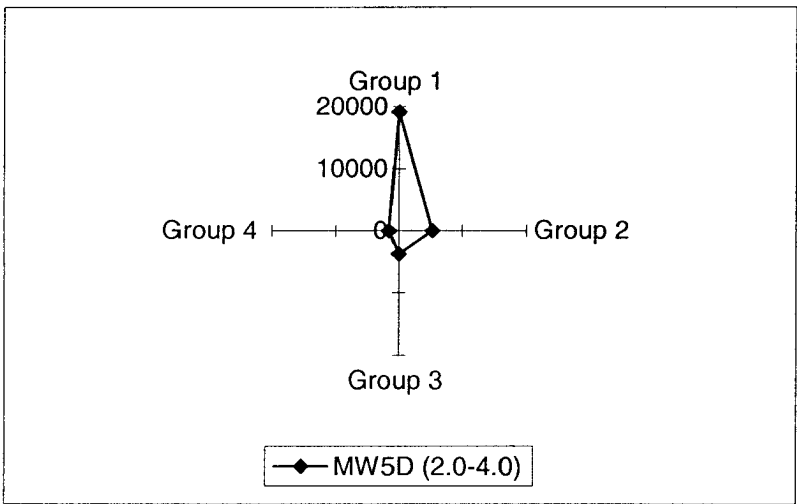
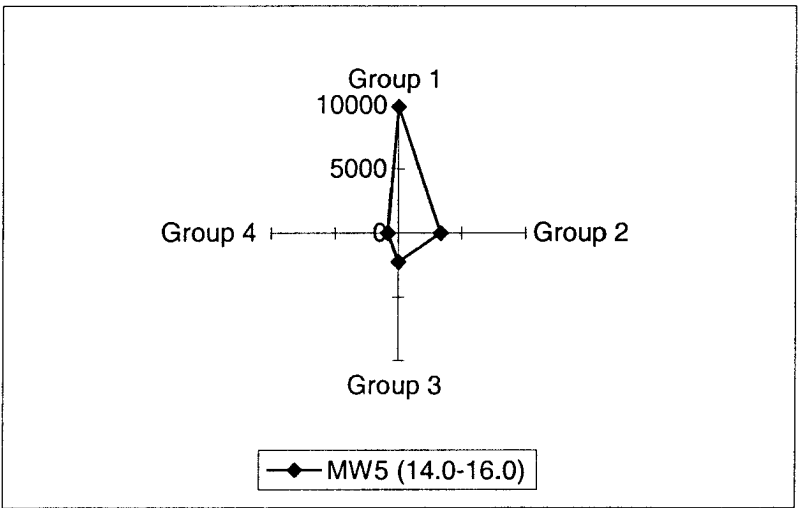
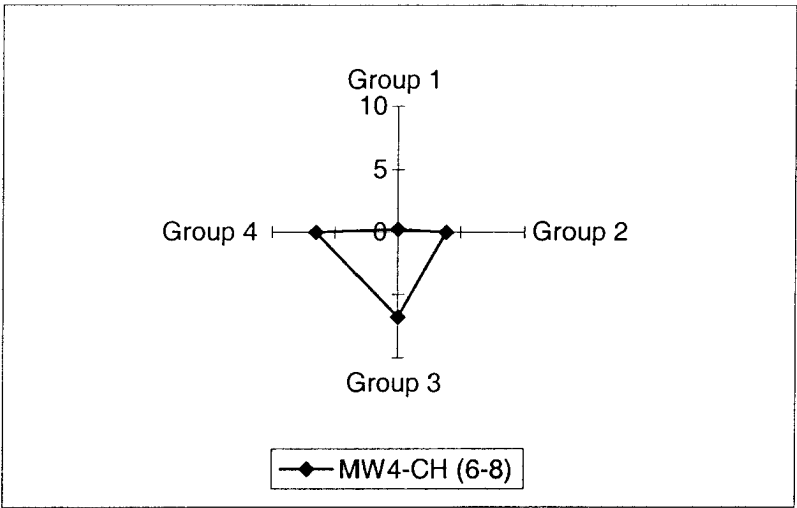
—◆— MW3S-CH(10-12)

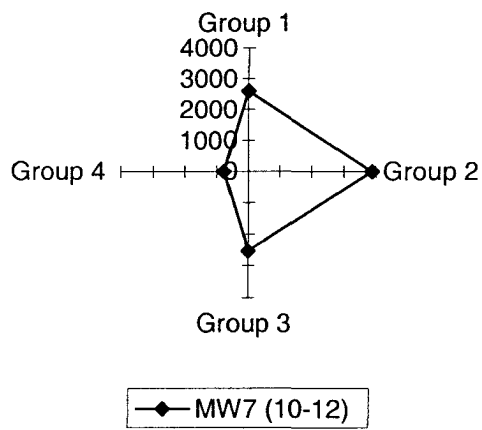
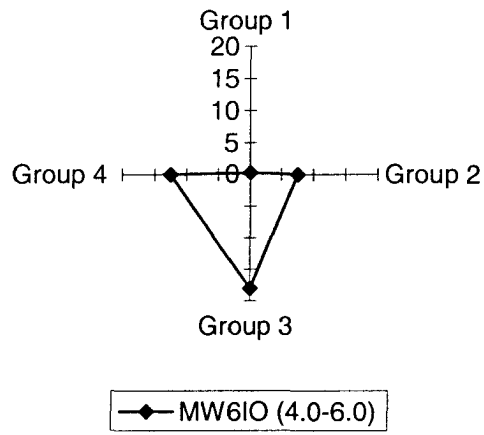
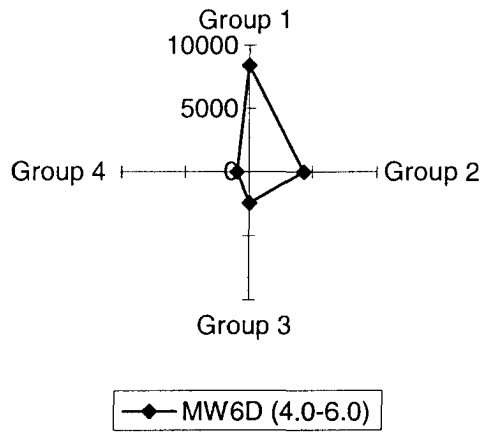


—◆— MW3S-CH(17.6-18.0)

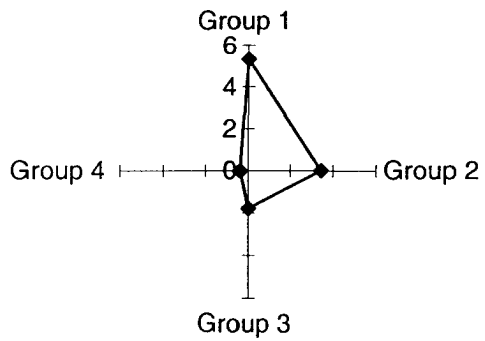
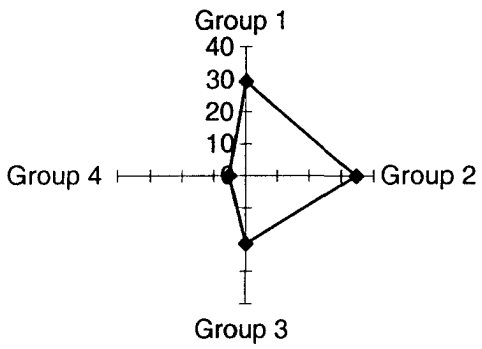
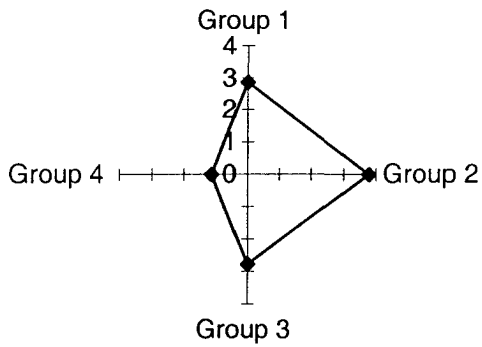


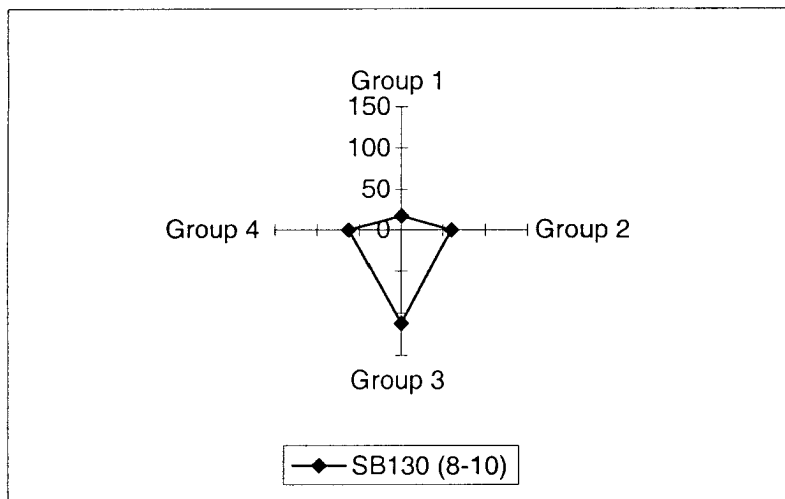
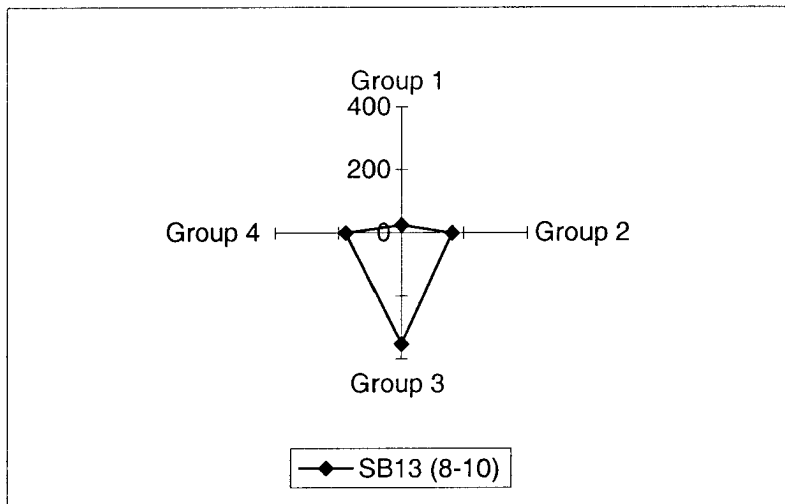
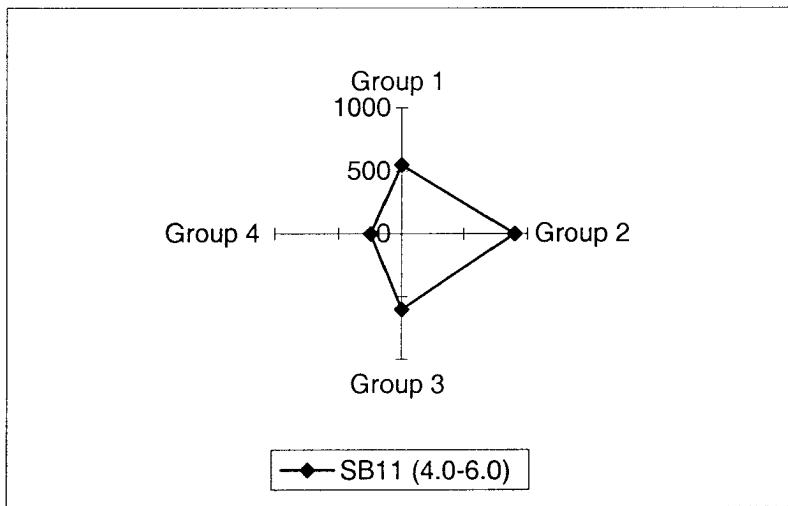
—◆— MW4 (12.0-13.1)

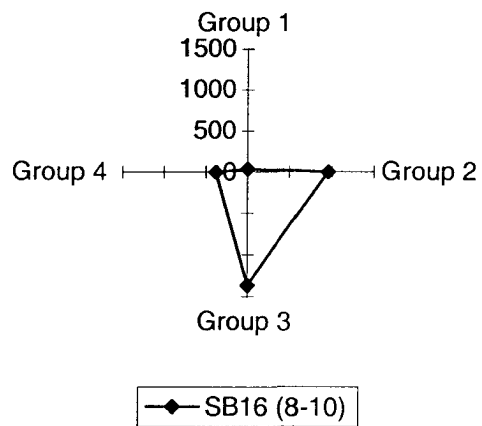
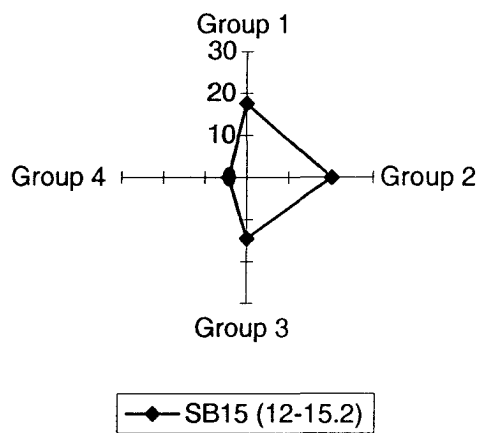
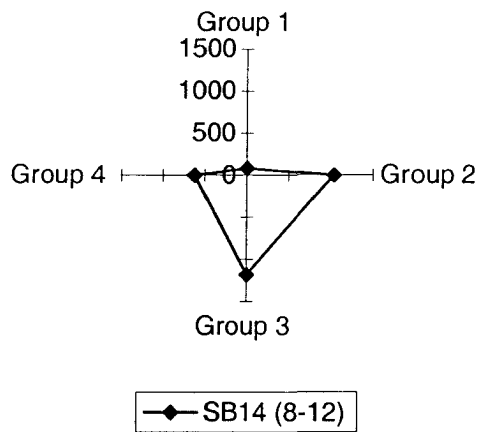


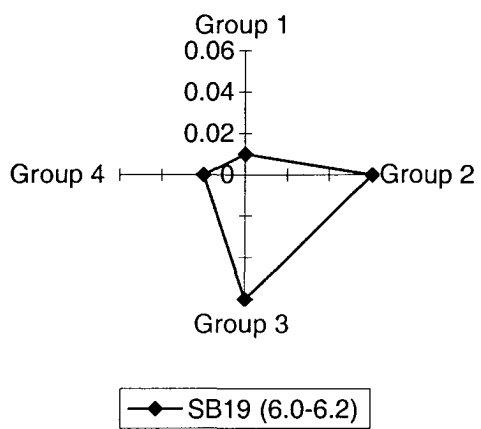
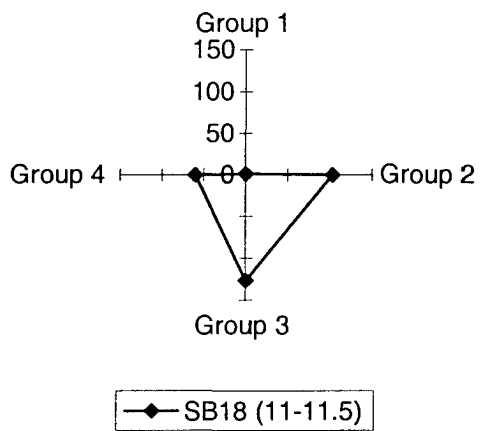
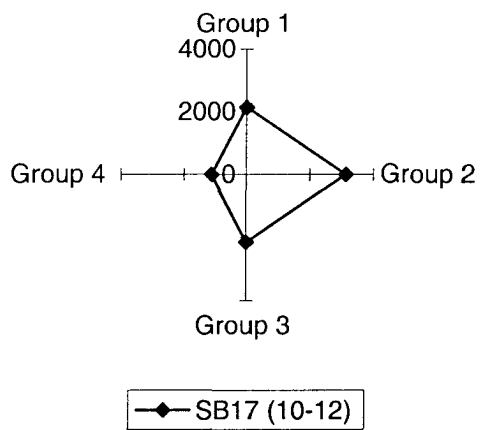


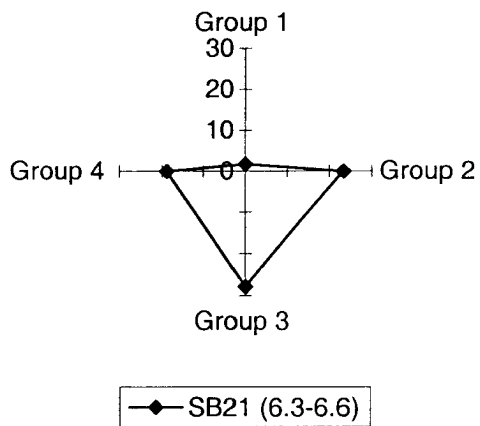
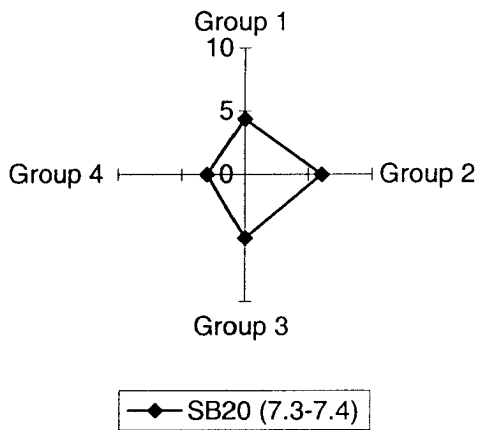
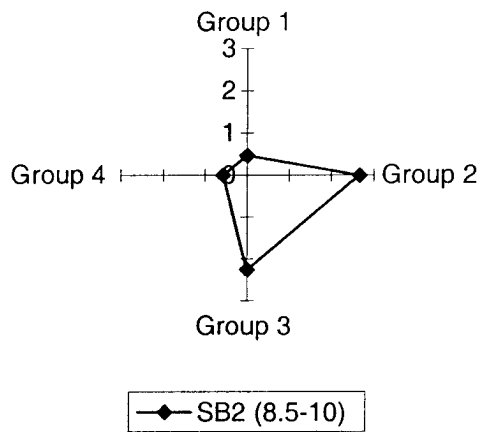


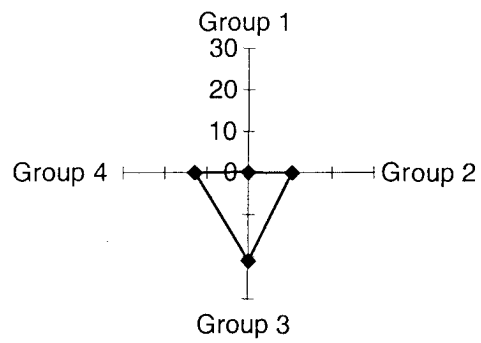




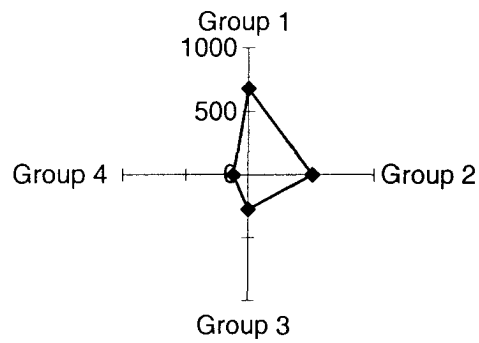




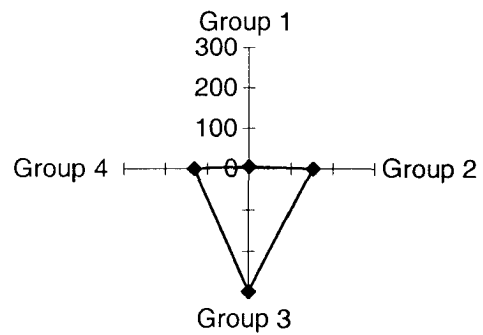




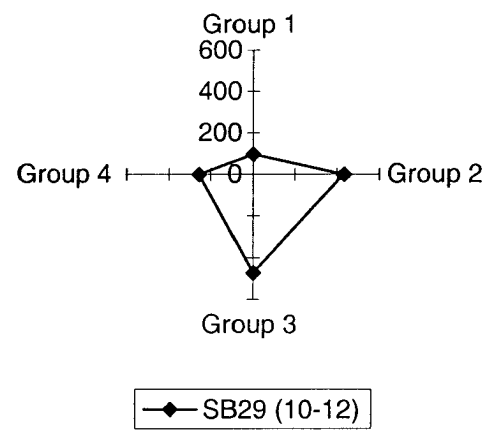
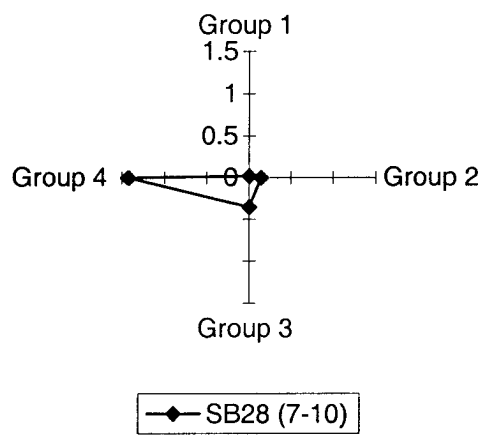
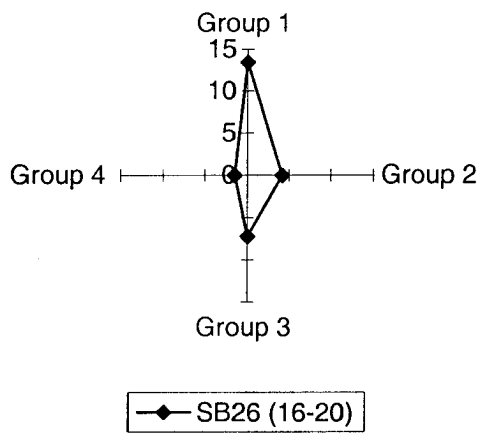
—◆— SB22 (7.0-7.3)

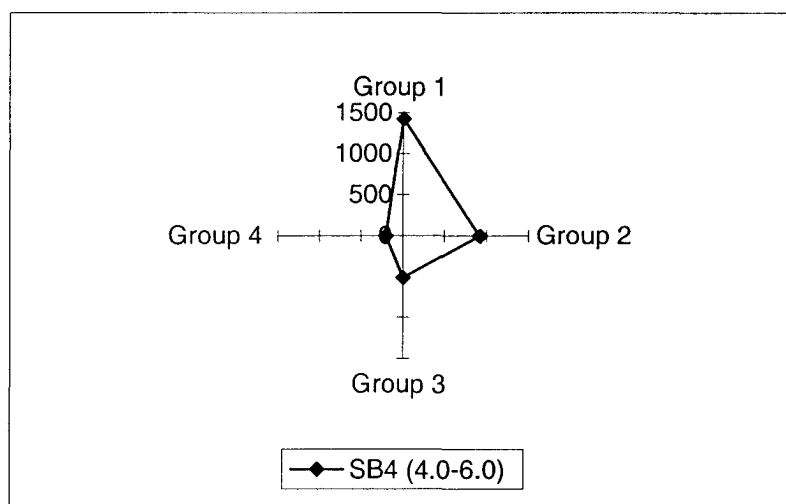
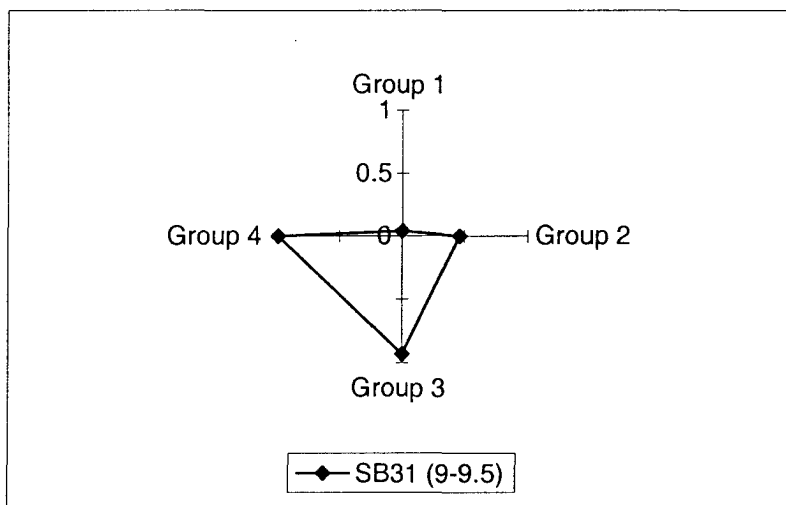
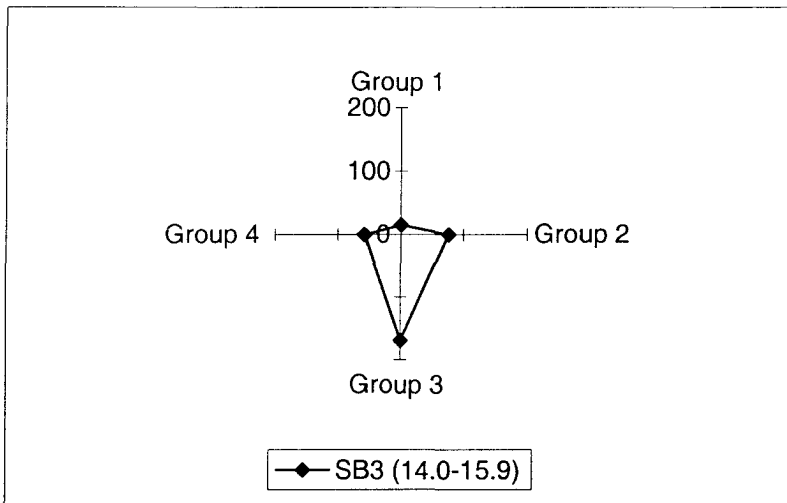


—◆— SB23 (13-14)

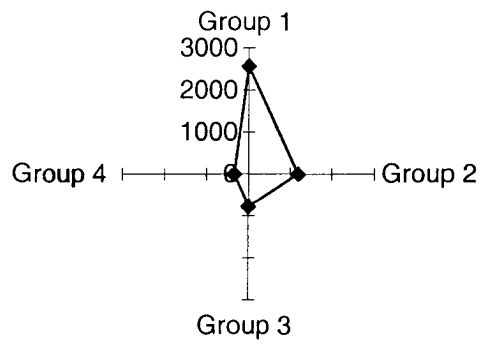


—◆— SB25 (12-16)

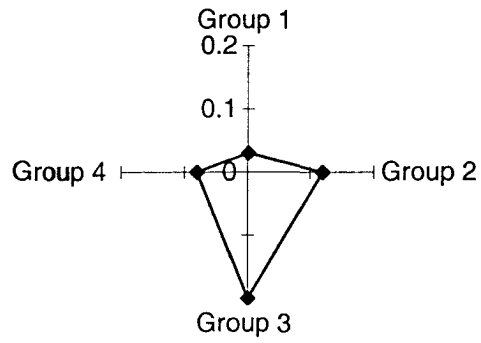




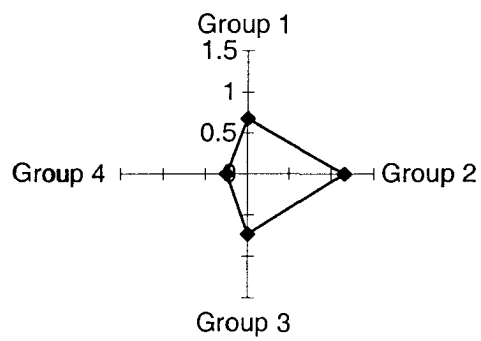




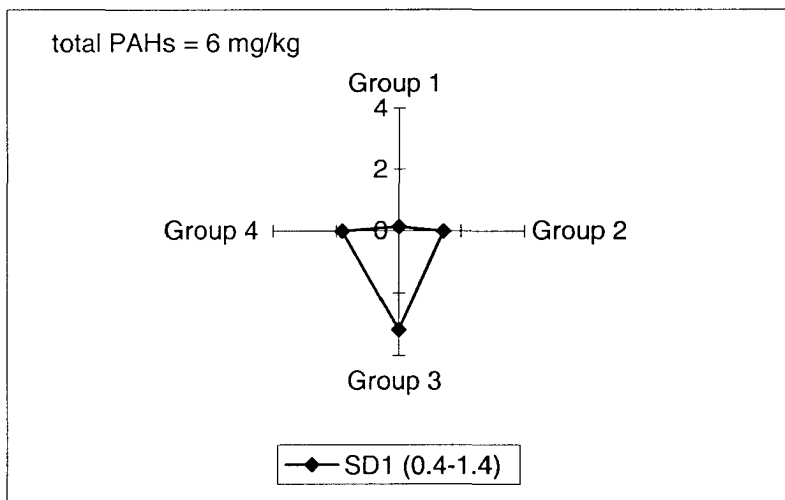
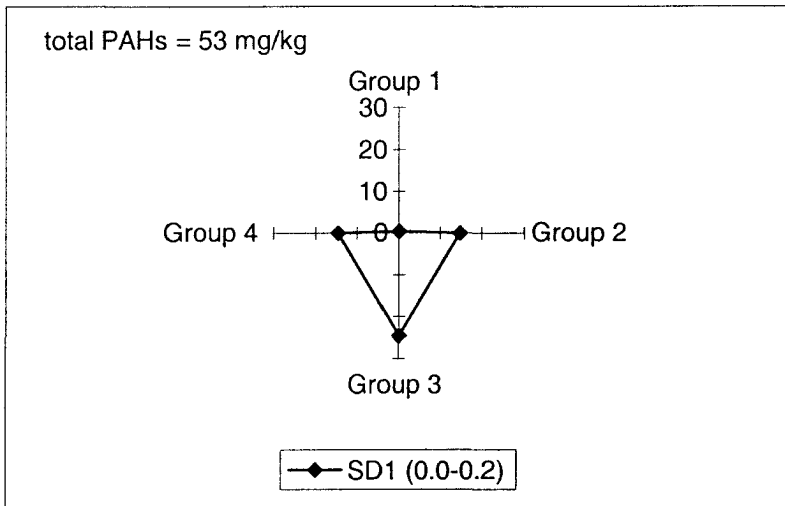
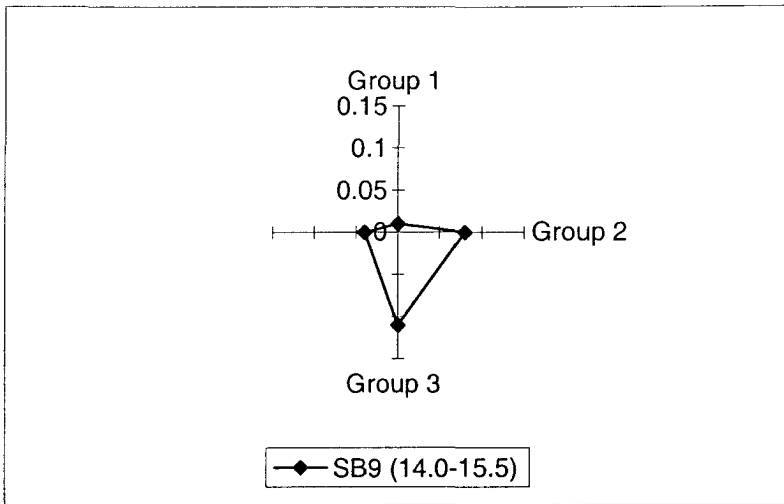
—◆— SB5 (4.0-6.0)



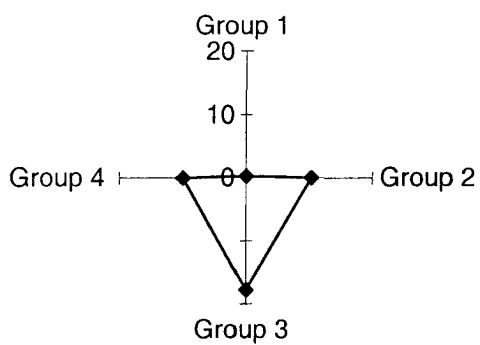
—◆— SB6 (10.4-12.2)



—◆— SB8 (4.0-6.0)

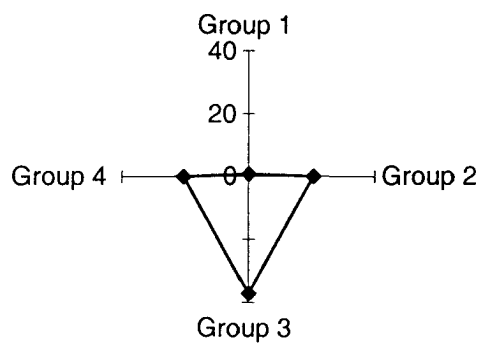


total PAHs = 44 mg/kg



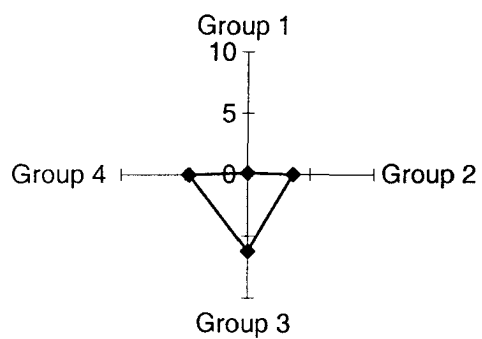
—●— SD10 (0.0-0.4)

total PAHs = 78 mg/kg



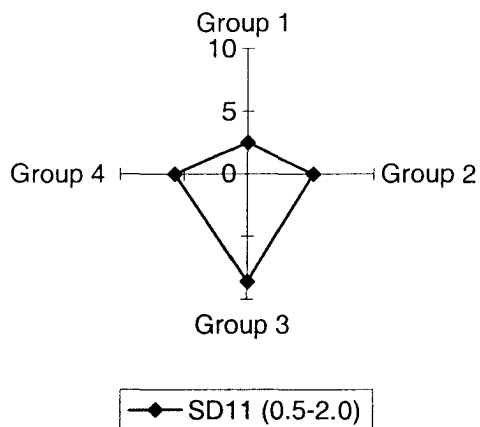
—●— SD10 (0.2-2.0)

total PAHs = 14 mg/kg

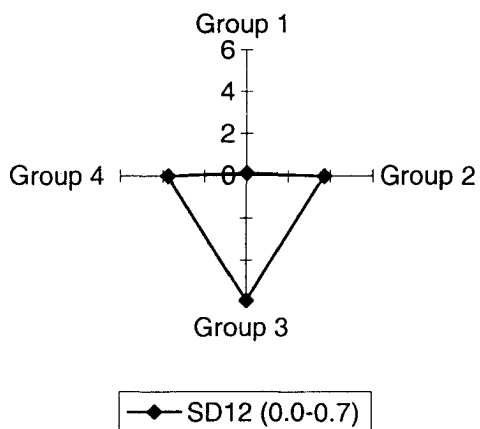


—●— SD11 (0.0-0.2)

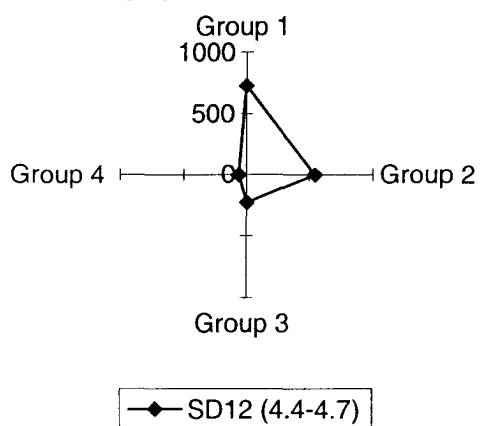
total PAHs = 22 mg/kg



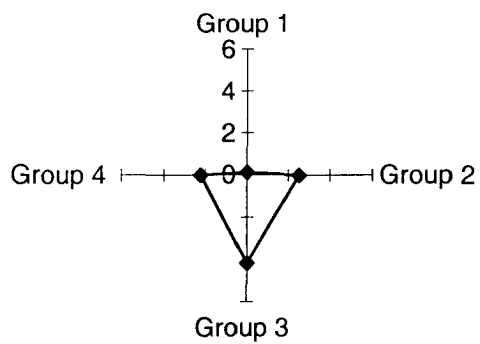
total PAHs = 12 mg/kg



total PAHs = 1,238 mg/kg

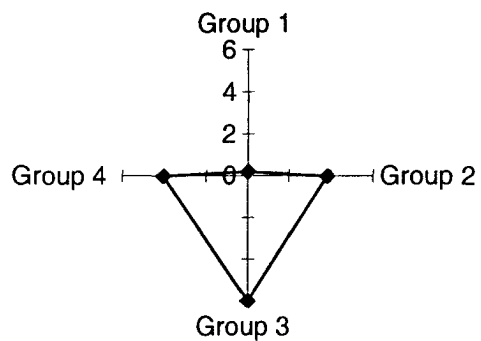


total PAHs = 9 mg/kg



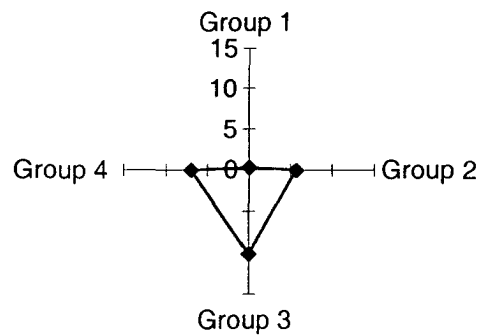
—◆— SD13 (0.0-0.2)

total PAHs = 13 mg/kg



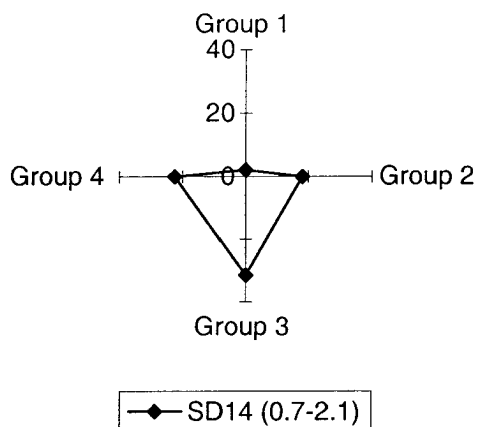
—◆— SD13 (0.5-2.1)

total PAHs = 23 mg/kg

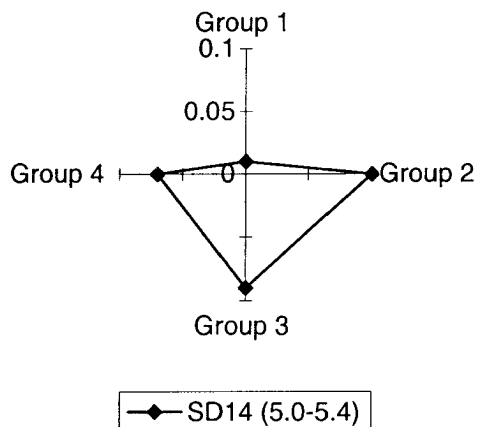


—◆— SD14 (0.0-0.2)

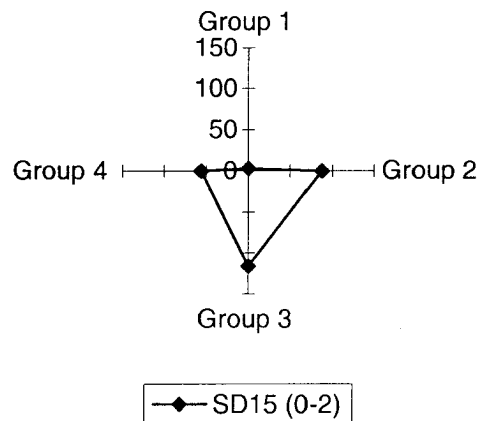
total PAHs = 69 mg/kg



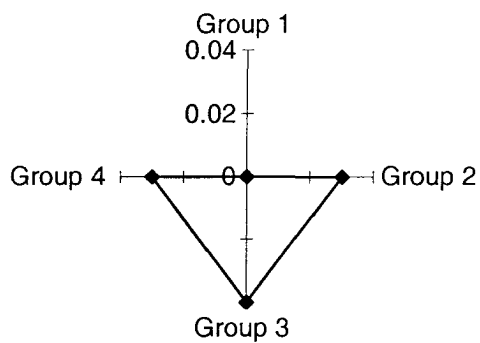
total PAHs = 0.3 mg/kg



total PAHs = 322 mg/kg

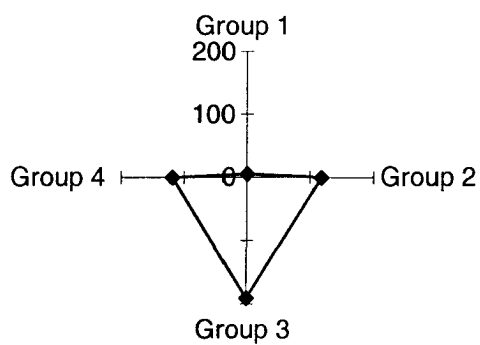


total PAHs = ND



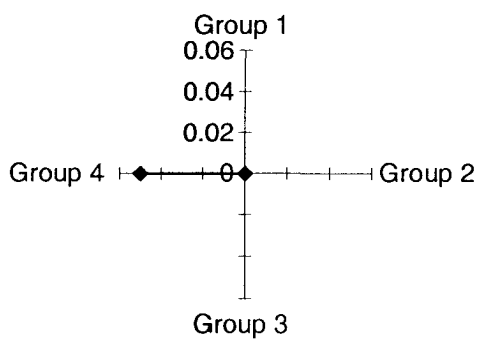
—◆— SD15 (2.8-3.5)

total PAHs = 441 mg/kg



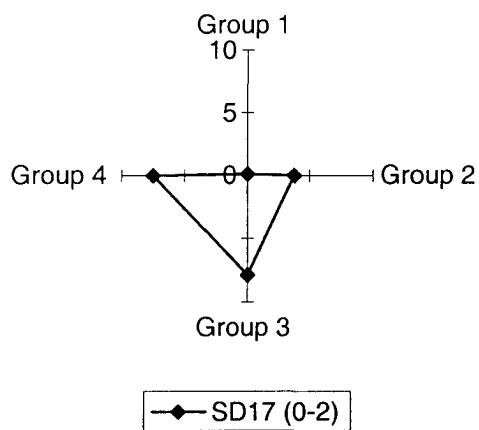
—◆— SD16 (0-2)

total PAHs = ND

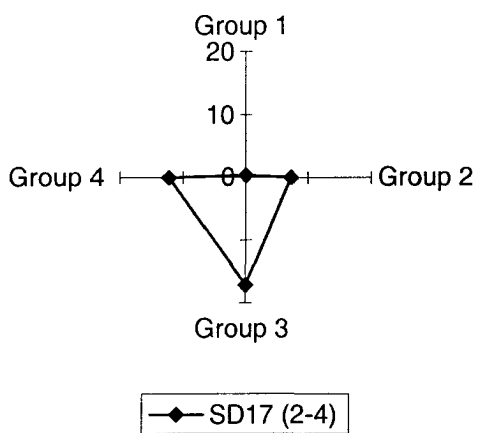


—◆— SD16 (3.5-4.5)

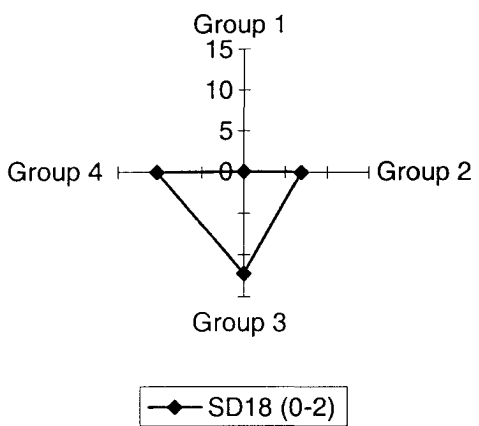
total PAHs = 18 mg/kg



total PAHs = 39 mg/kg

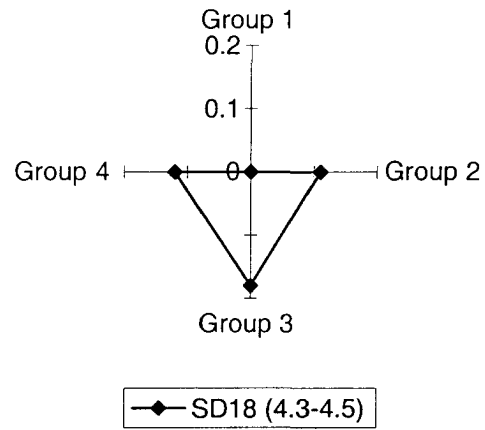


total PAHs = 28 mg/kg

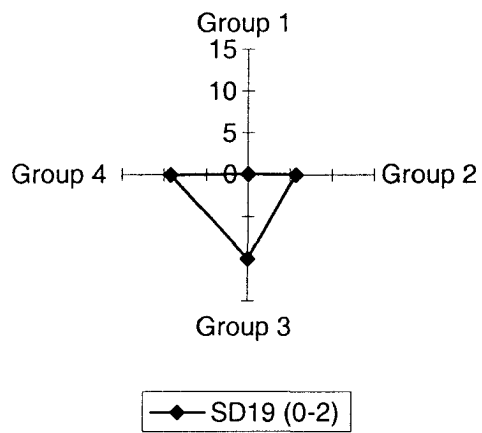




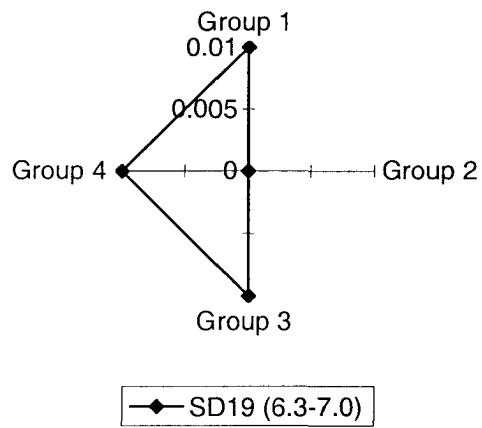
total PAHs = 0.2 mg/kg



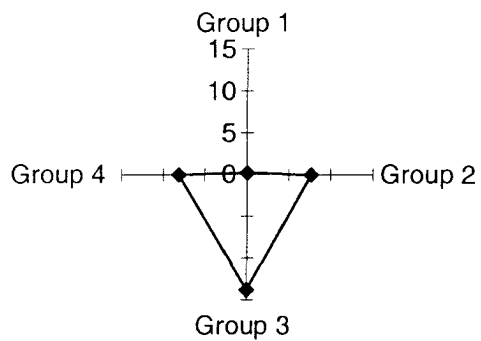
total PAHs = 24 mg/kg



total PAHs = ND

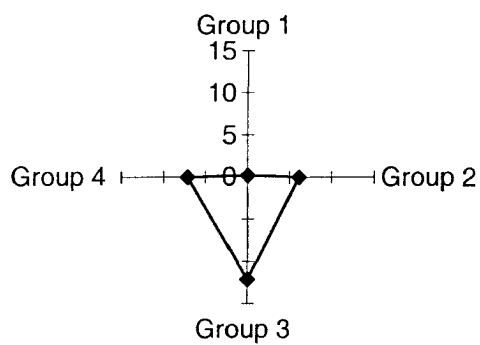


total PAHs = 34 mg/kg



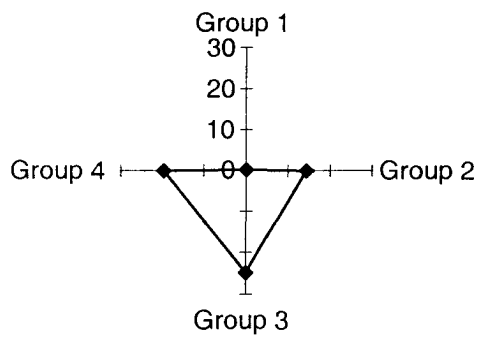
—◆— SD2 (0.0-0.2)

total PAHs = 30 mg/kg



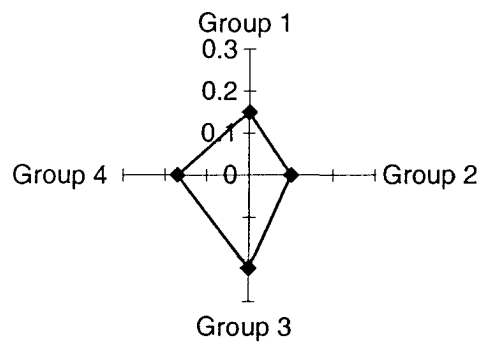
—◆— SD2 (0.2-2.0)

total PAHs = 57 mg/kg



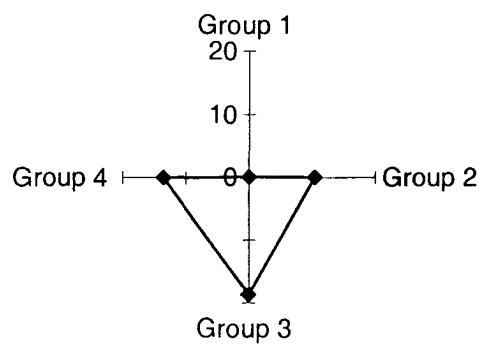
—◆— SD20 (0-2)

total PAHs = 0.3 mg/kg



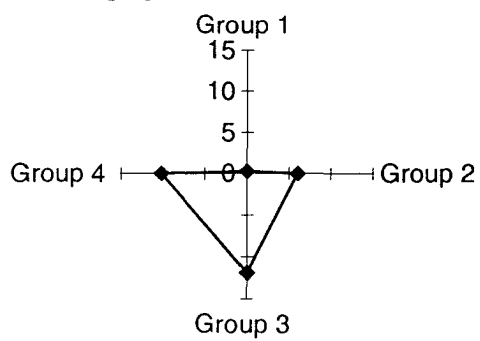
—●— SD20 (5.2-6.3)

total PAHs = 42 mg/kg



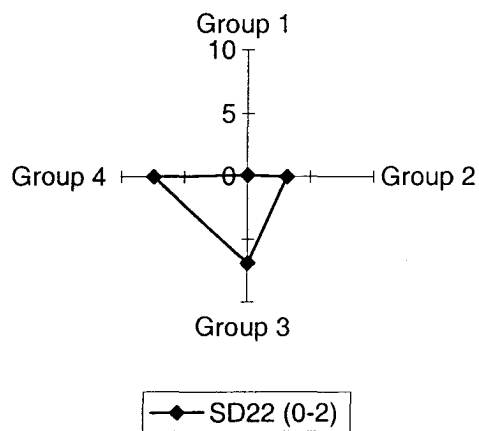
—●— SD21 (0-2)

total PAHs = 29 mg/kg

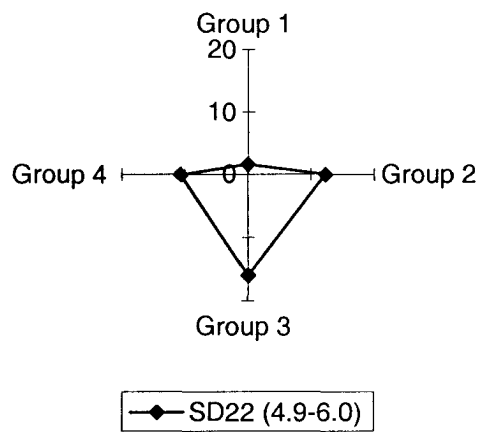


—●— SD21 (6-7)

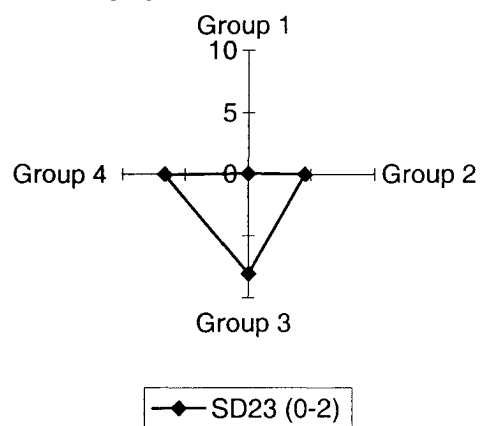
total PAHs = 26 mg/kg



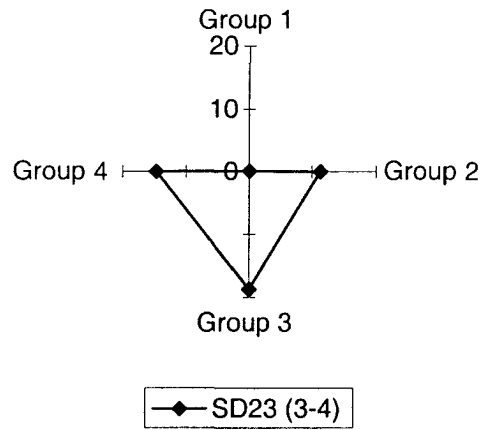
total PAHs = 42 mg/kg



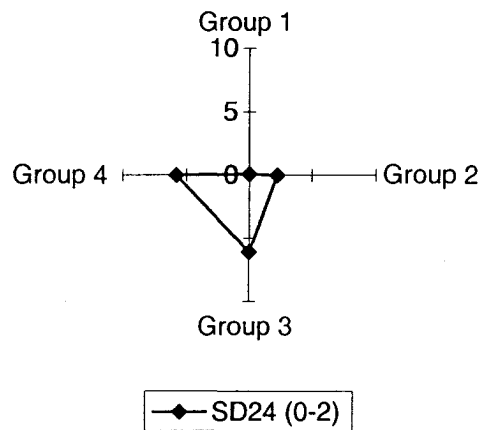
total PAHs = 16 mg/kg



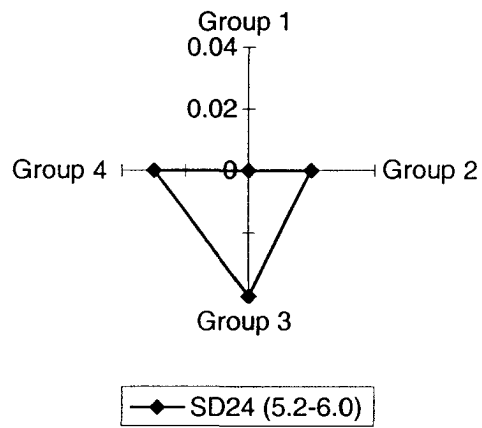
total PAHs = 41 mg/kg



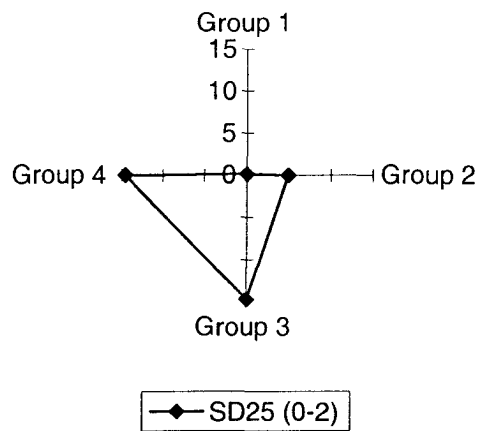
total PAHs = 13 mg/kg



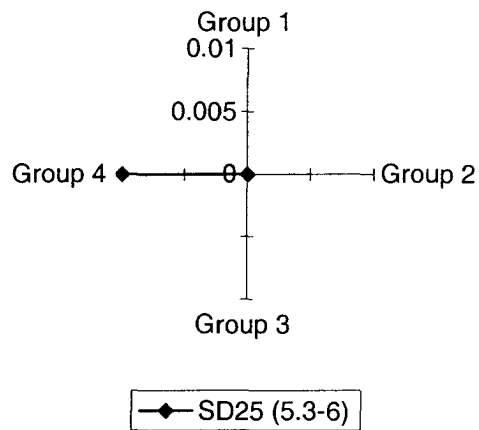
total PAHs = ND



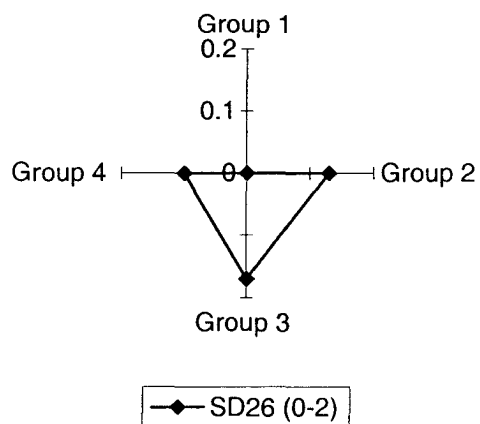
total PAHs = 33 mg/kg



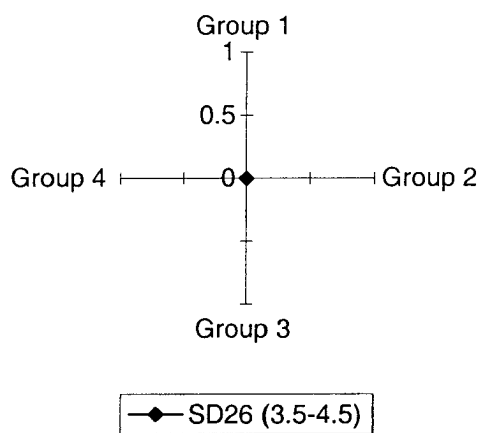
total PAHs = ND



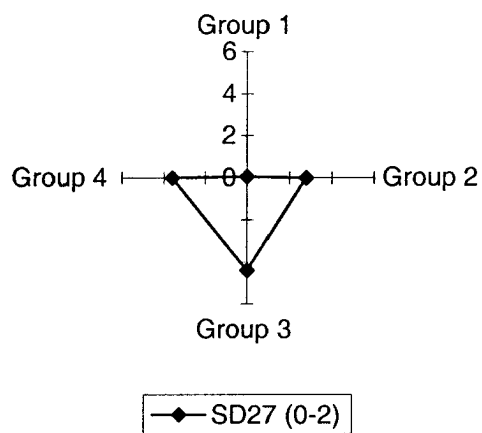
total PAHs = 0.2 mg/kg



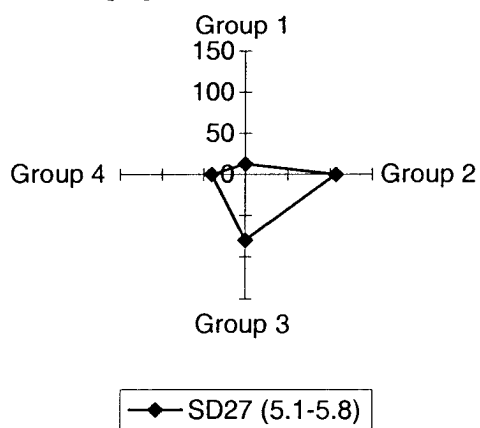
total PAHs = ND



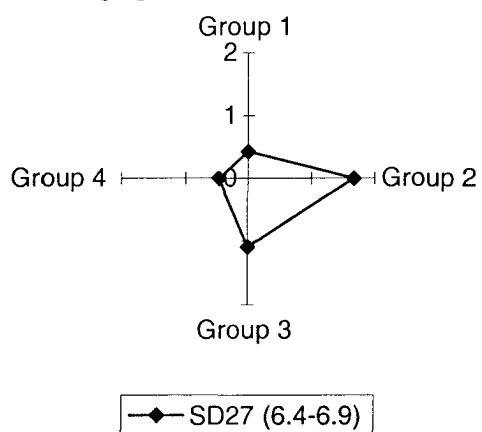
total PAHs = 11 mg/kg



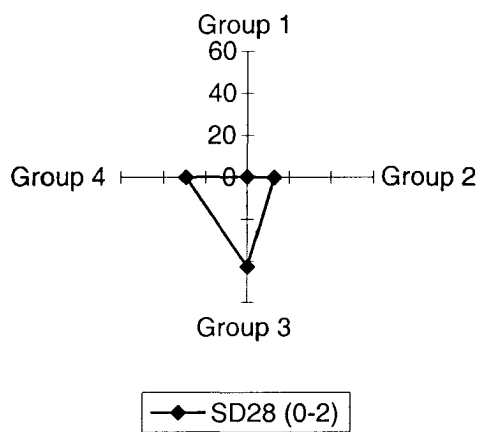
total PAHs = 26 mg/kg



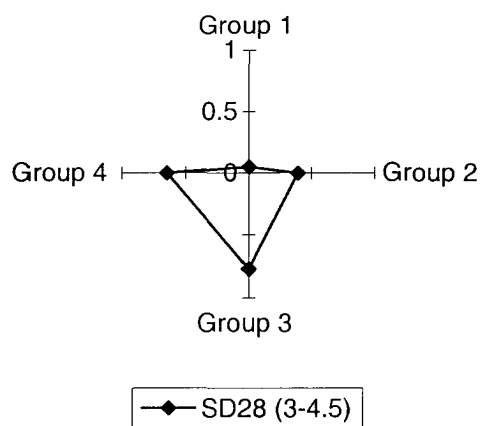
total PAHs = 4 mg/kg



total PAHs = 79 mg/kg

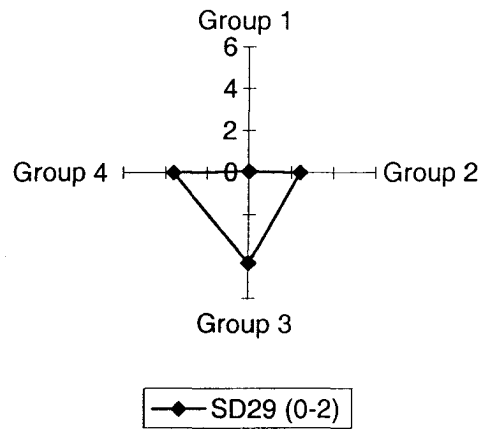


total PAHs = 2 mg/kg

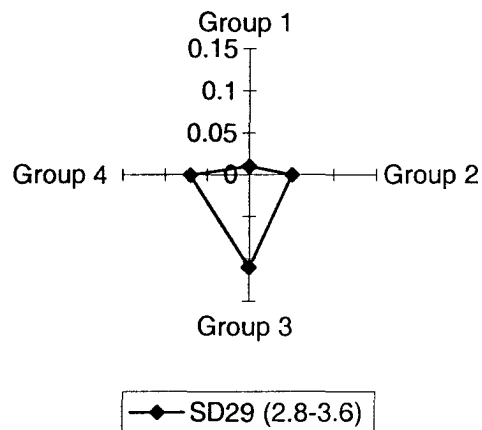




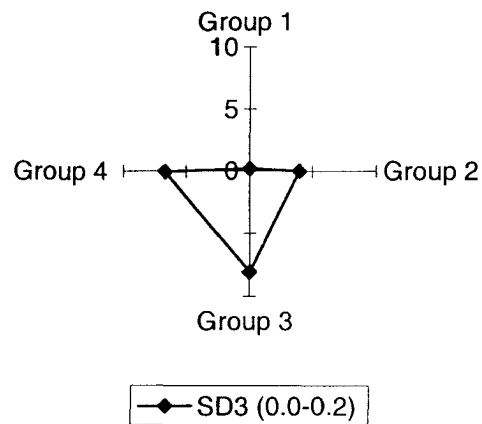
total PAHs = 10 mg/kg



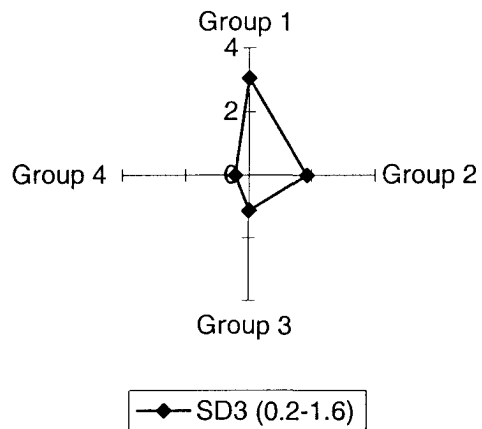
total PAHs = ND



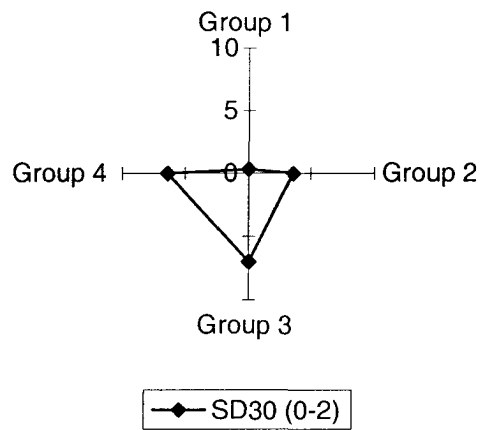
total PAHs = 19 mg/kg



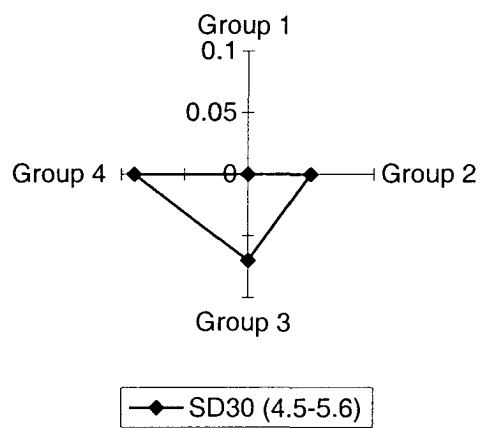
total PAHs = 4 mg/kg



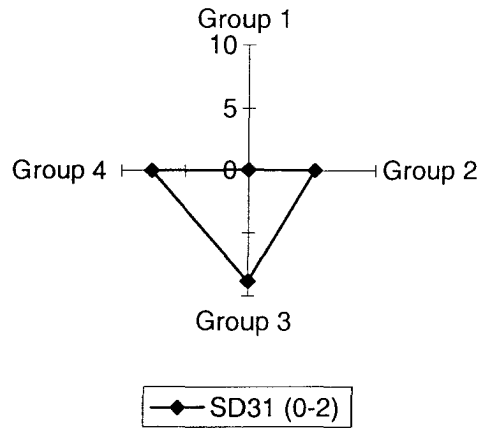
total PAHs = 15 mg/kg



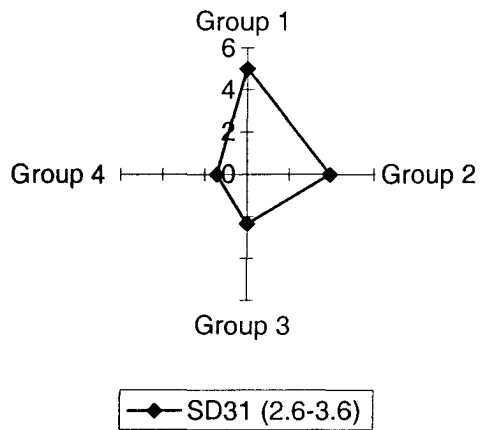
total PAHs = ND



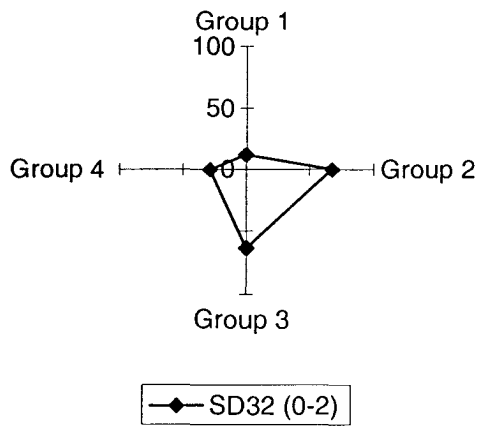
total PAHs = 21 mg/kg



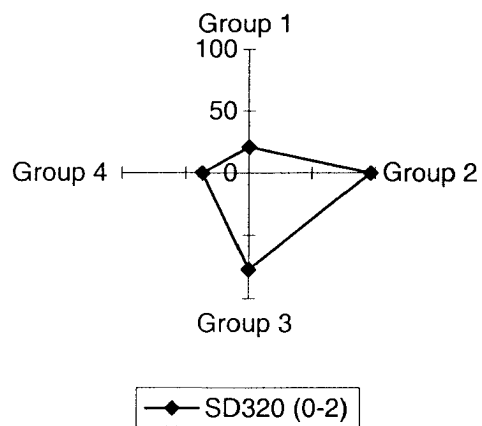
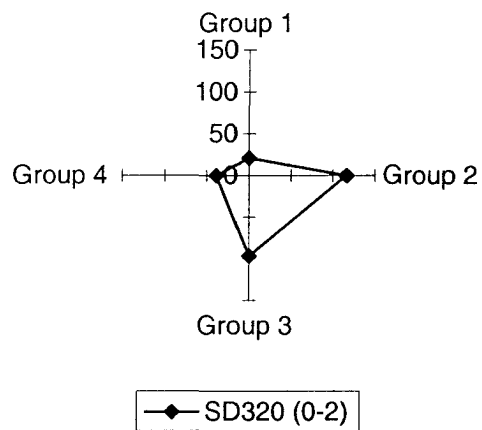
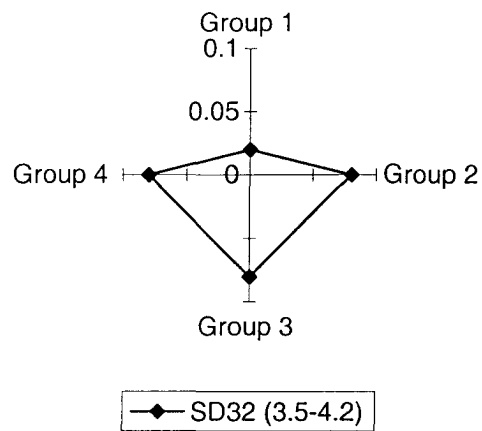
total PAHs = 14 mg/kg



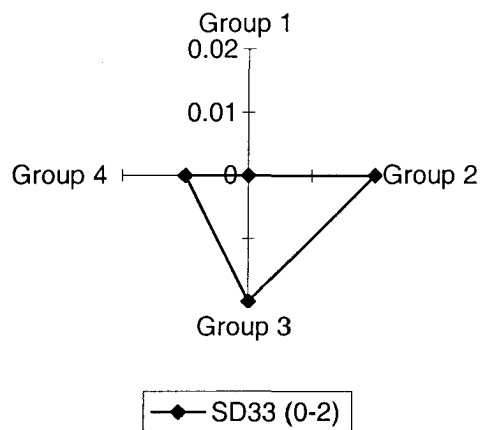
total PAHs = 189 mg/kg



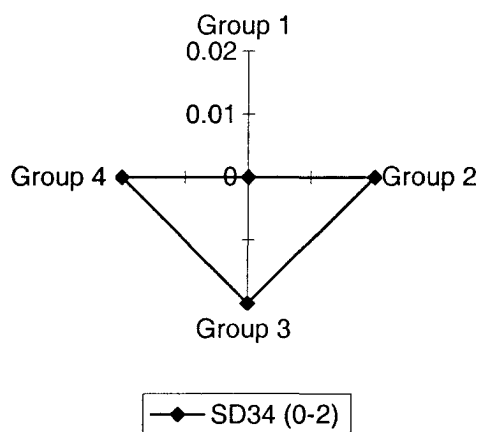
total PAHs = ND



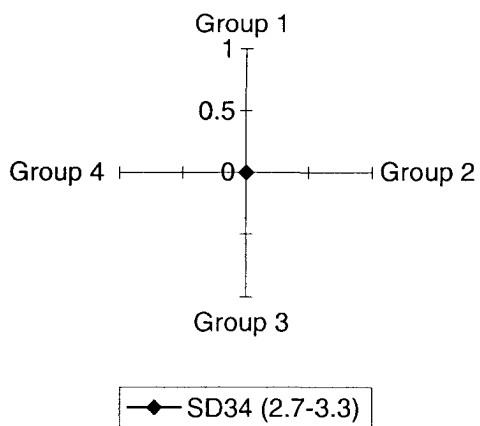
total PAHs = ND



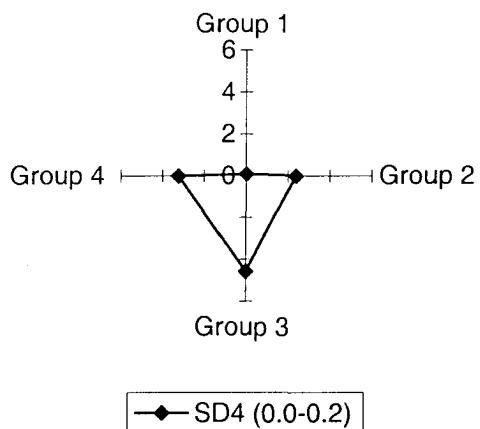
total PAHs = ND



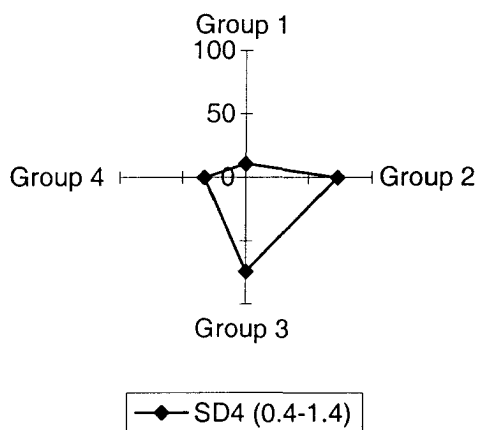
total PAHs = ND



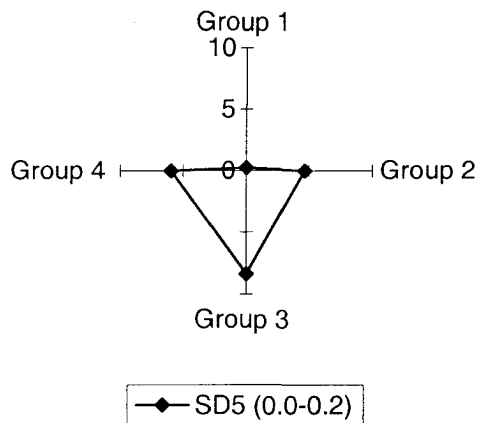
total PAHs = 10 mg/kg



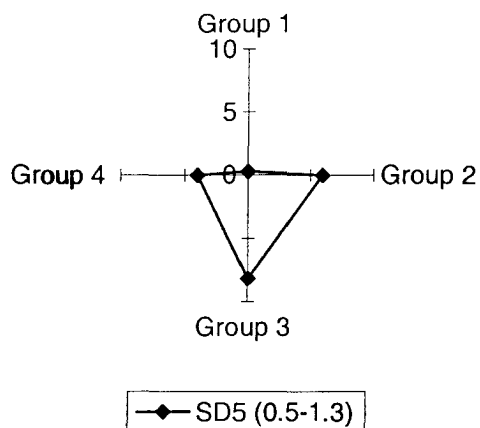
total PAHs = 182 mg/kg



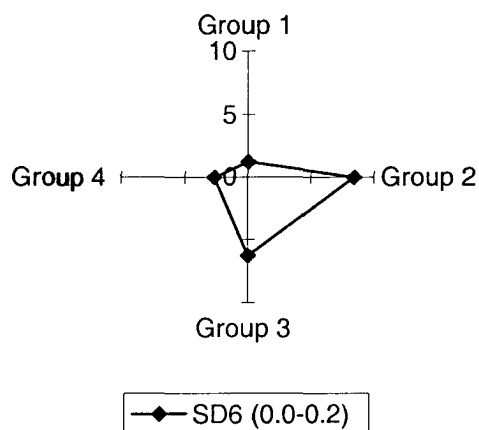
total PAHs = 22 mg/kg



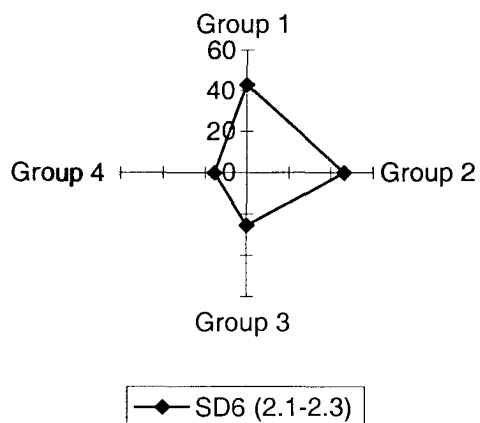
total PAHs = 19 mg/kg



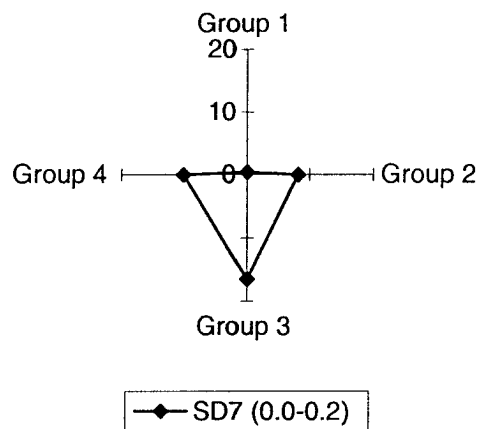
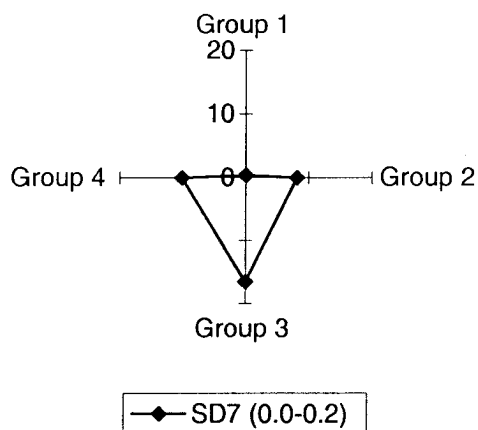
total PAHs = 27 mg/kg



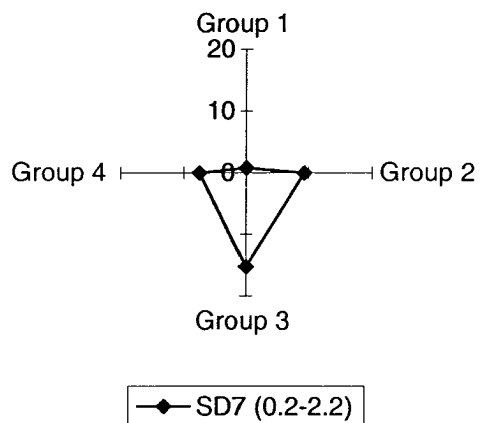
total PAHs = 120 mg/kg



total PAHs = 44 mg/kg

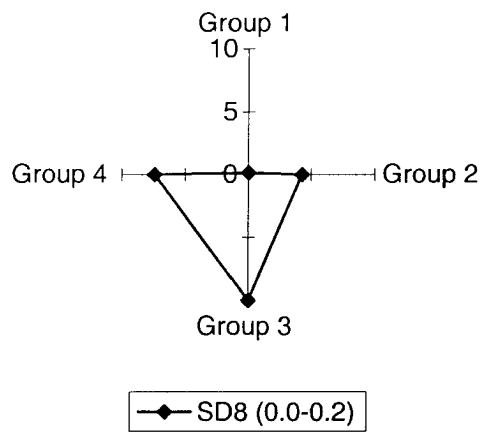


total PAHs = 38 mg/kg

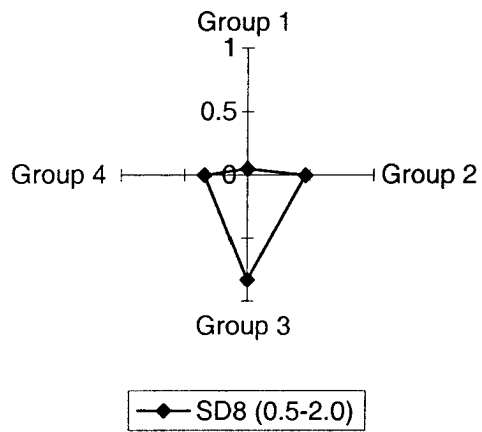




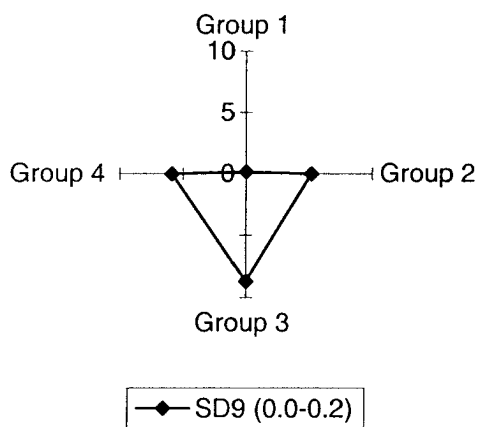
total PAHs = 22 mg/kg



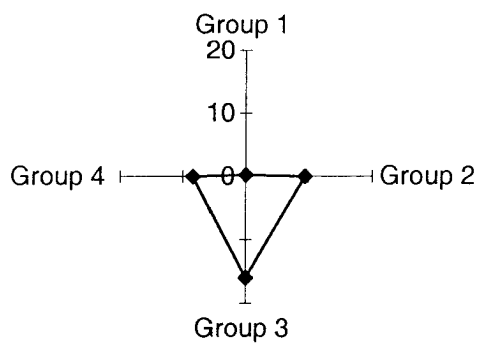
total PAHs = 2 mg/kg



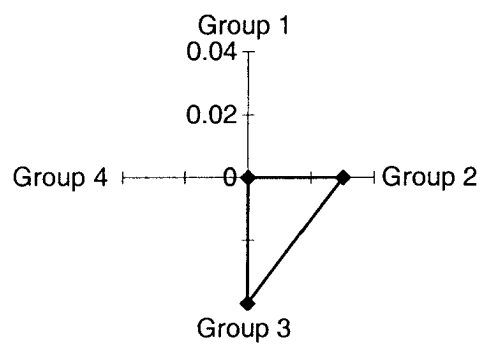
total PAHs = 18 mg/kg



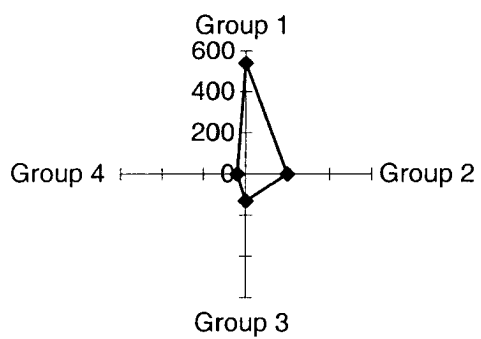
total PAHs = 39 mg/kg



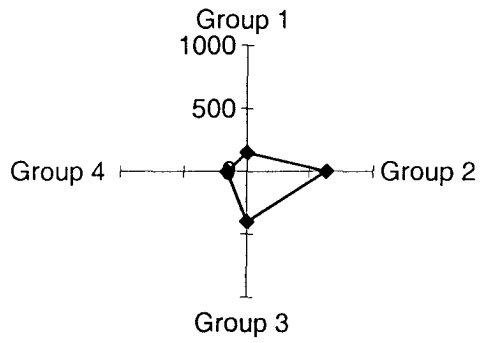
—◆— SD9 (0.4-2.4)



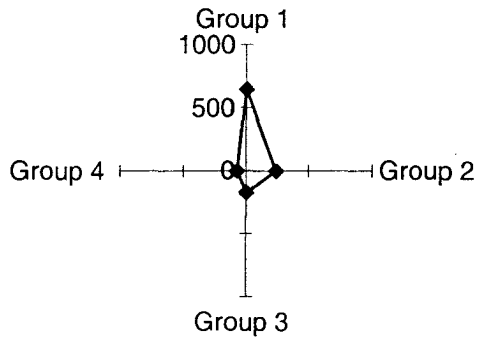
—◆— SDS33 (2.6-3.5)



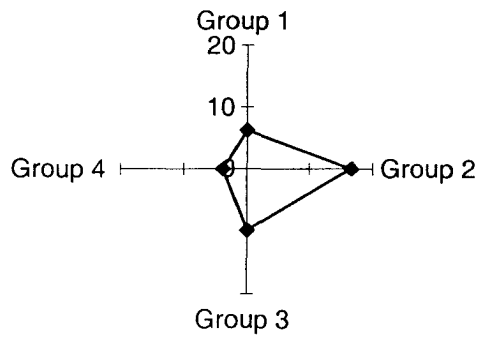
—◆— TP1 (8.0-9.0)



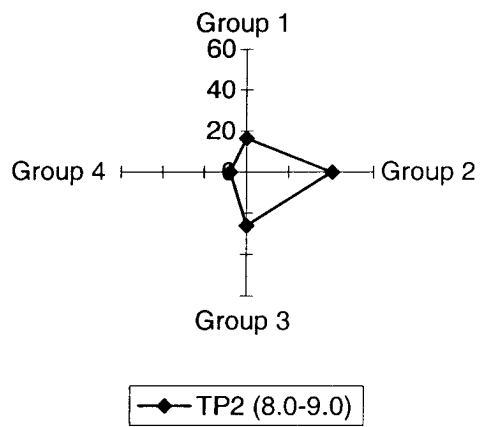
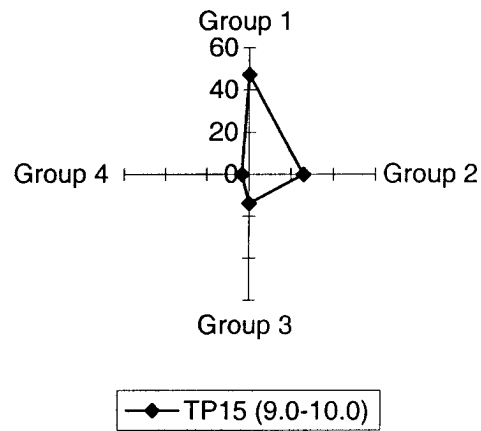
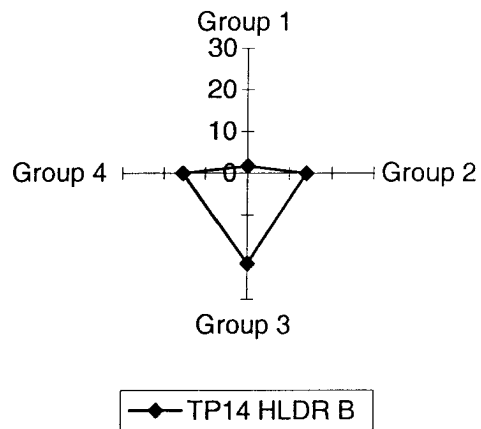
—◆— TP10 (9.5-10.5)

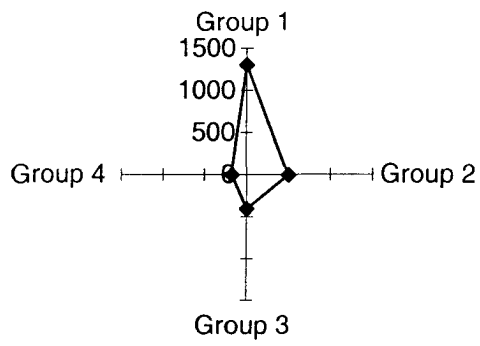


—◆— TP13 (8-9)

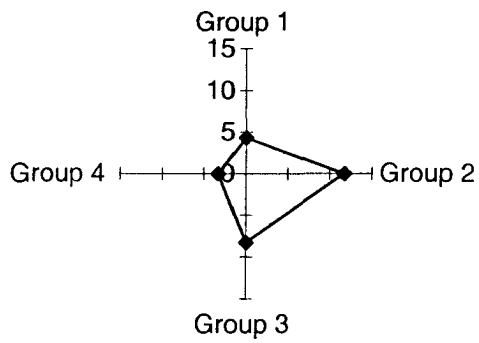


—◆— TP14 (9.0-10.0)

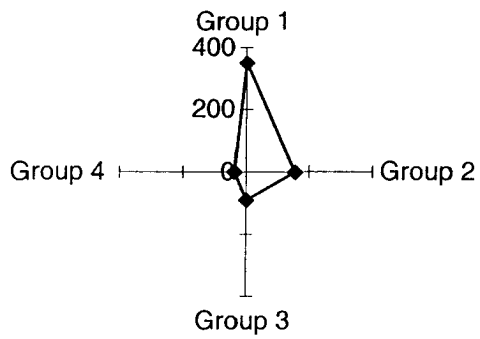




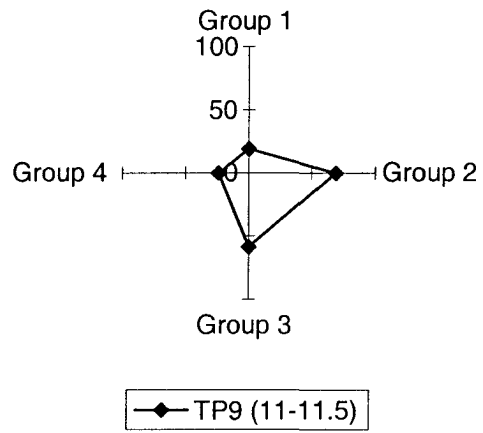
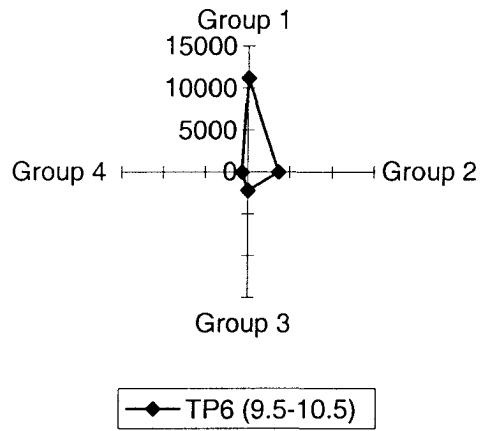
—●— TP20 (6.5-7.0)



—●— TP4 (9.5-10.0)



—●— TP5 (8.5-9.5)

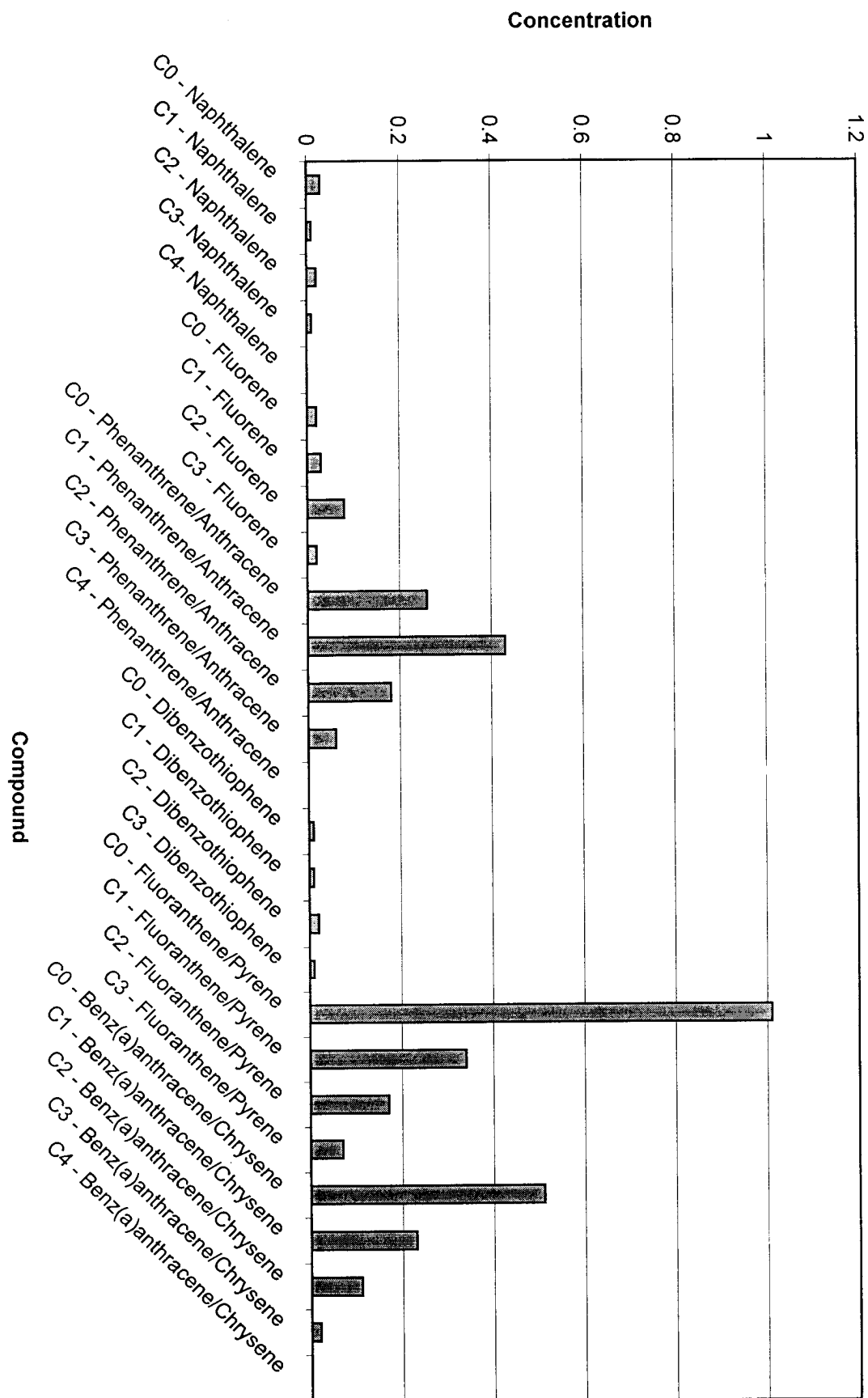


# F

## BAR GRAPHS

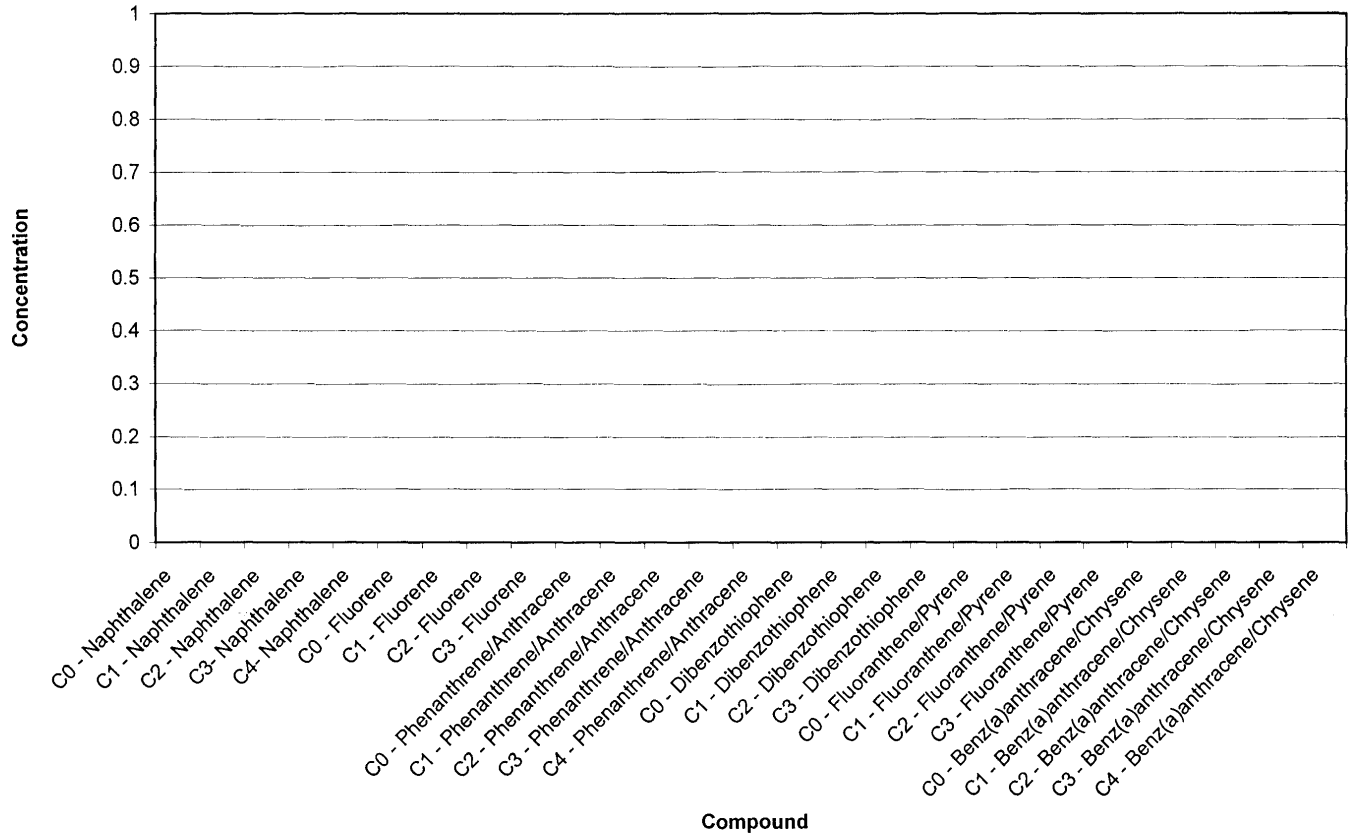
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BSD1 (0-2)

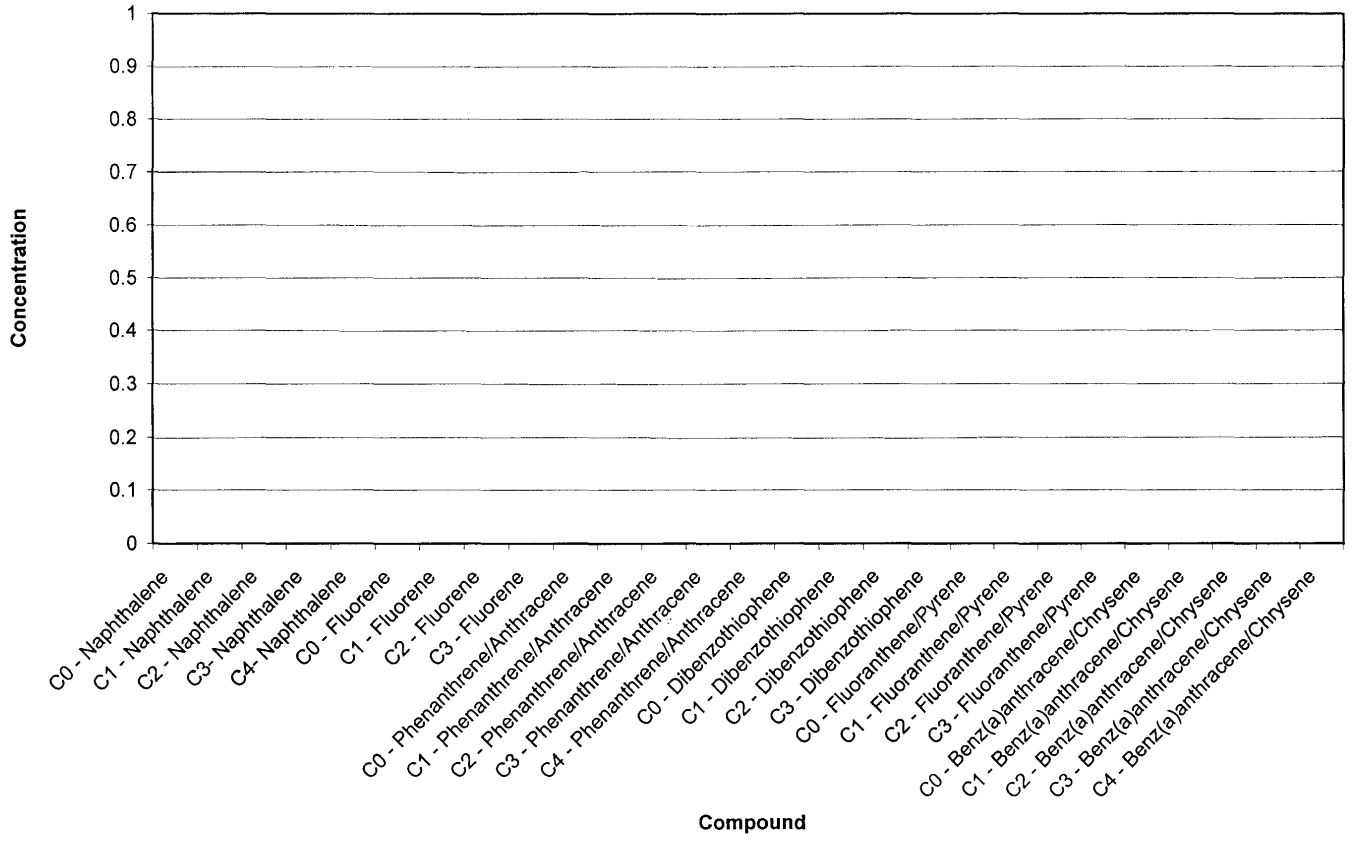




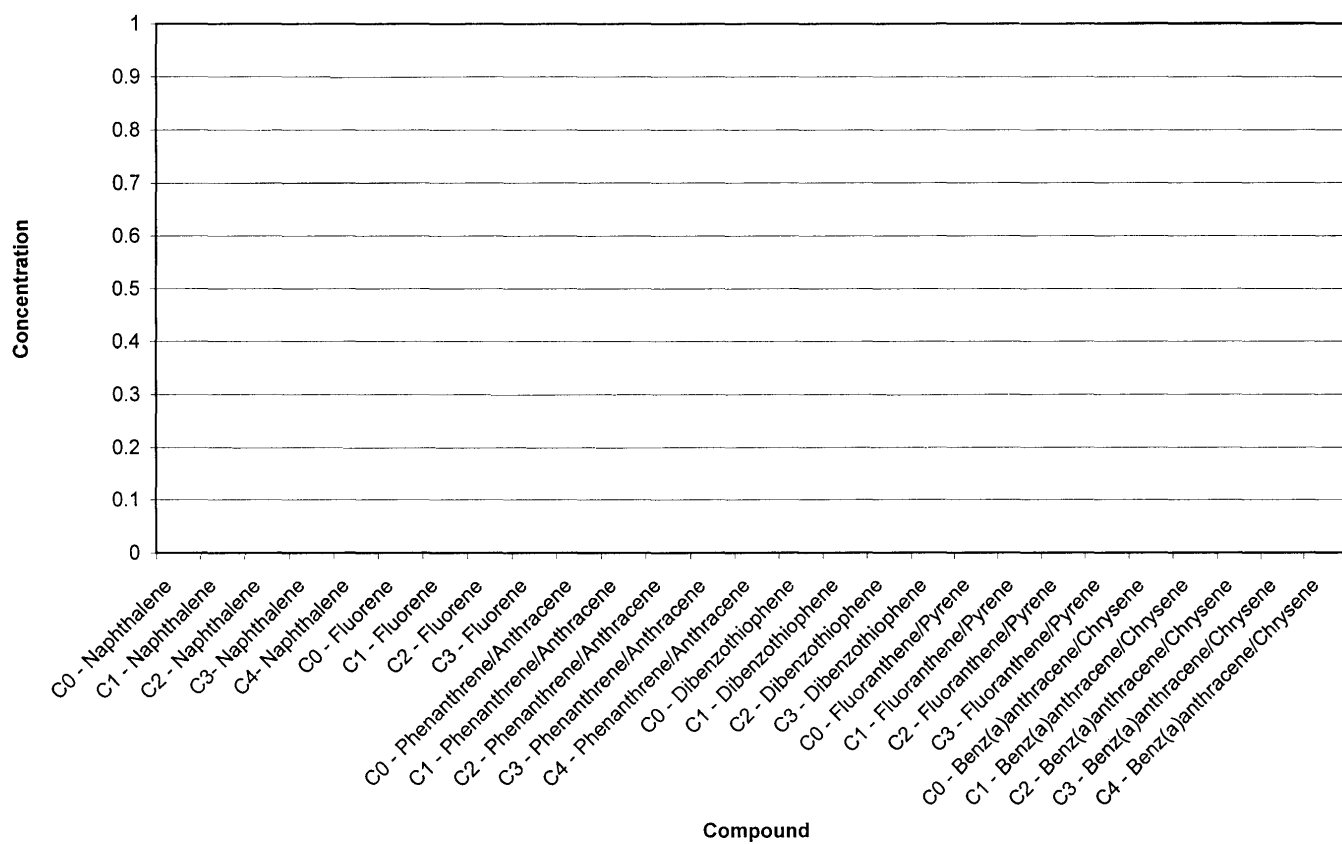
BSD10 (0-2)



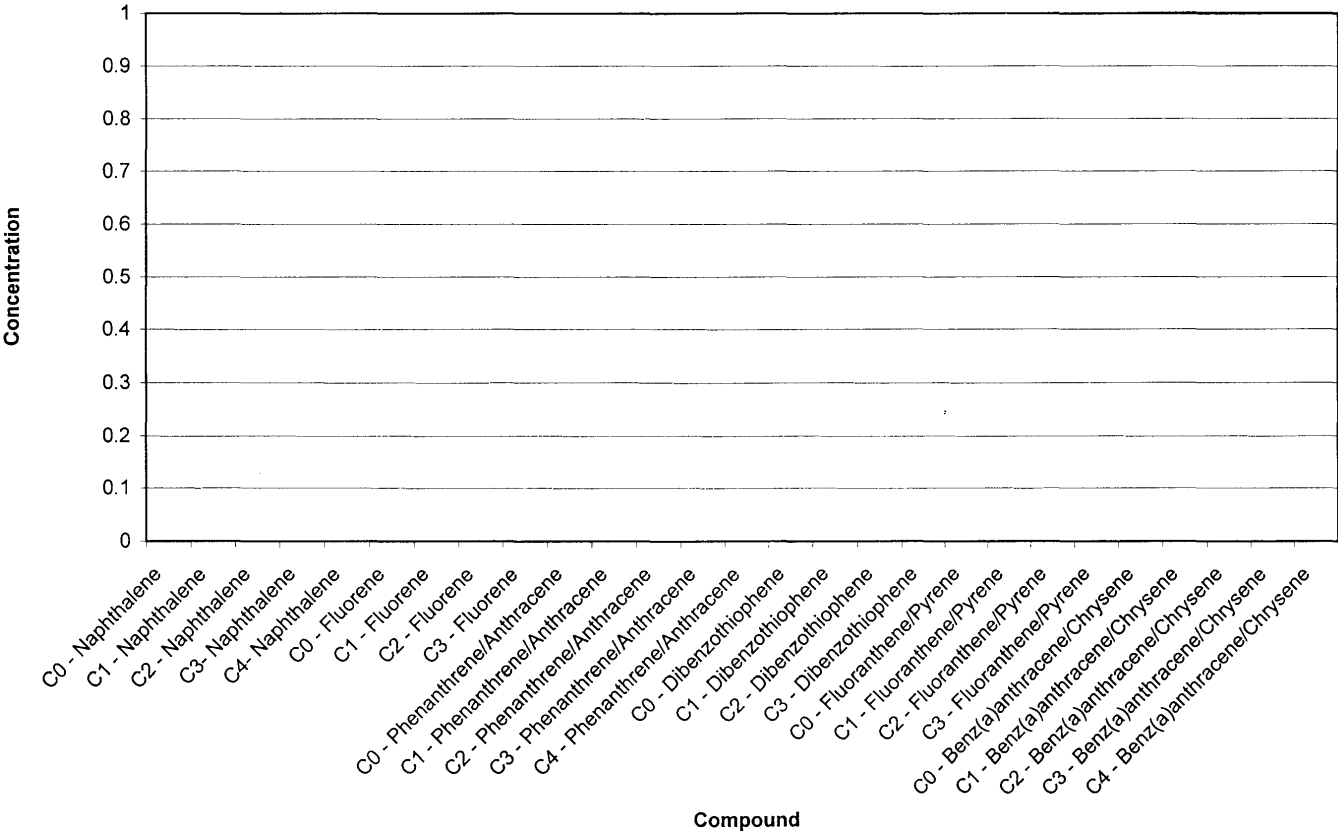
BSD11 (0-2)

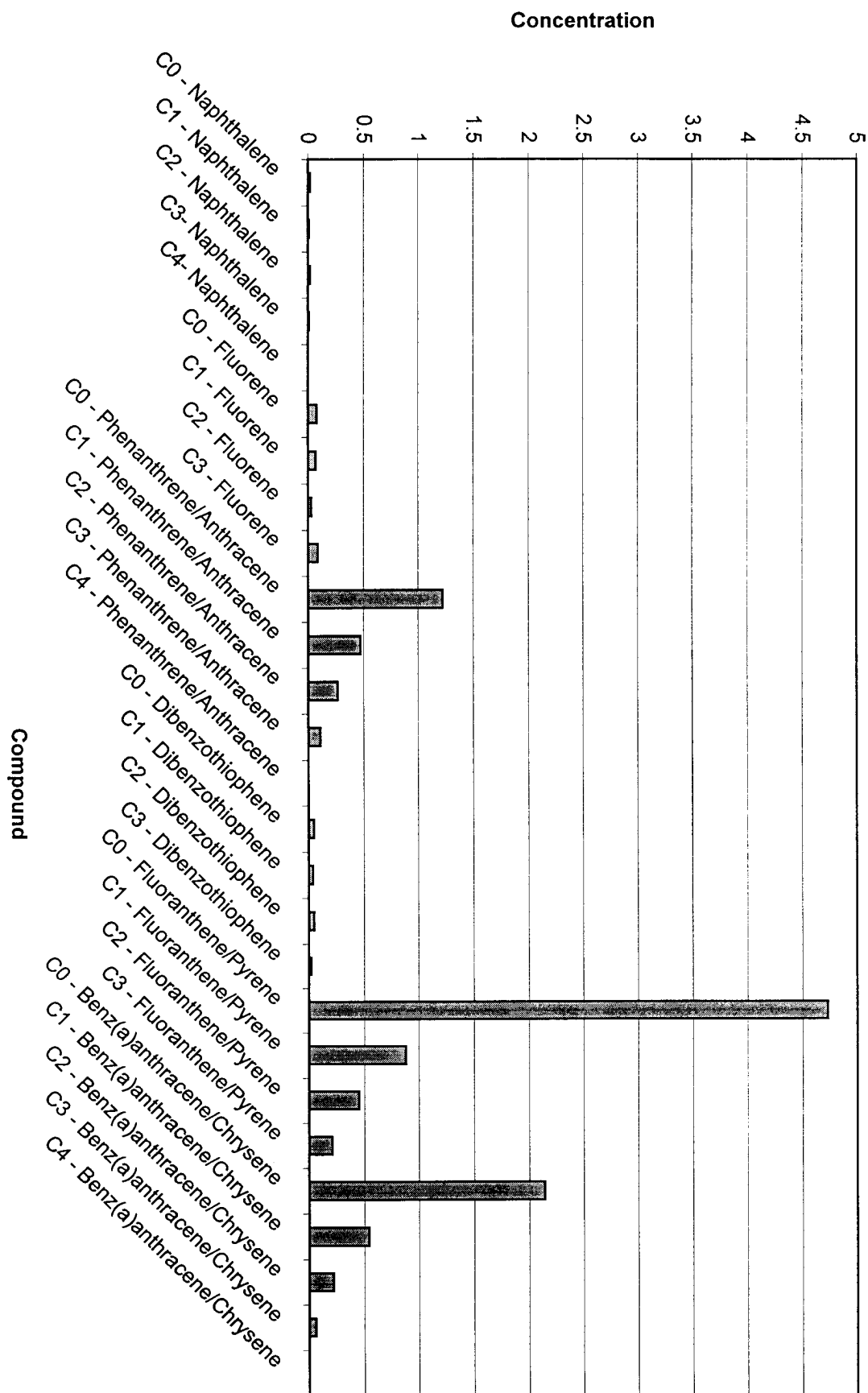


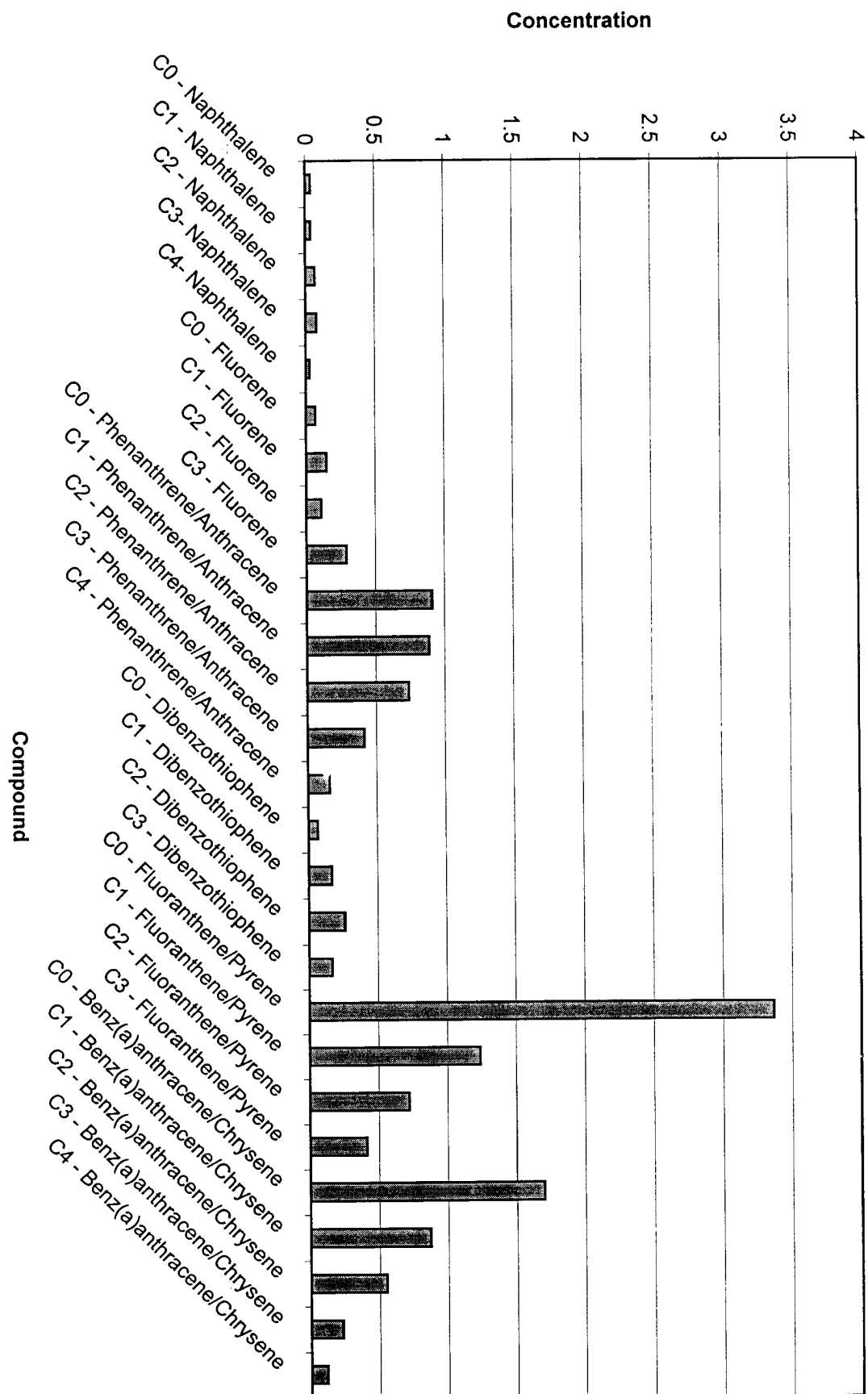
BSD12 (0-2)



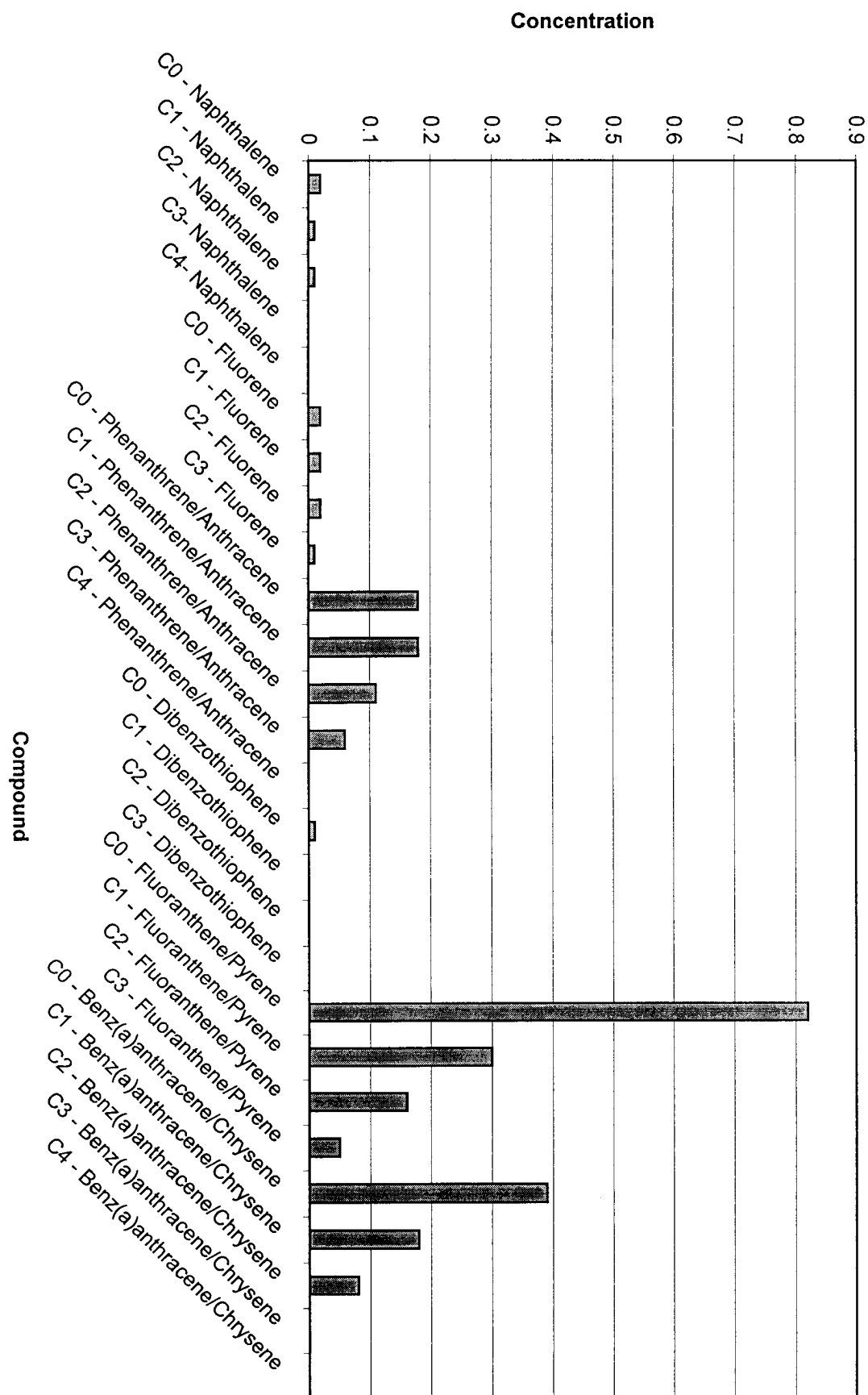
BSD13 (0-2)



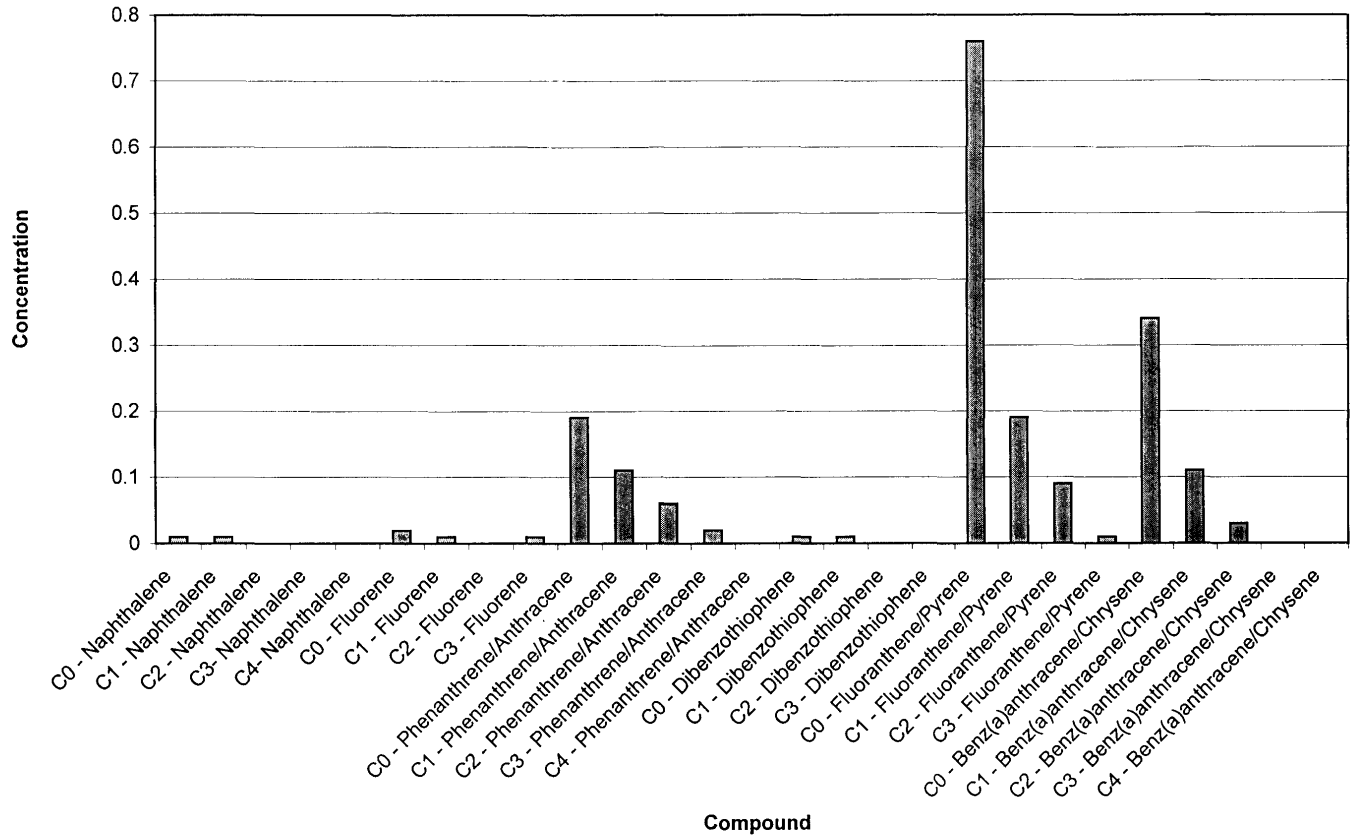




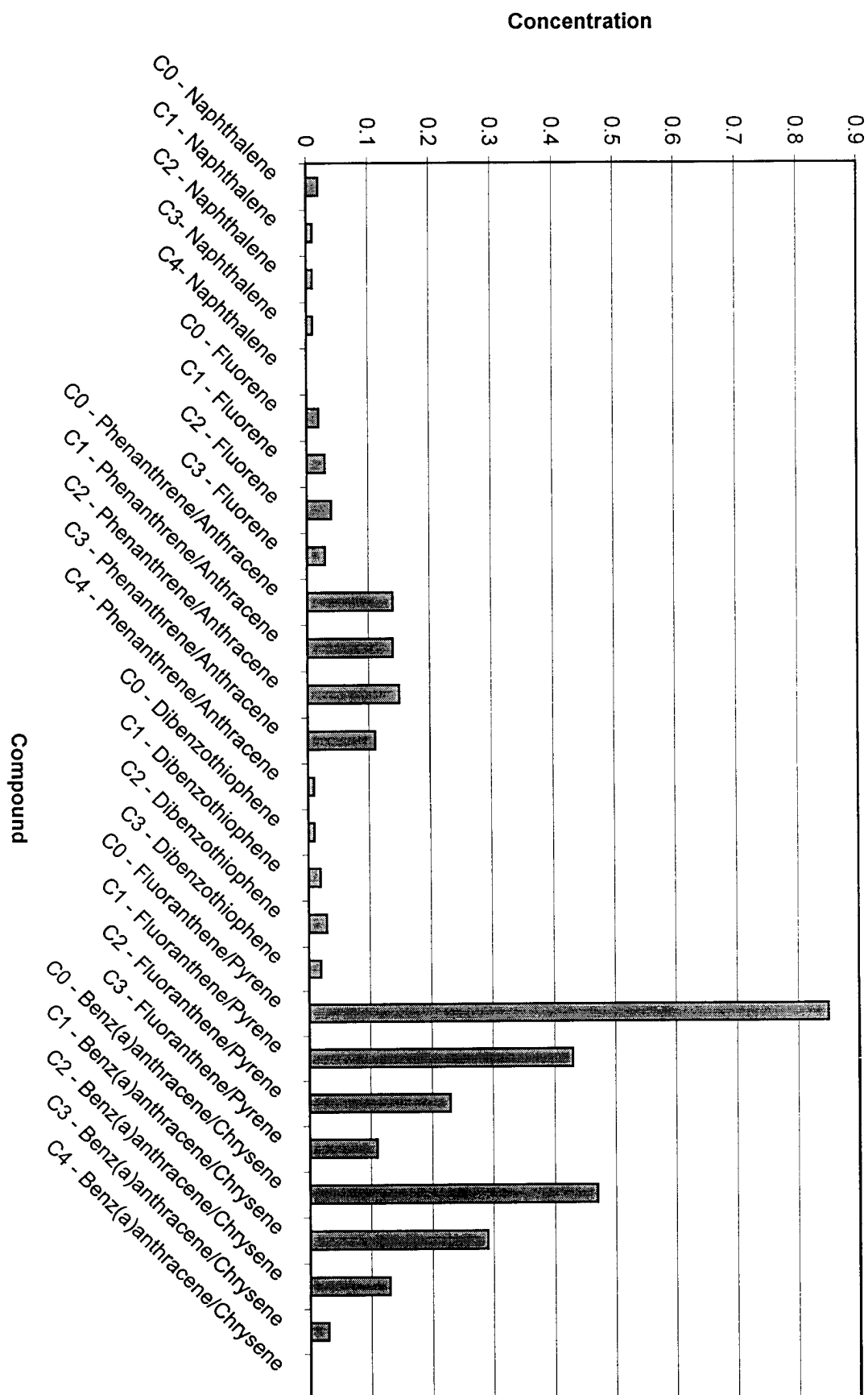
BSD16 (0-2)



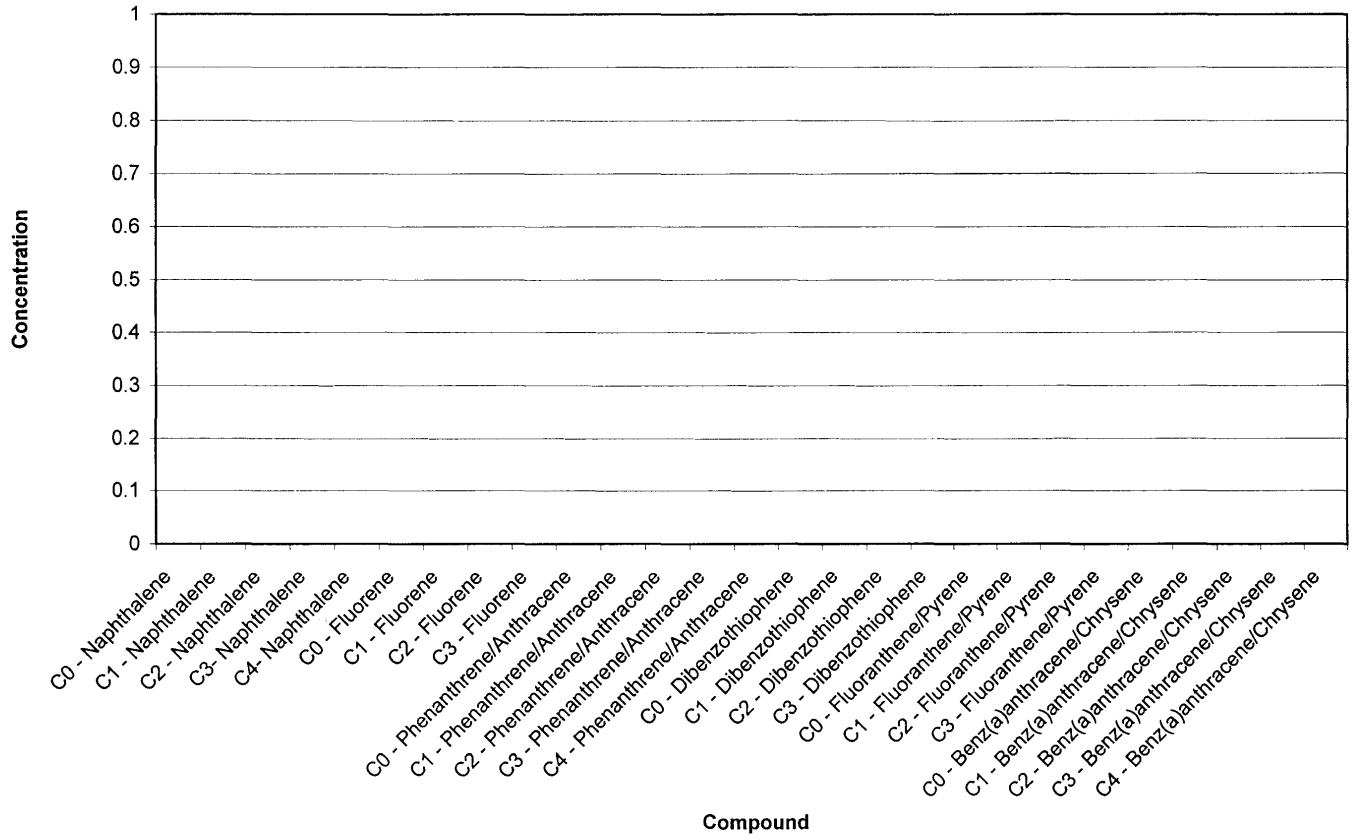
BSD18 (0-2)

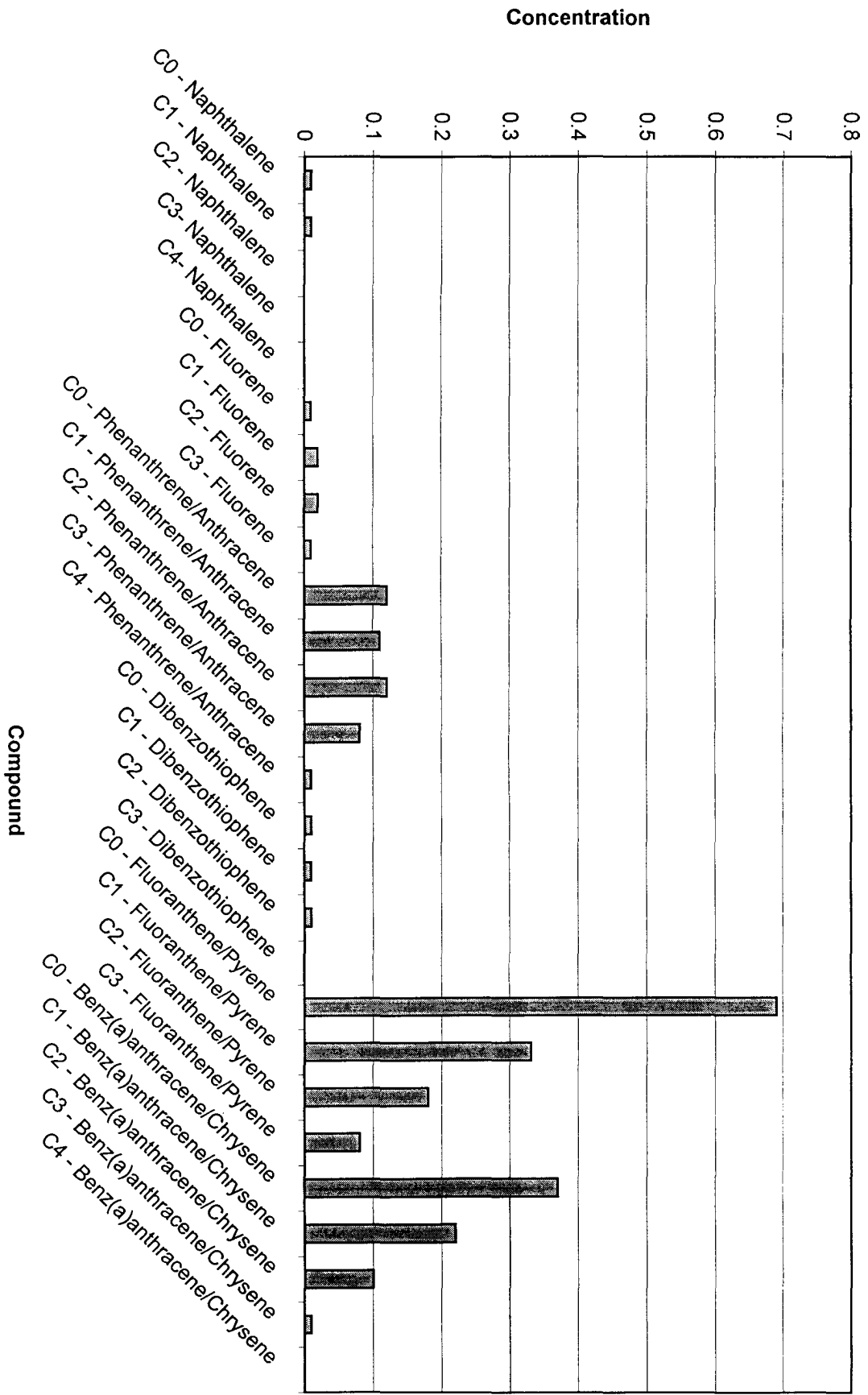




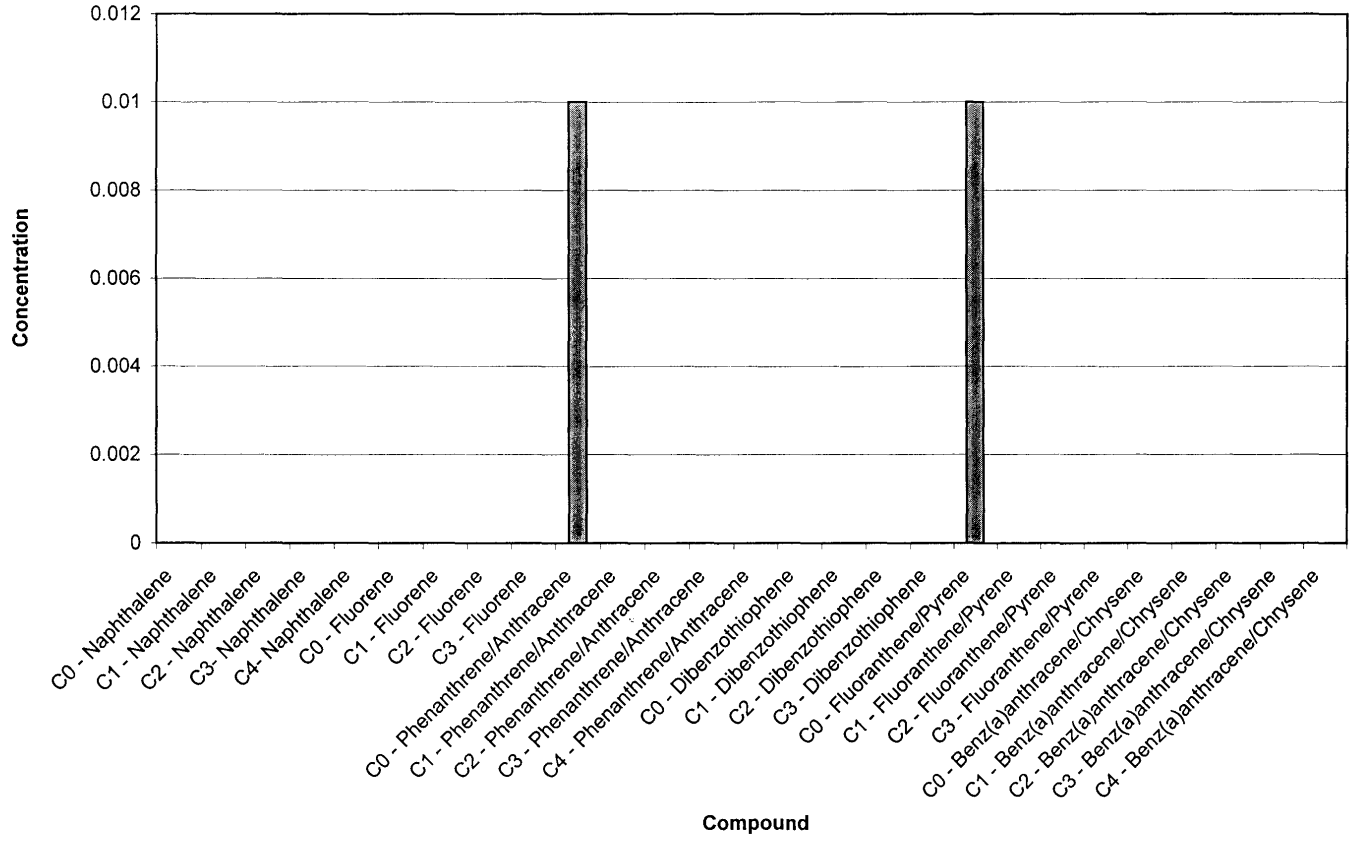


BSD2 (0-2)

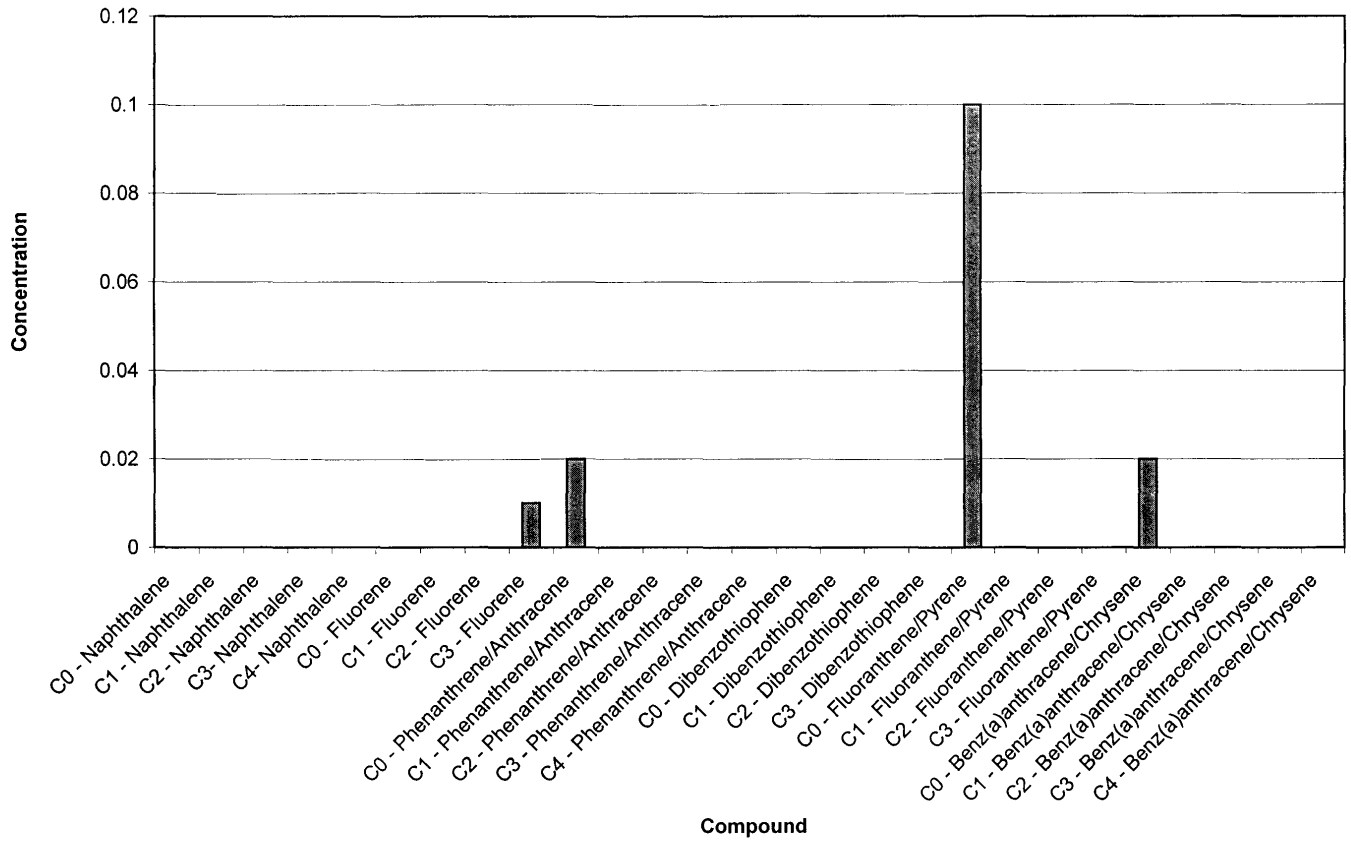




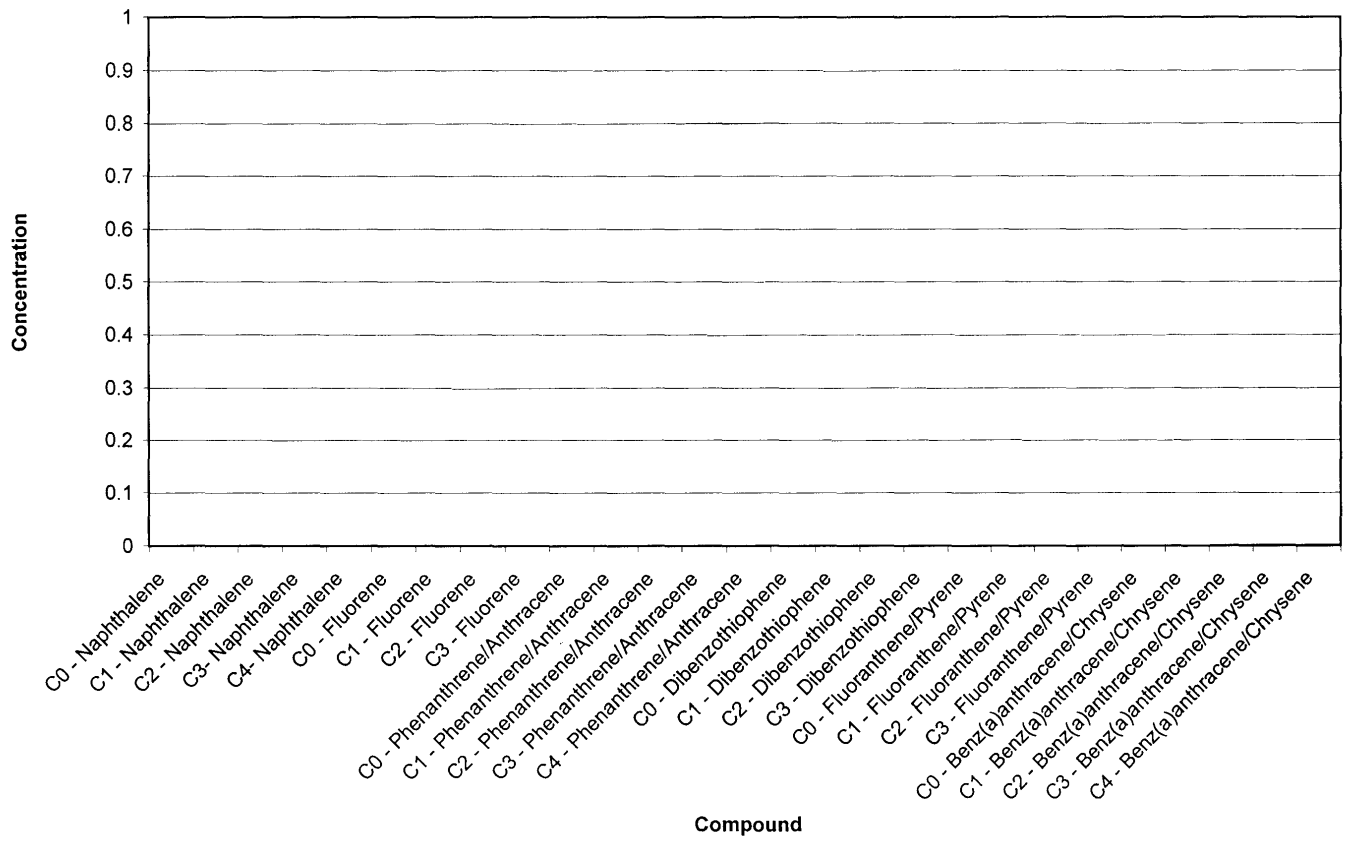
BSD3 (0-2)



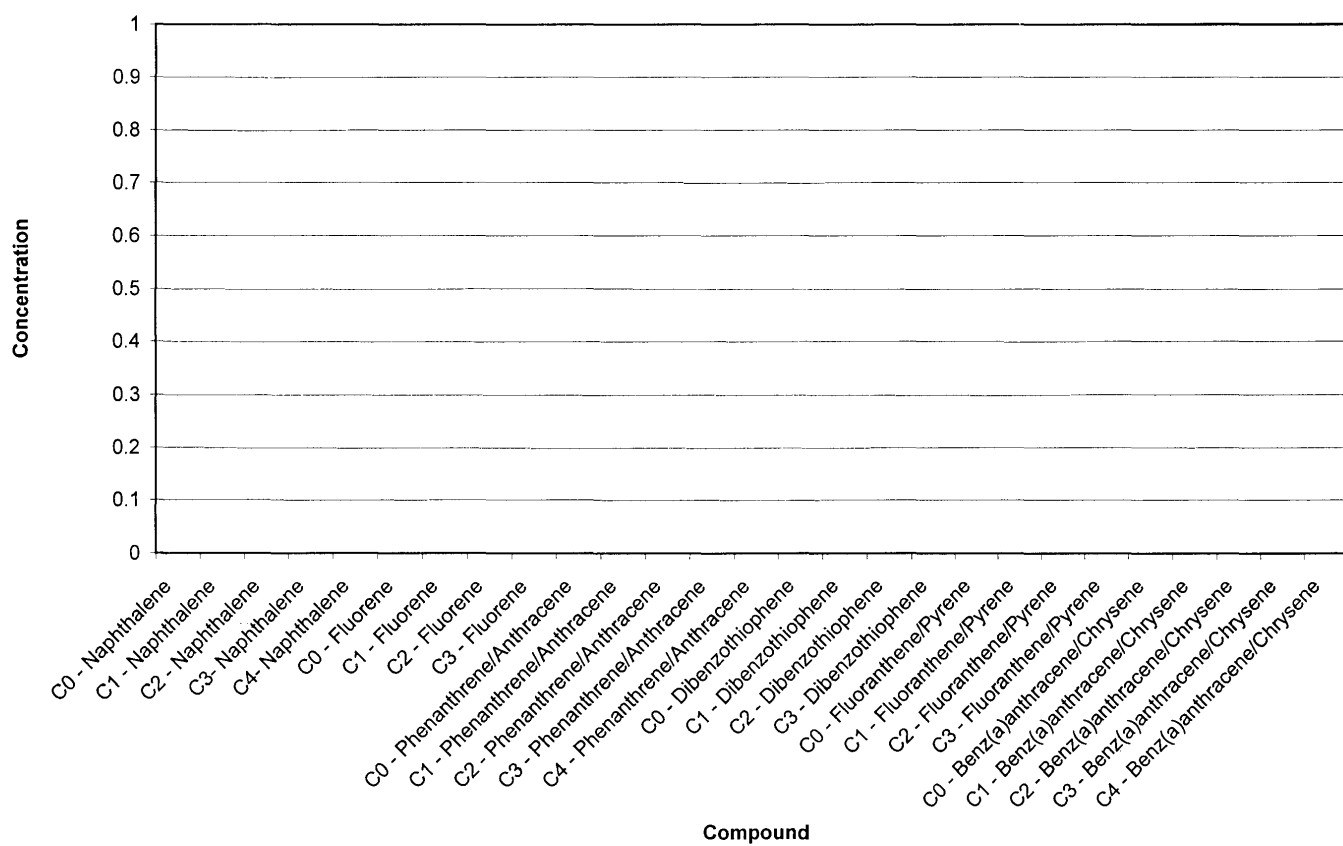
BSD4 (0-2)



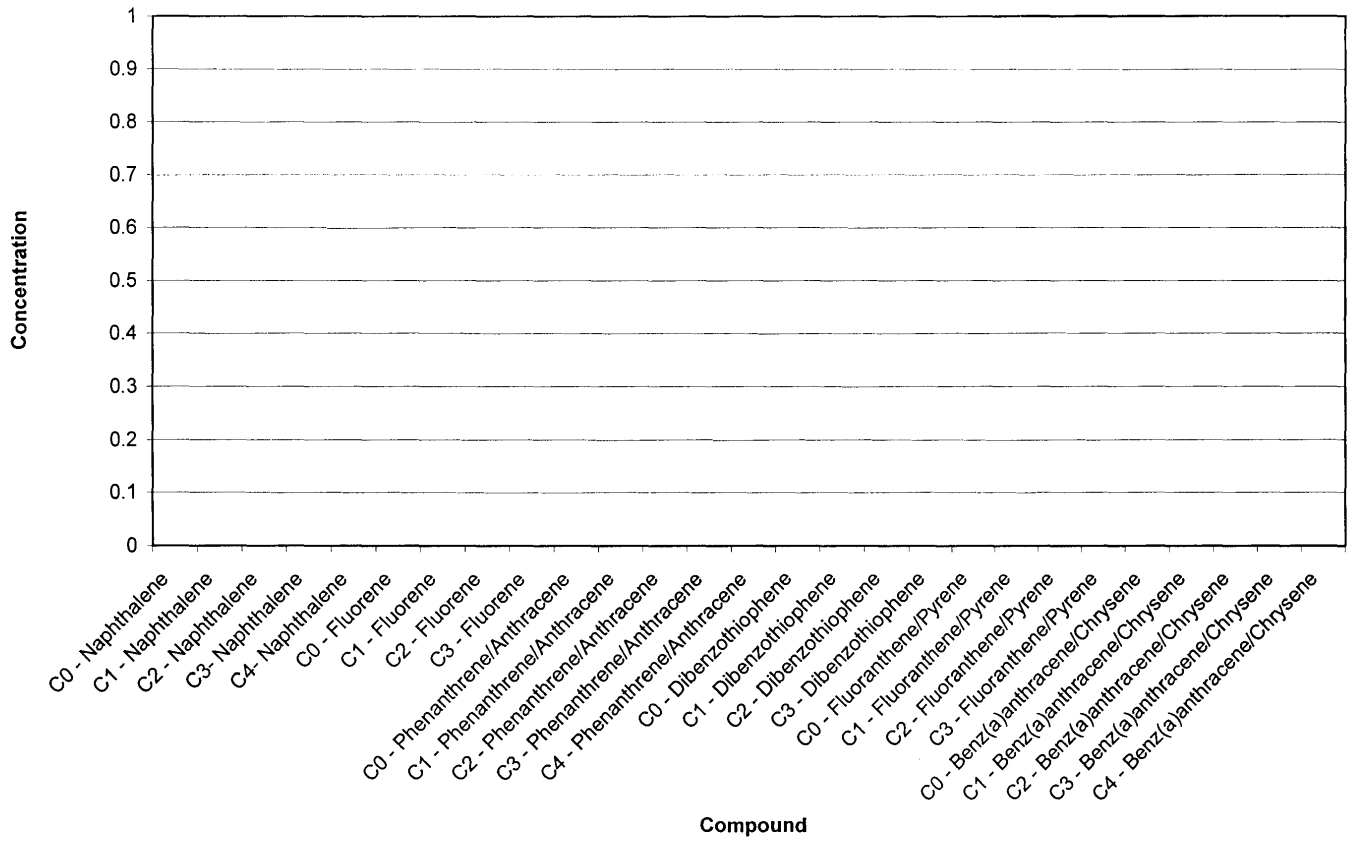
BSD5 (0-2)



BSD50 (0-2)

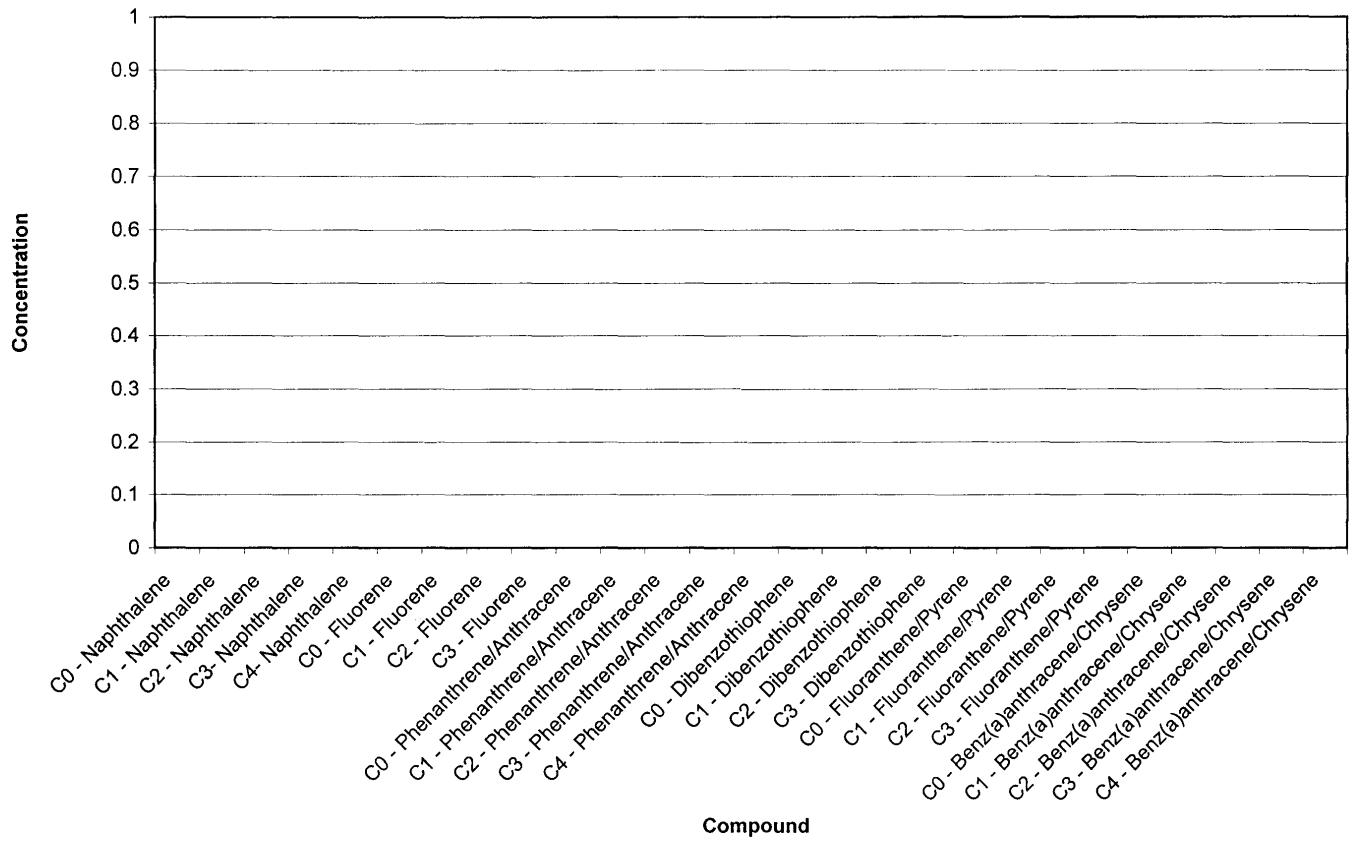


BSD6 (0-2)

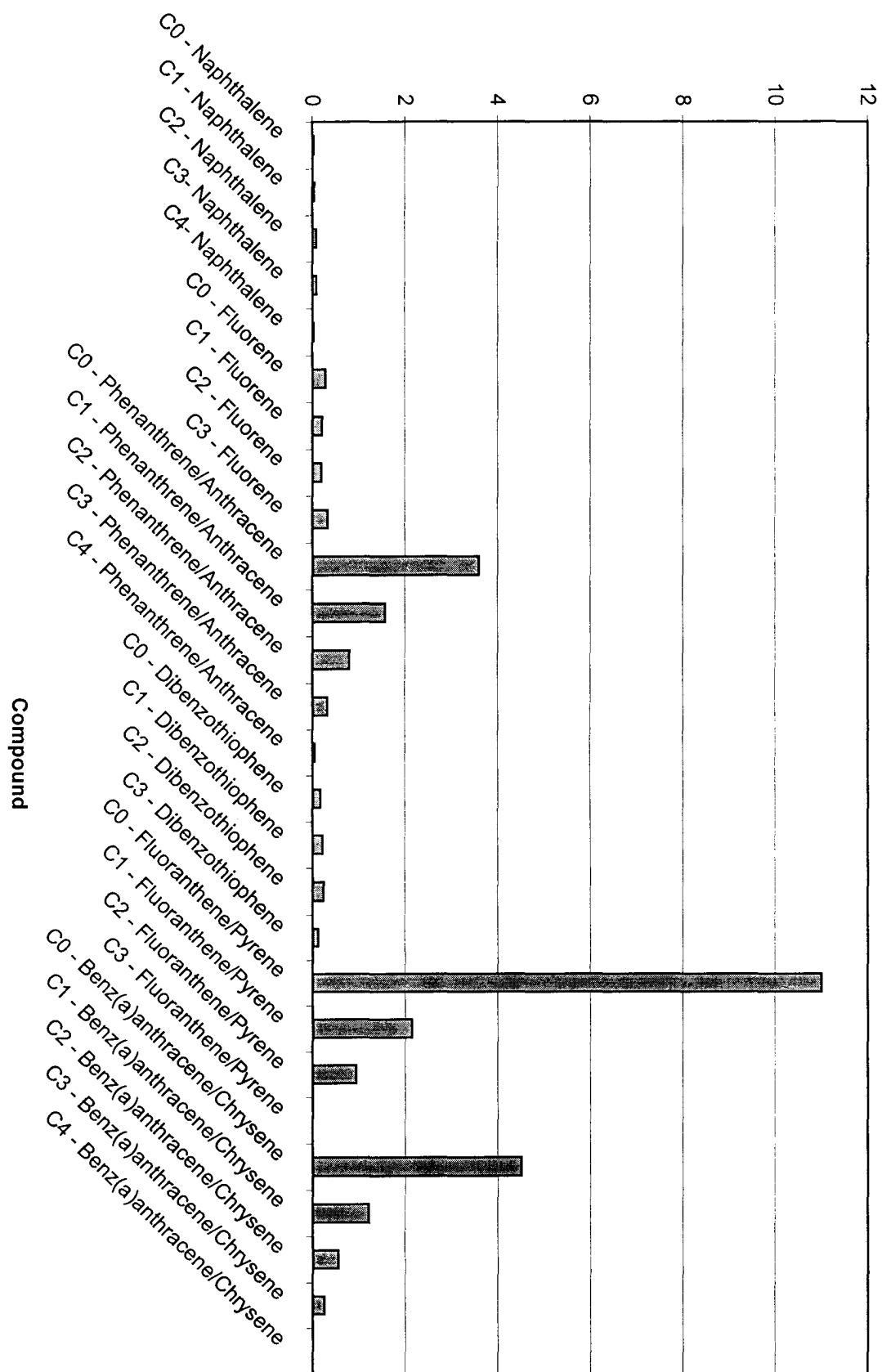




BSD7 (0-2)

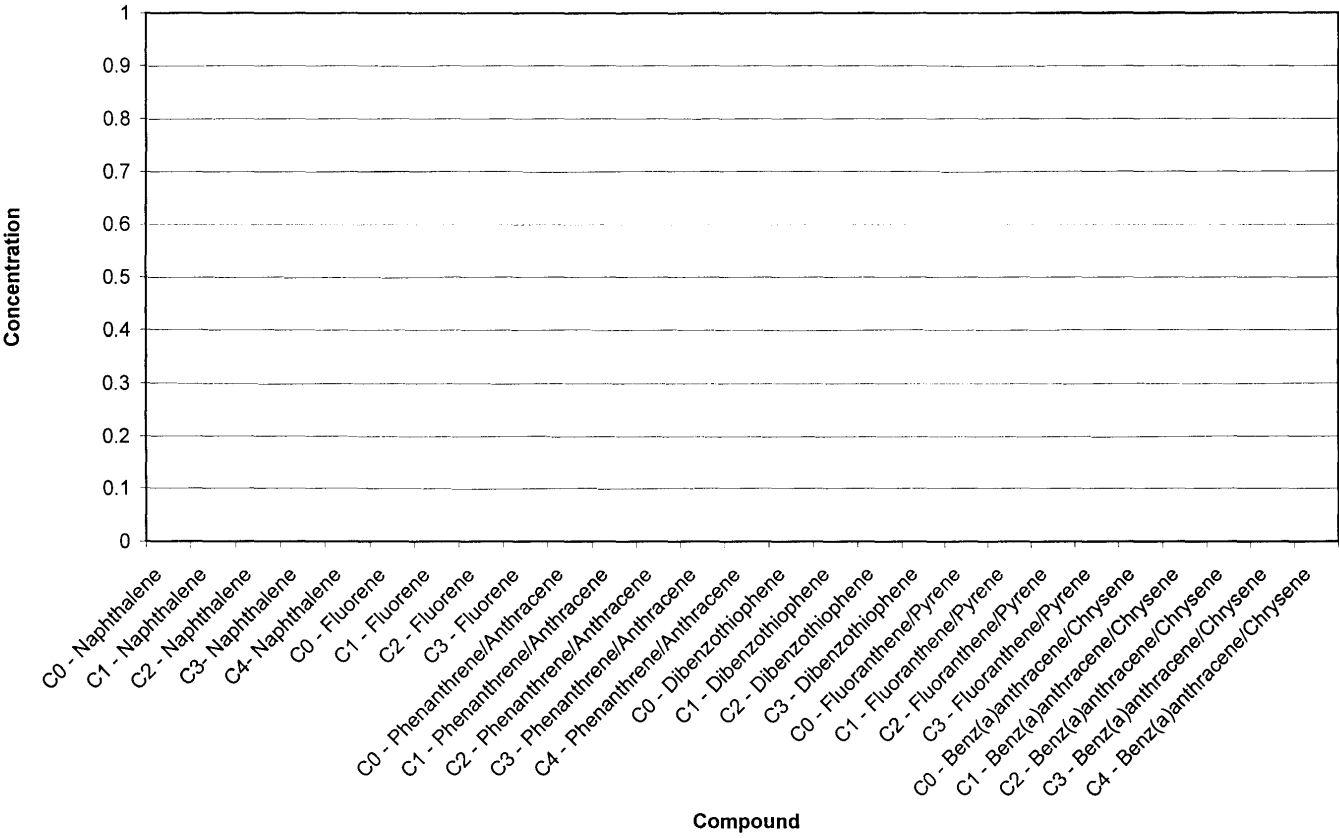


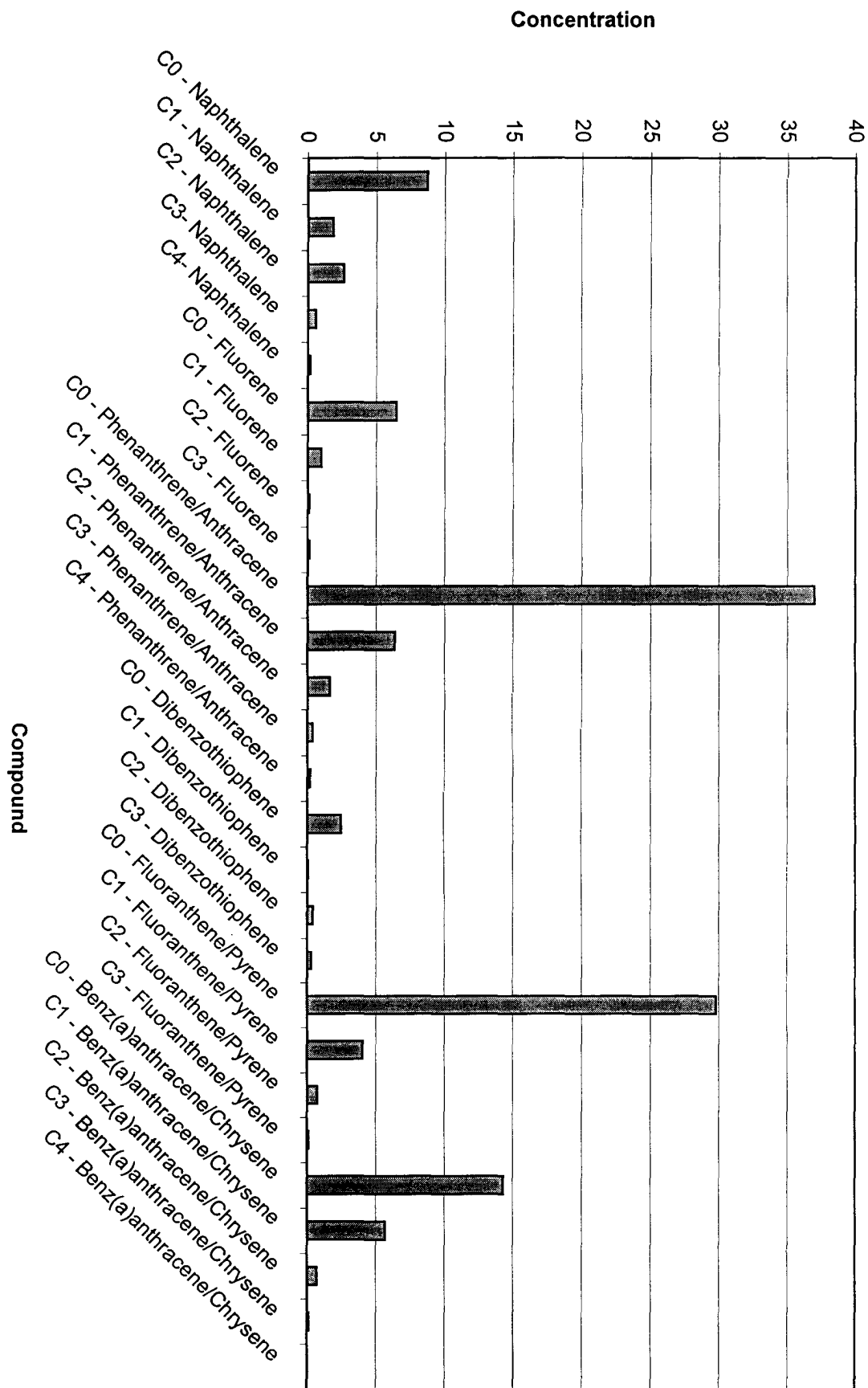
Concentration

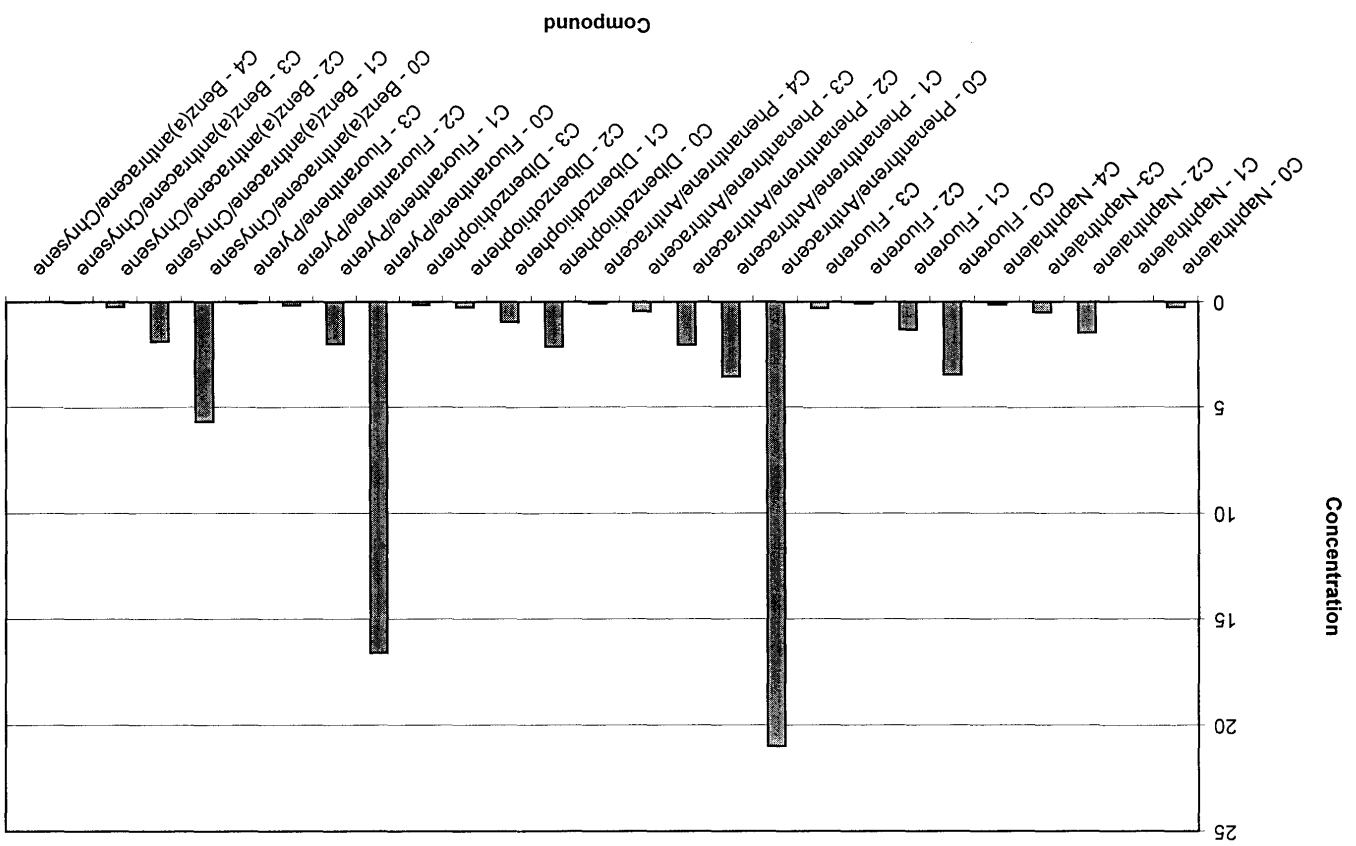


BSD8 (0-2)

BSDS9 (0-2)

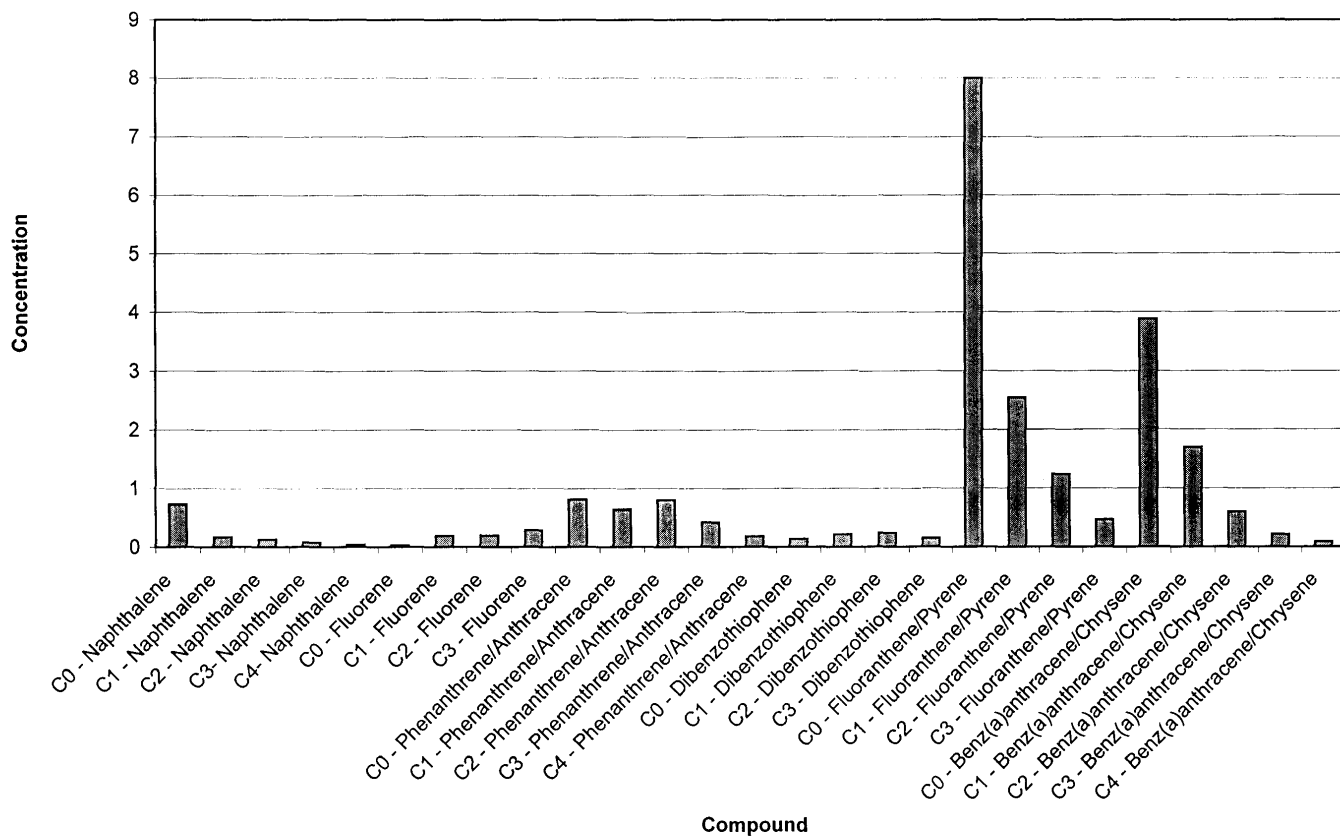




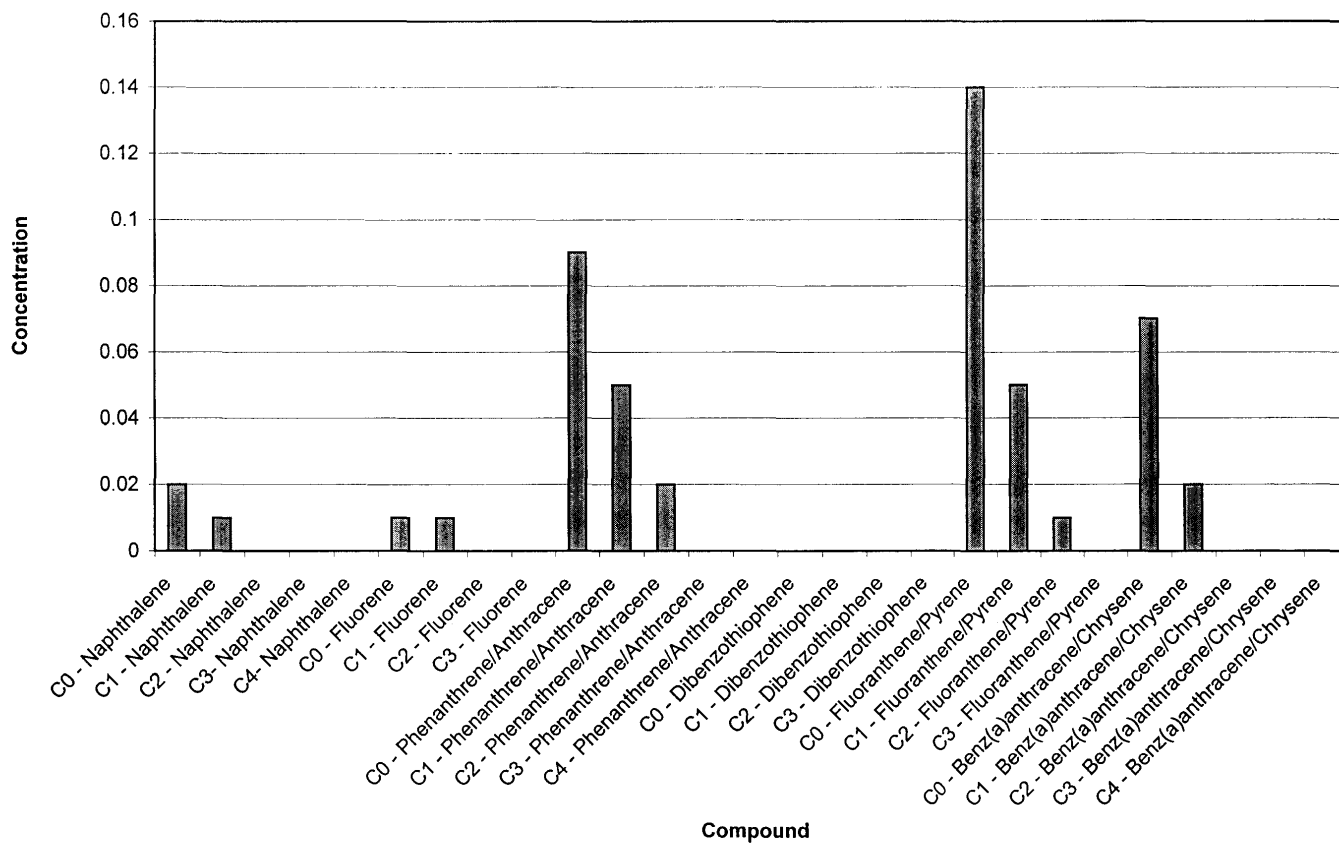


MW10S (11-12)

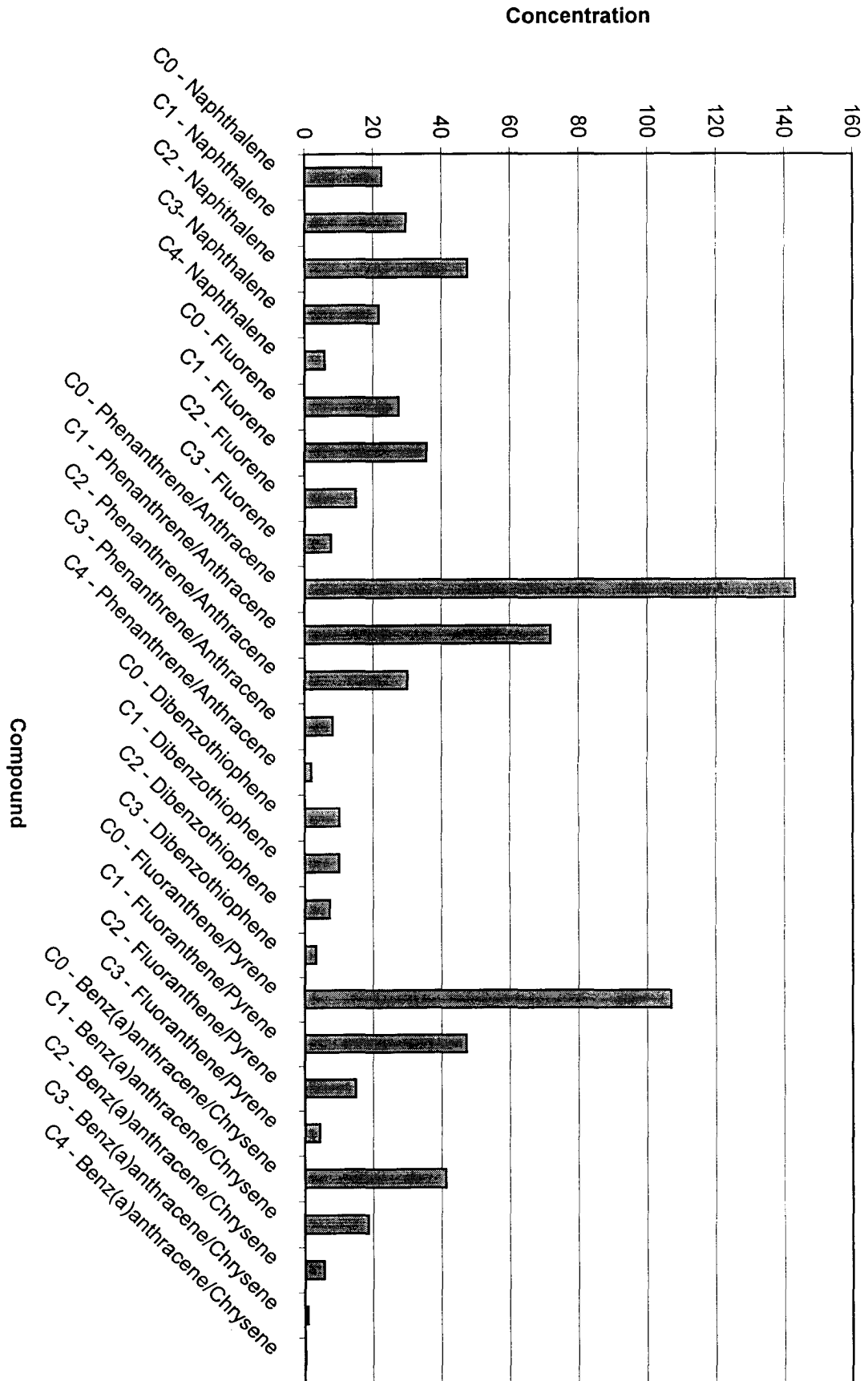
MW11-BC (10-11)



MW1D (4.0-5.0)

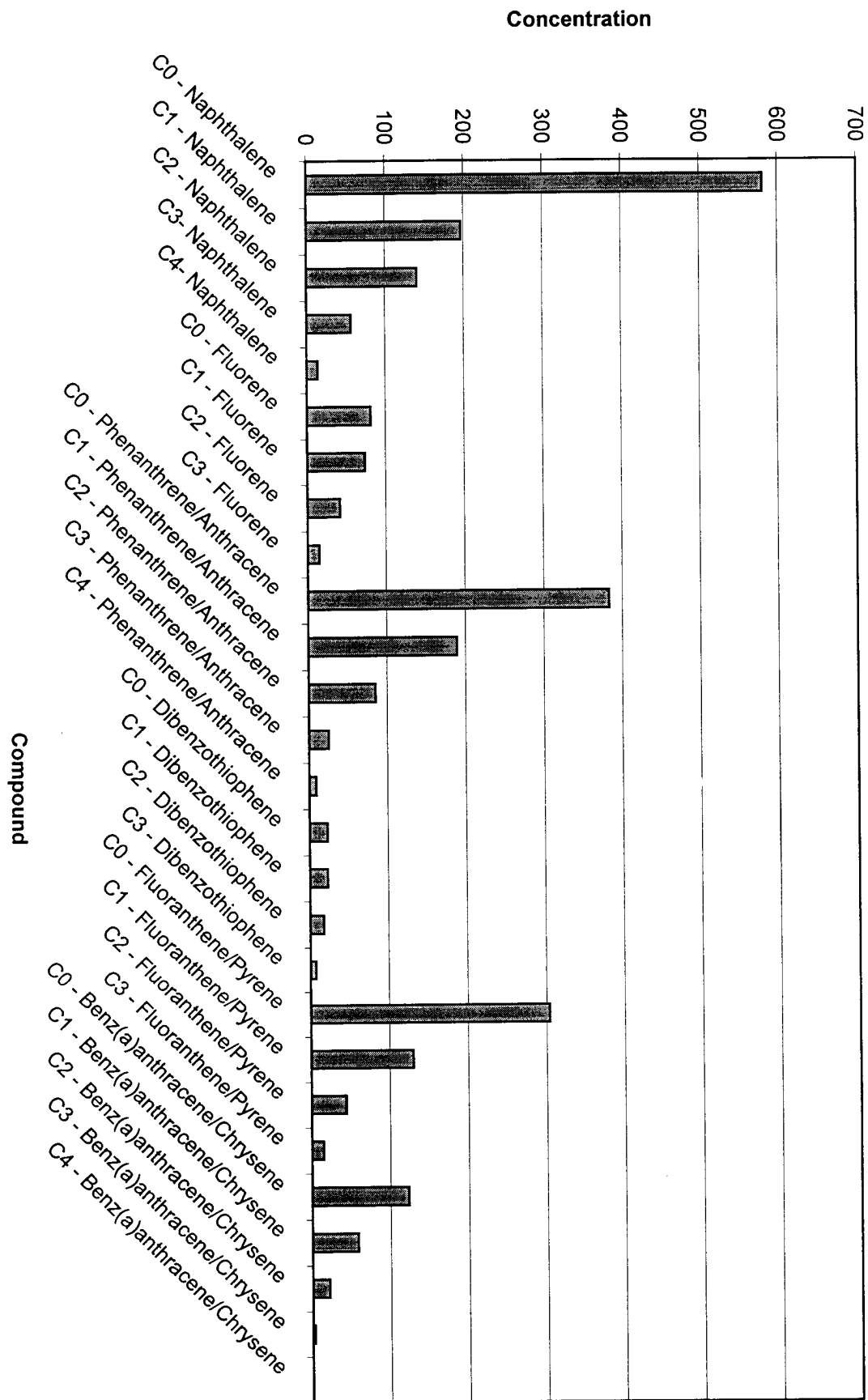


MMV2 (10.0-12.4)

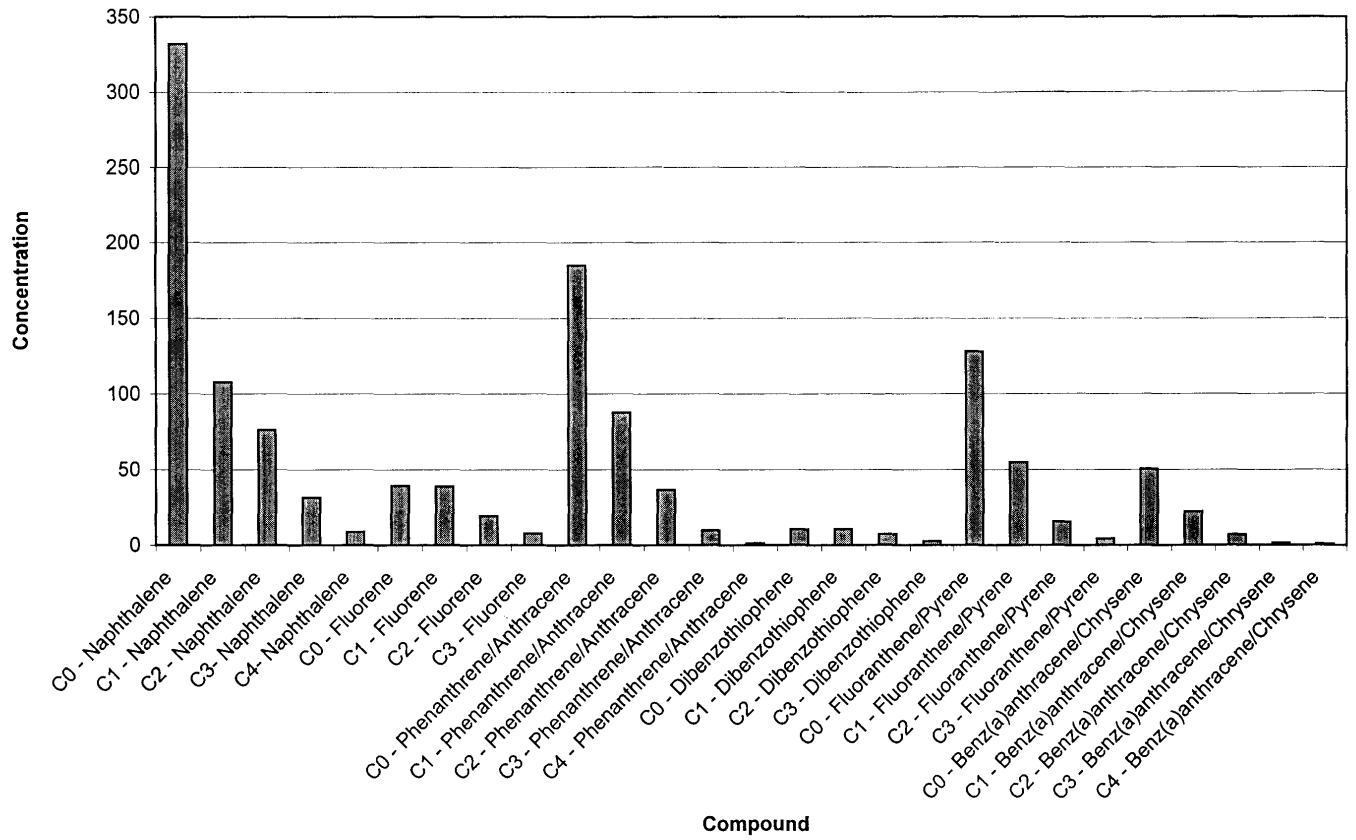




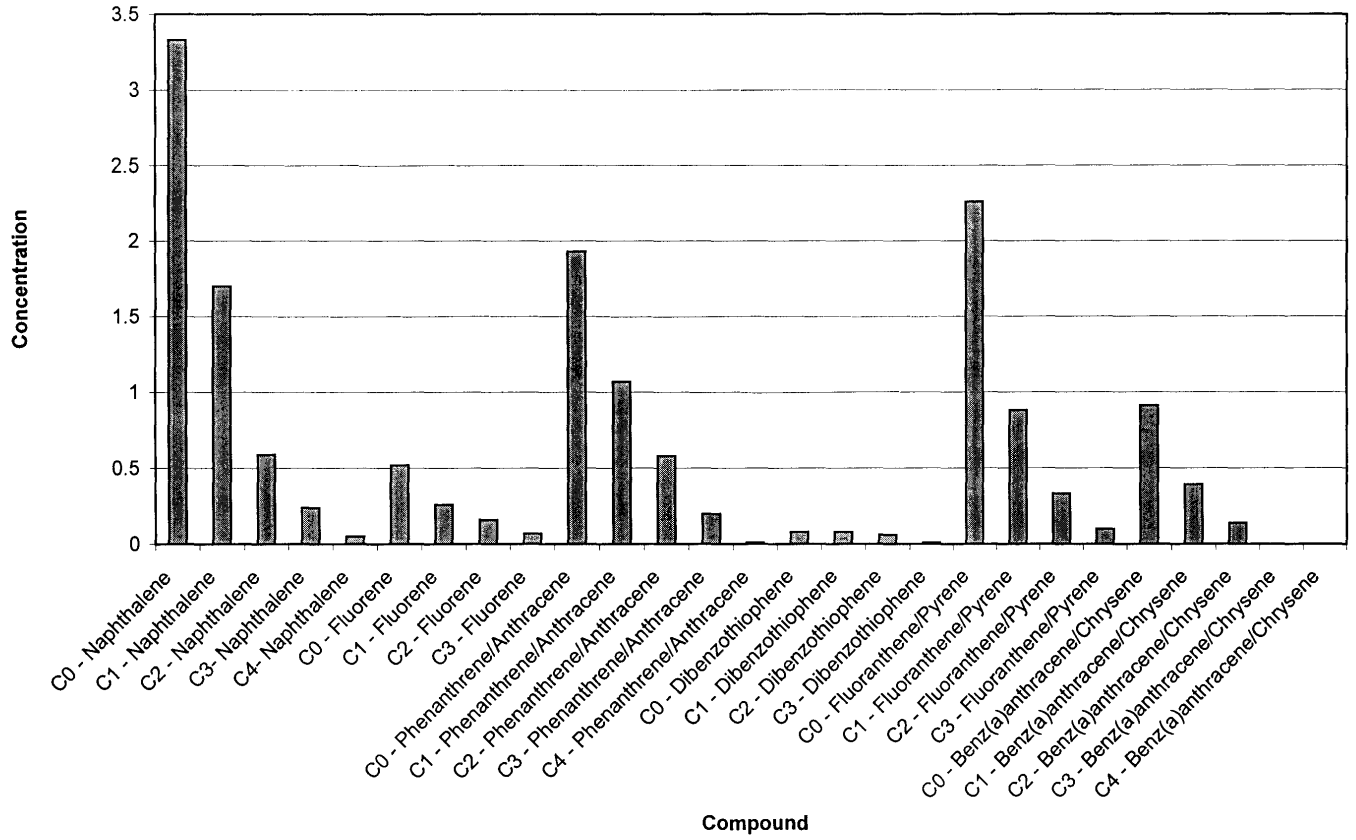
MMW3 (12.0-13.8)



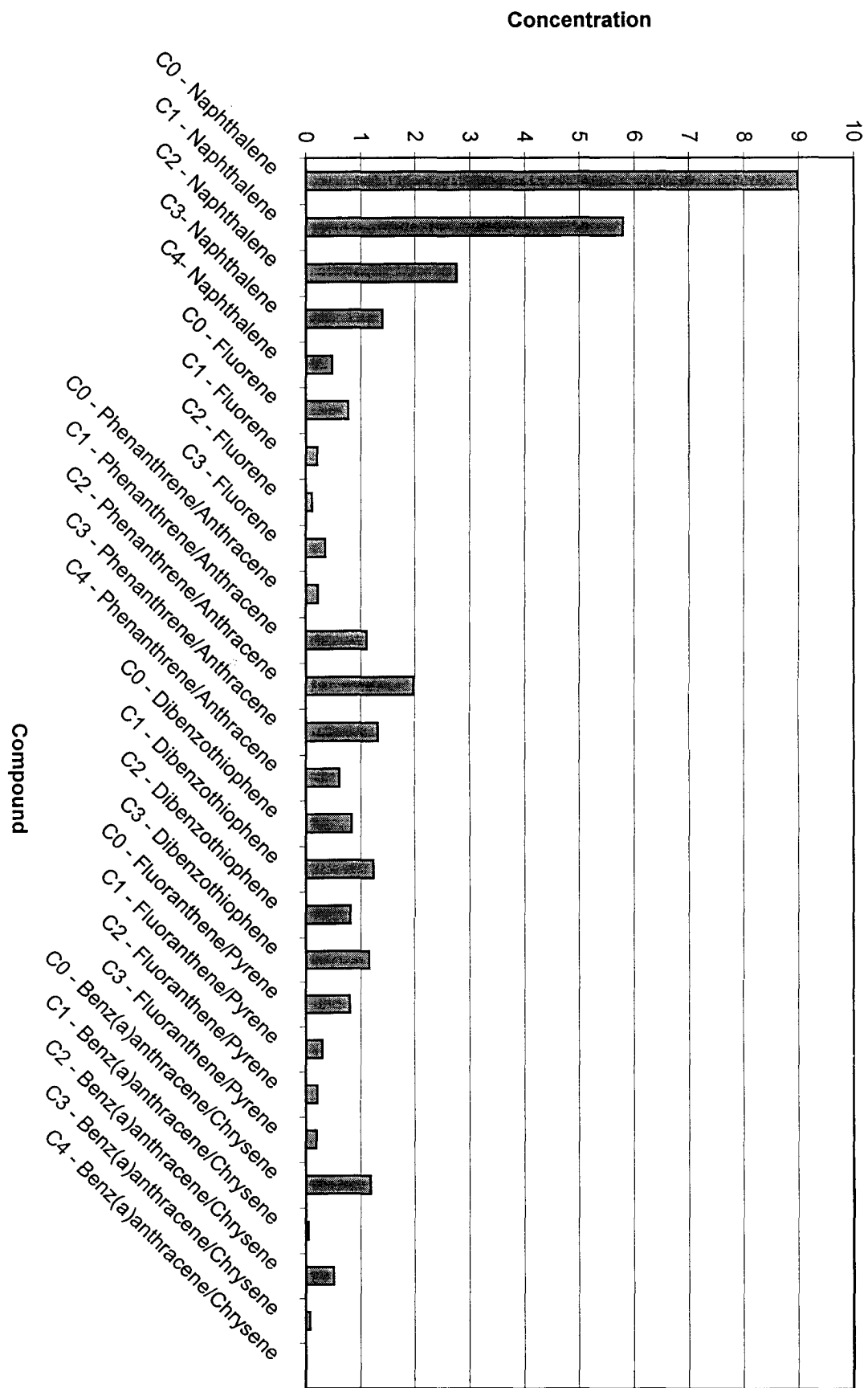
MW3D (10.0-12.0)

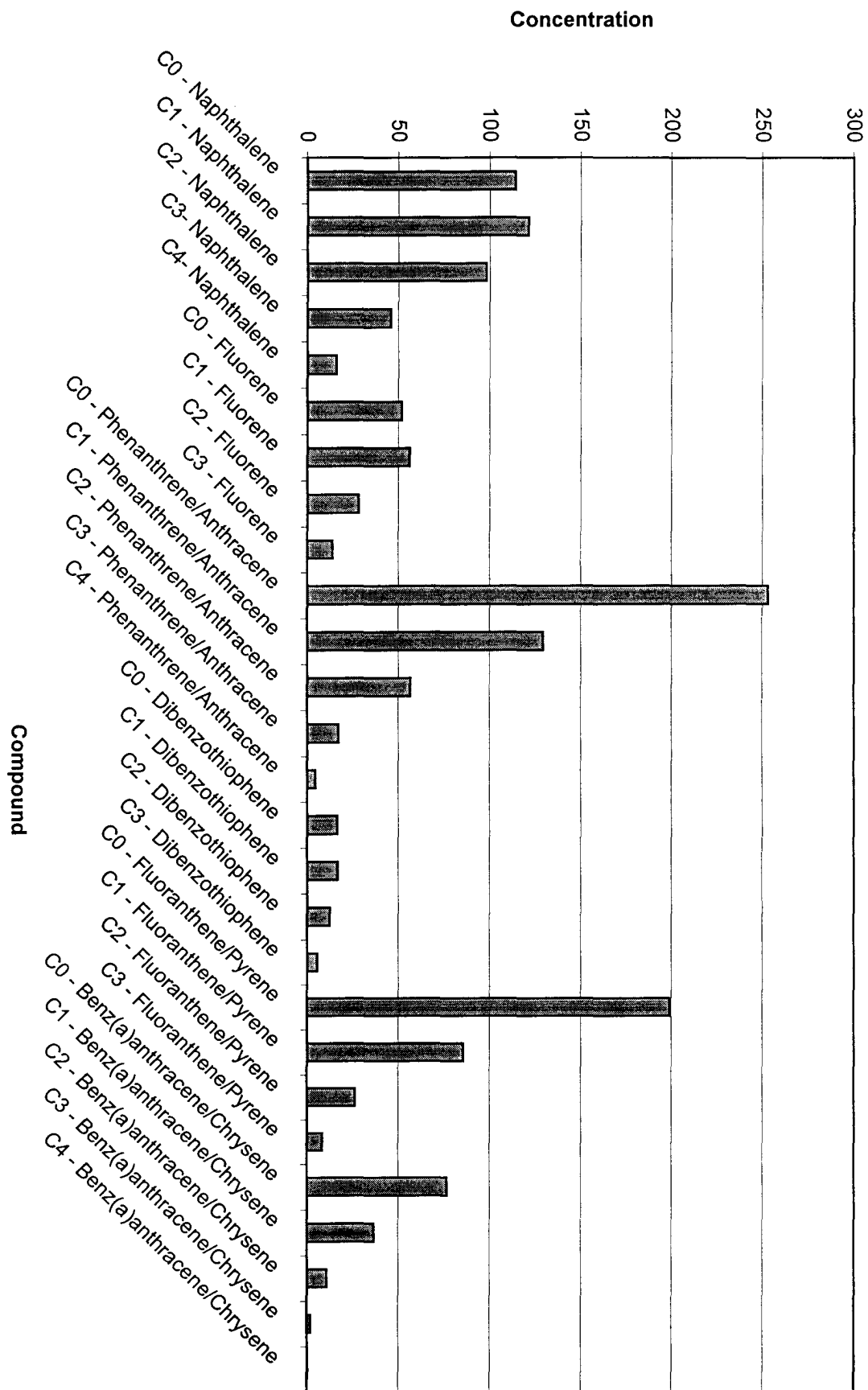


MW3S-CH(10-12)

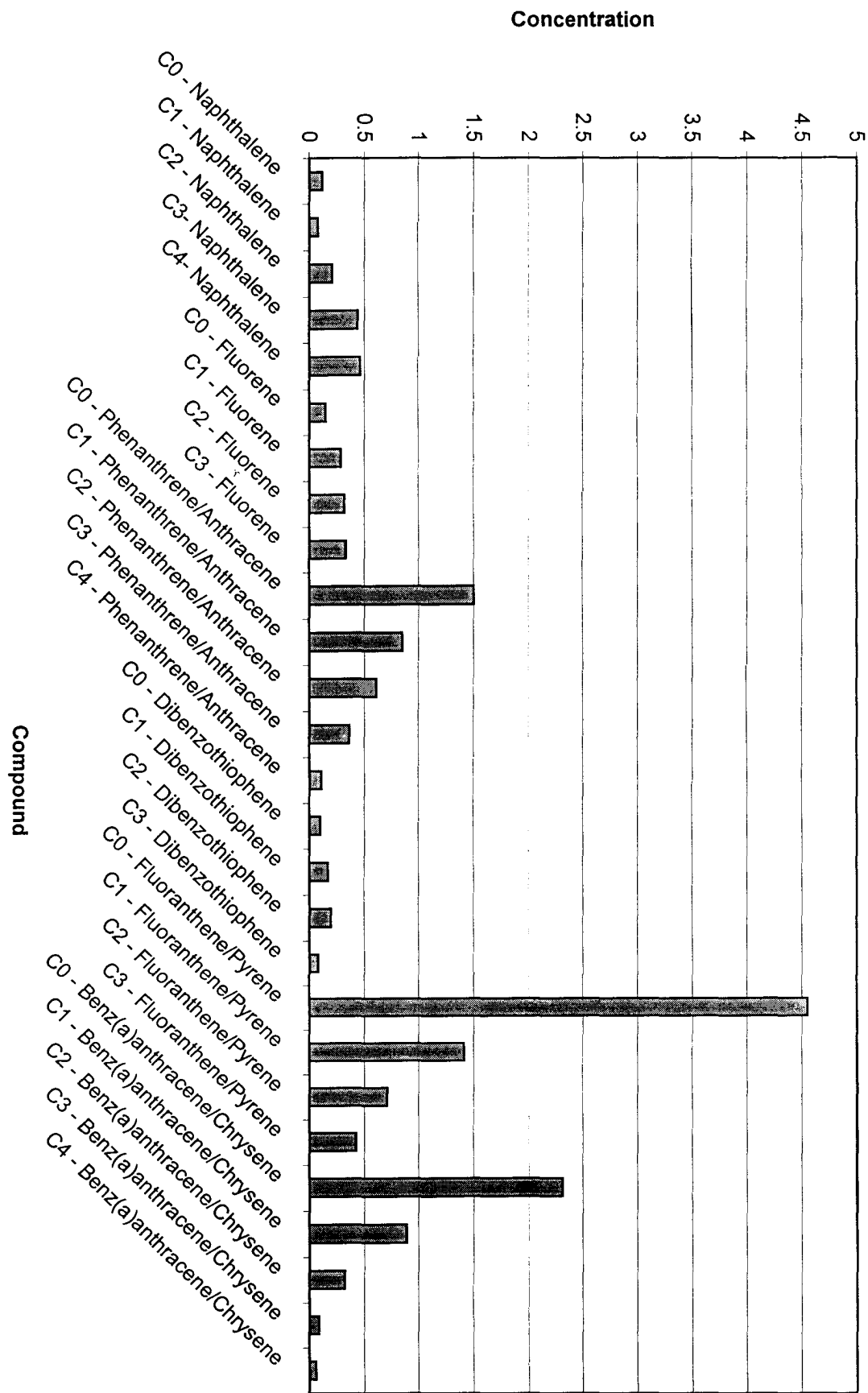


MM3S-CH(17.6-18.0)

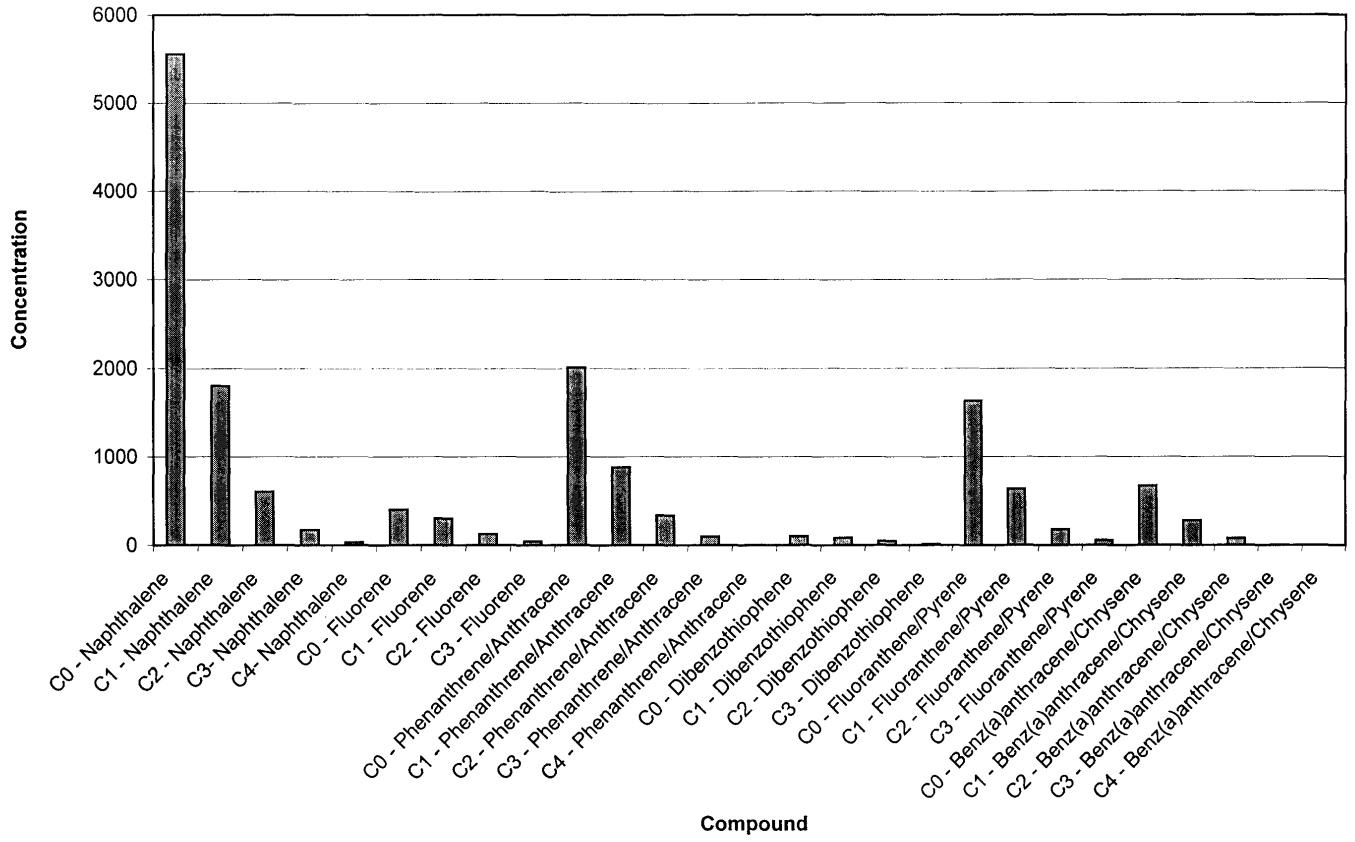




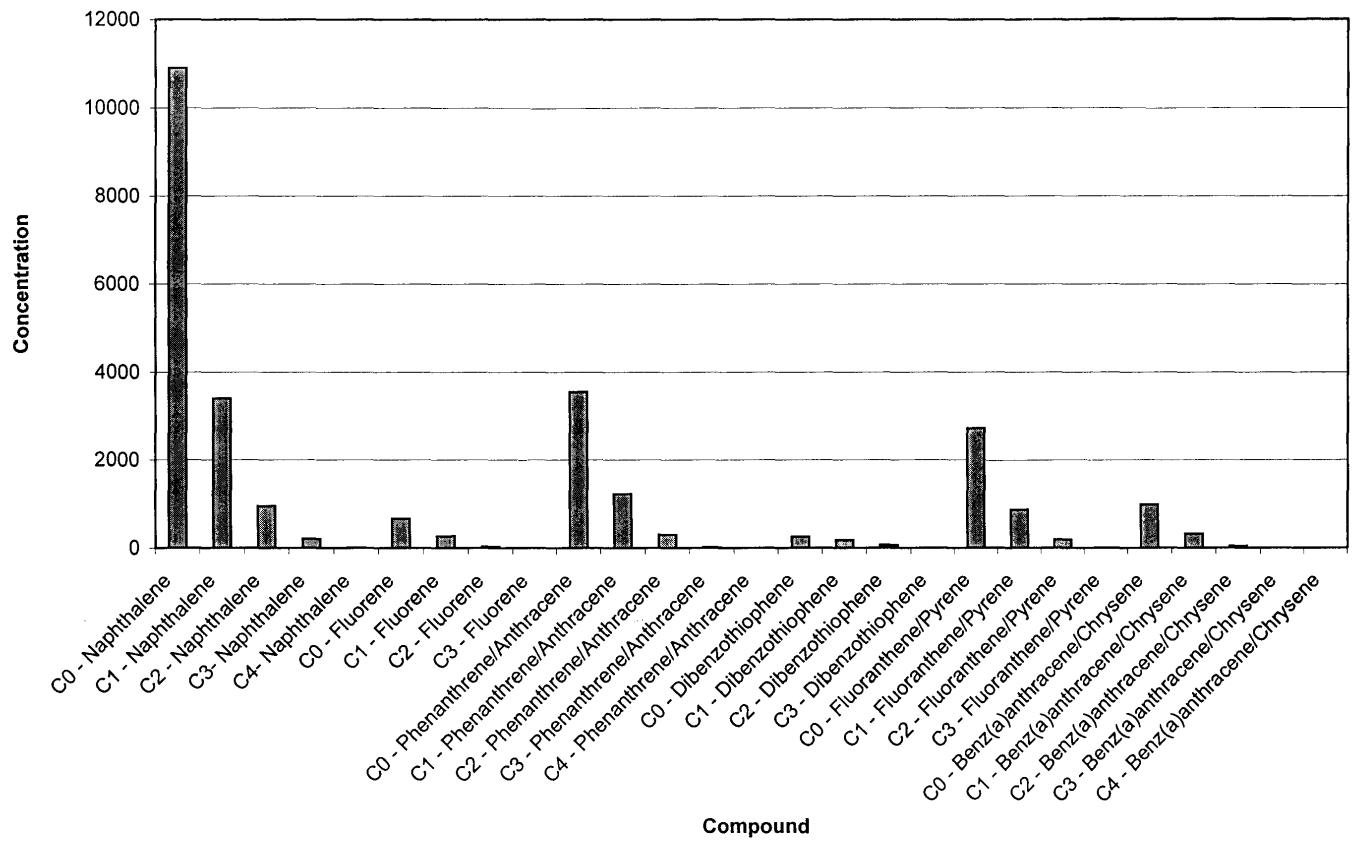
MM4-CH (6-8)



MW5 (14.0-16.0)

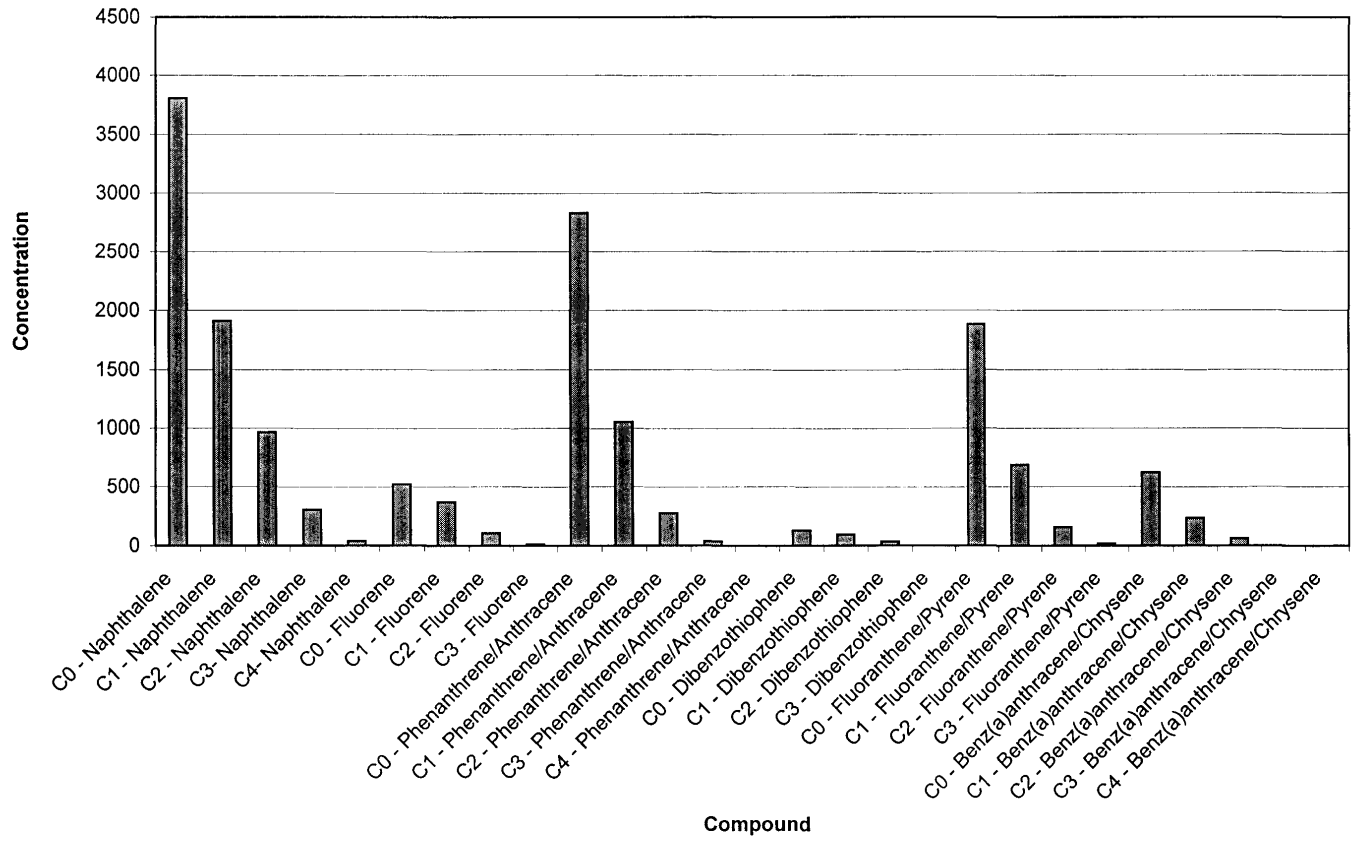


MW5D (2.0-4.0)

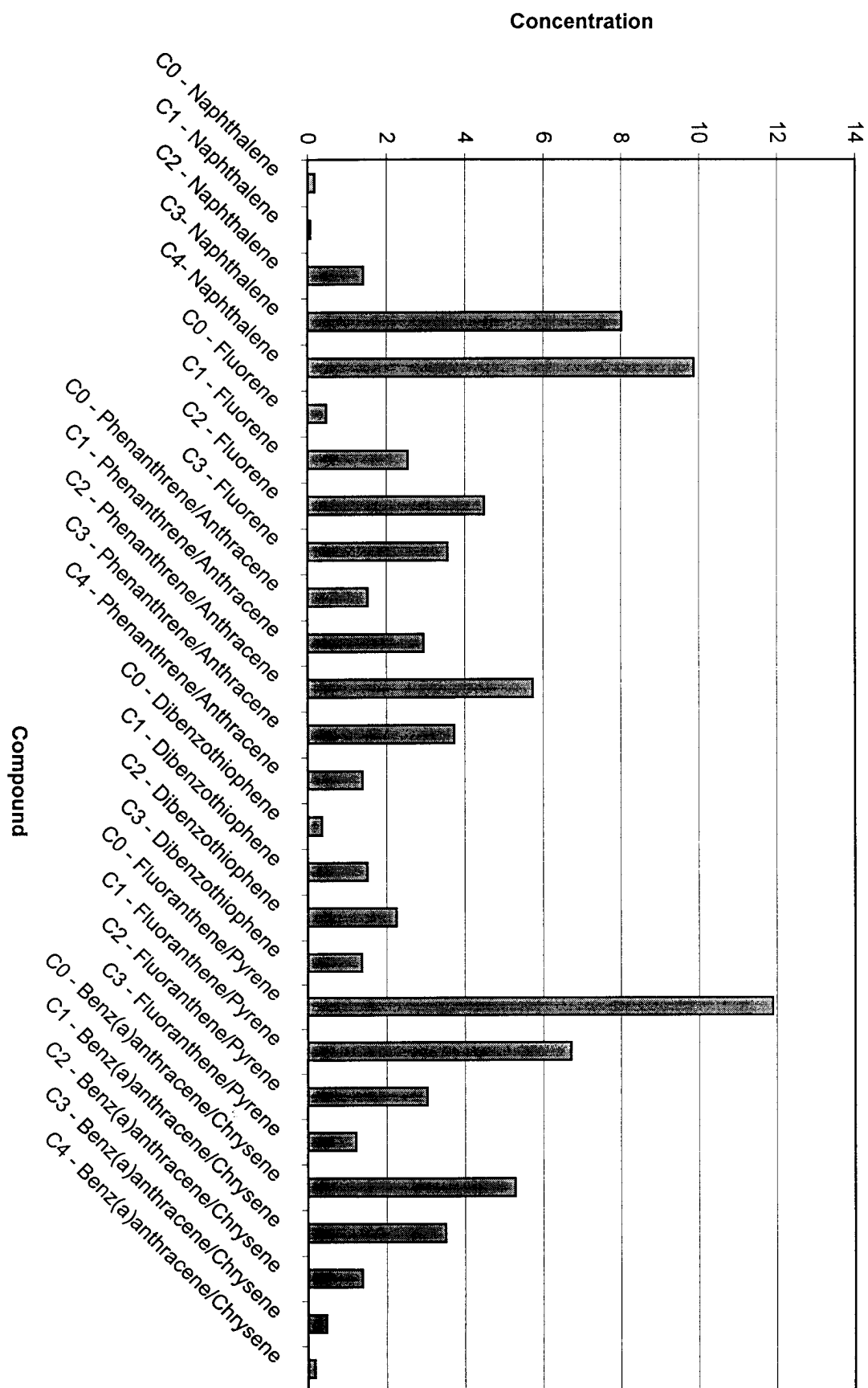




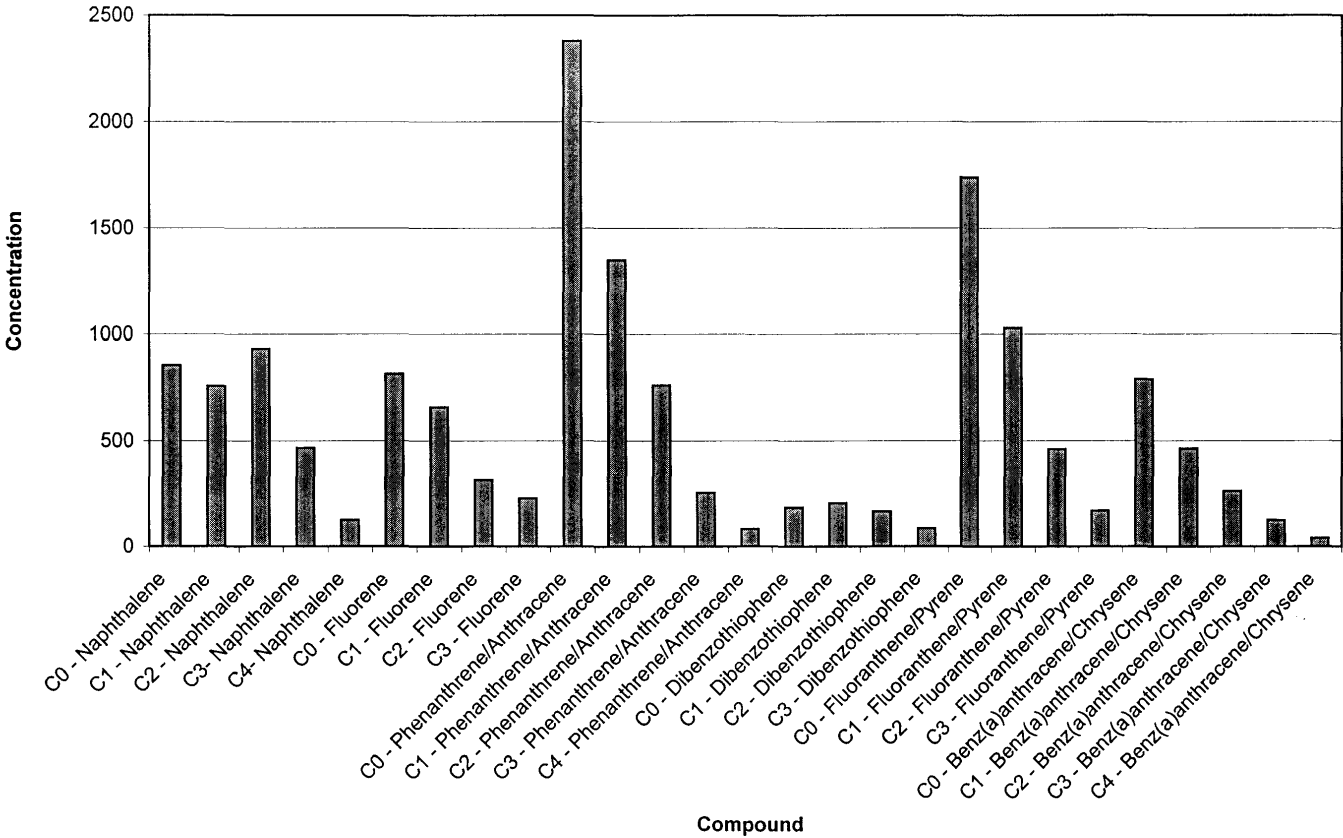
MW6D (4.0-6.0)

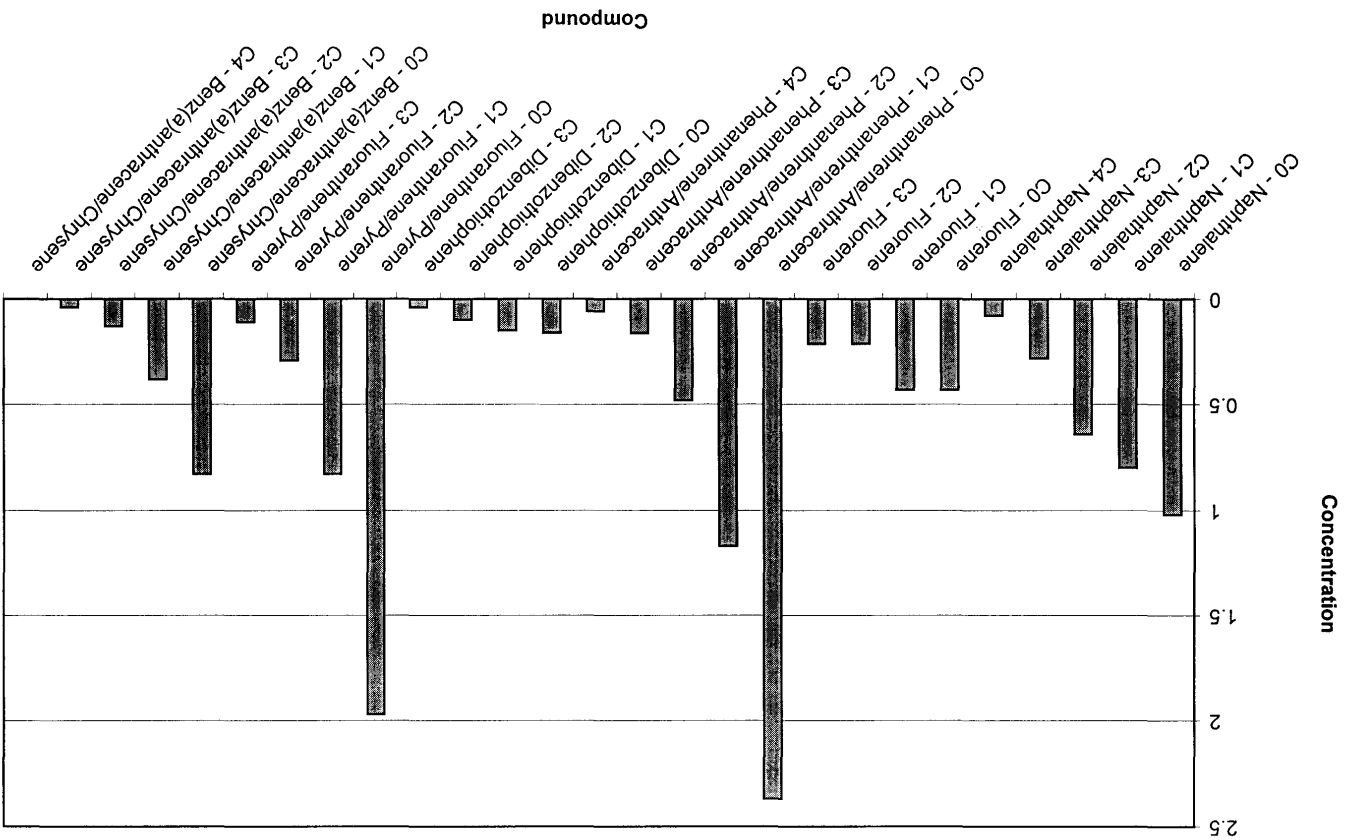


MM610 (4,0-6,0)

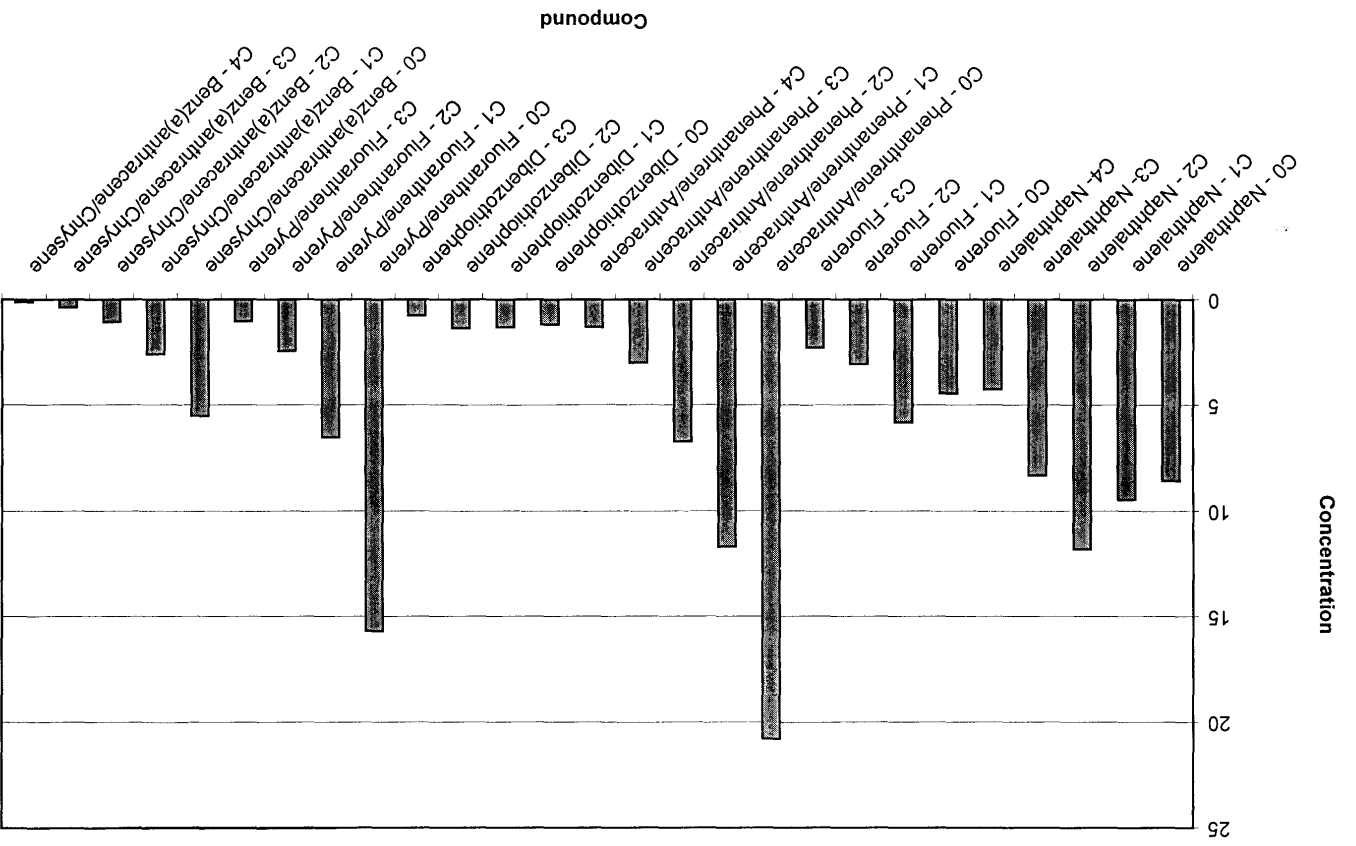


MW7 (10-12)



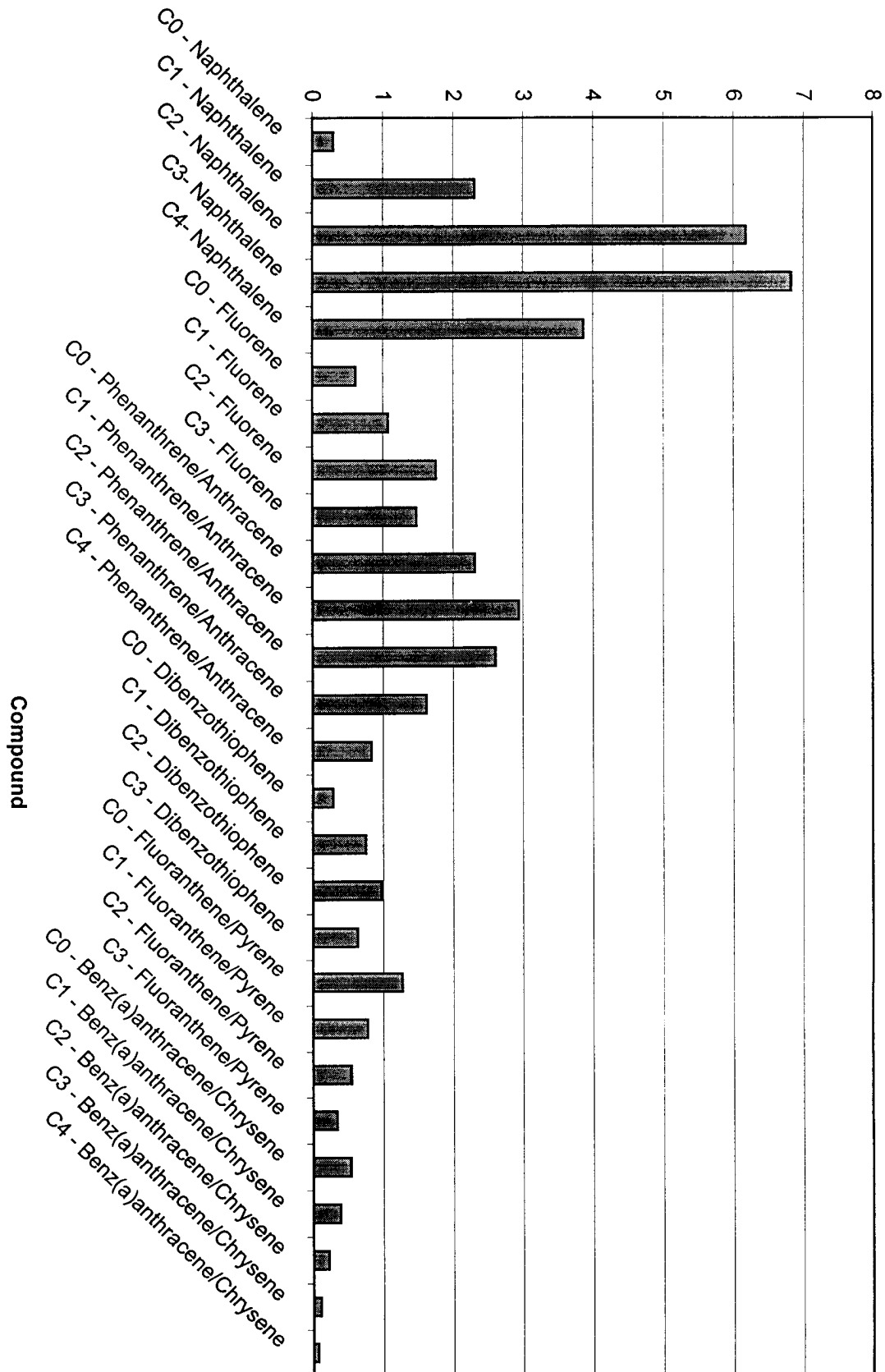


MW7D (14.0-16.0)



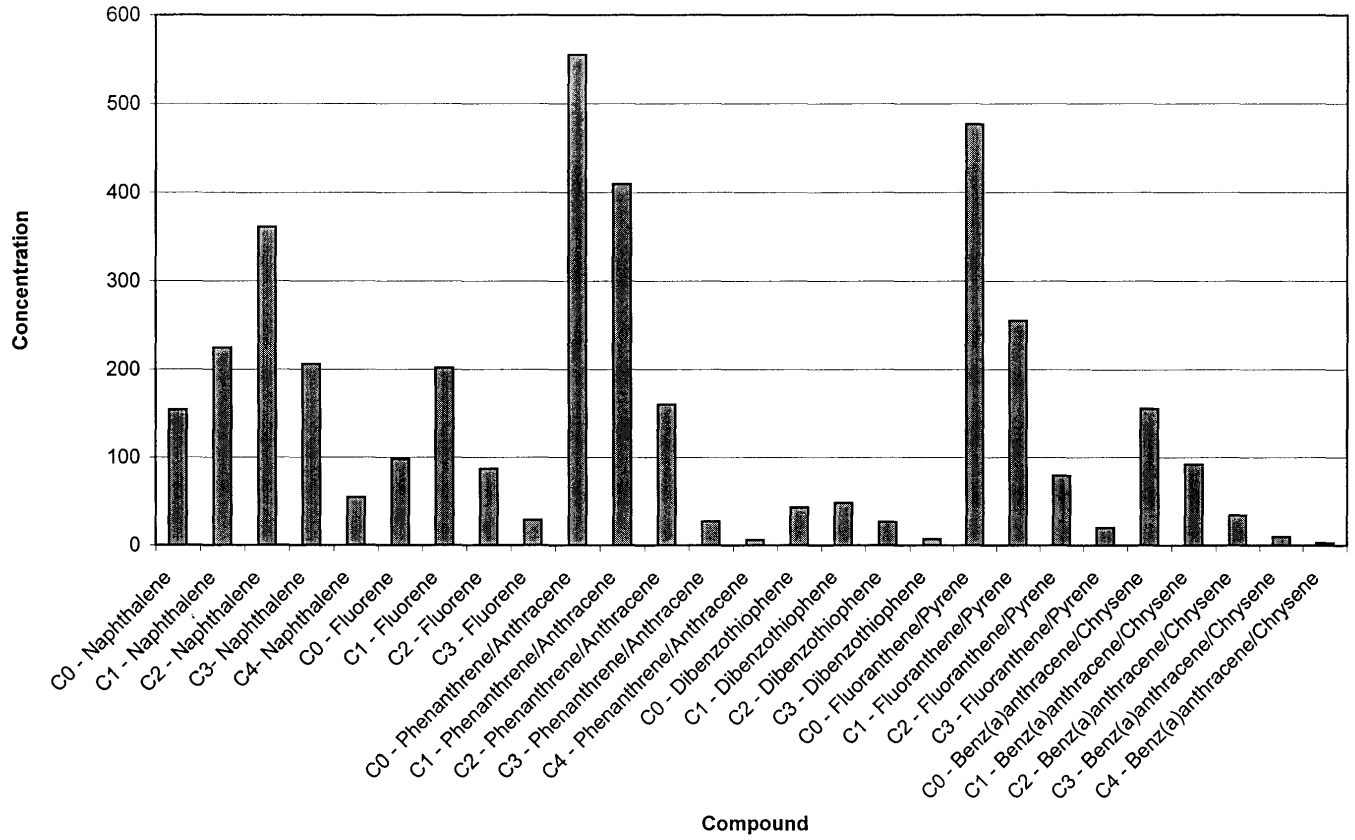
MW8D (10.0-11.3)

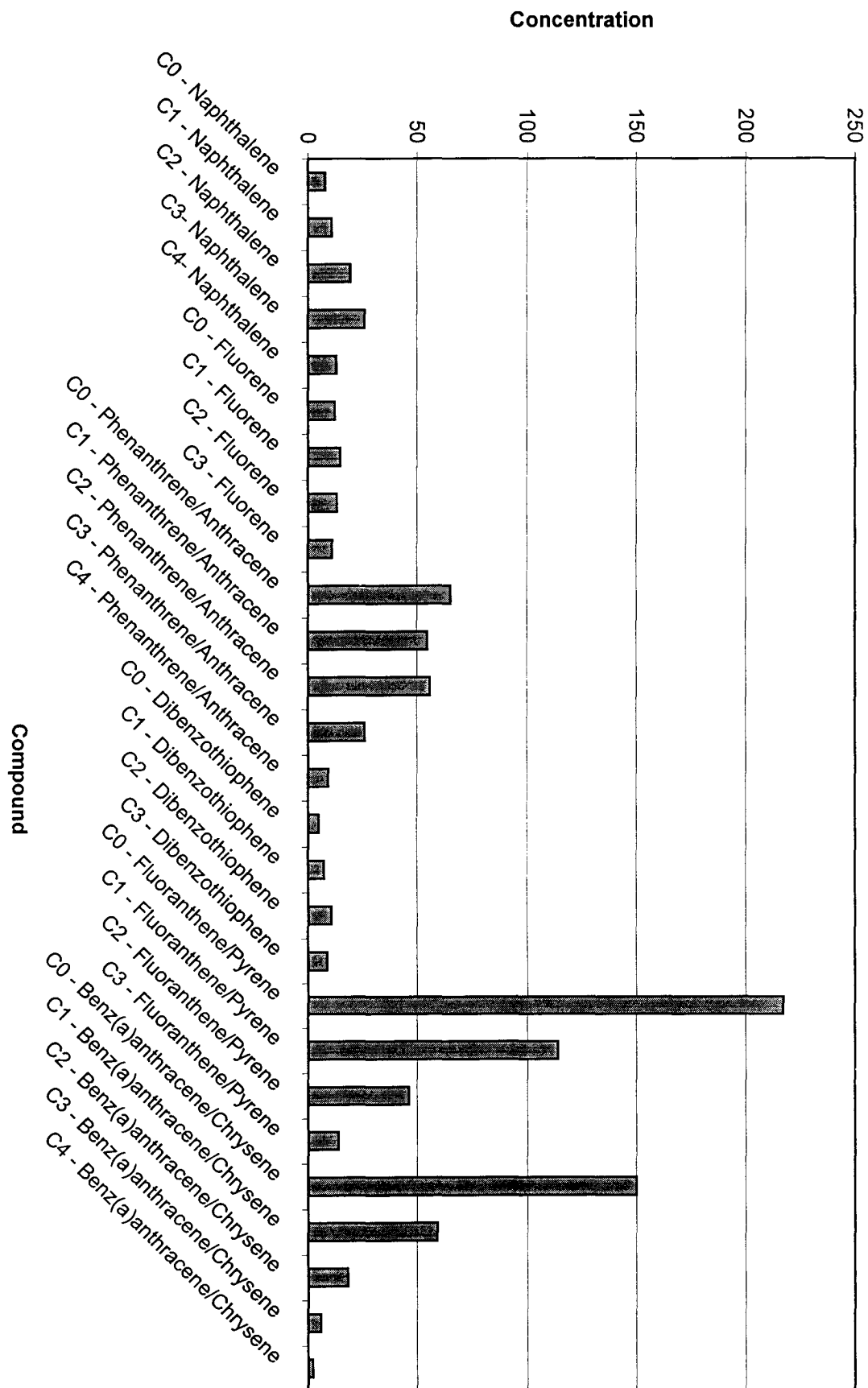
# Concentration



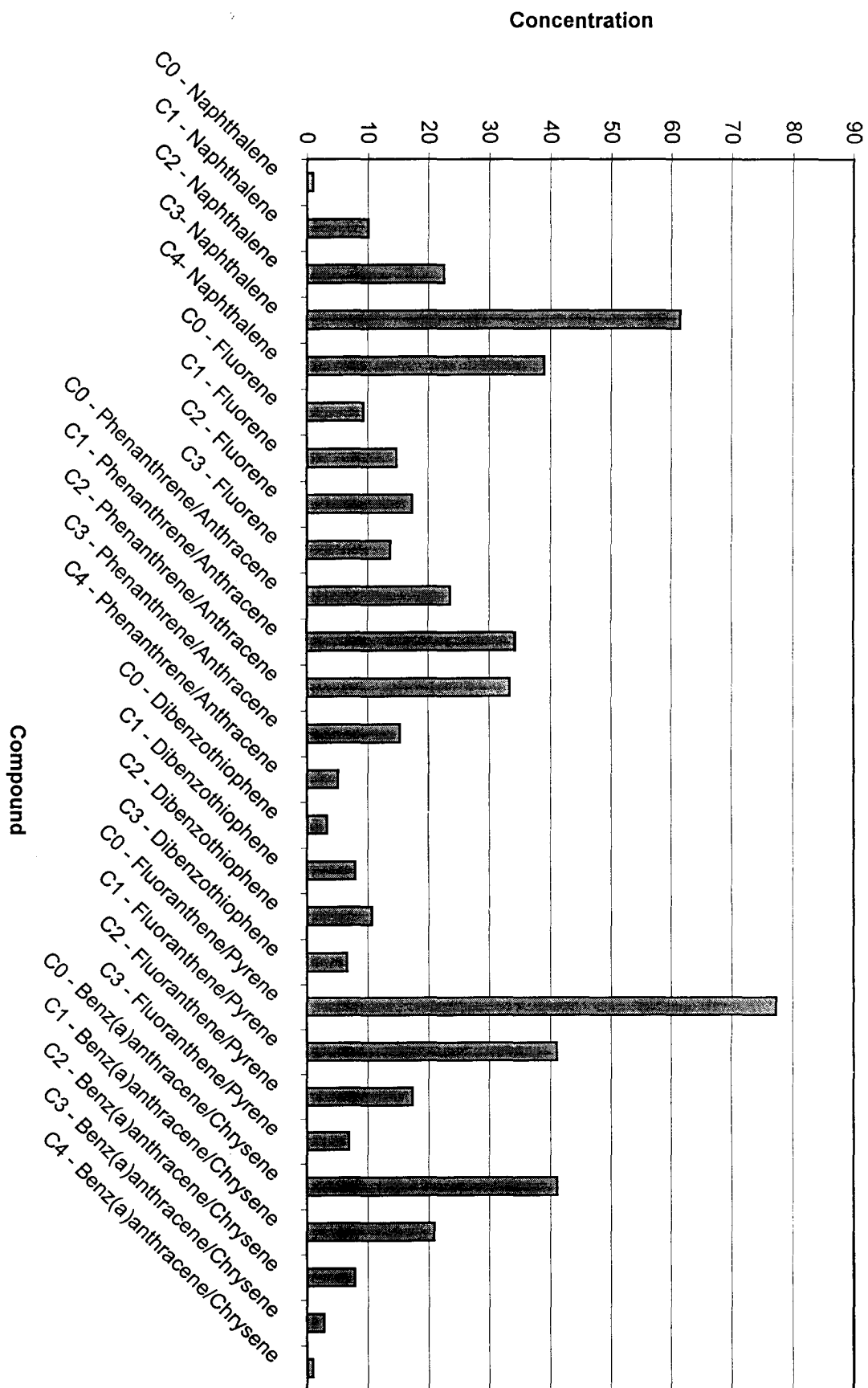
SB1 (10-12)

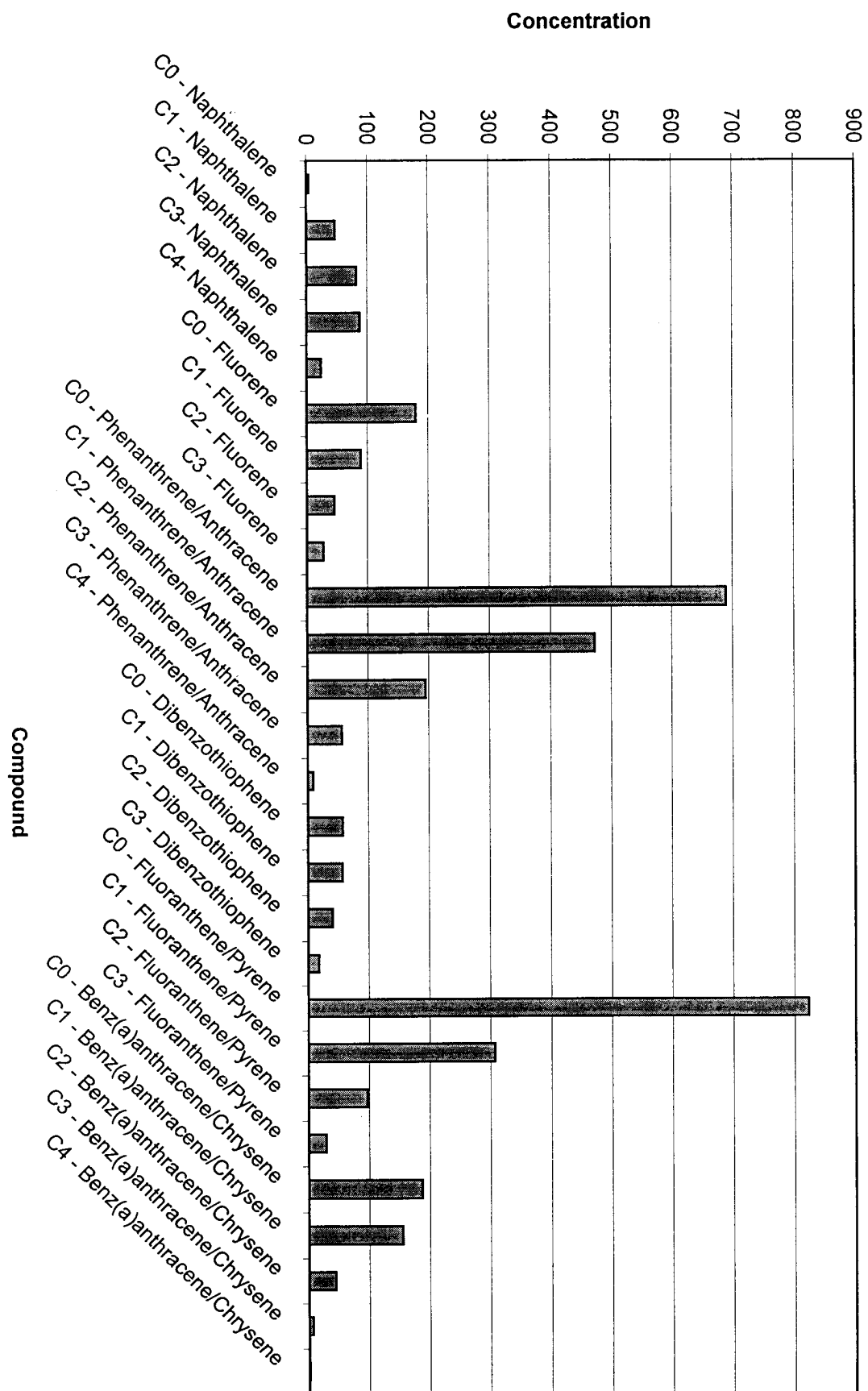
SB11 (4.0-6.0)



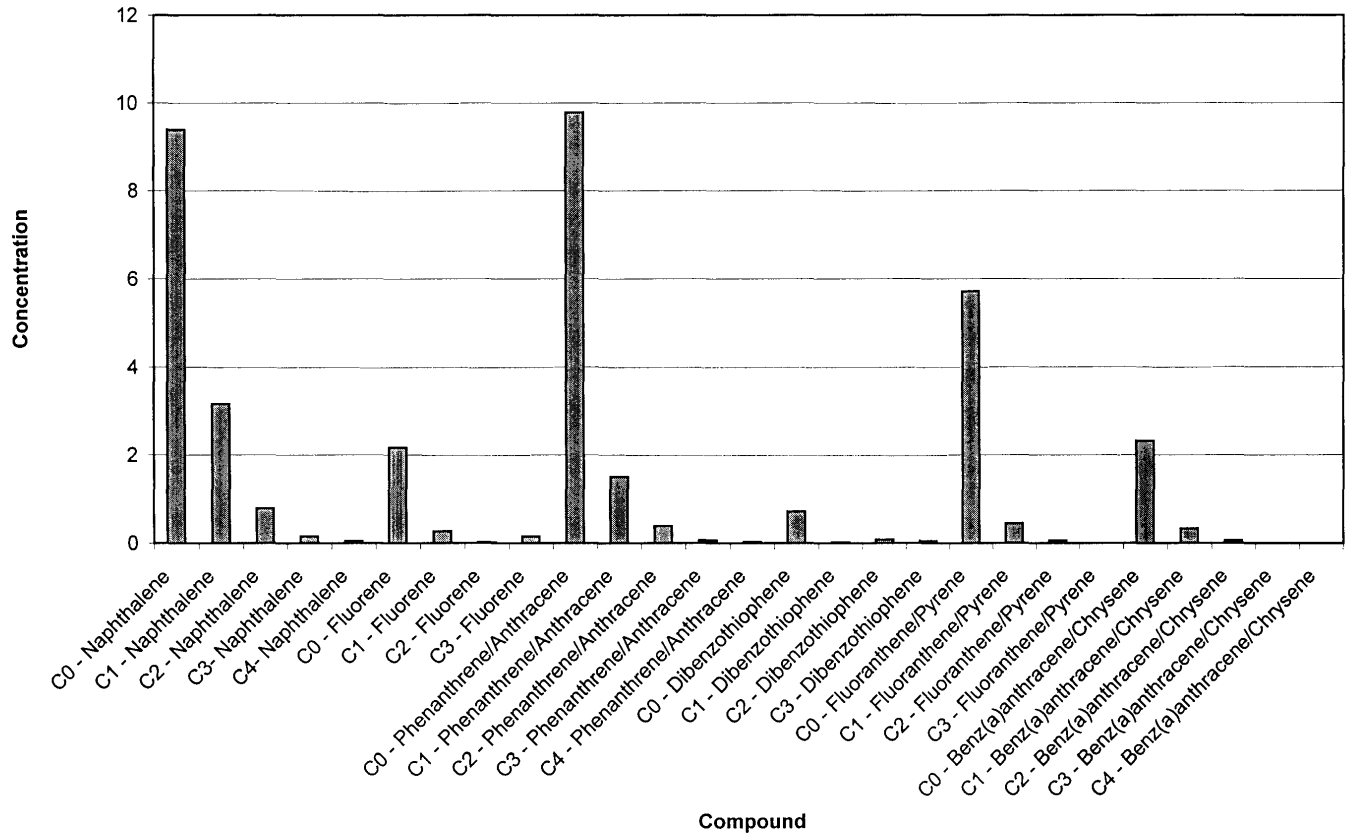




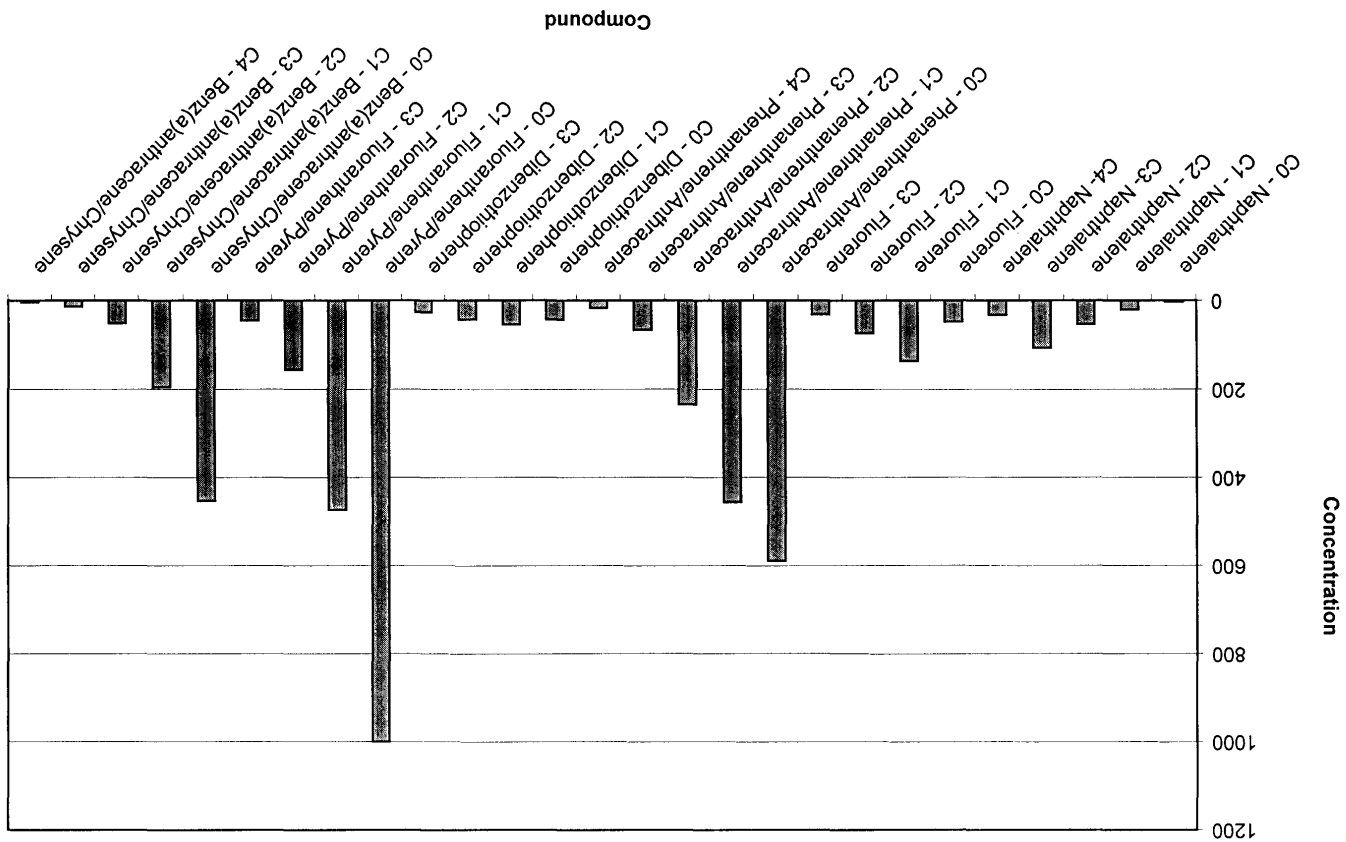




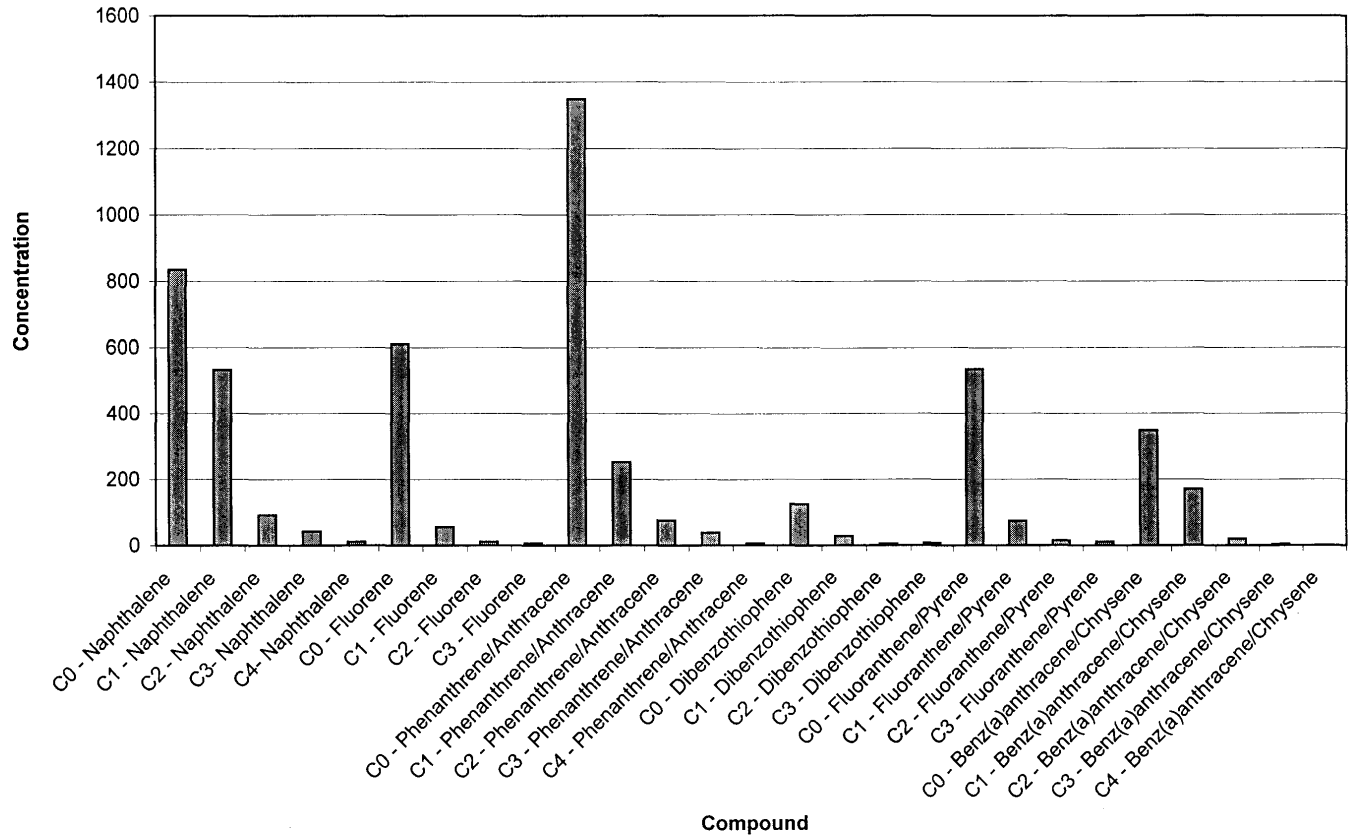
SB15 (12-15.2)



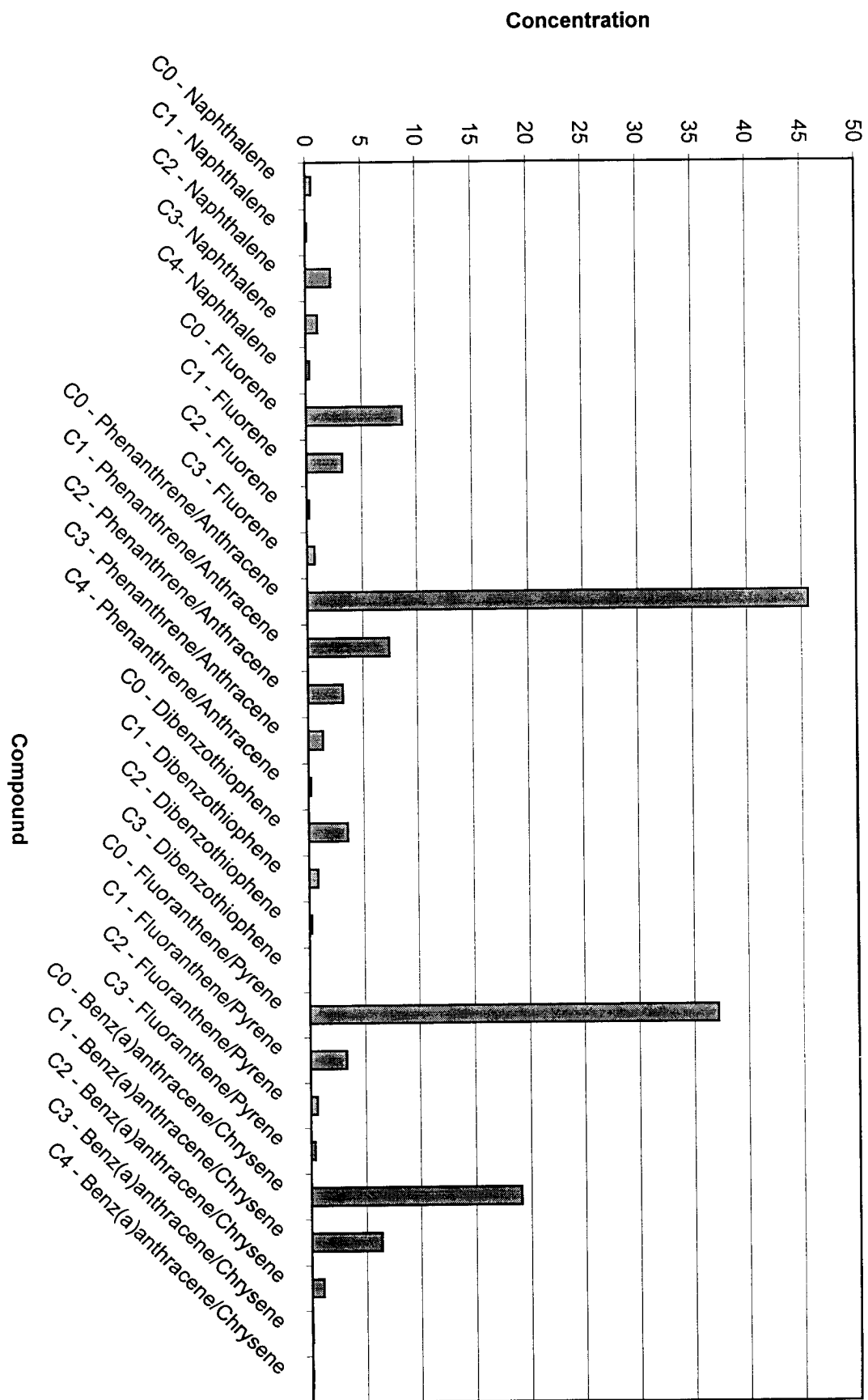
SB16 (8-10)

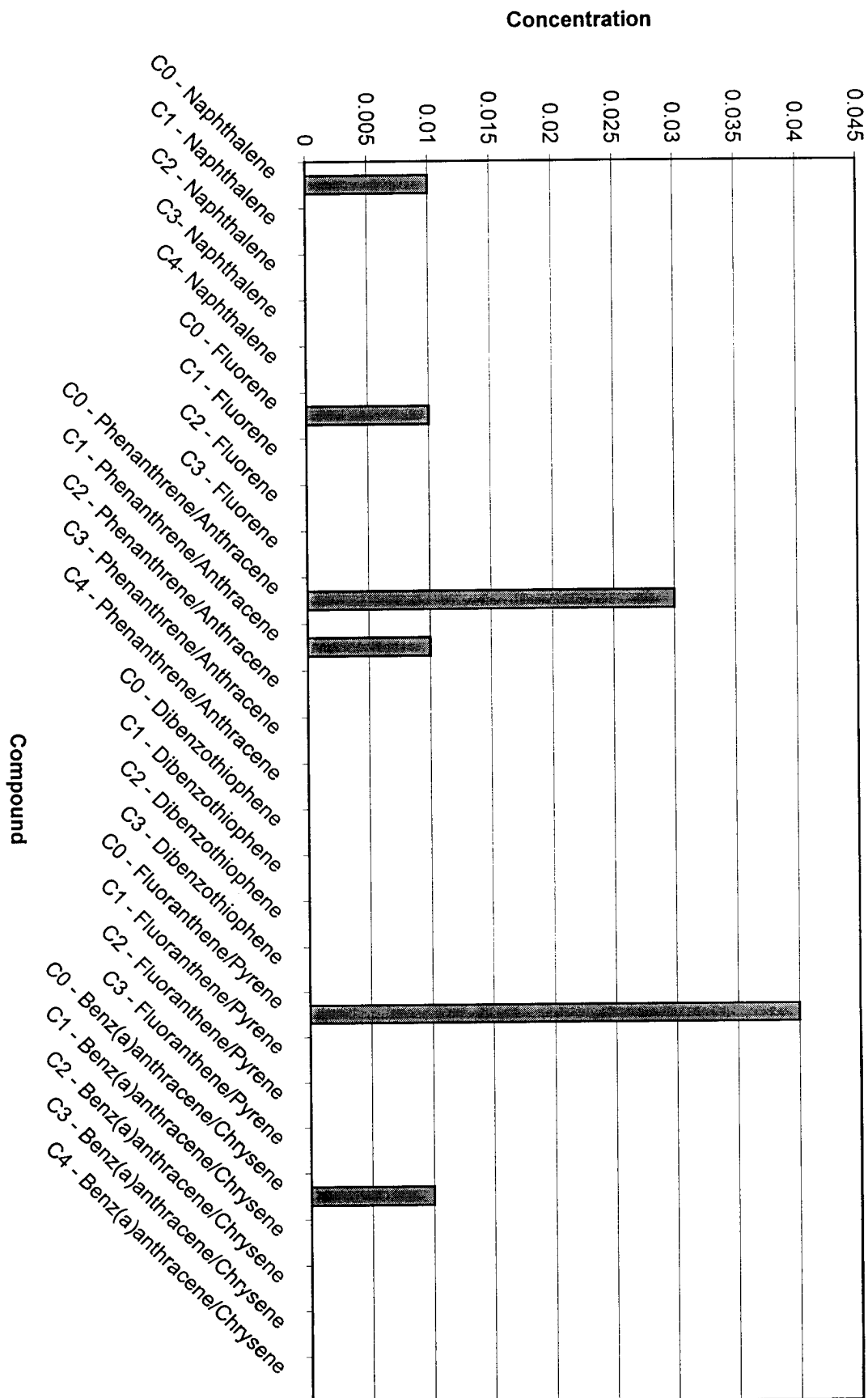


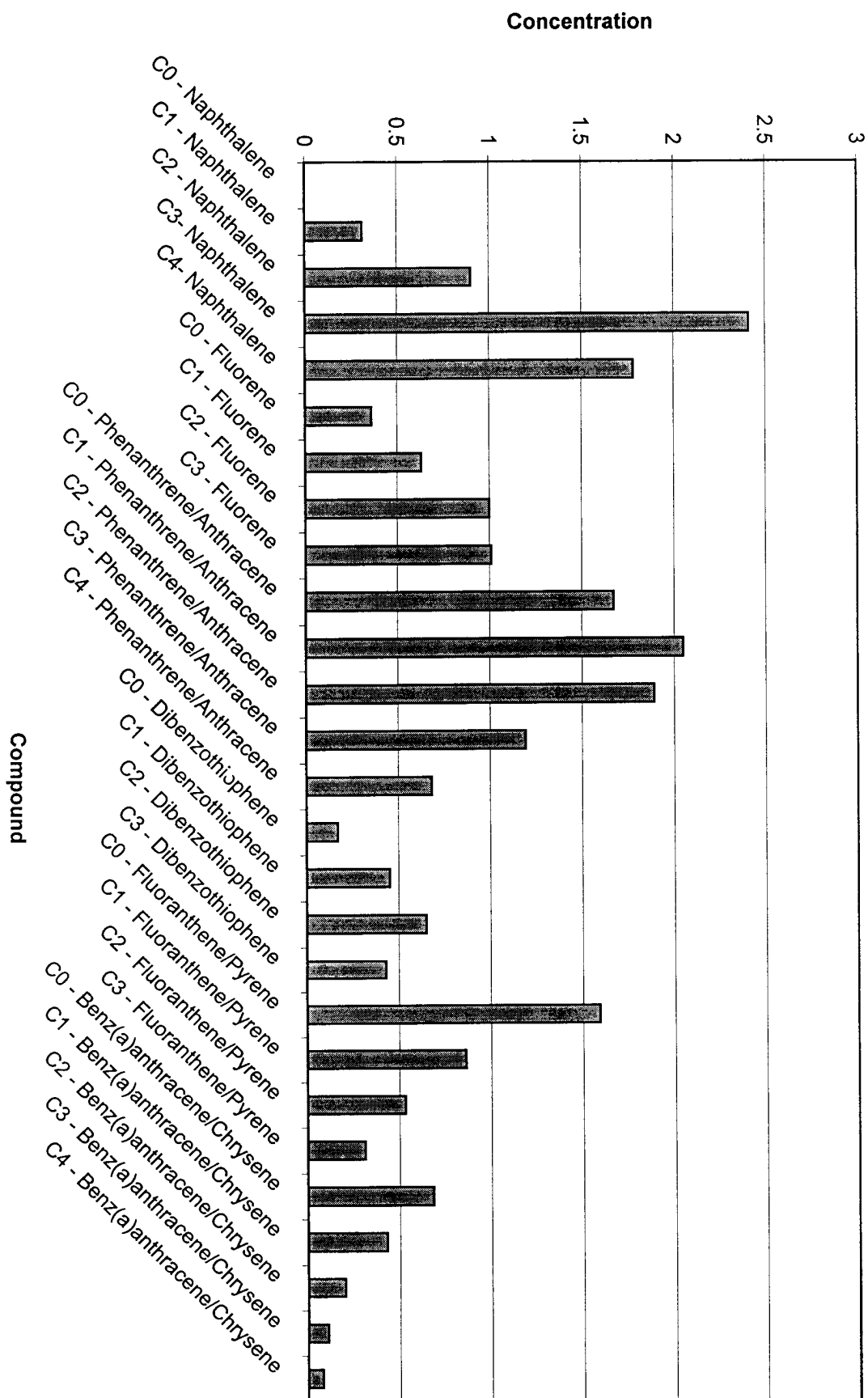
SB17 (10-12)



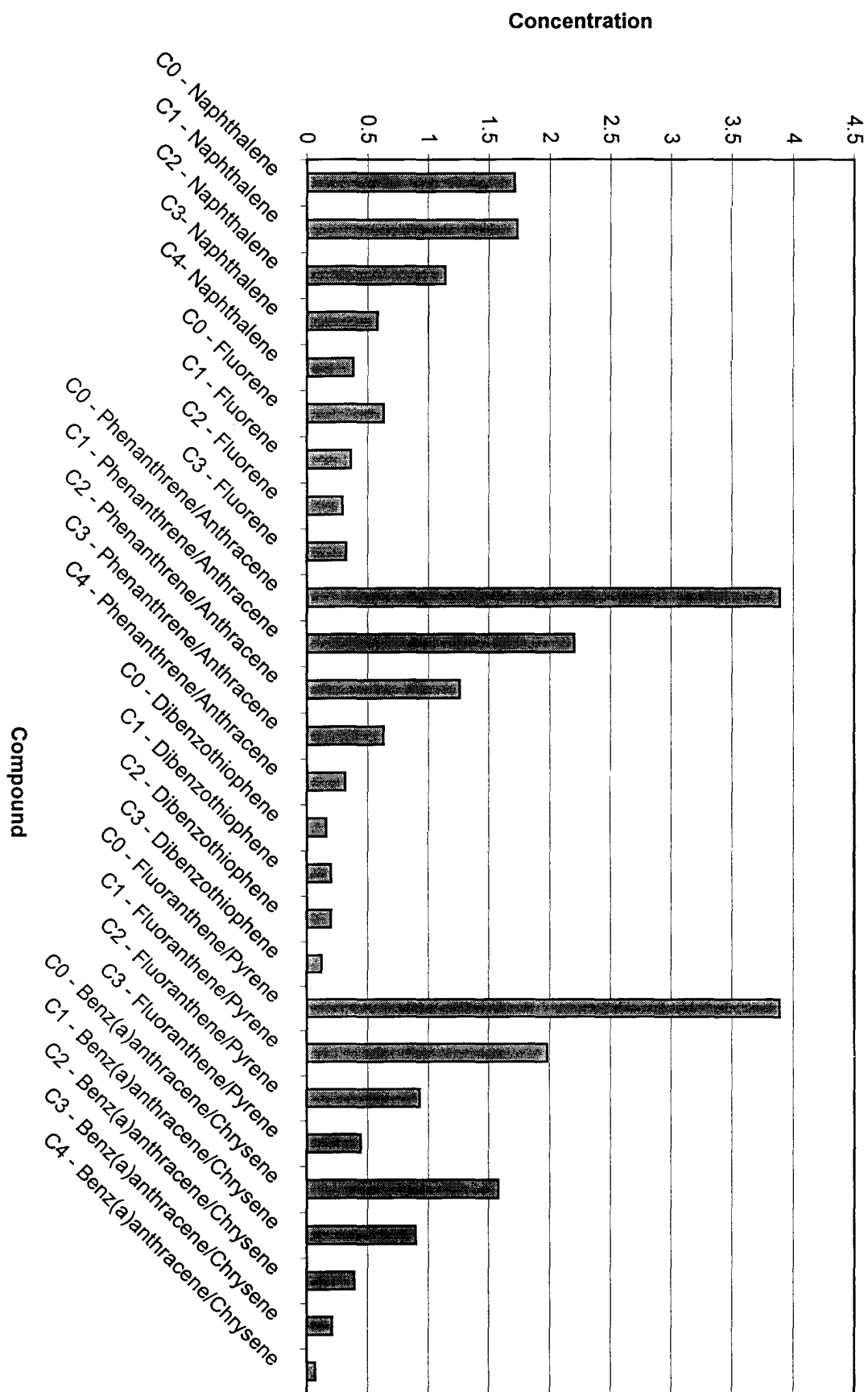
SB18 (11-11.5)



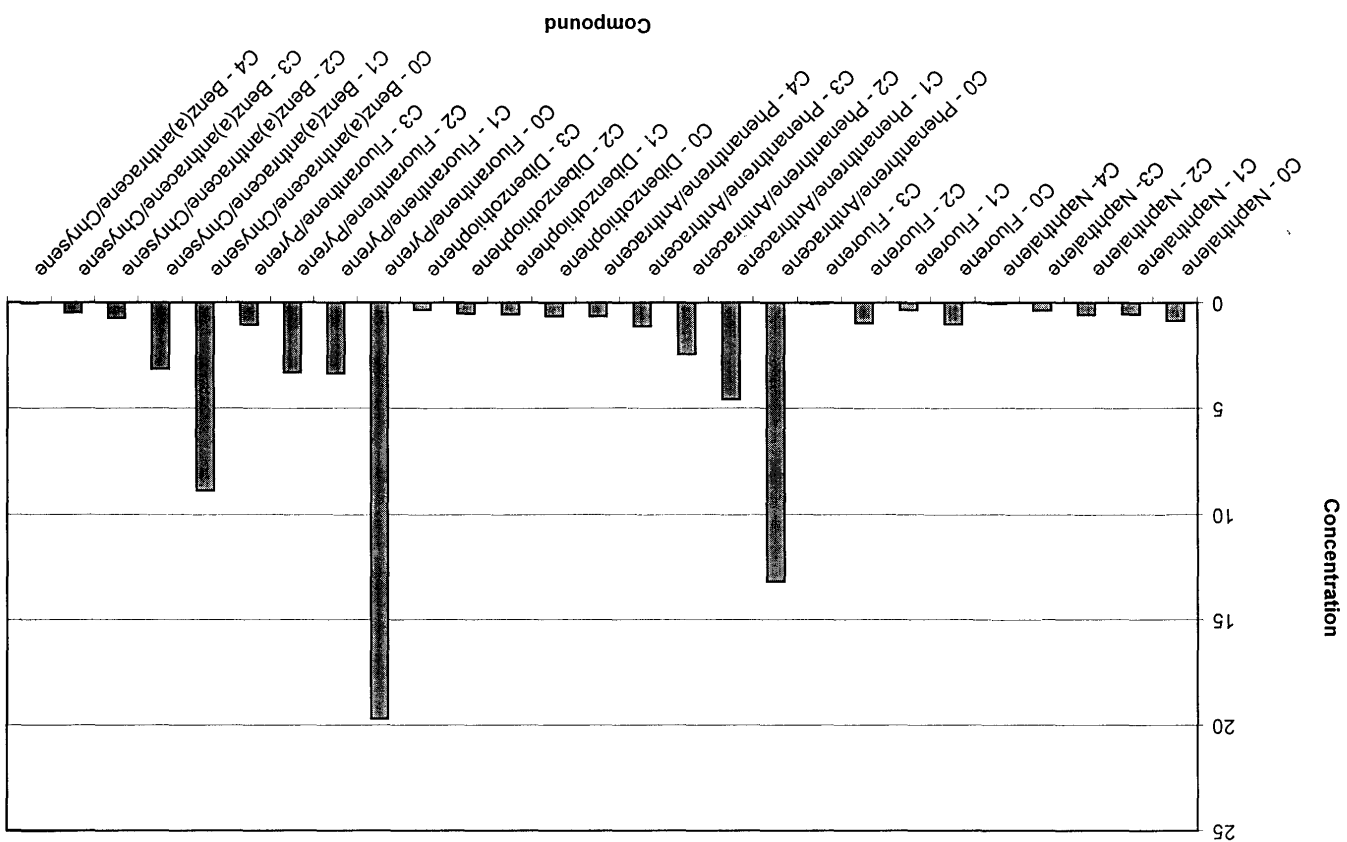




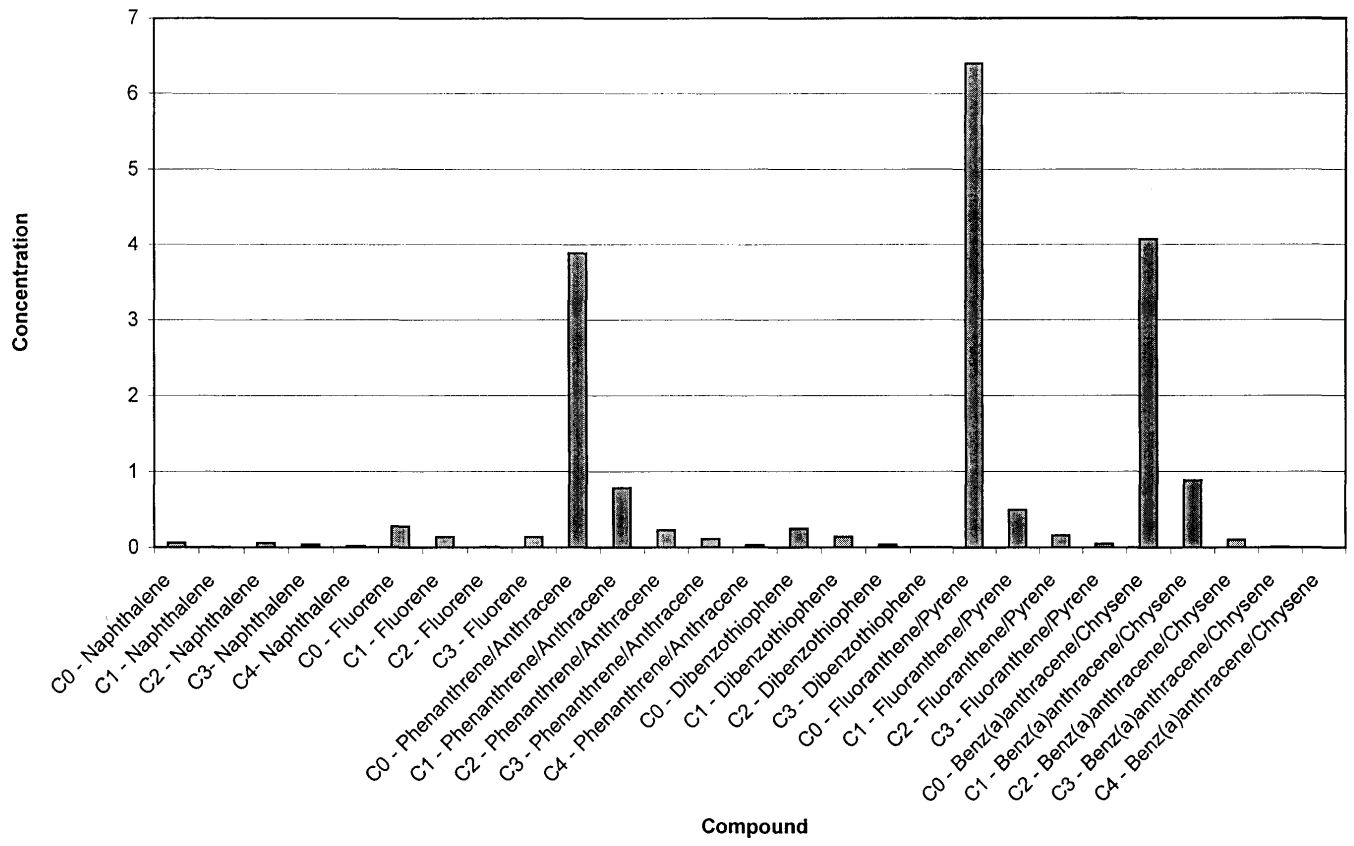


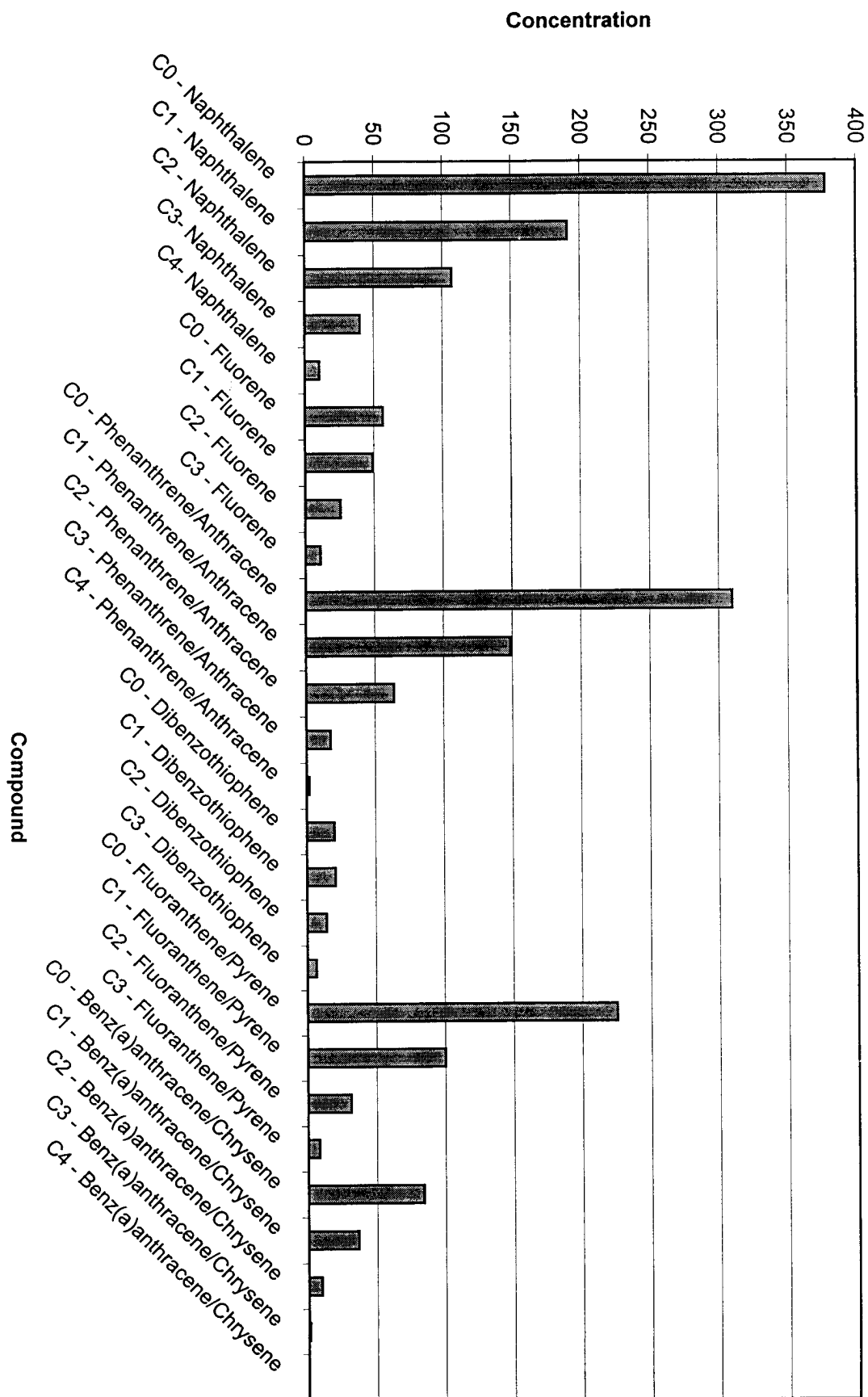


SB21 (6.3-6.6)

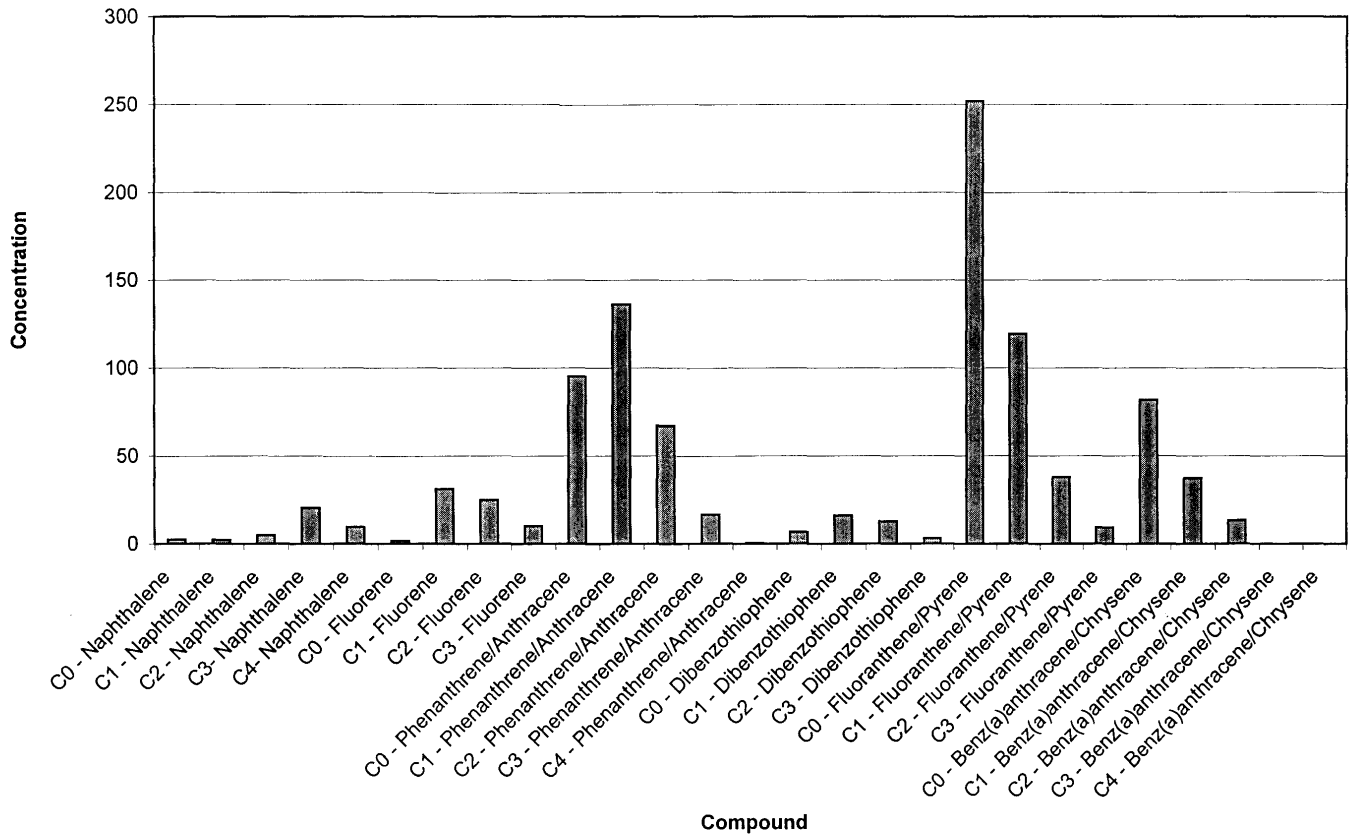


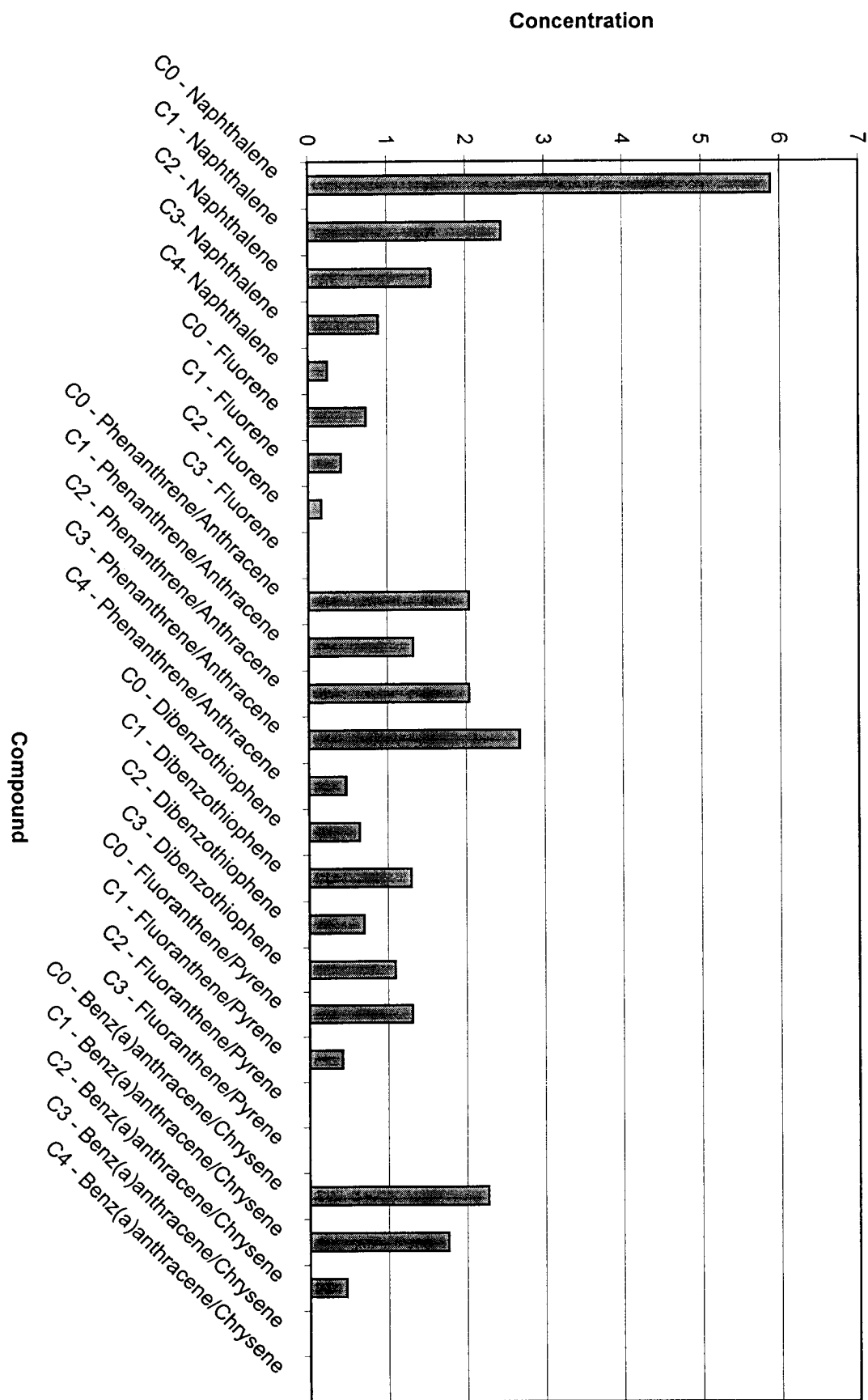
SB22 (7.0-7.3)

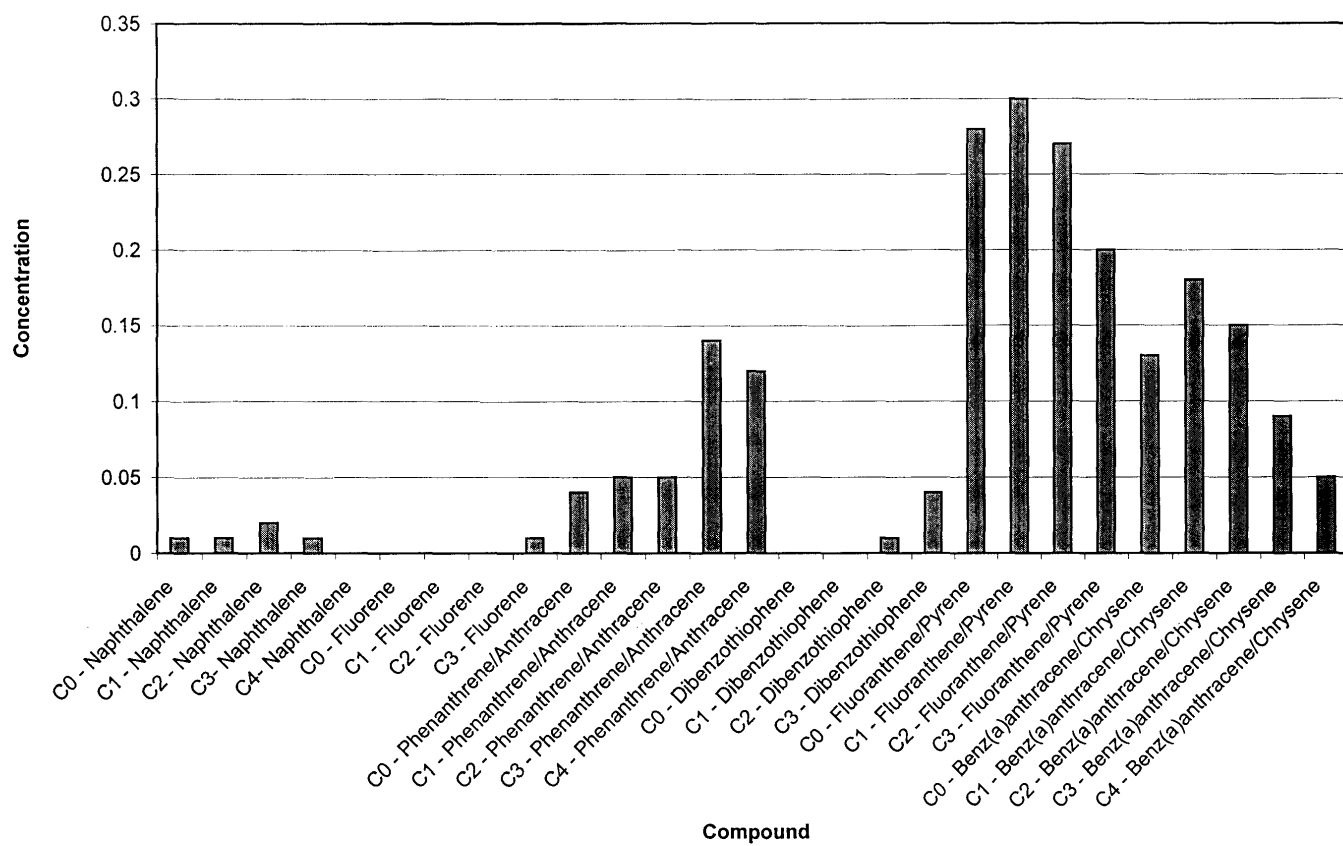


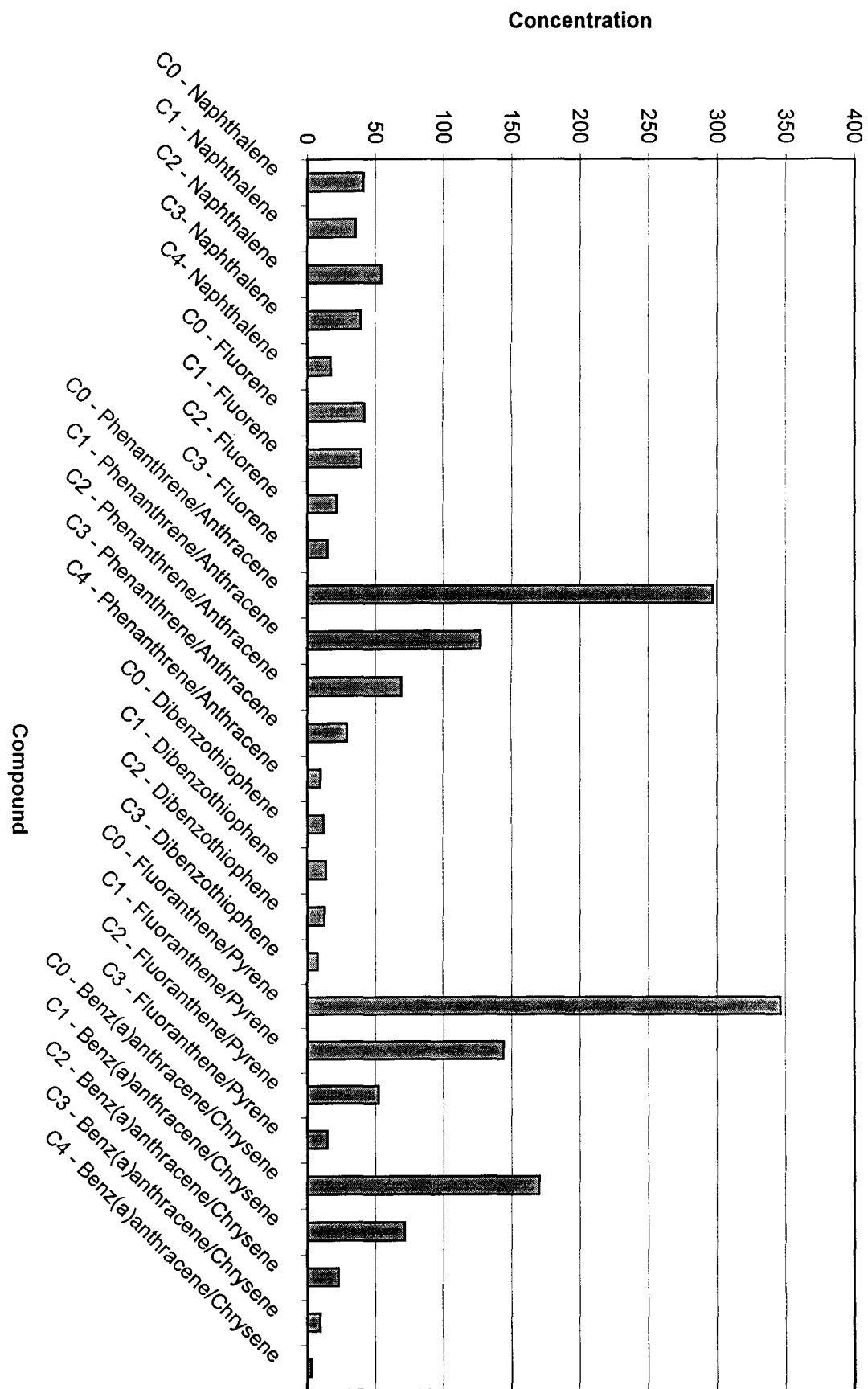


SB25 (12-16)

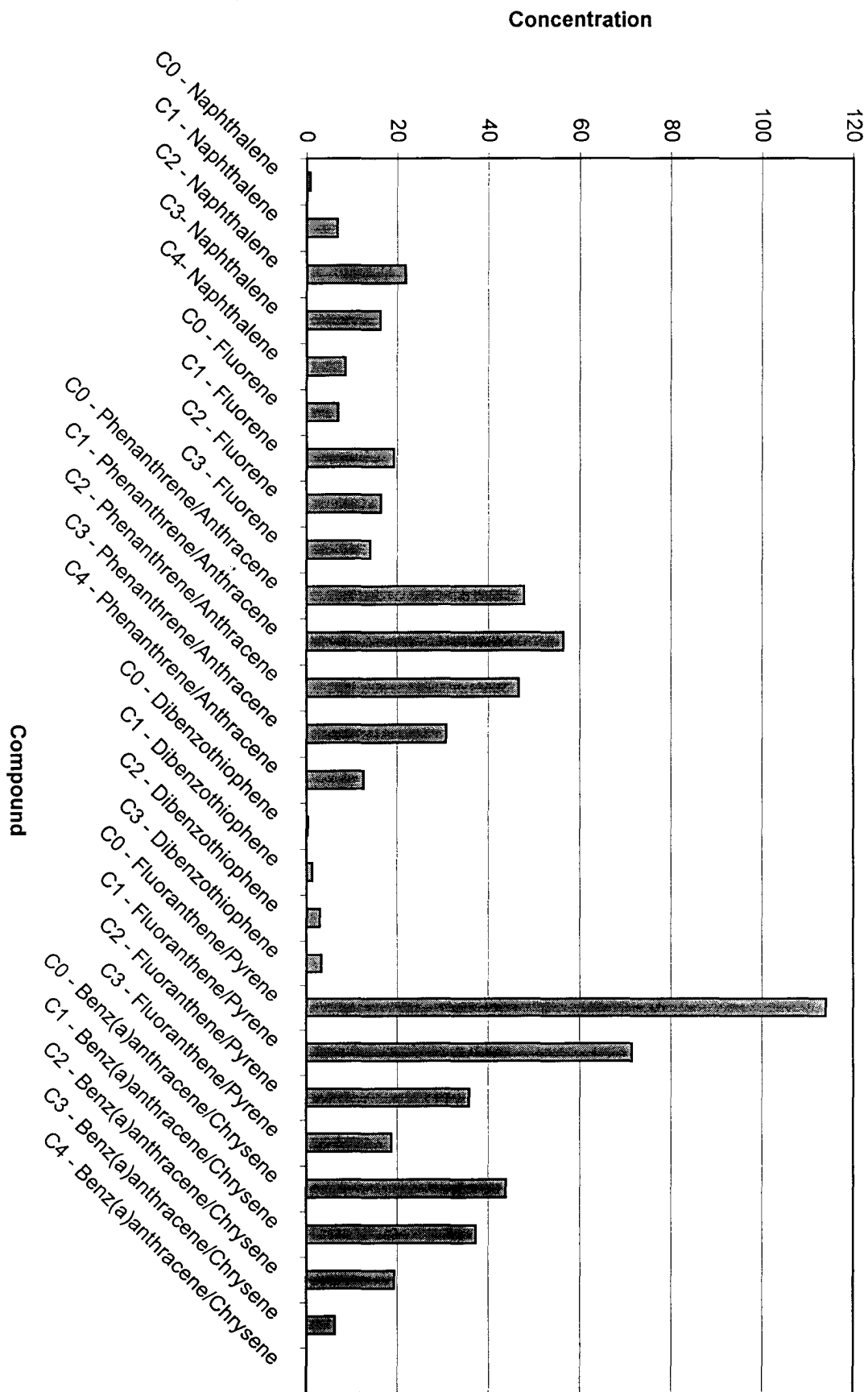


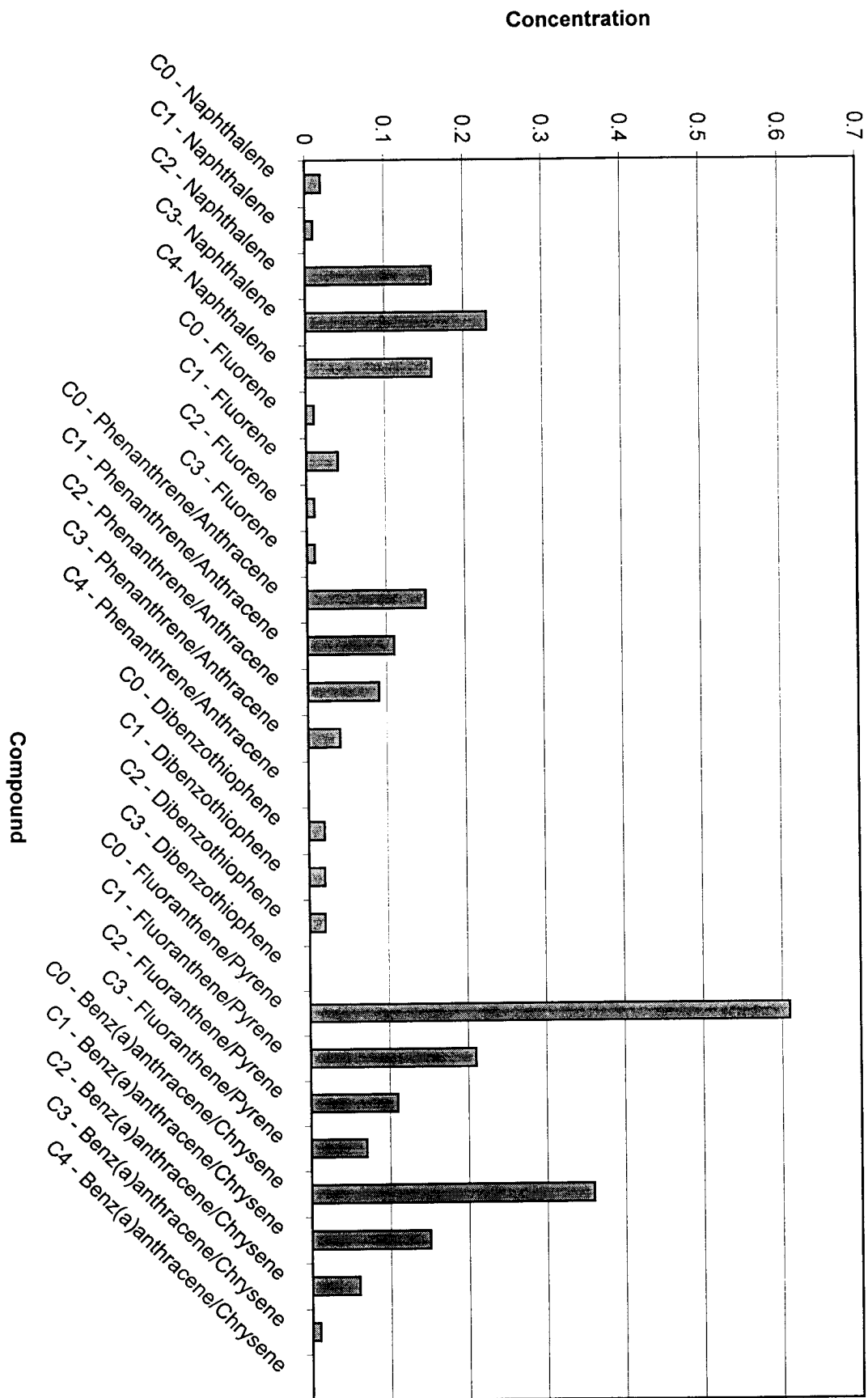


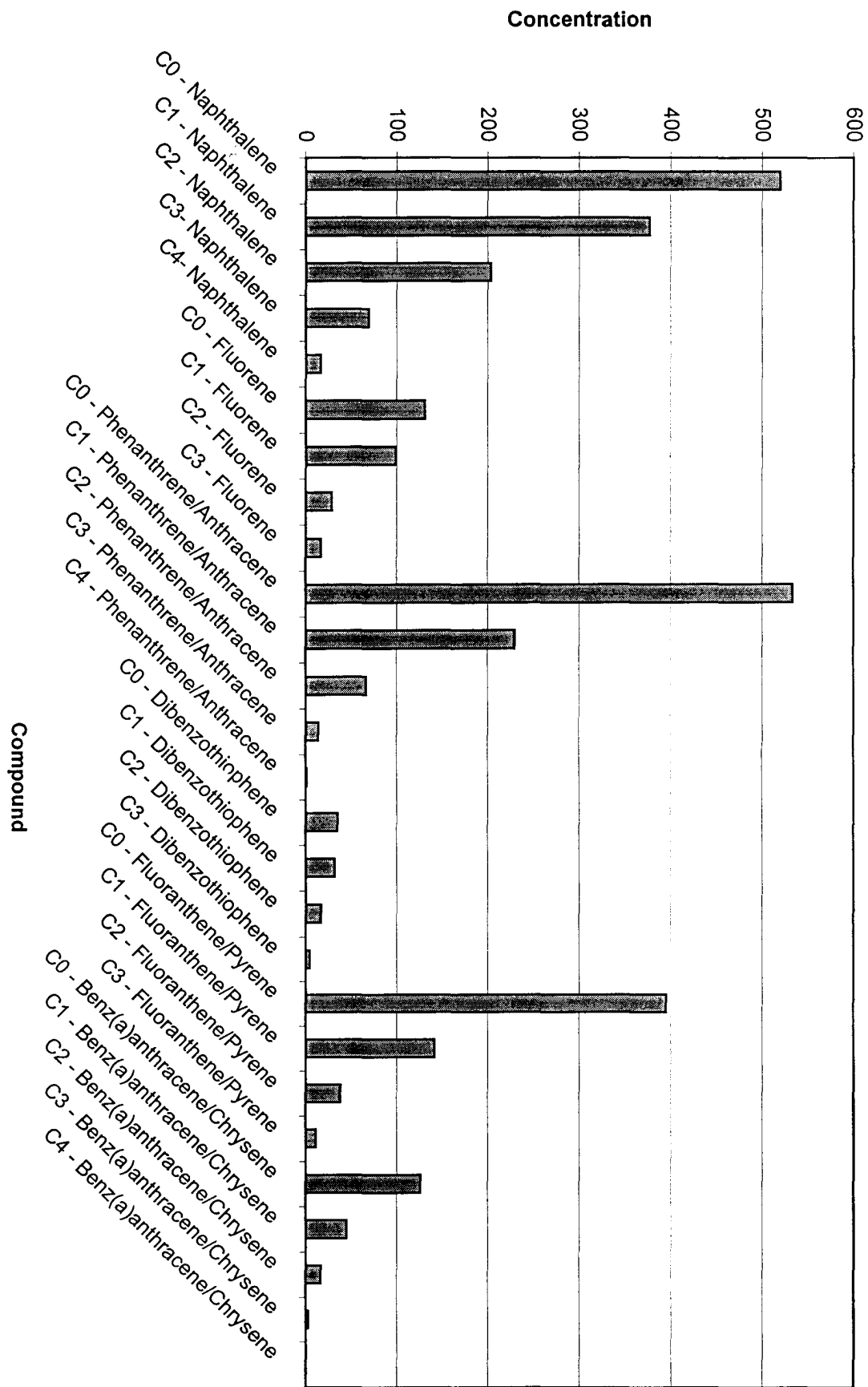






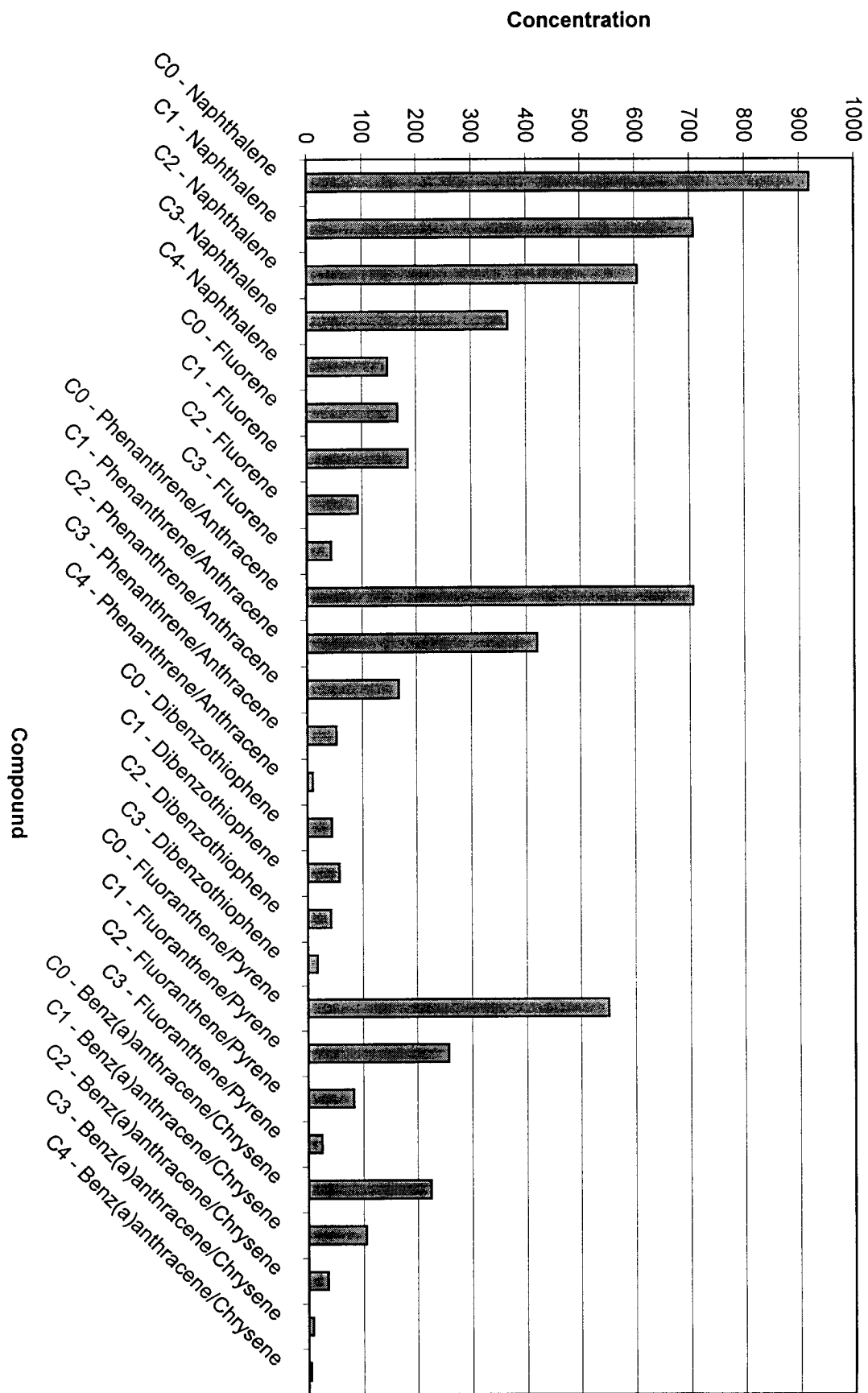




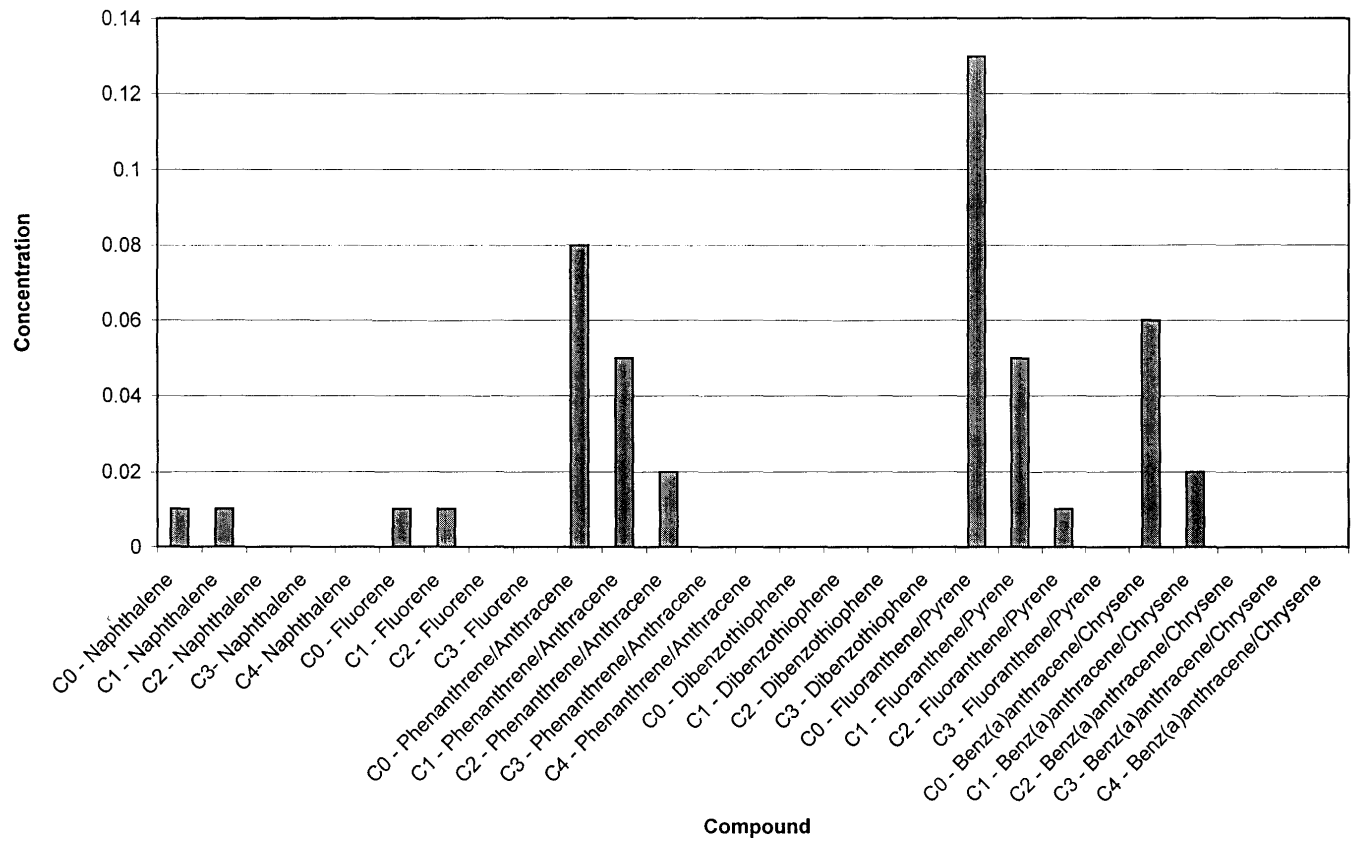


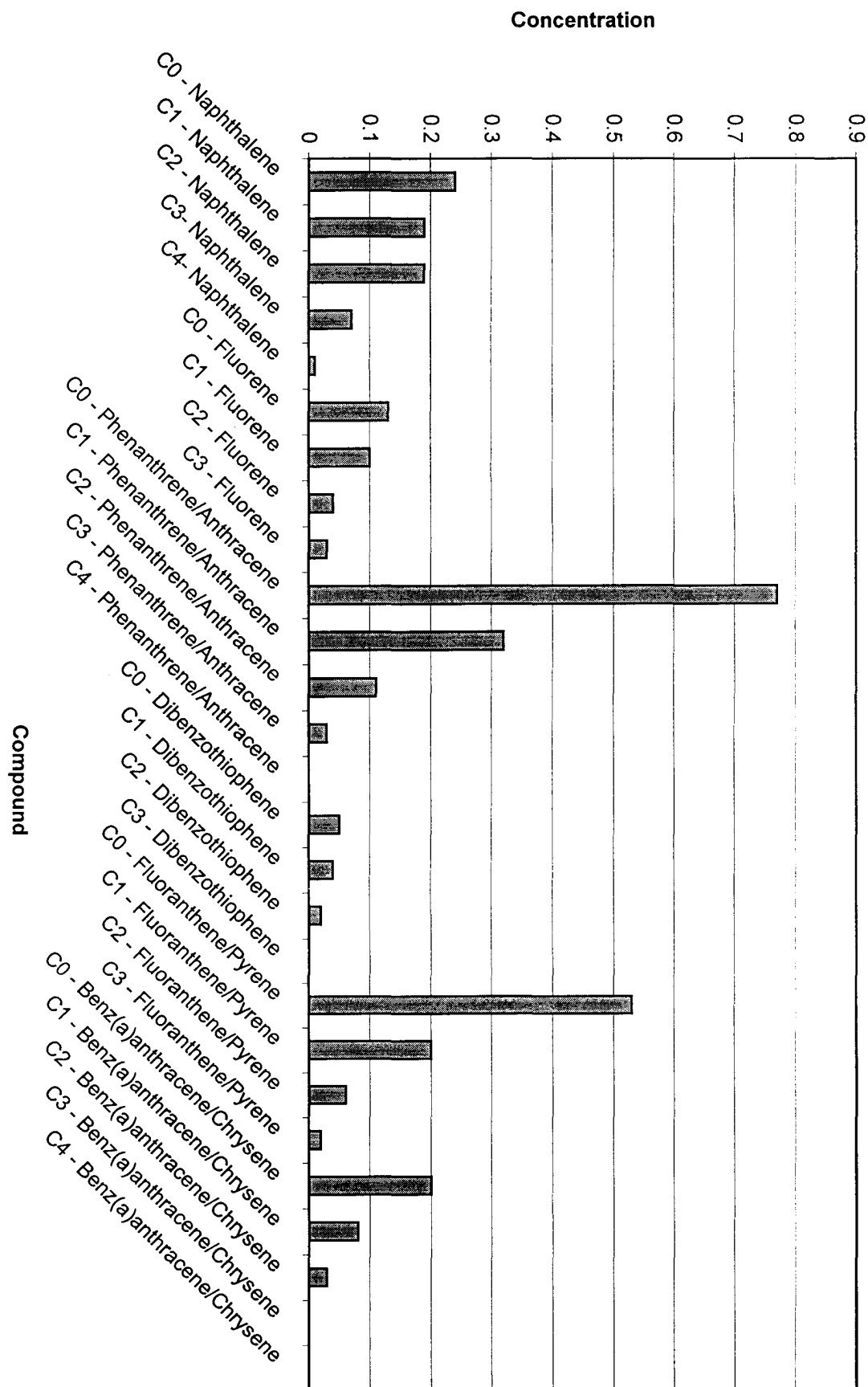
SBA (4:0-6:0)

SBS (4.0-6.0)

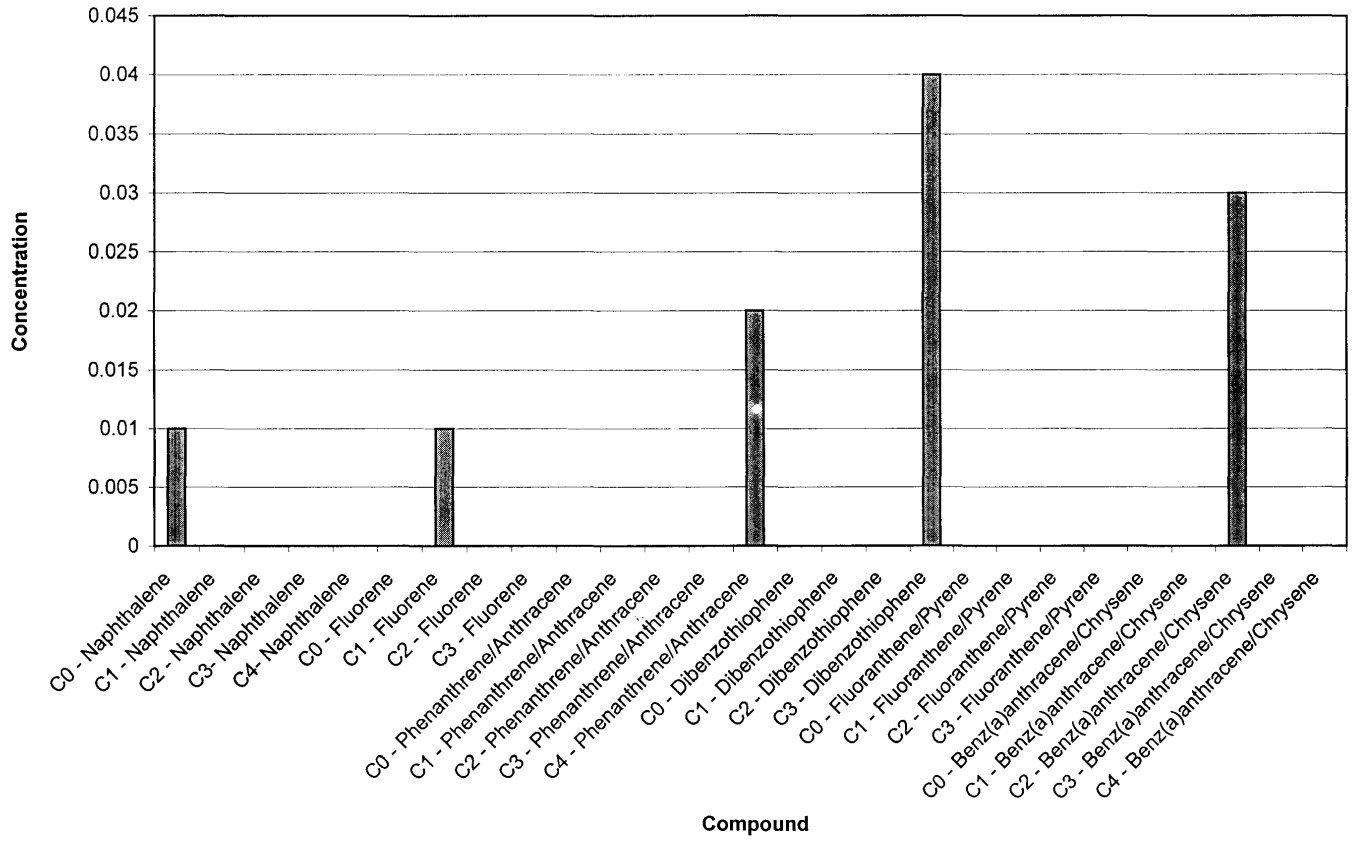


SB6 (10.4-12.2)



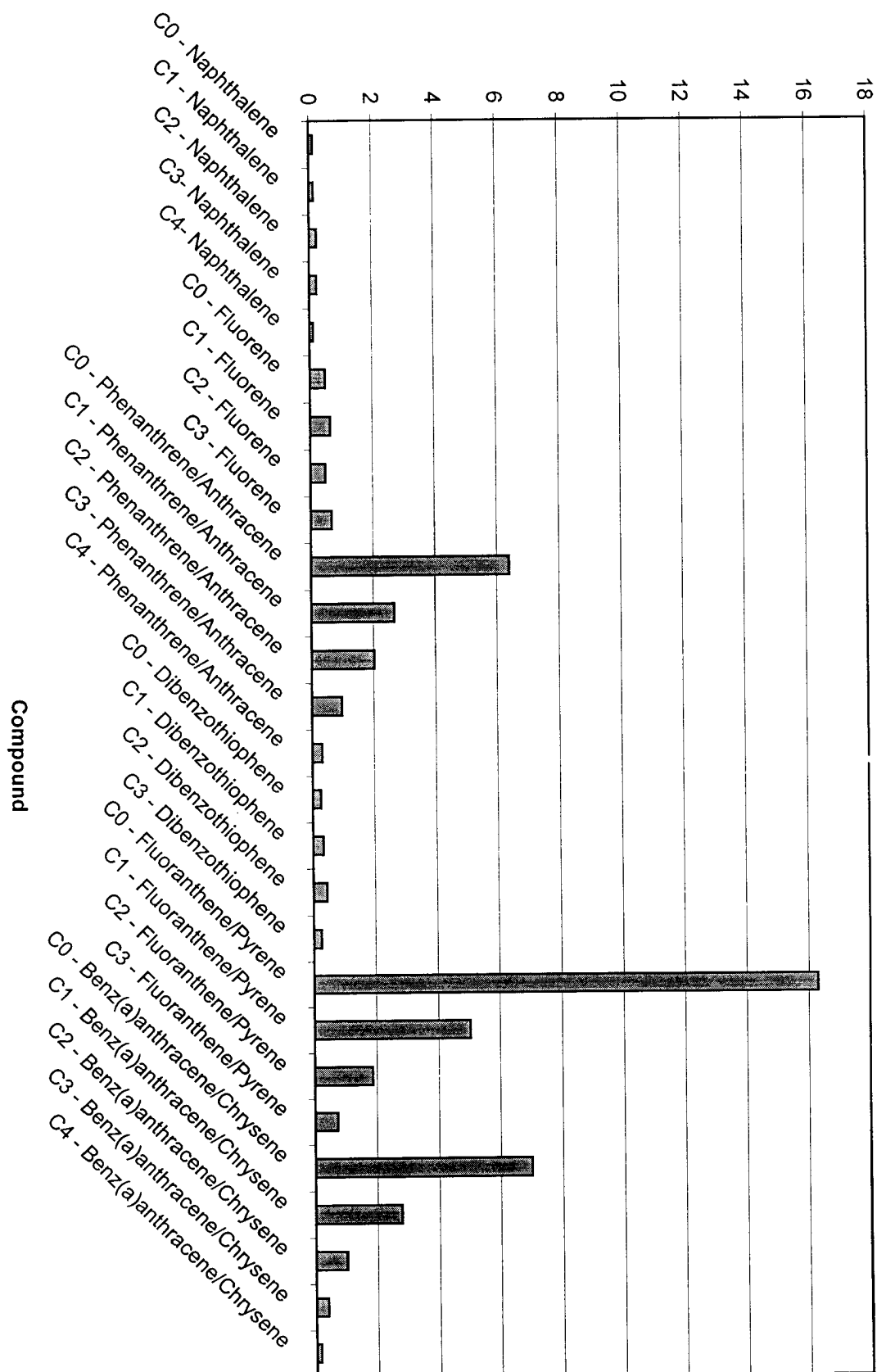


SB9 (14.0-15.5)



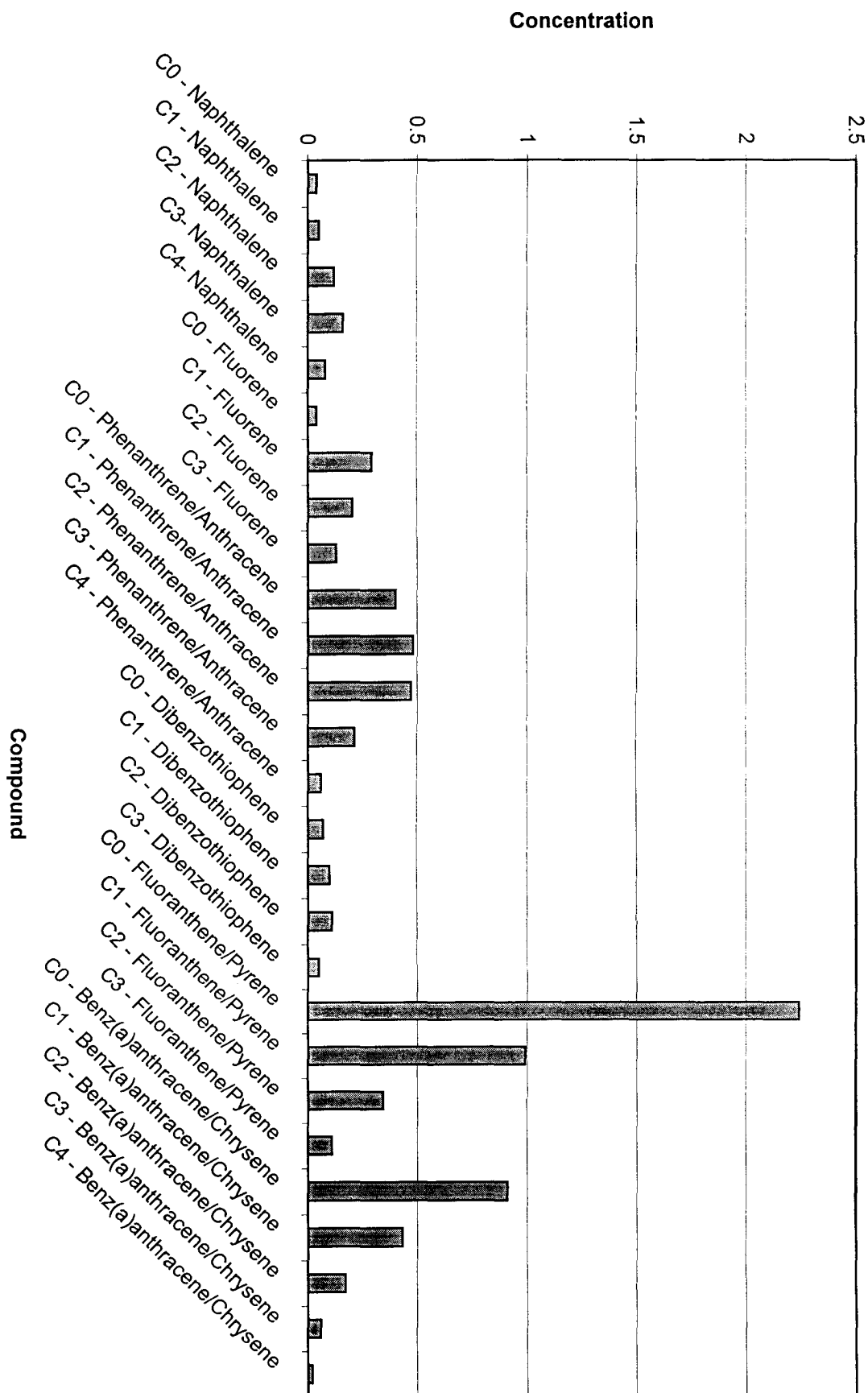
Concentration

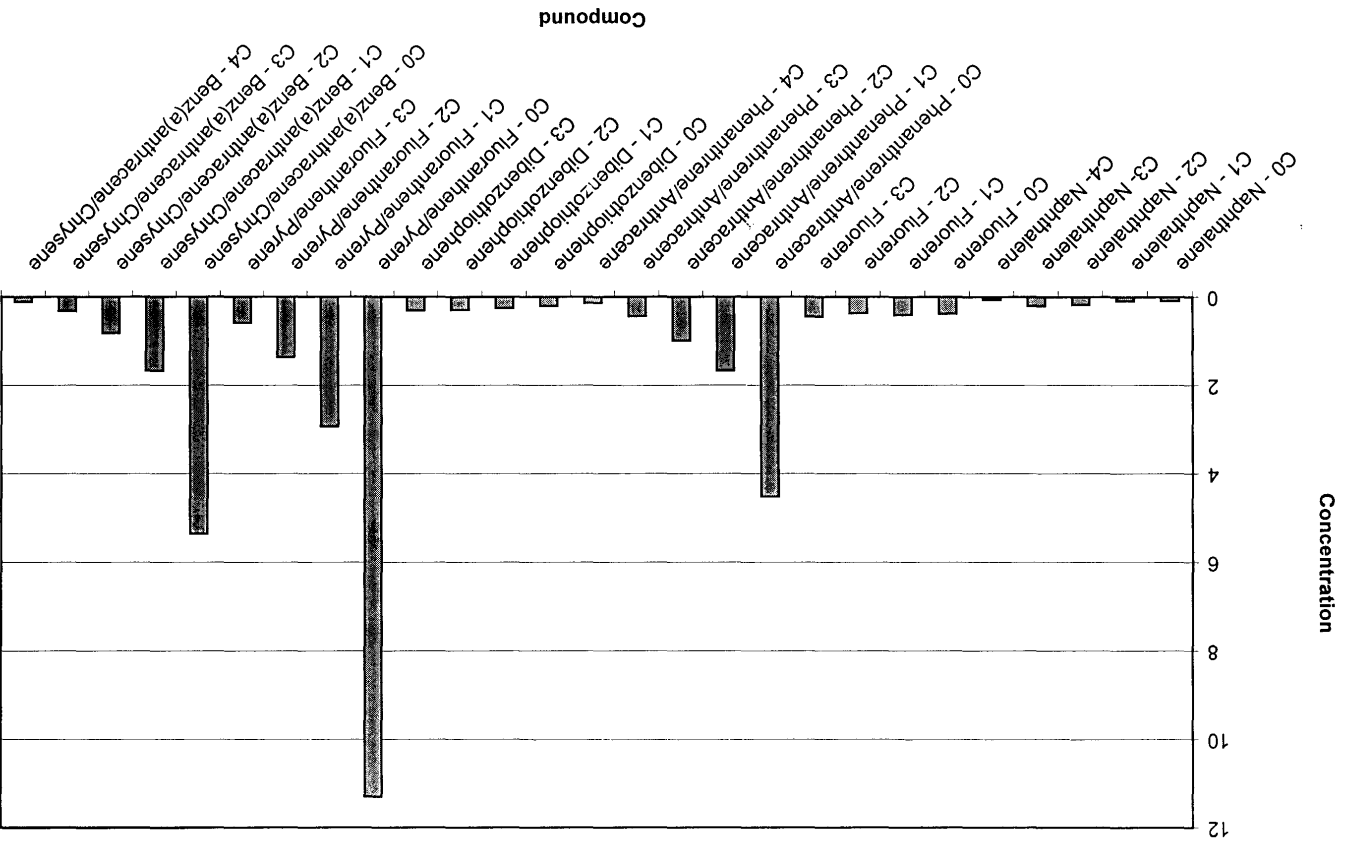
SD1 (0.0-0.2)





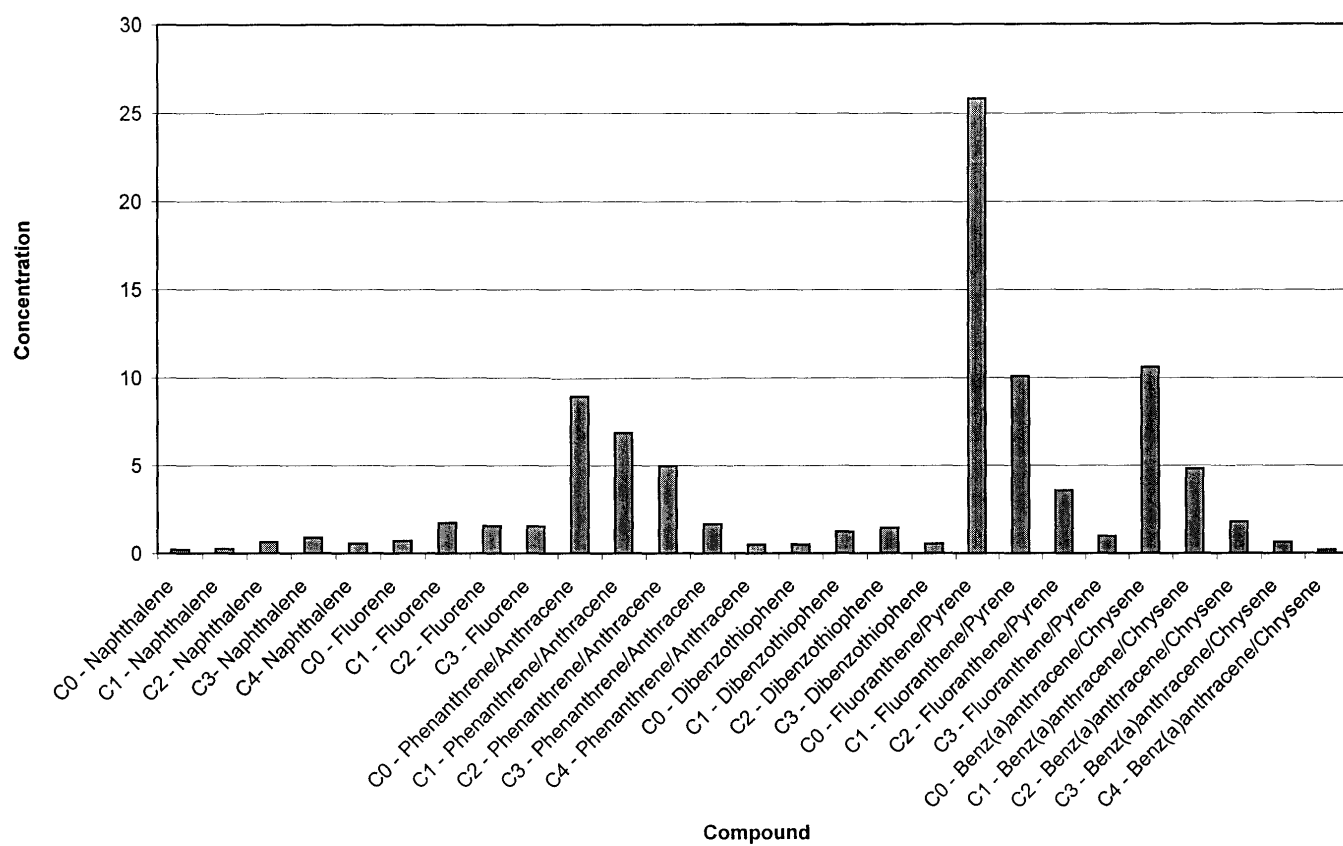
SD1 (0.4-1.4)



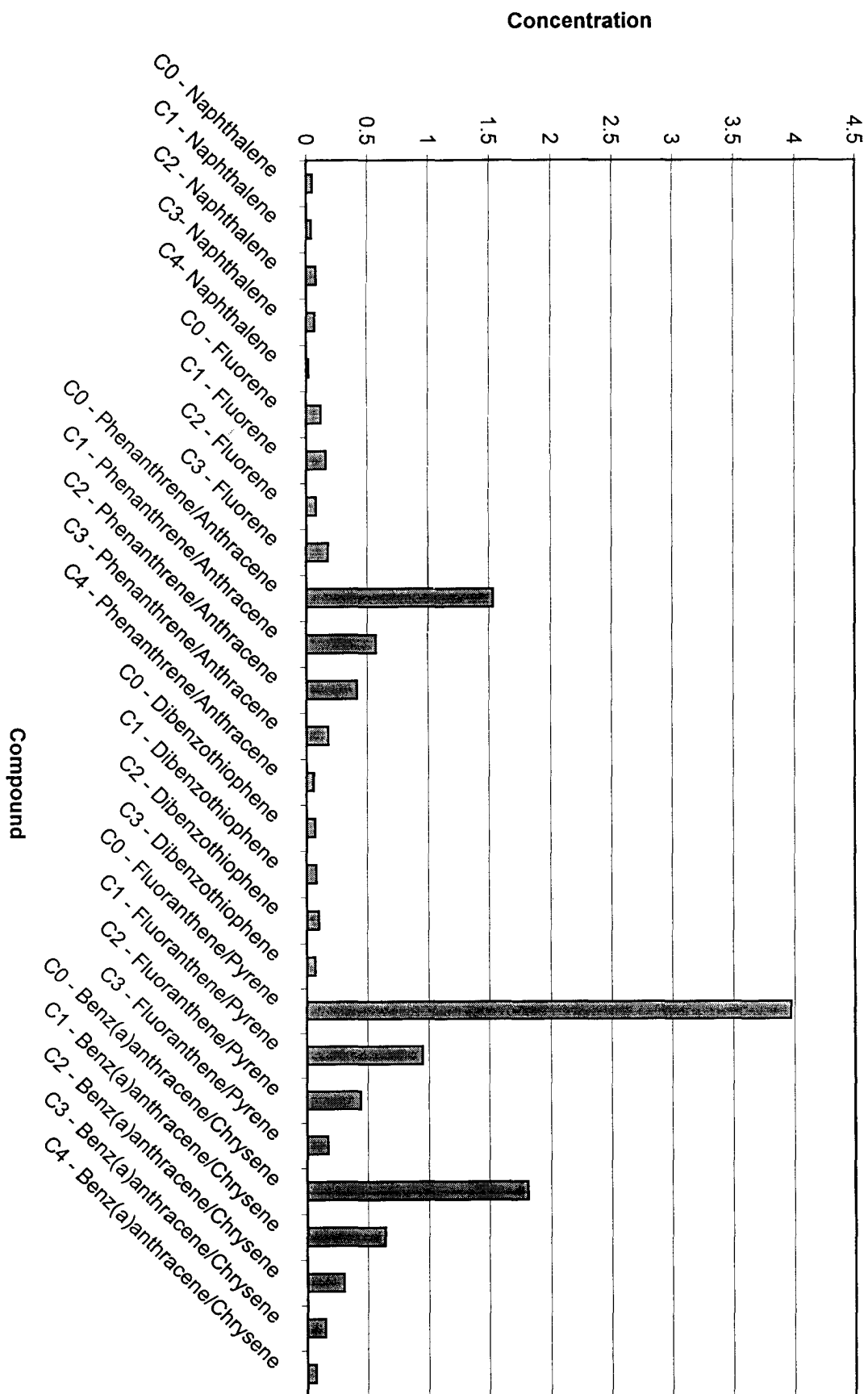


SD10 (0.0-0.4)

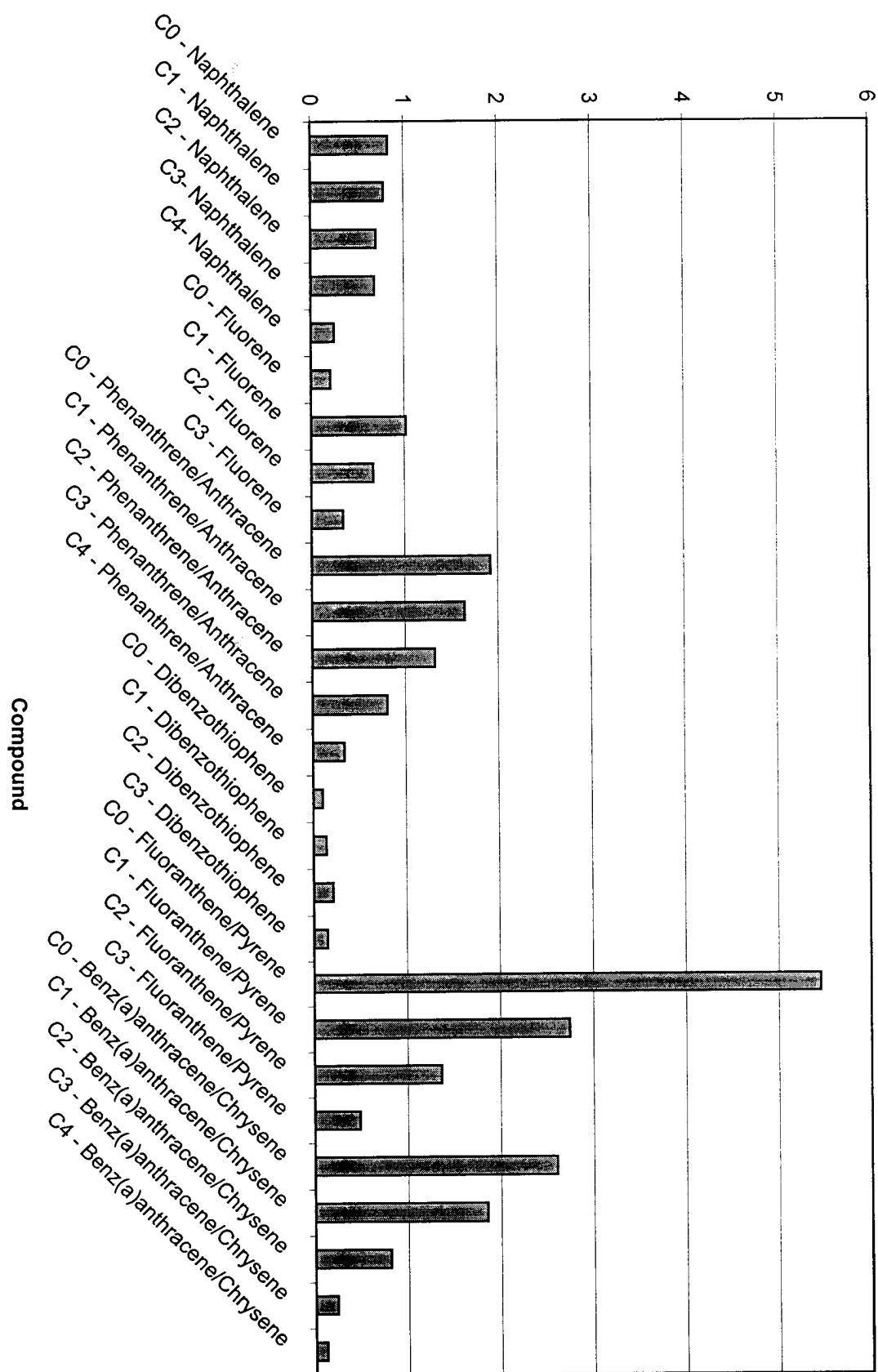
SD10 (0.2-2.0)



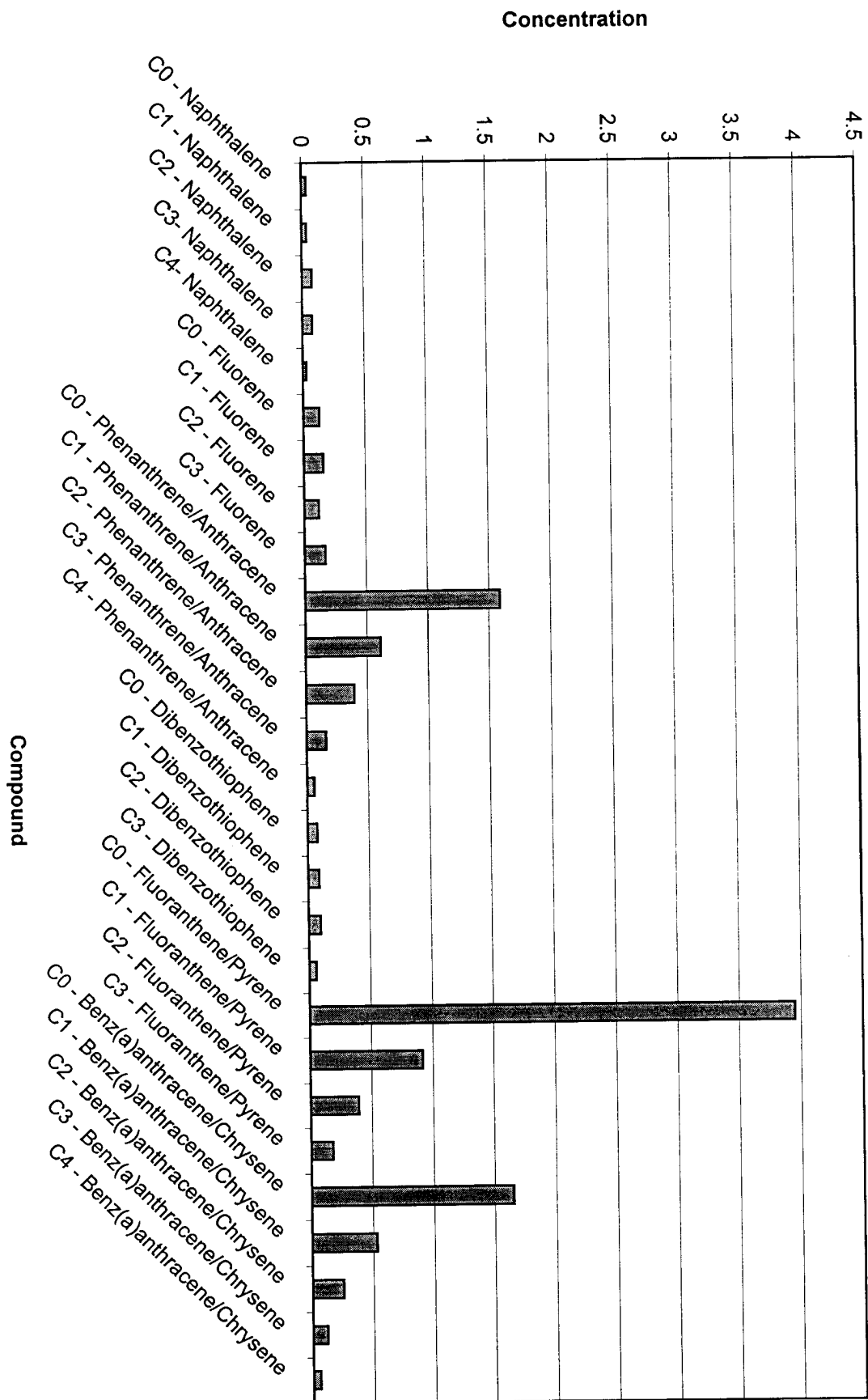
SD11 (0.0-0.2)



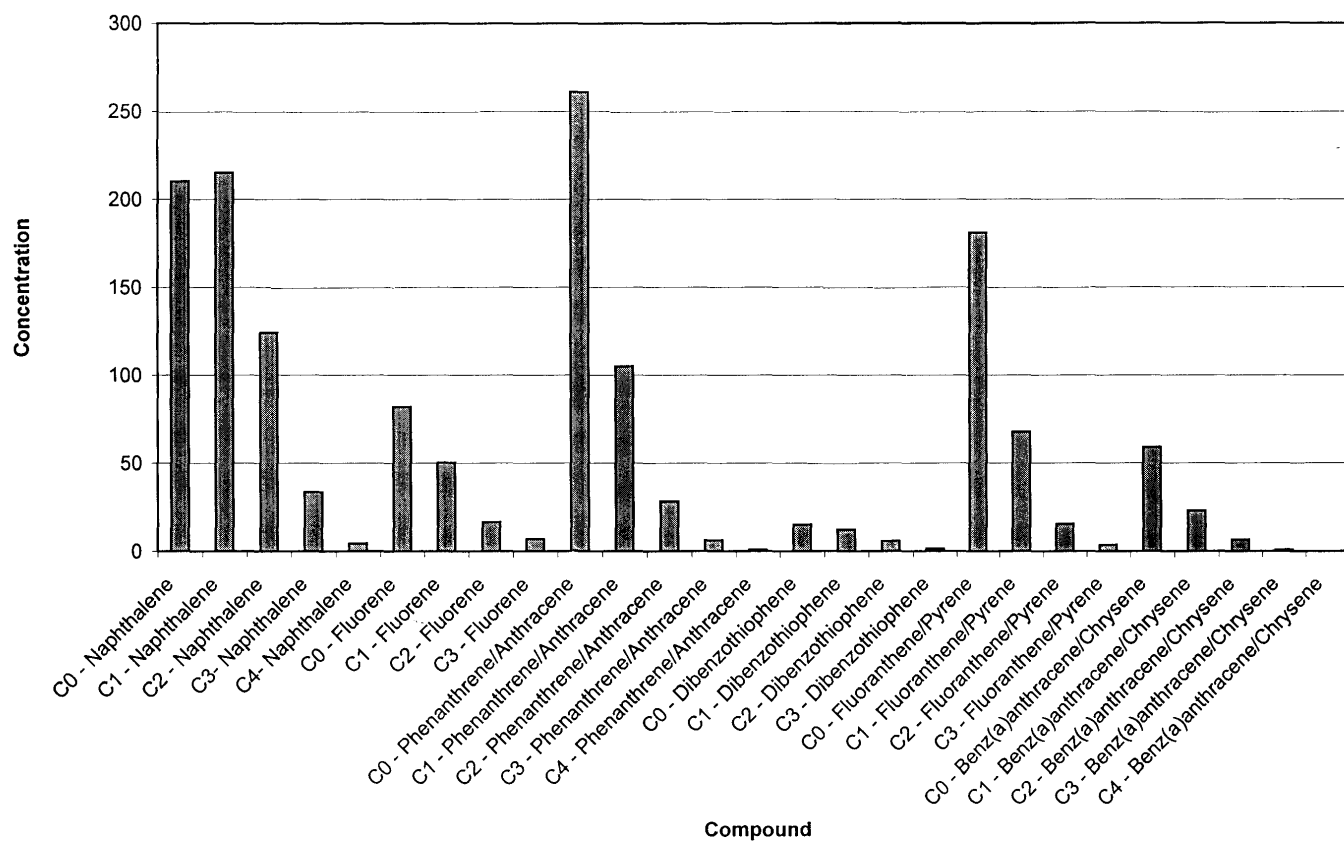
# Concentration



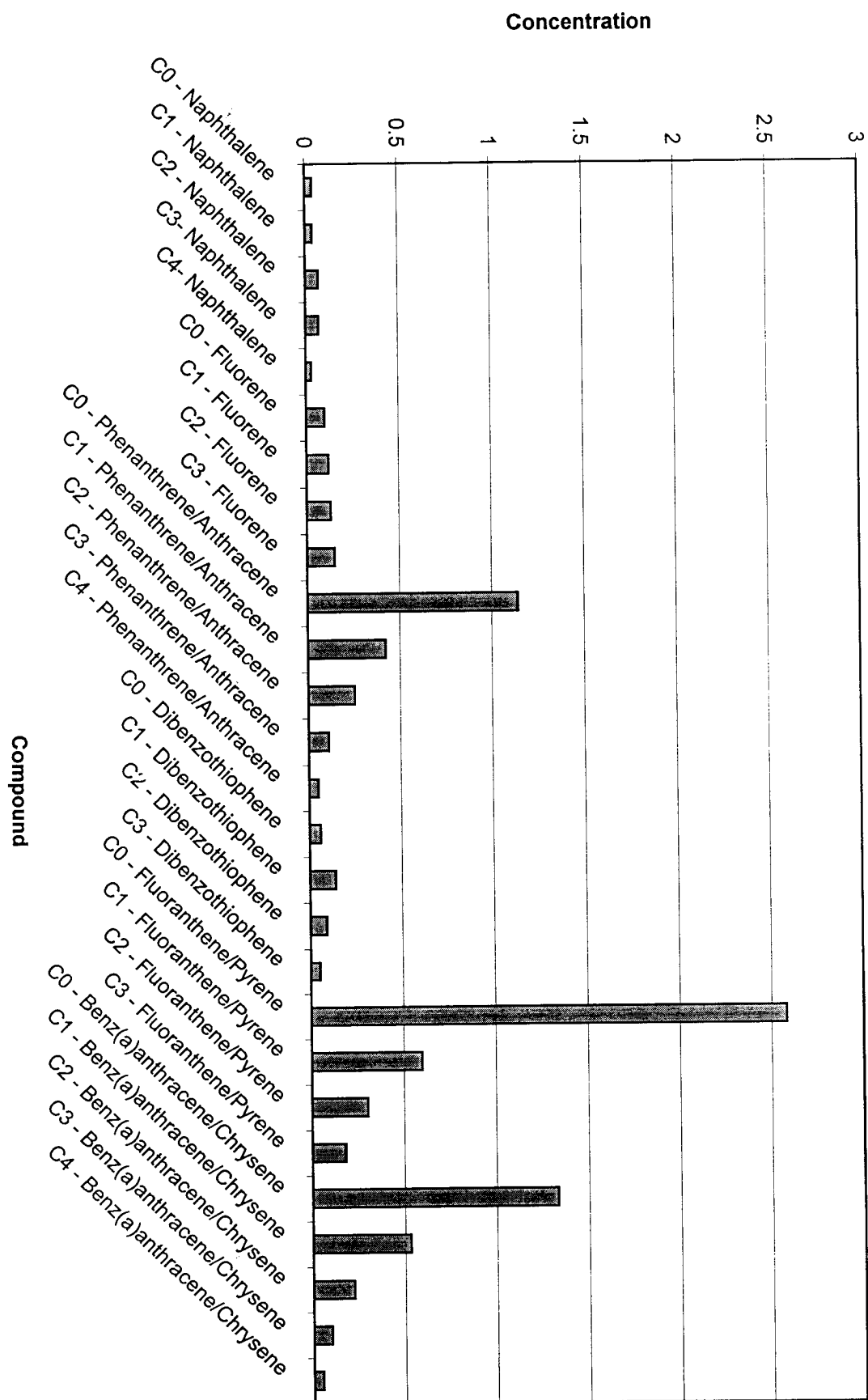
SD12 (0:0-0:7)



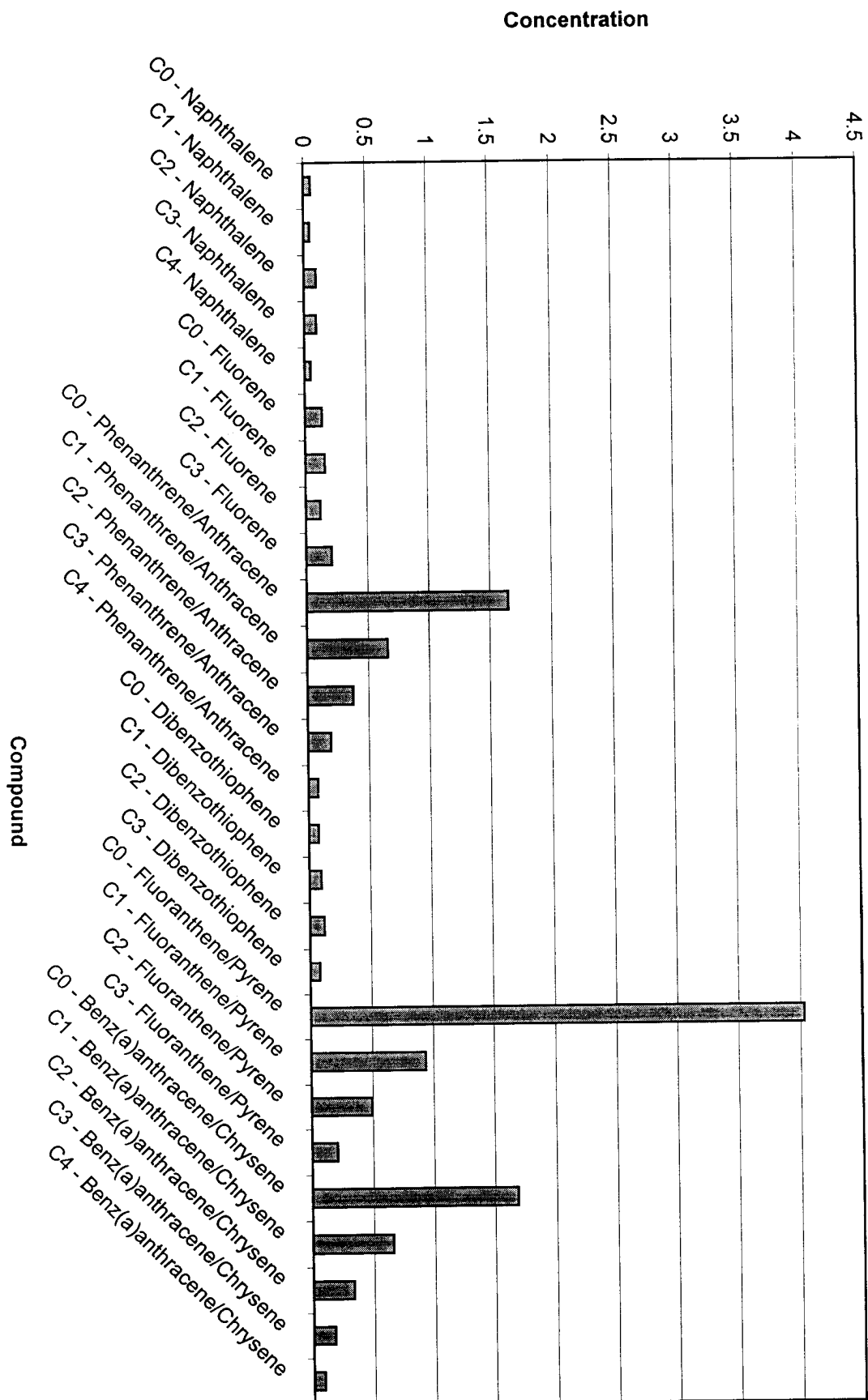
SD12 (4.4-4.7)



SD13 (0.0-0.2)





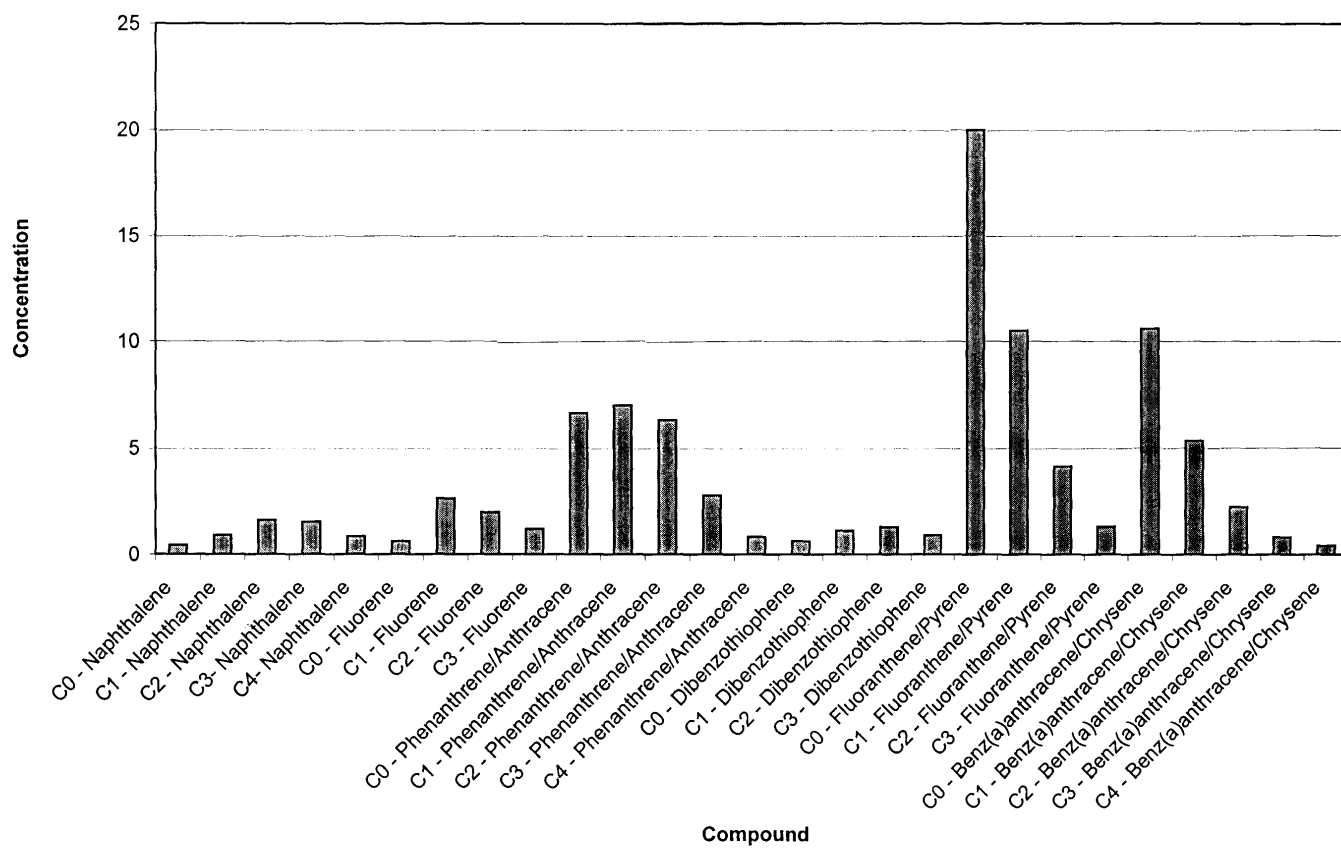


Concentration

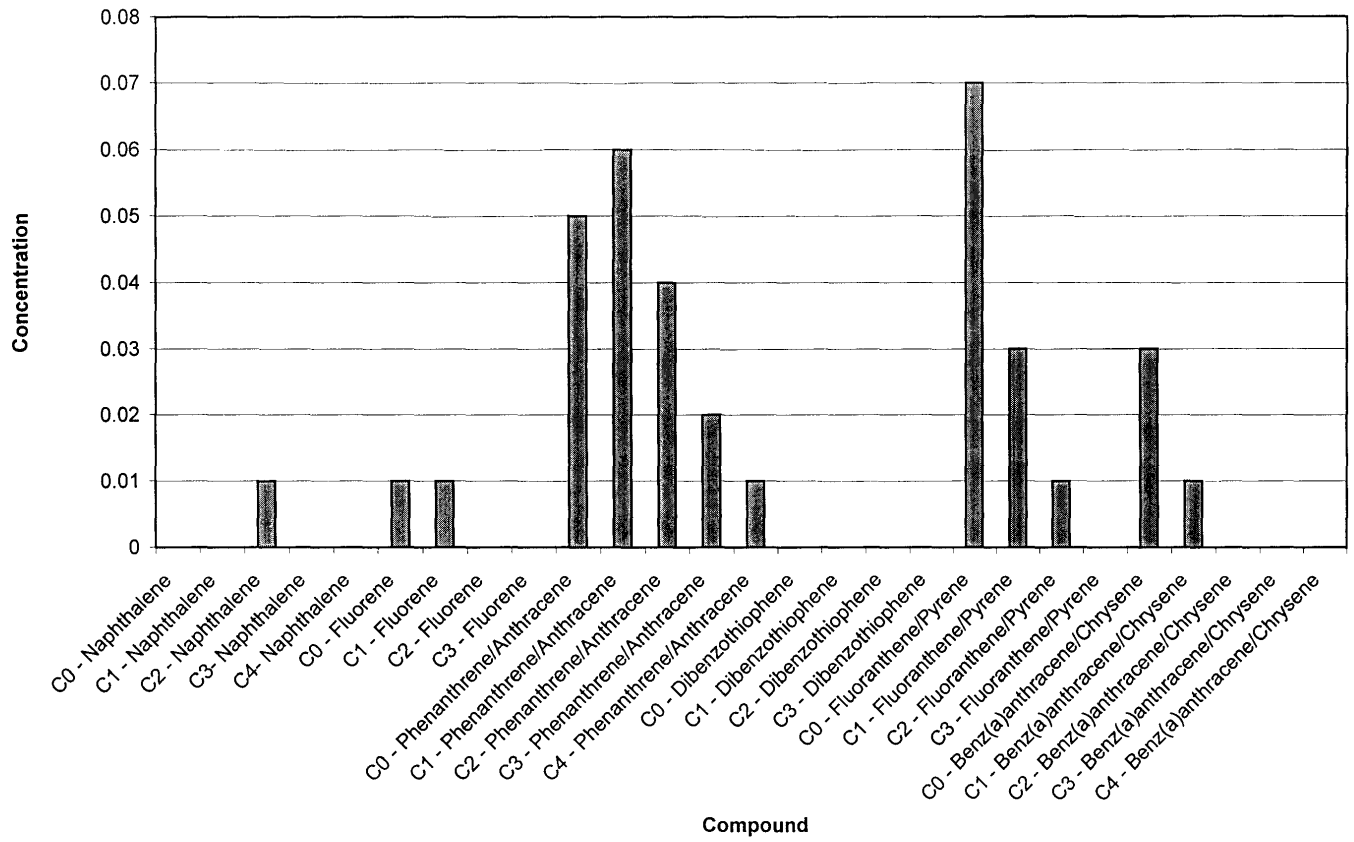
SD14 (0.0-0.2)



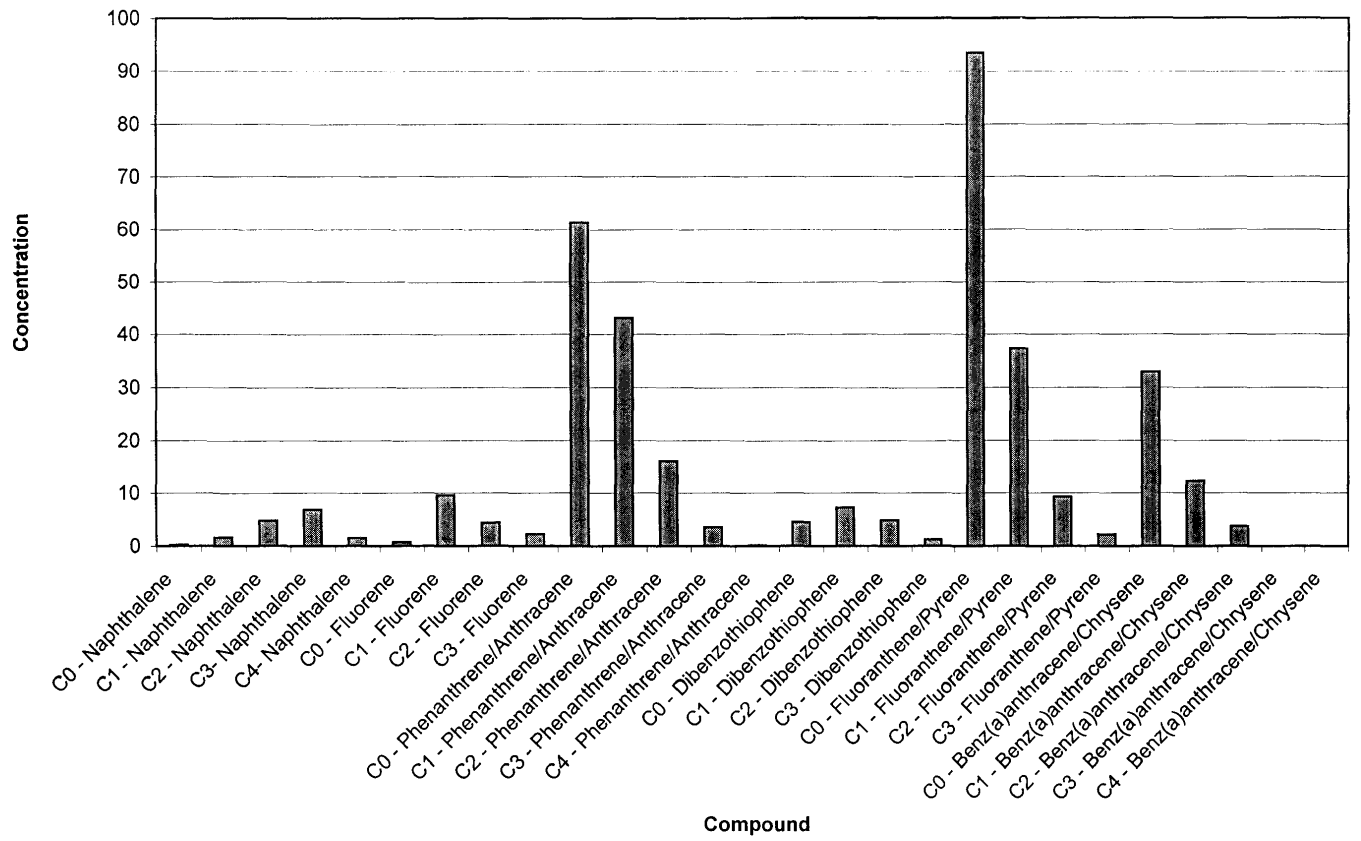
SD14 (0.7-2.1)



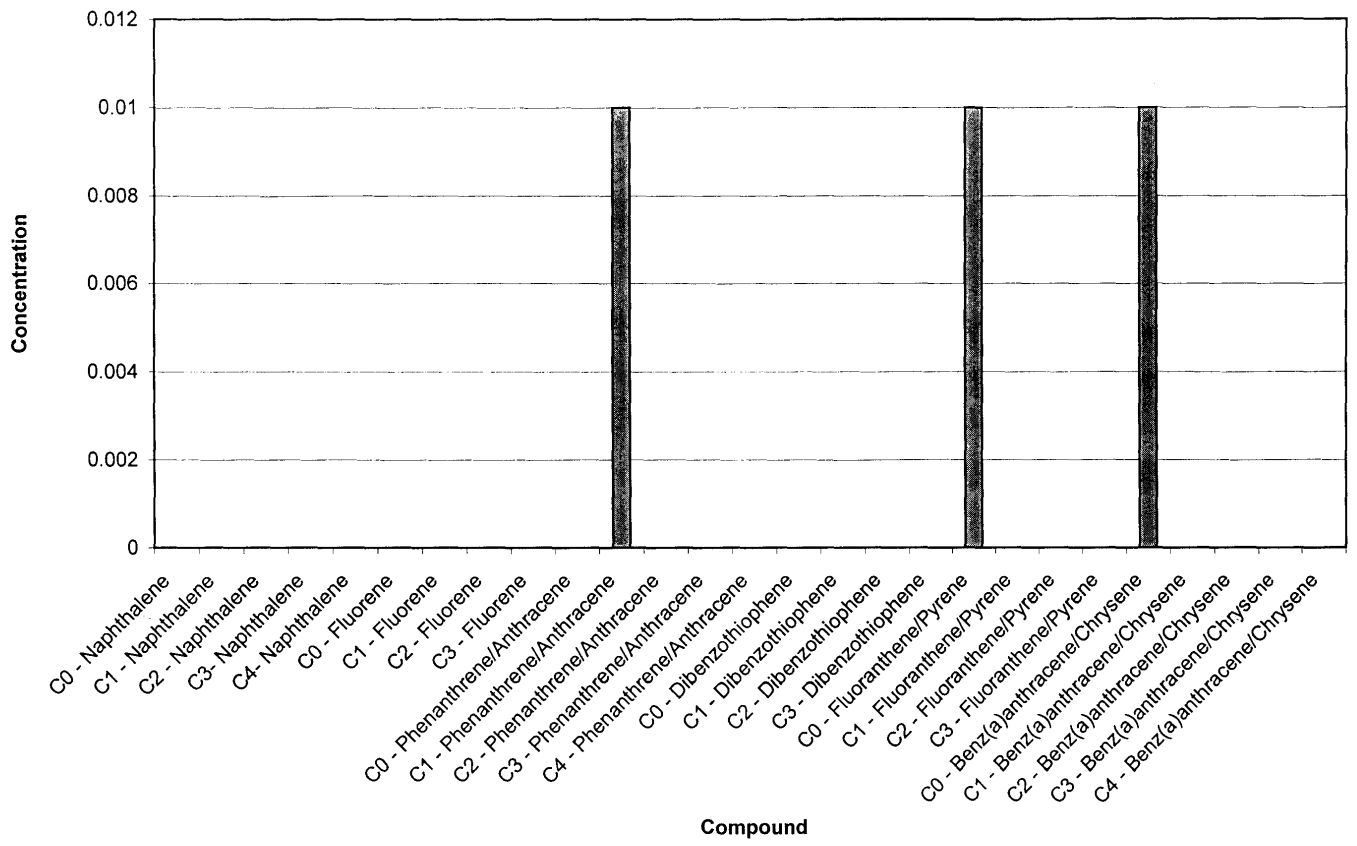
SD14 (5.0-5.4)

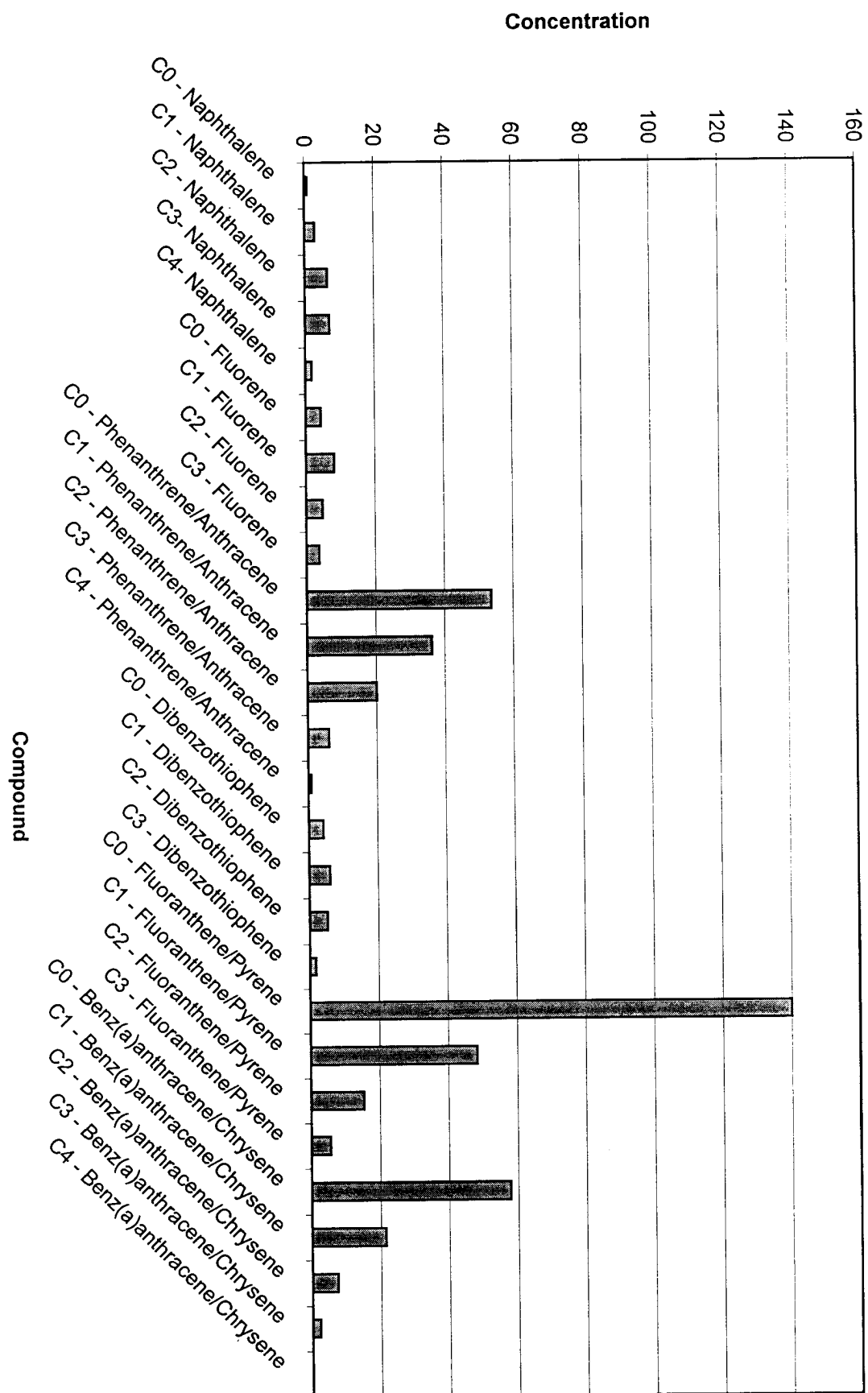


SD15 (0-2)

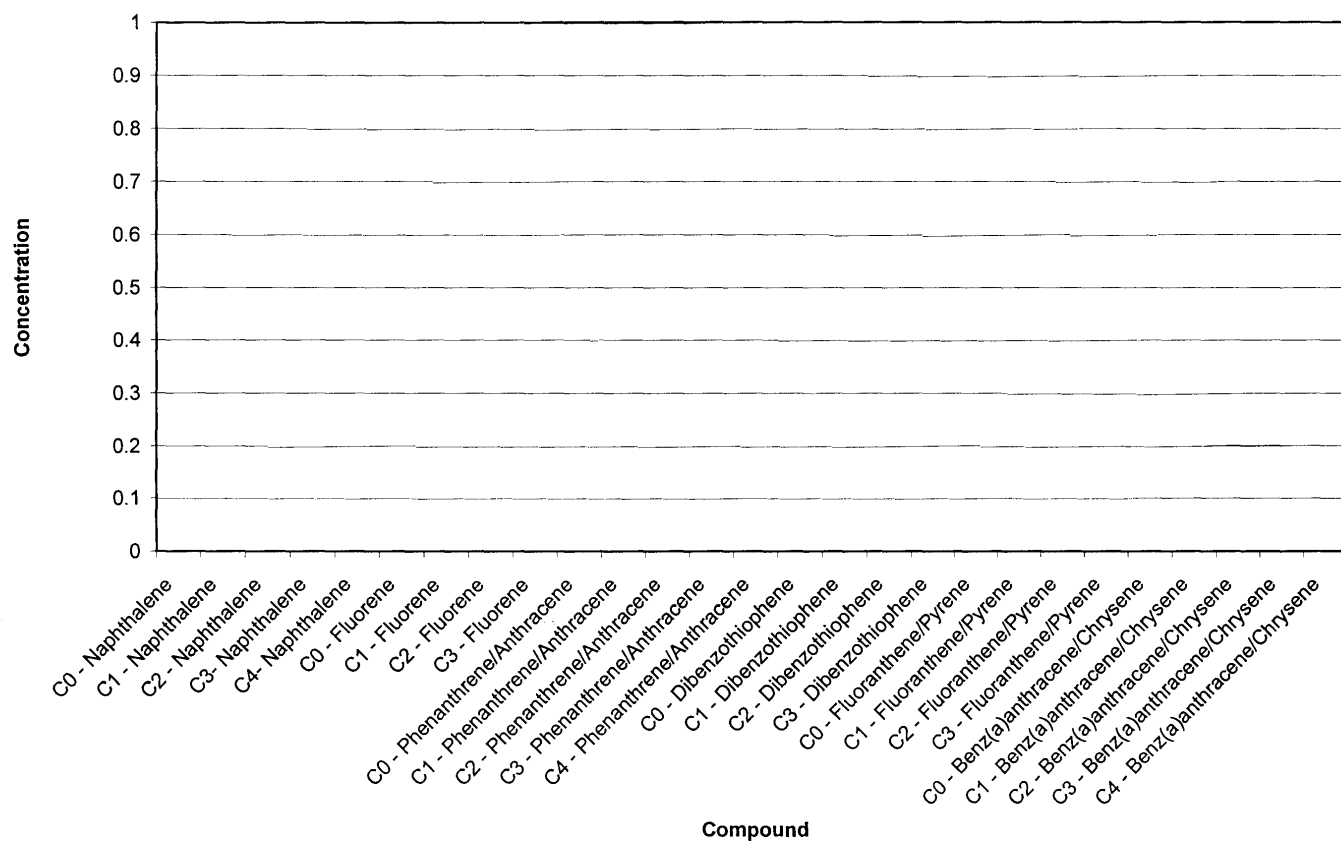


SD15 (2.8-3.5)





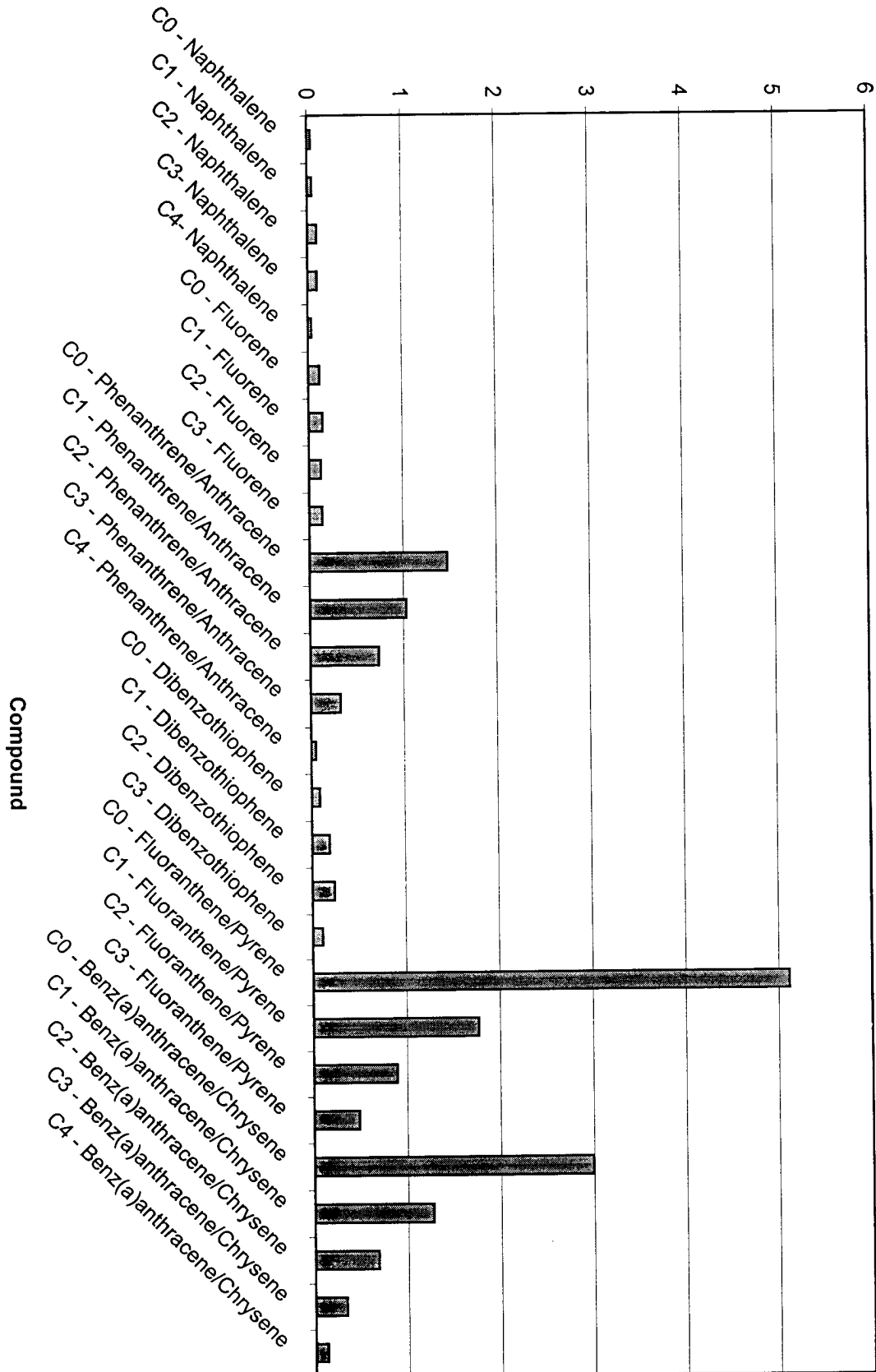
SD16 (3.5-4.5)

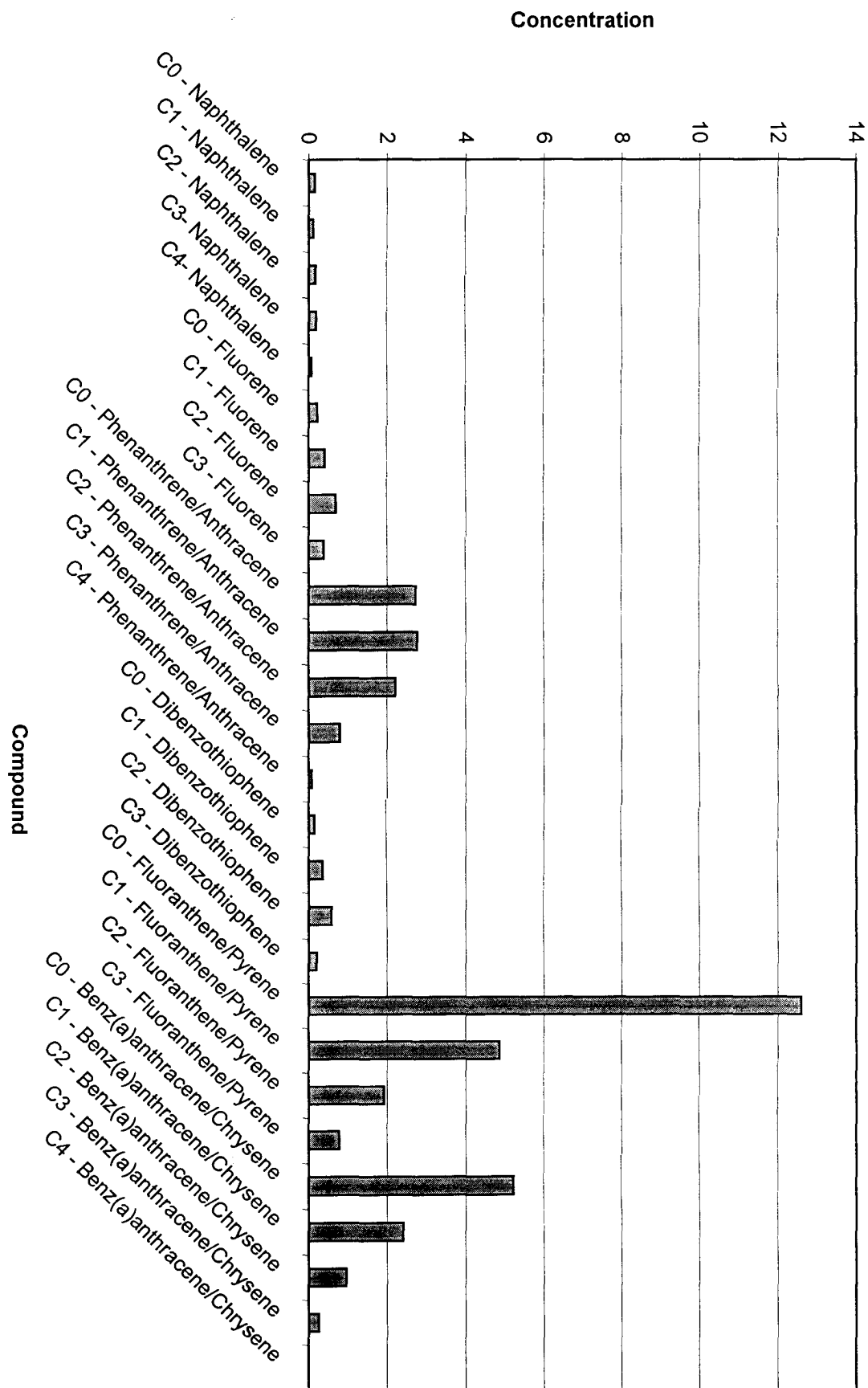




Concentration

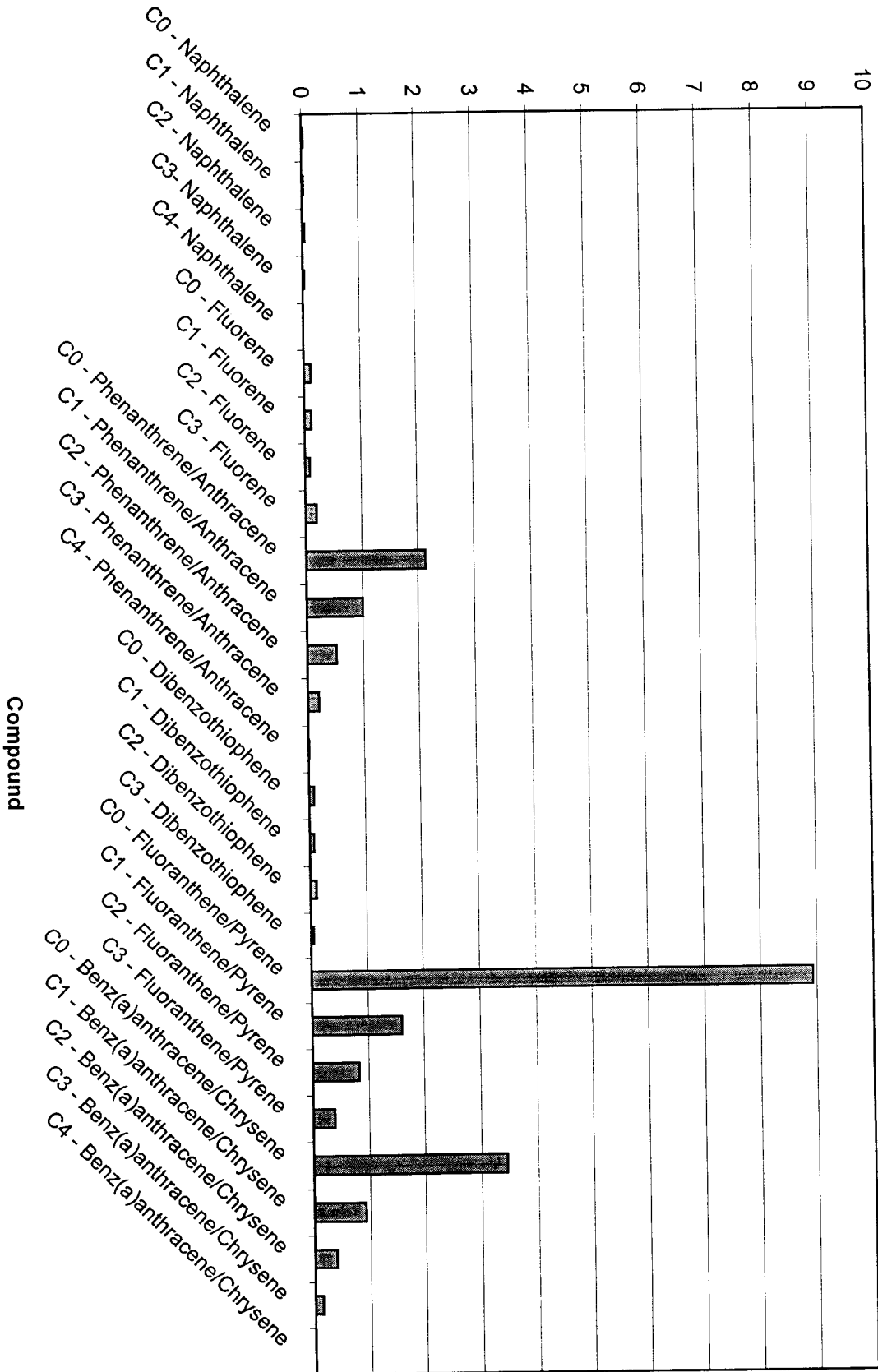
SD17 (0-2)

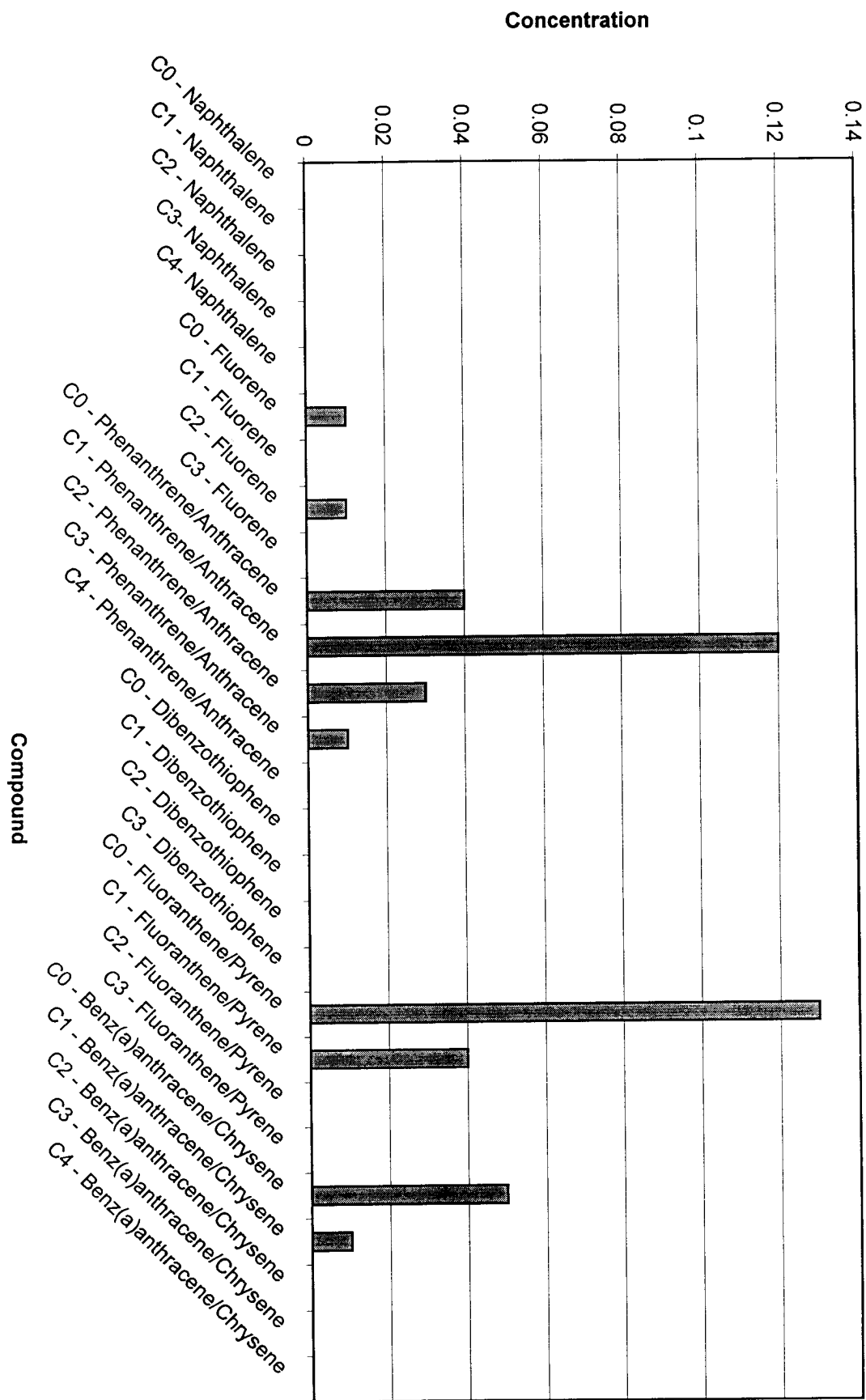


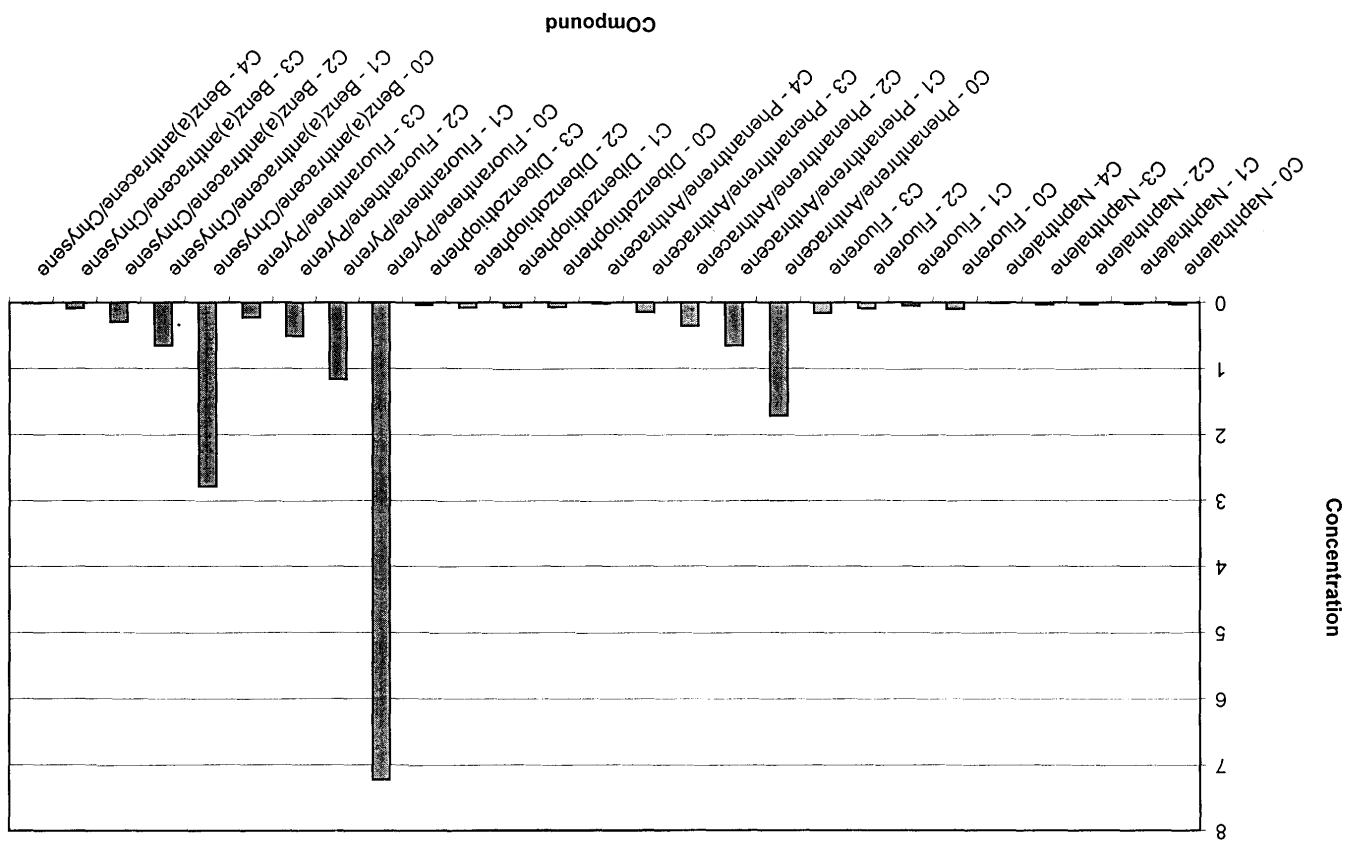


Concentration

SD18 (0-2)

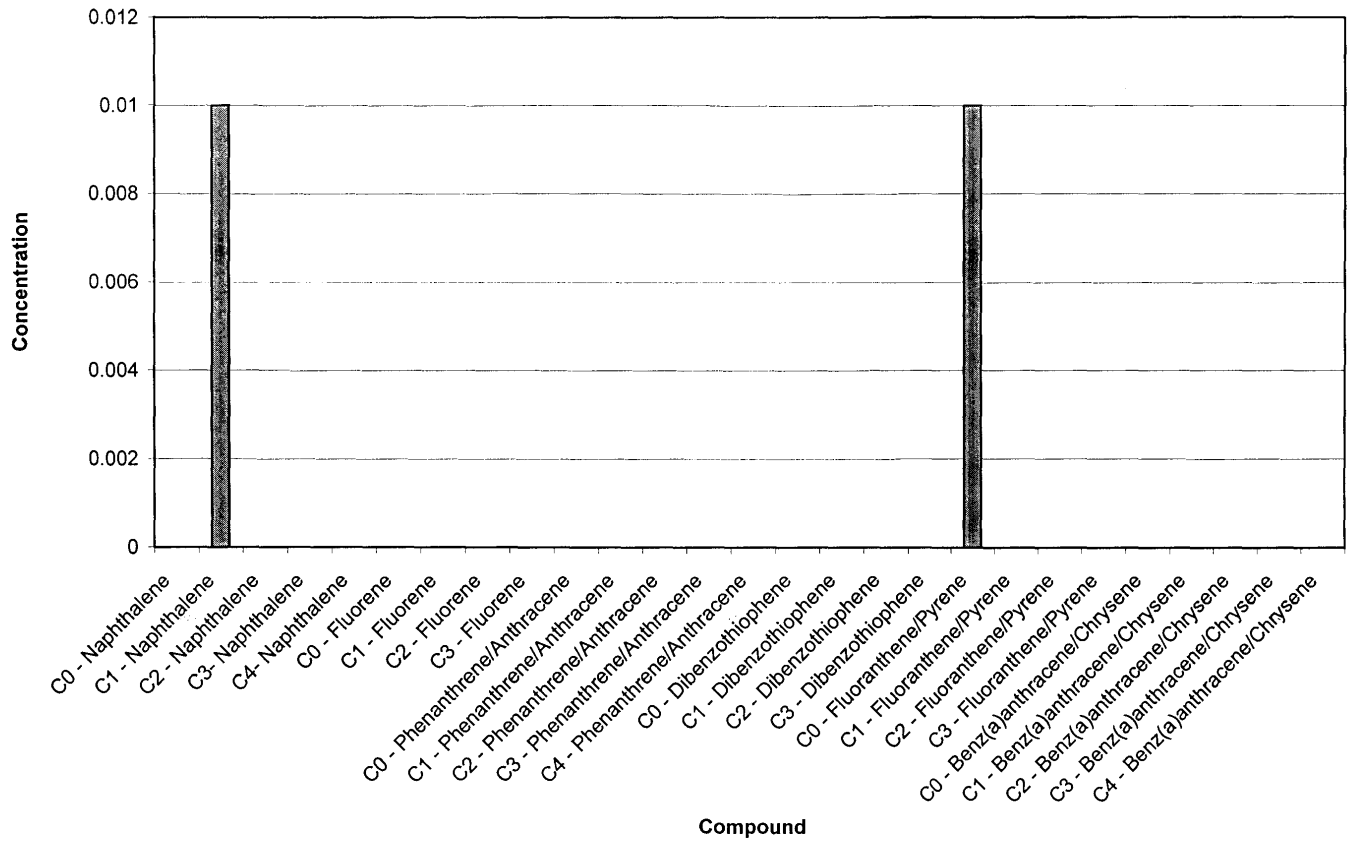






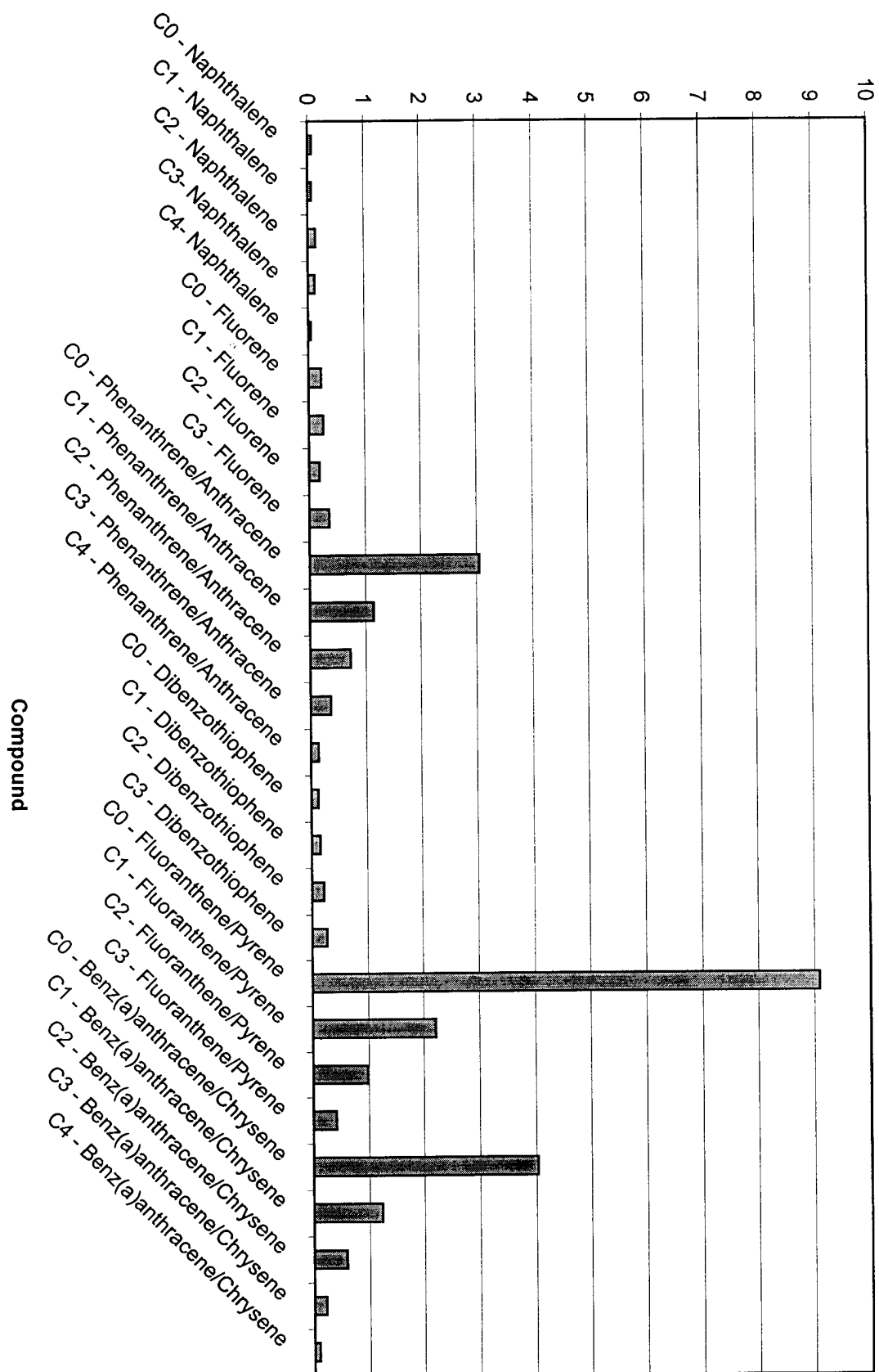
SD19 (0-2)

SD19 (6.3-7.0)

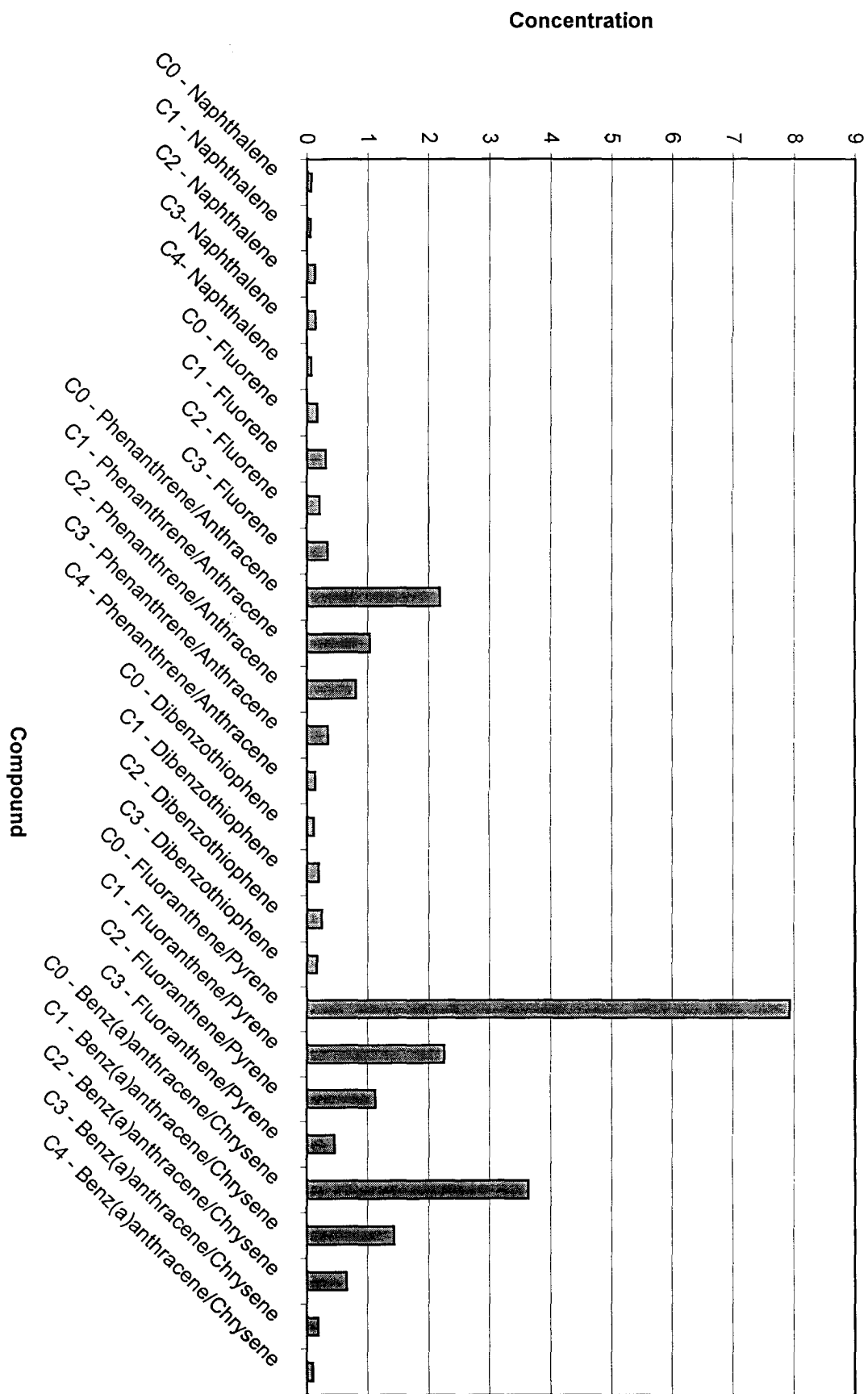


Concentration

SD2 (0.0-0.2)

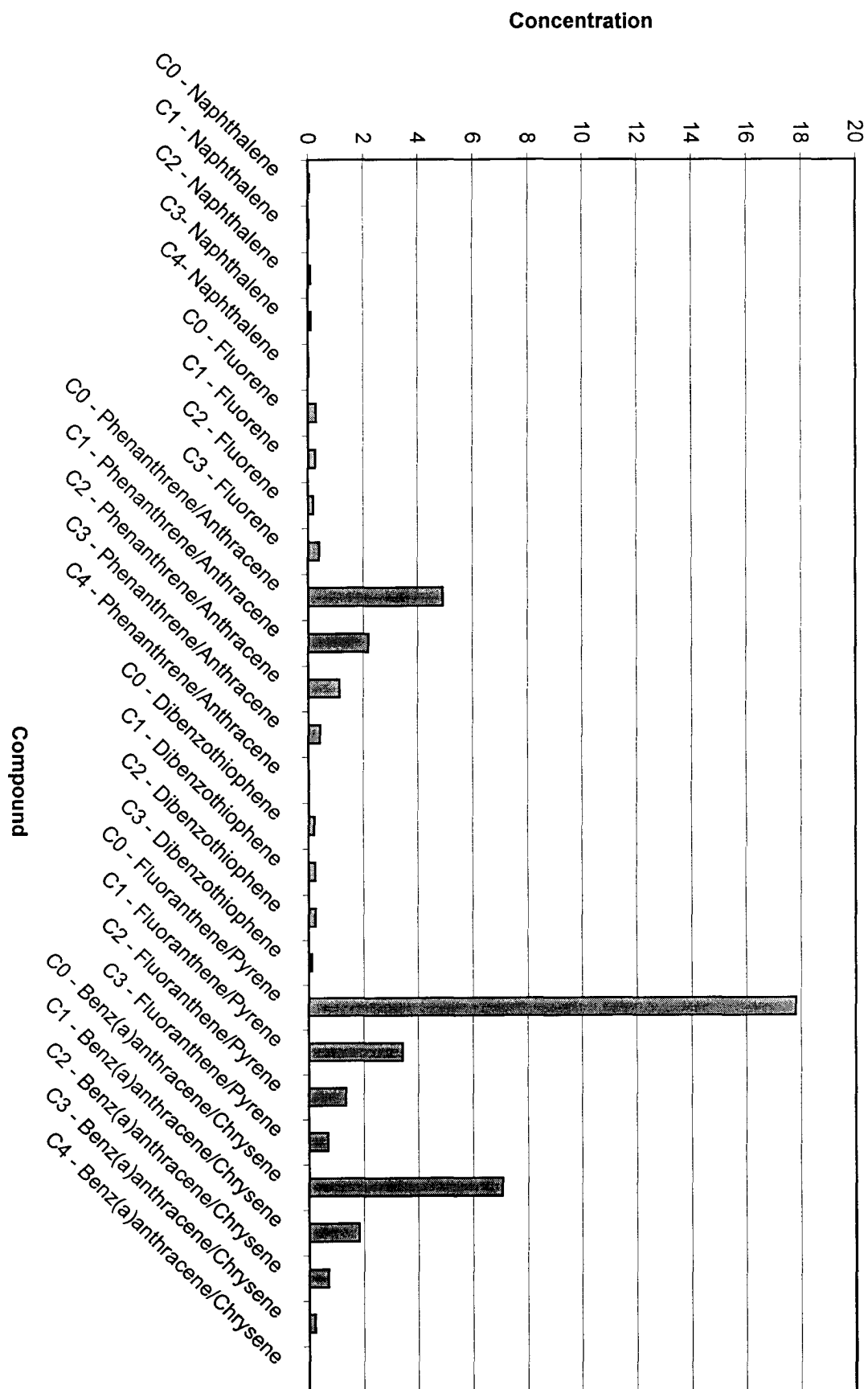


SD2 (0.2-2.0)

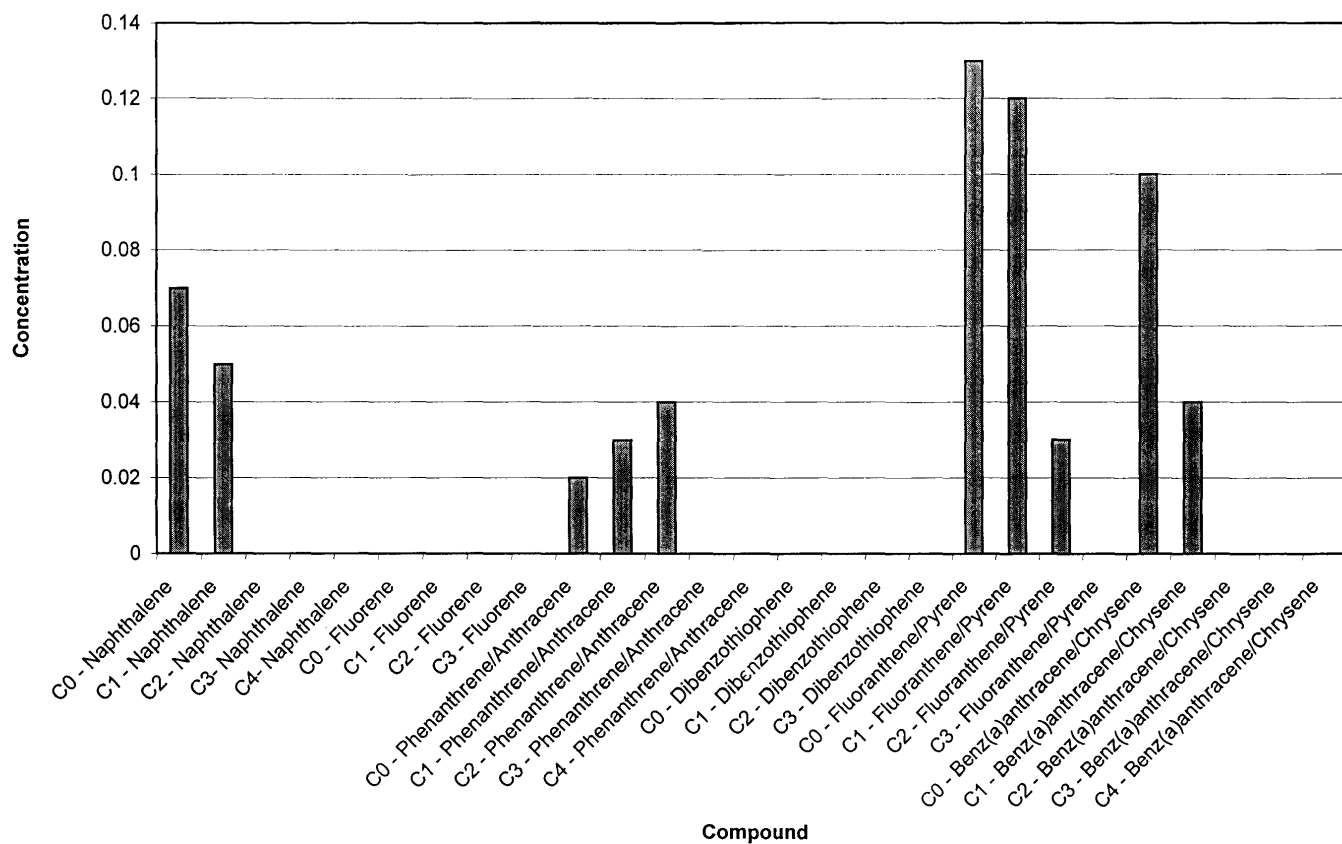




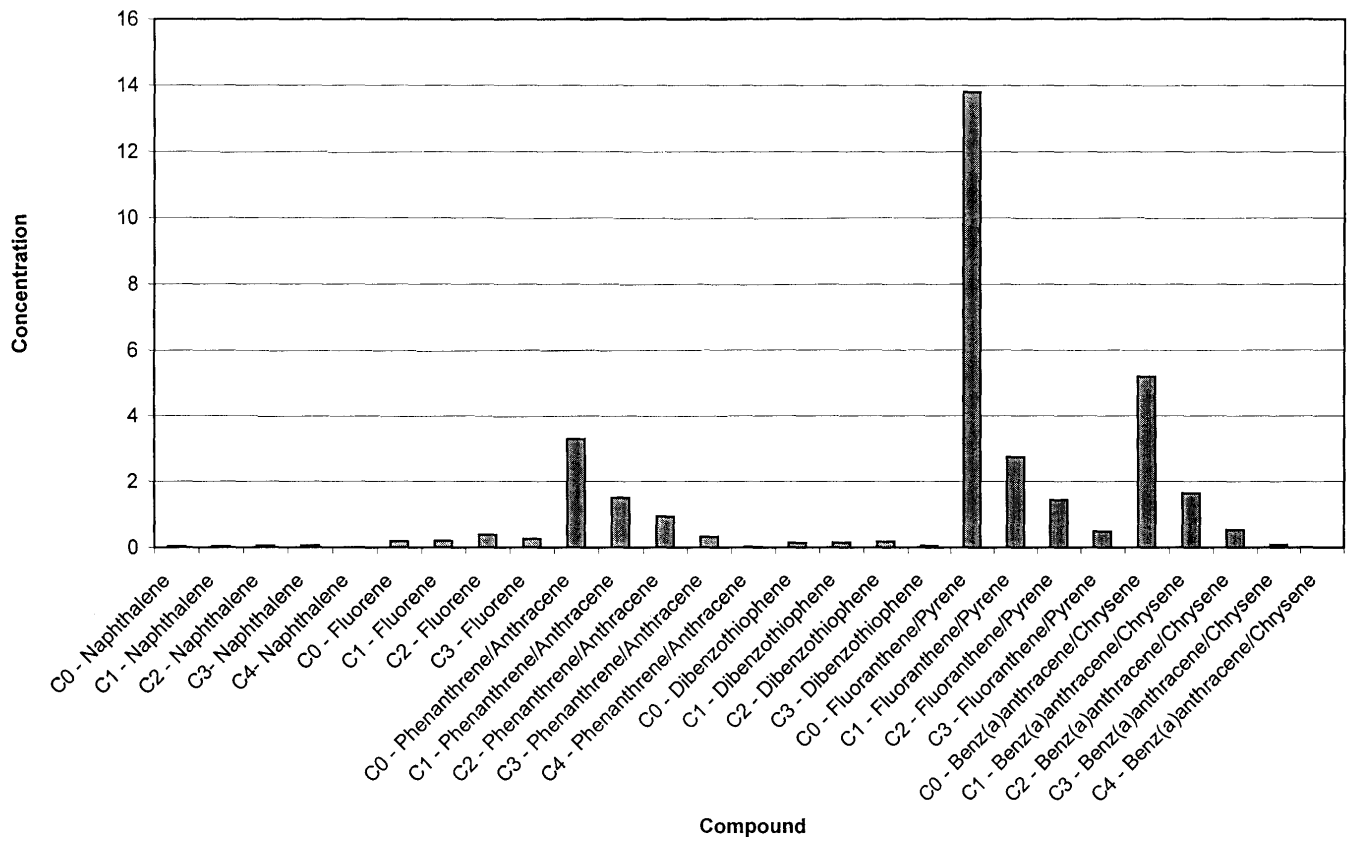
SD20 (0-2)

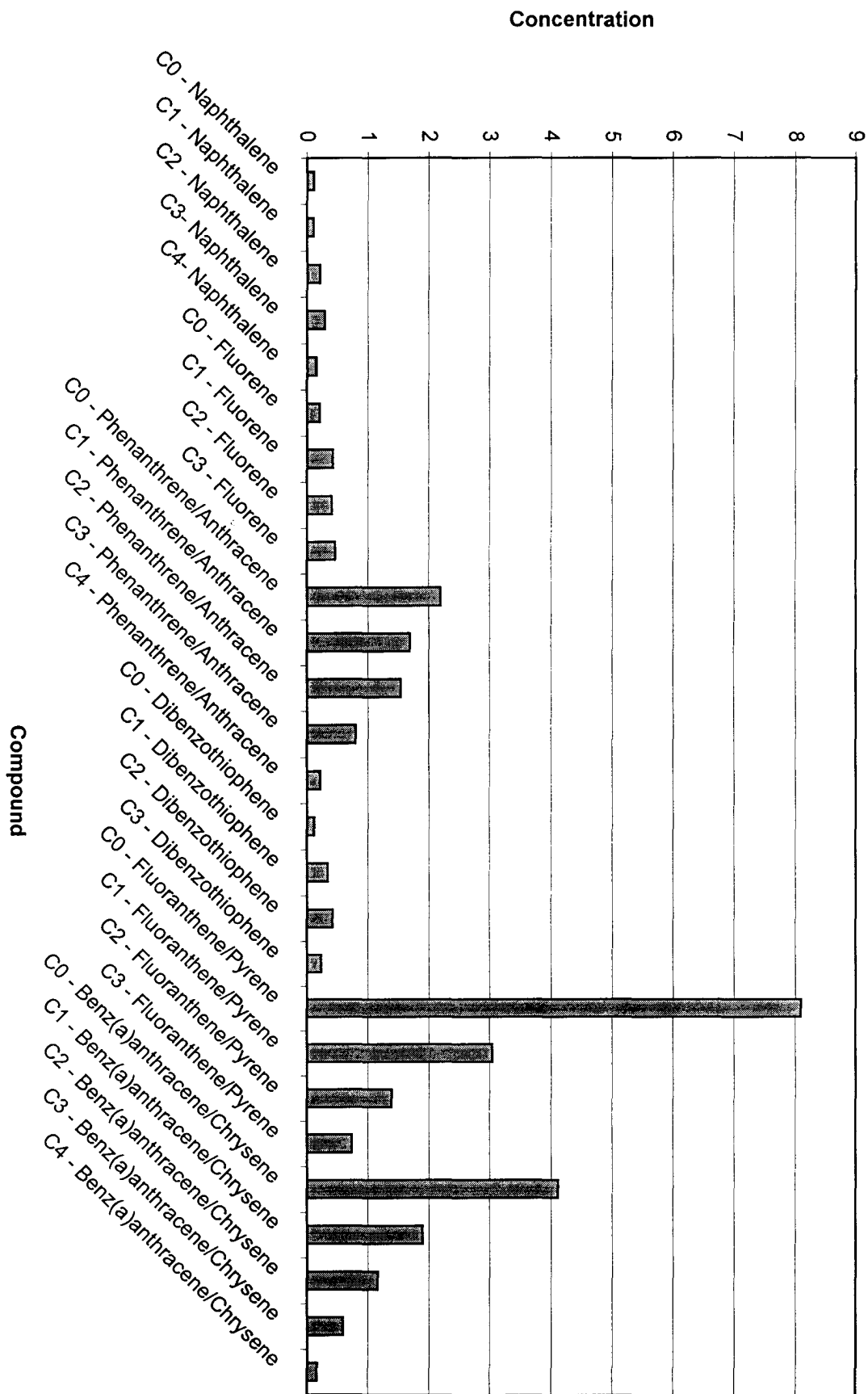


SD20 (5.2-6.3)

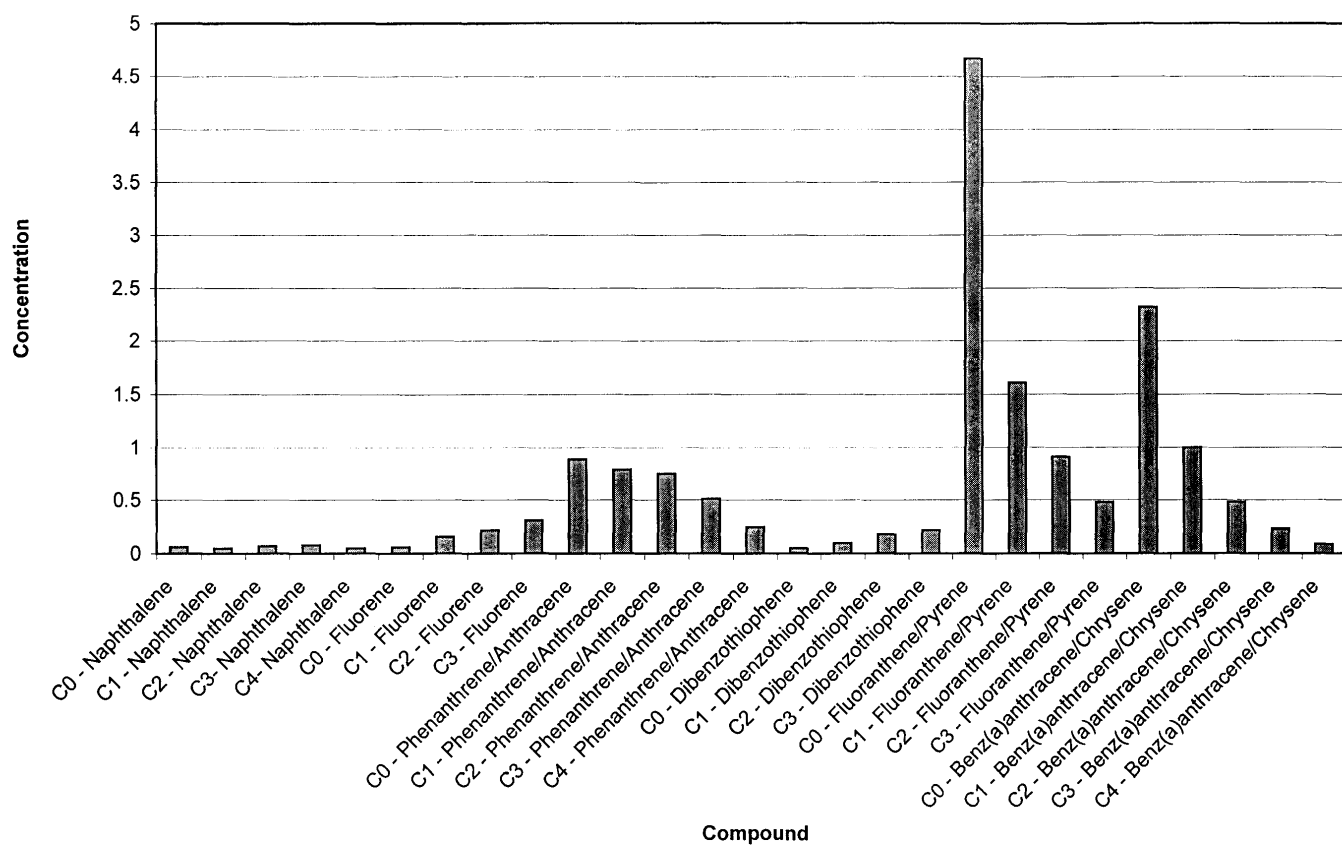


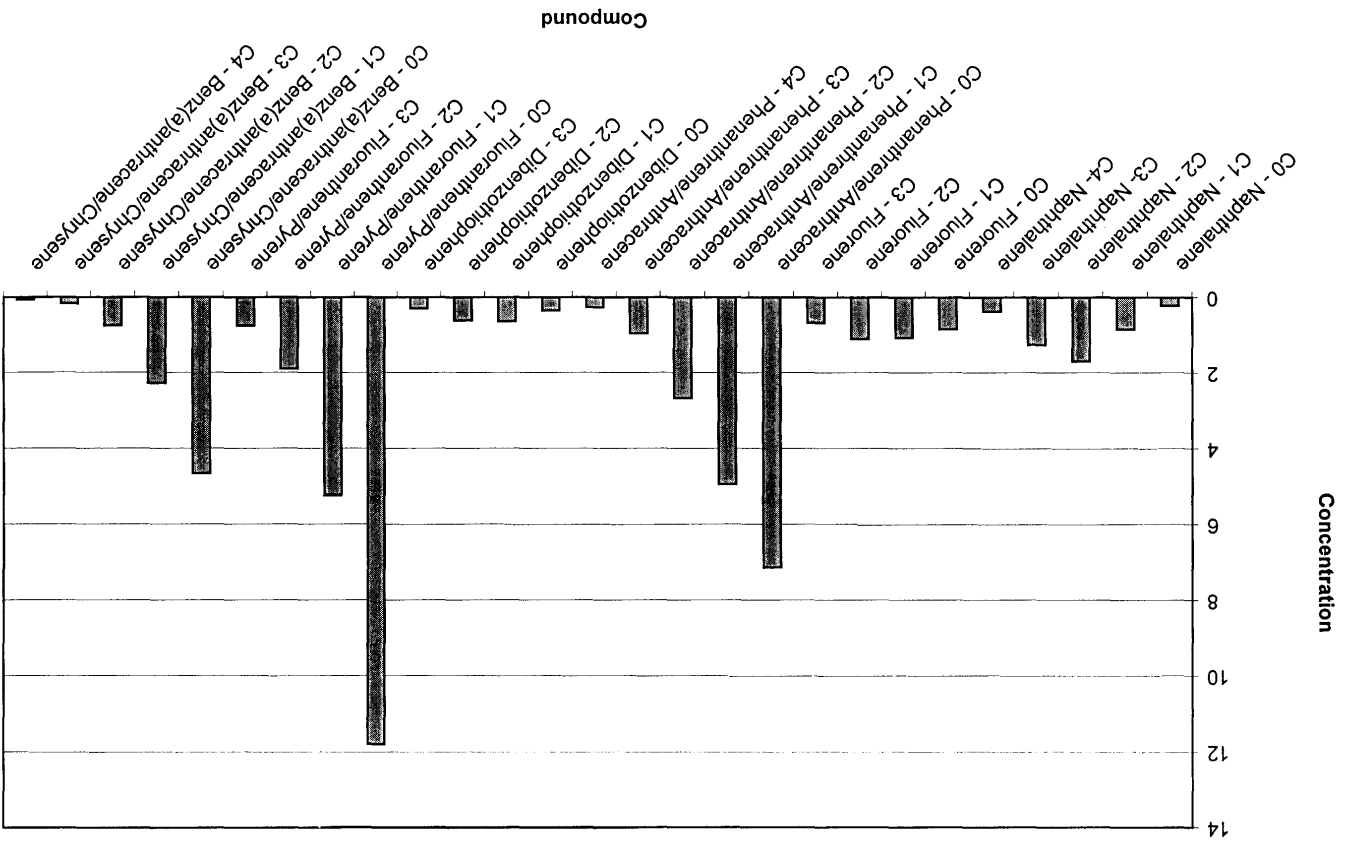
SD21 (0-2)





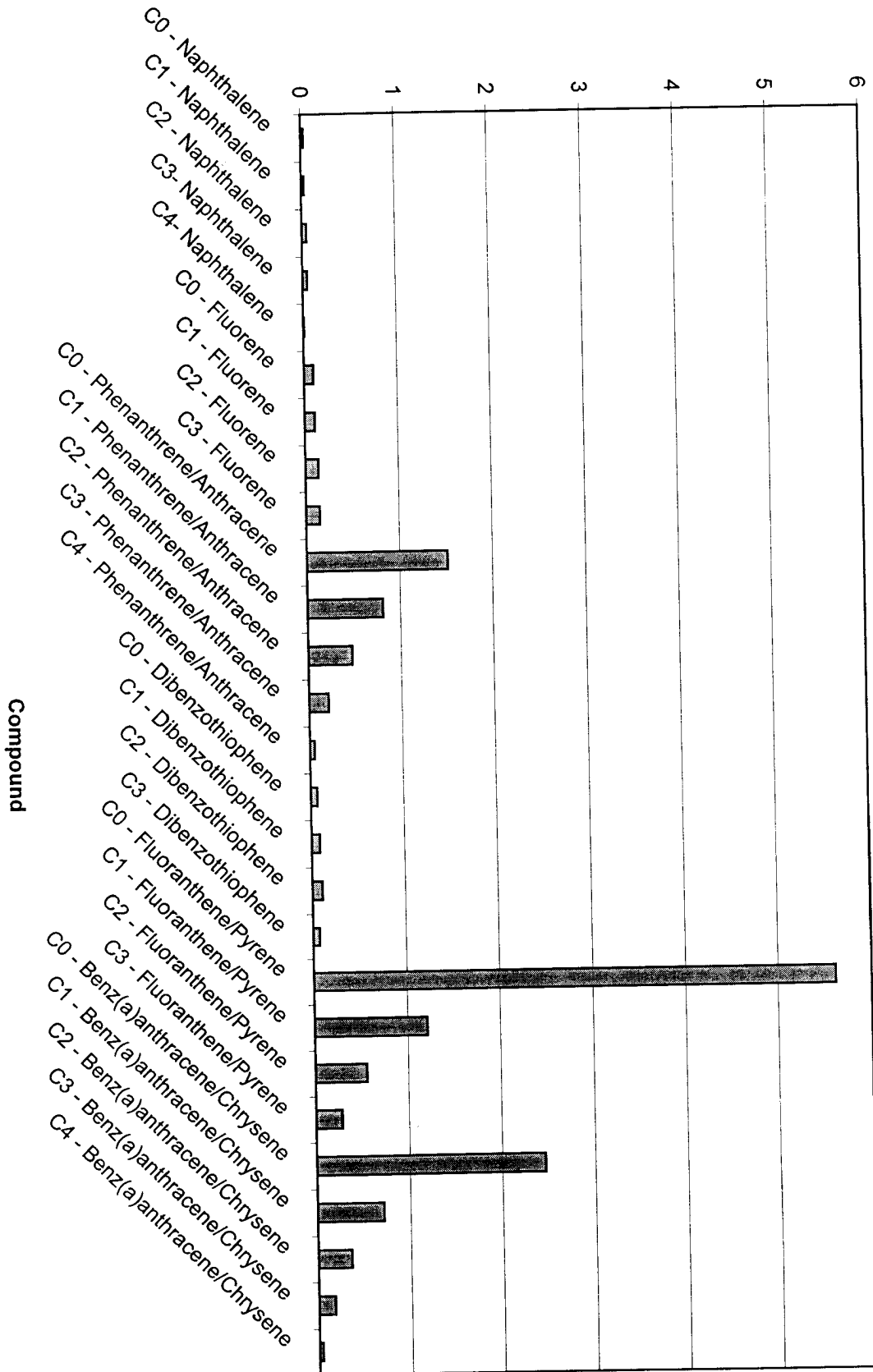
SD22 (0-2)

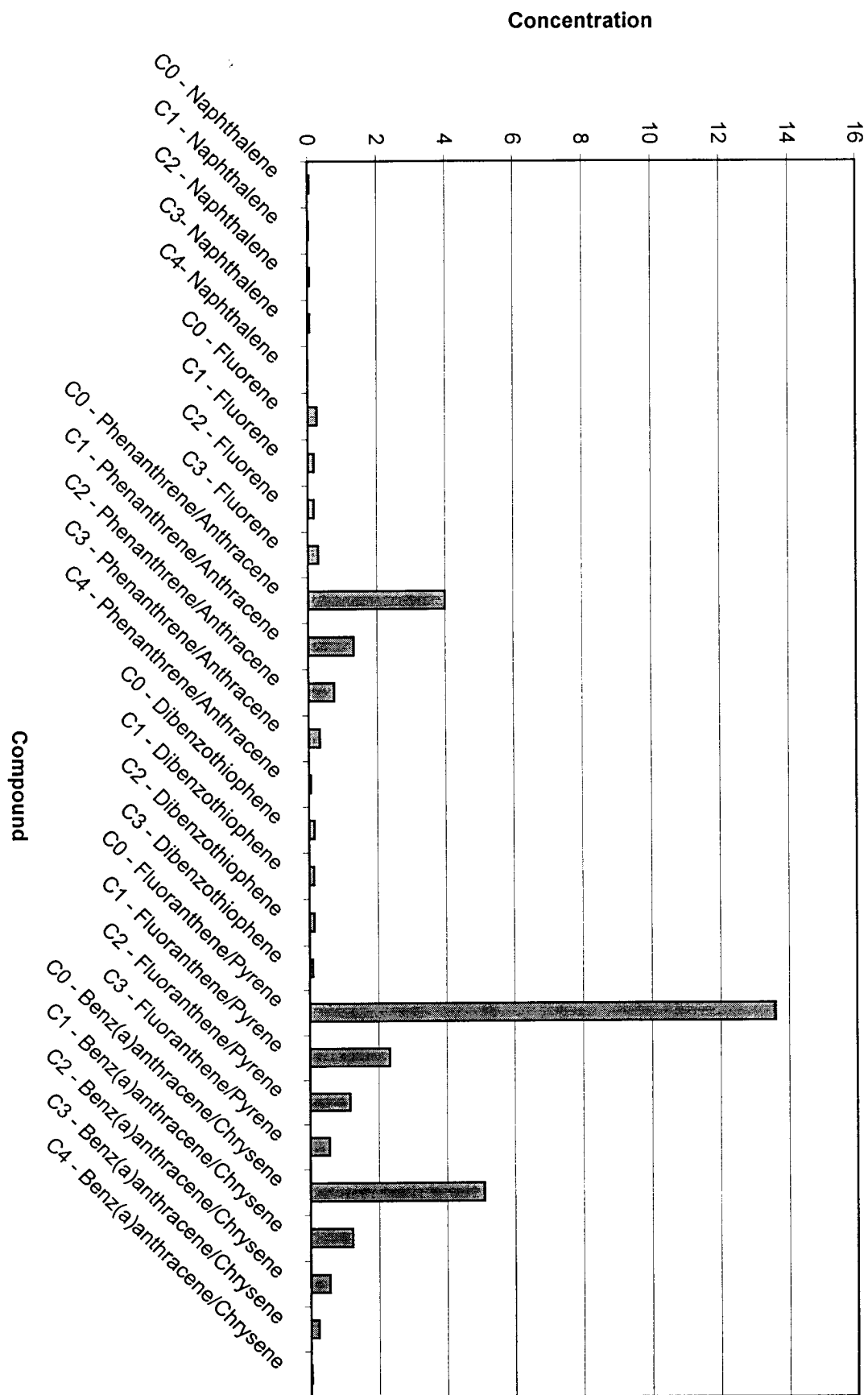




Concentration

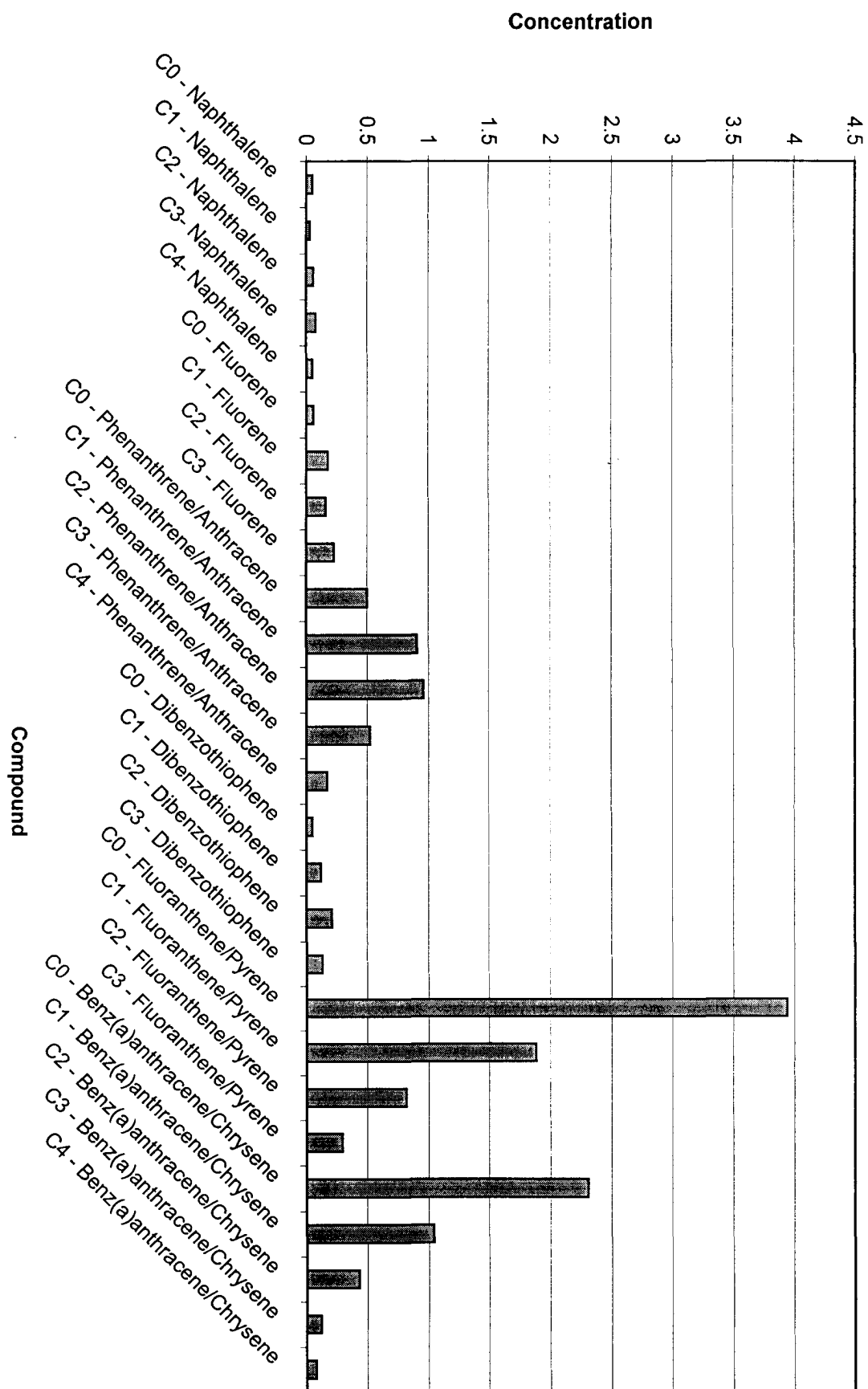
SD23 (0-2)



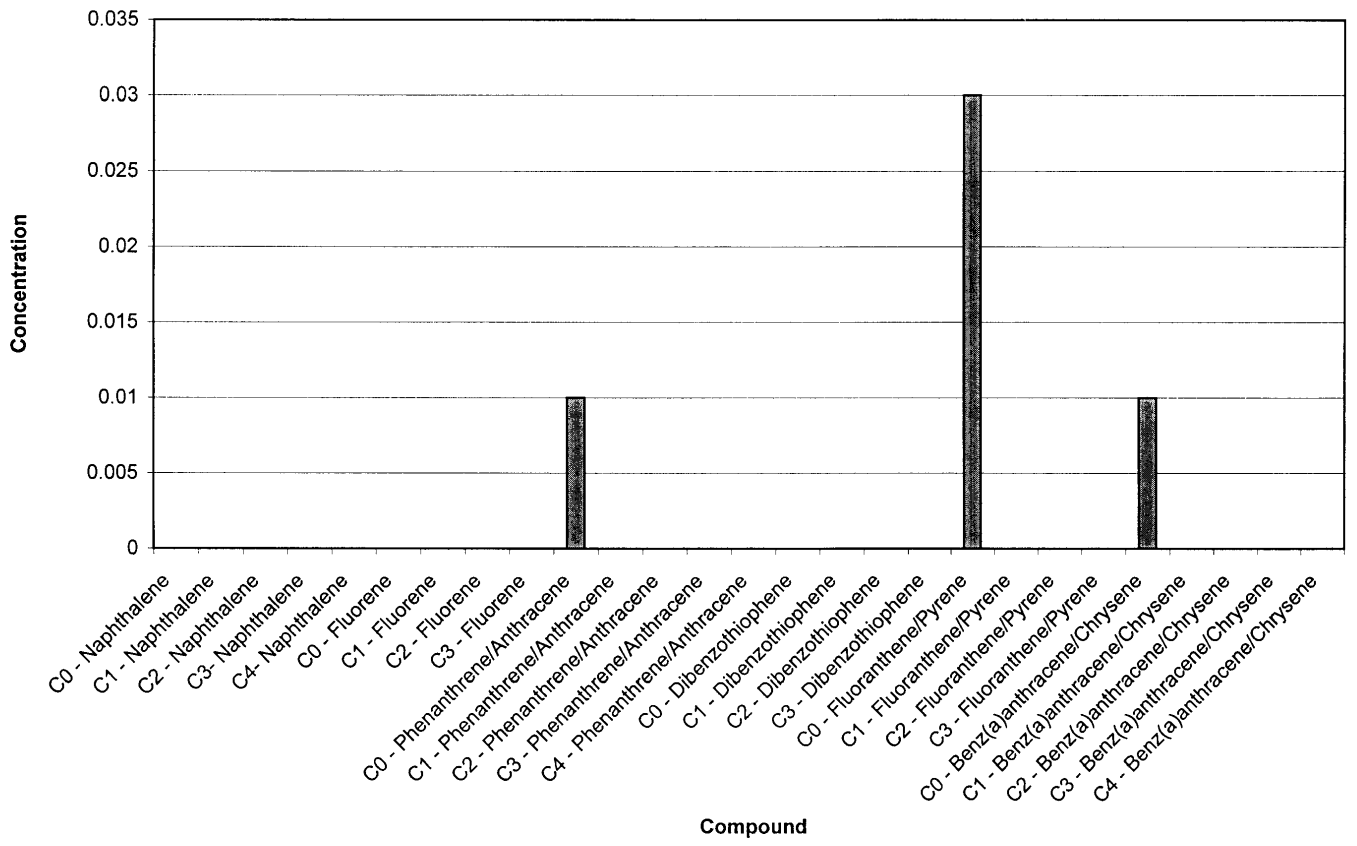




SD24 (0-2)

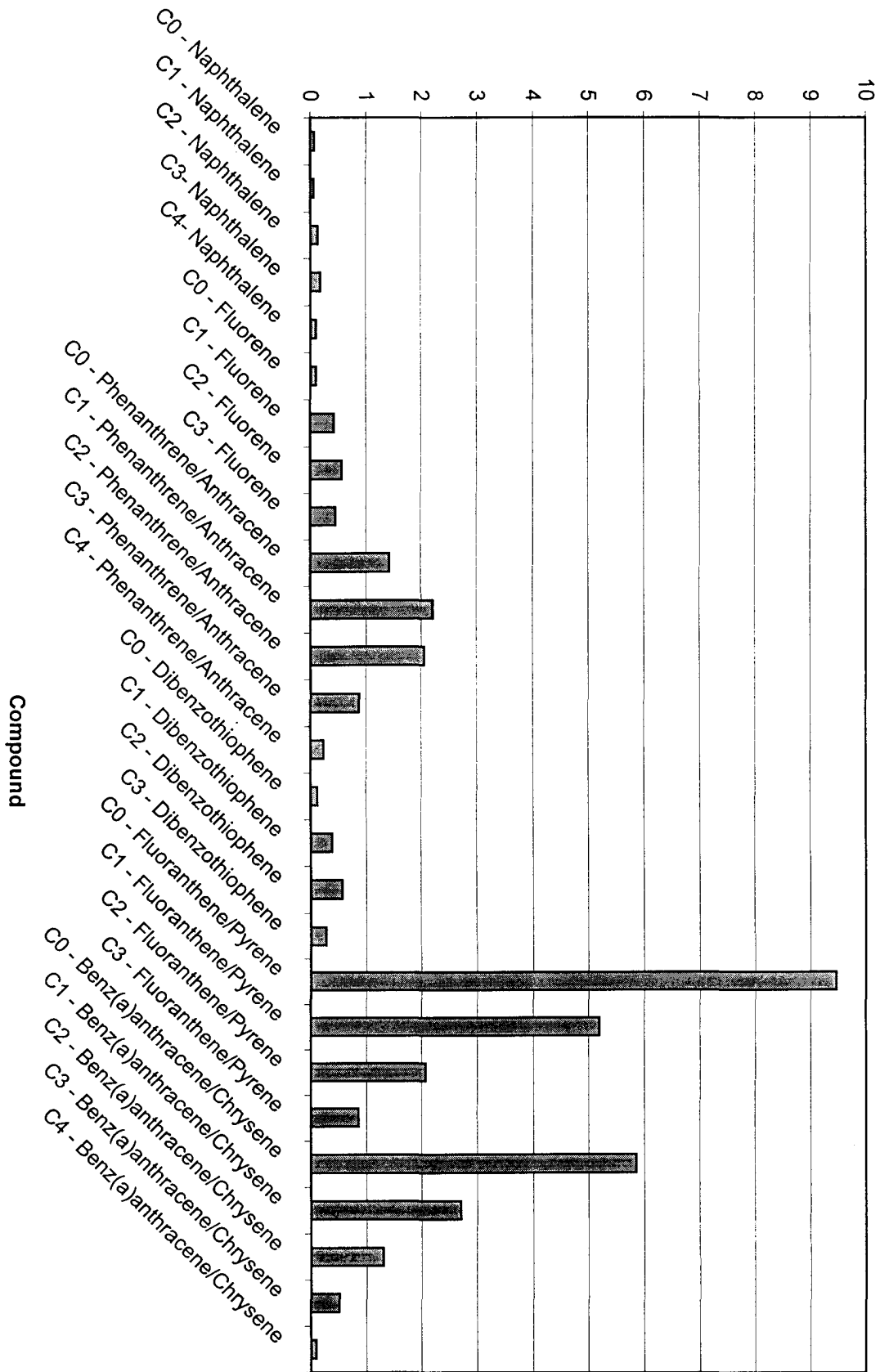


SD24 (5.2-6.0)

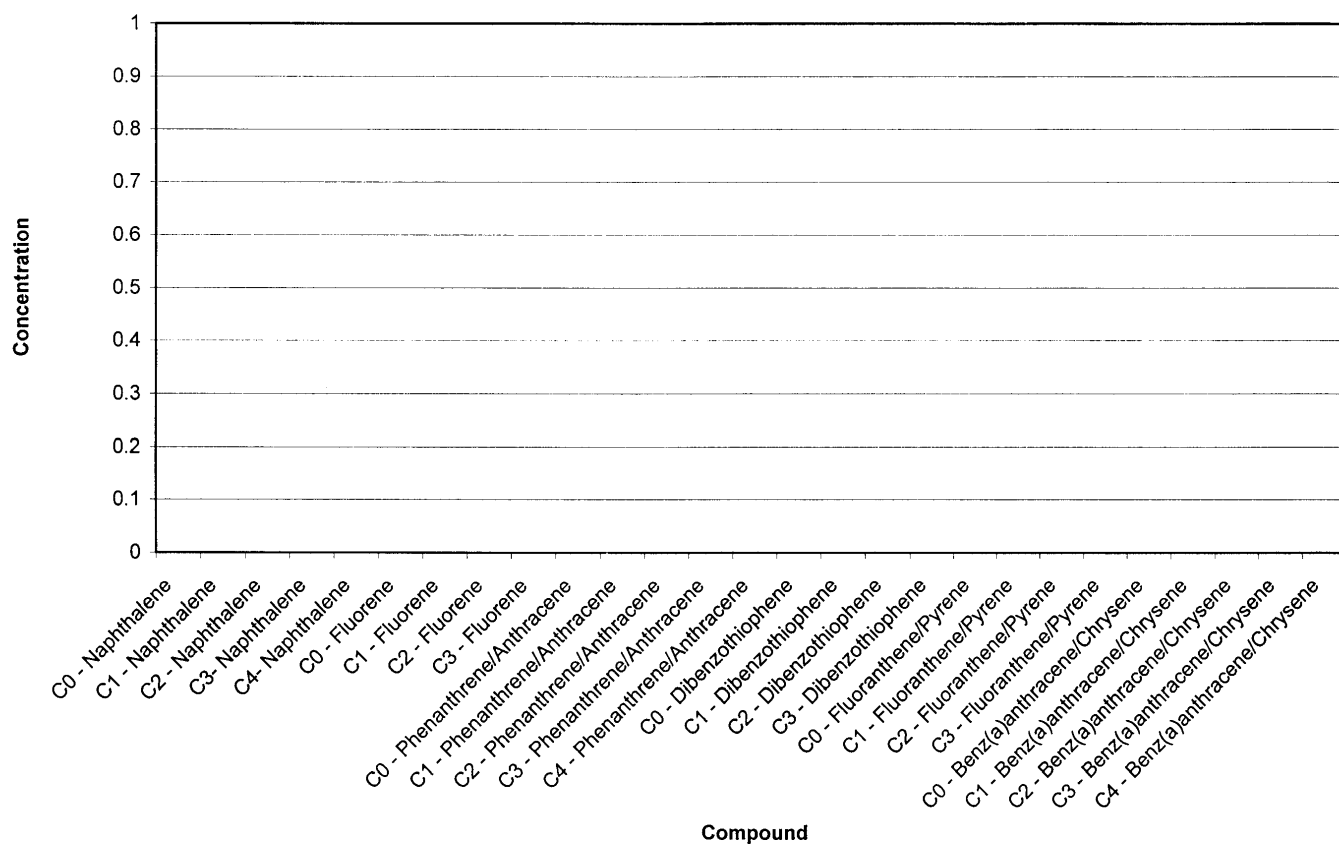


Concentration

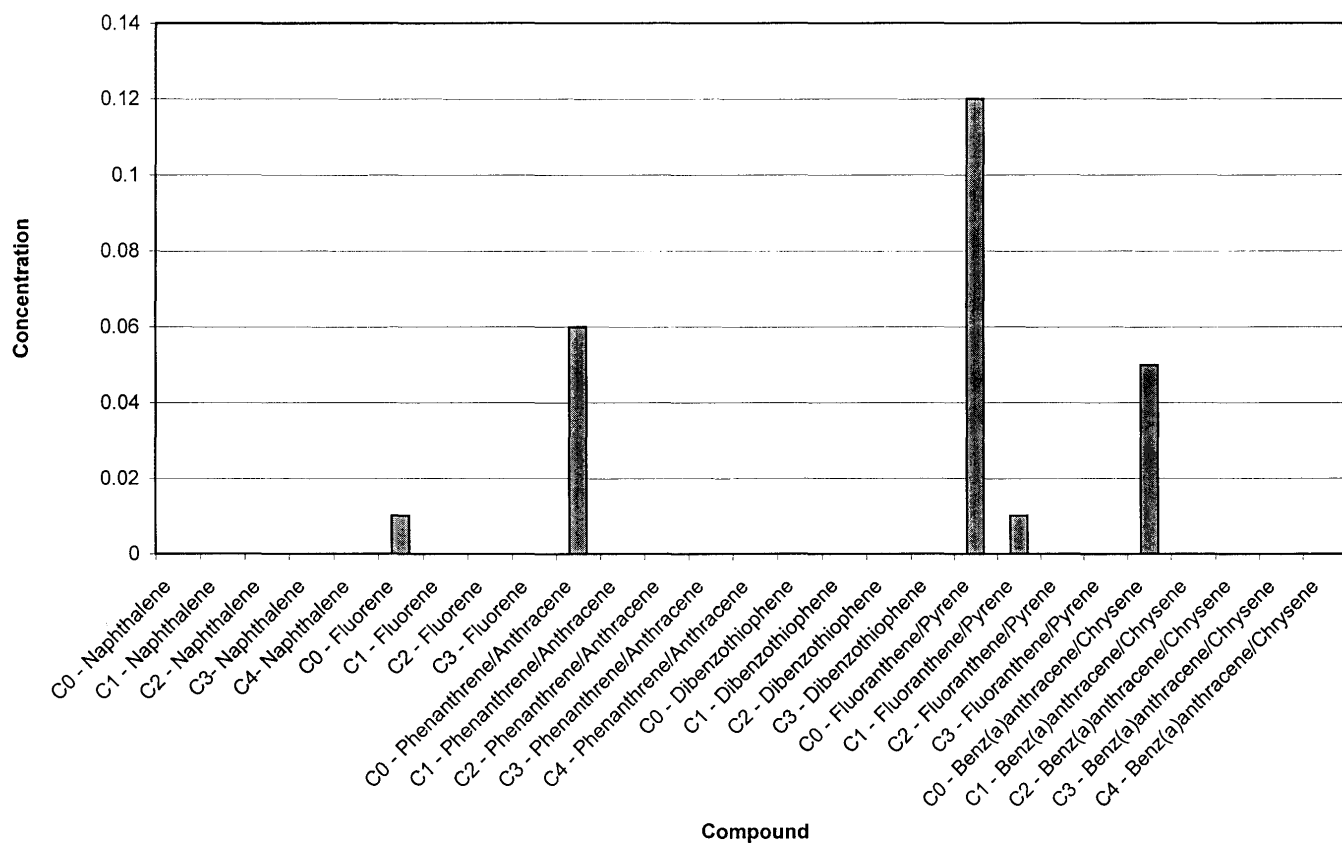
SD25 (0-2)



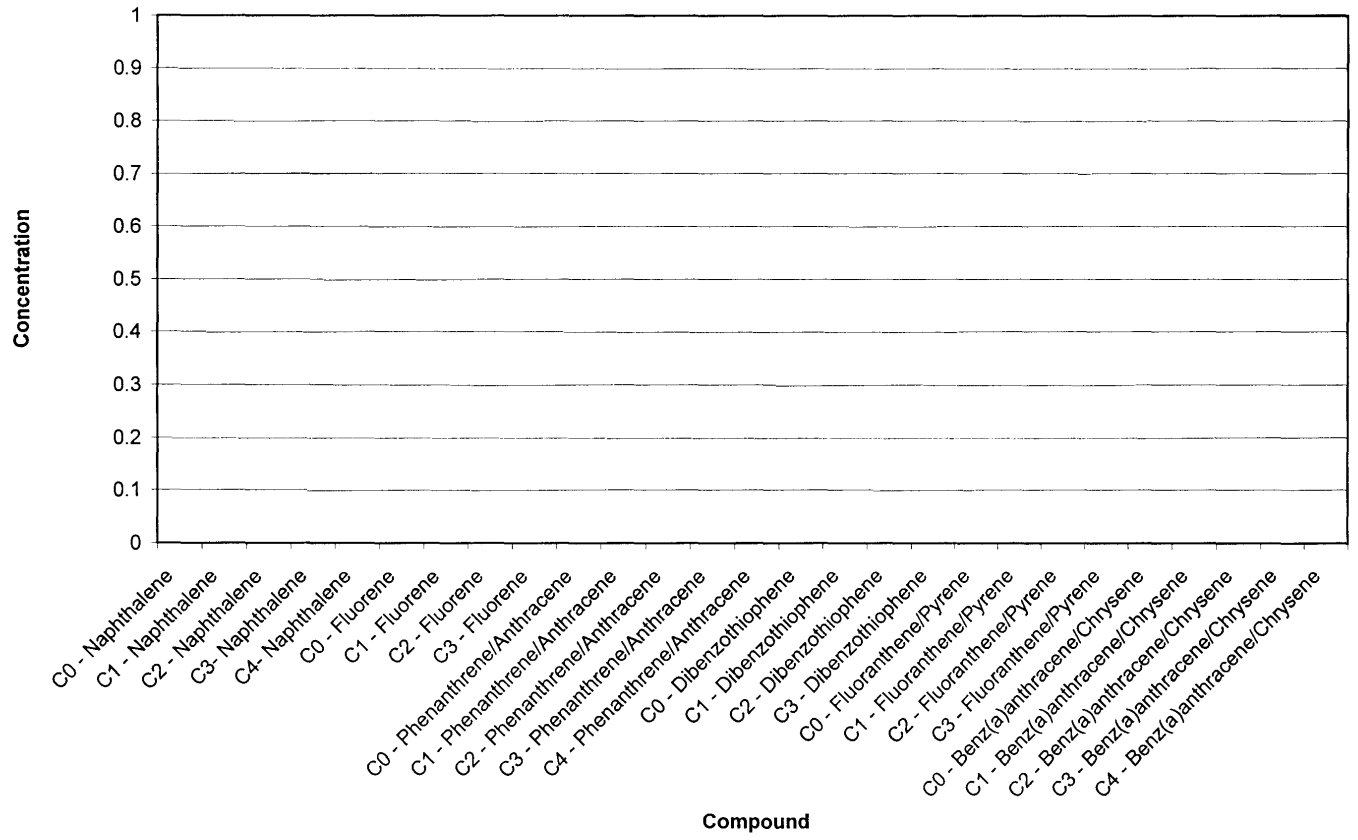
SD25 (5.3-6)



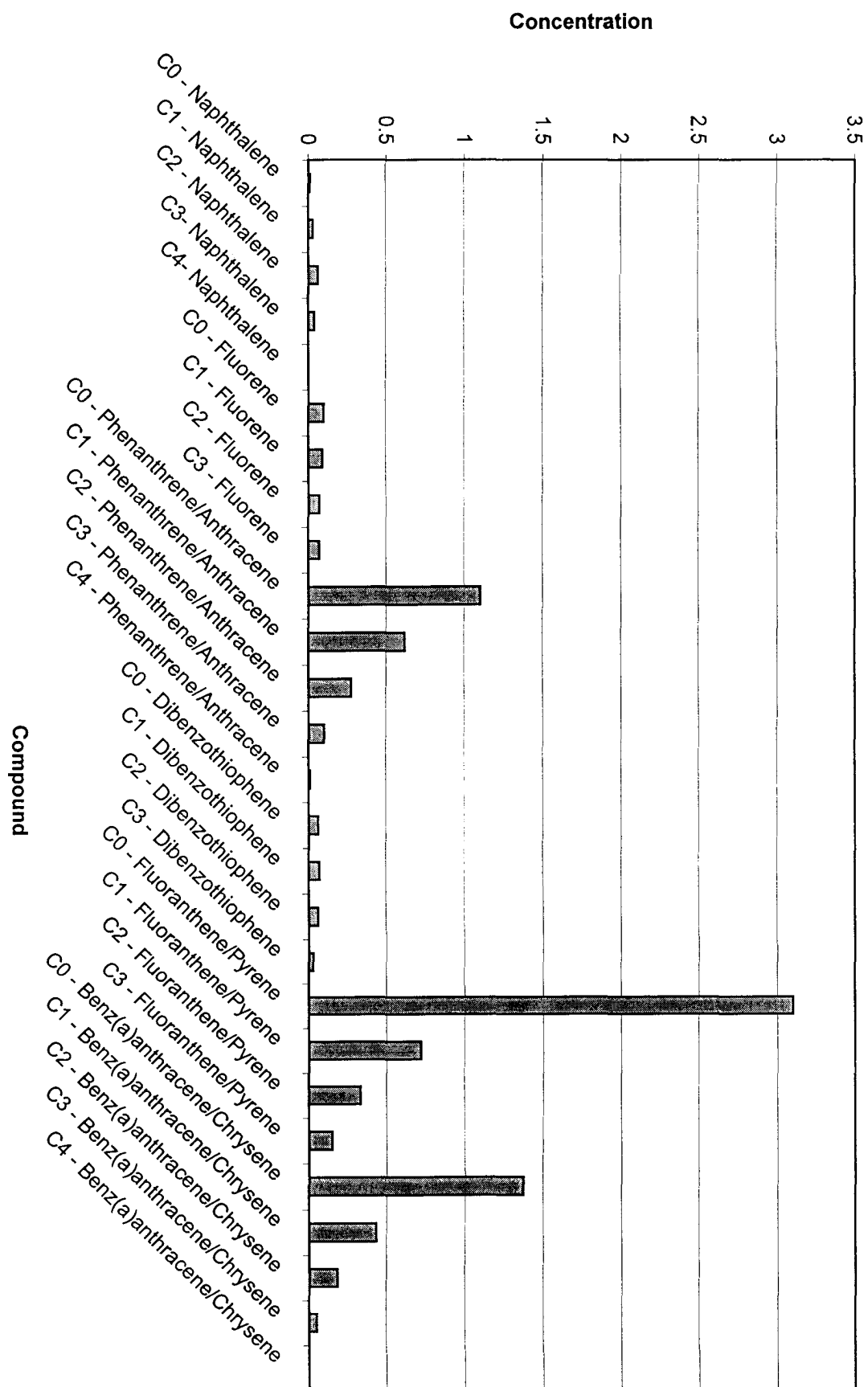
SD26 (0-2)

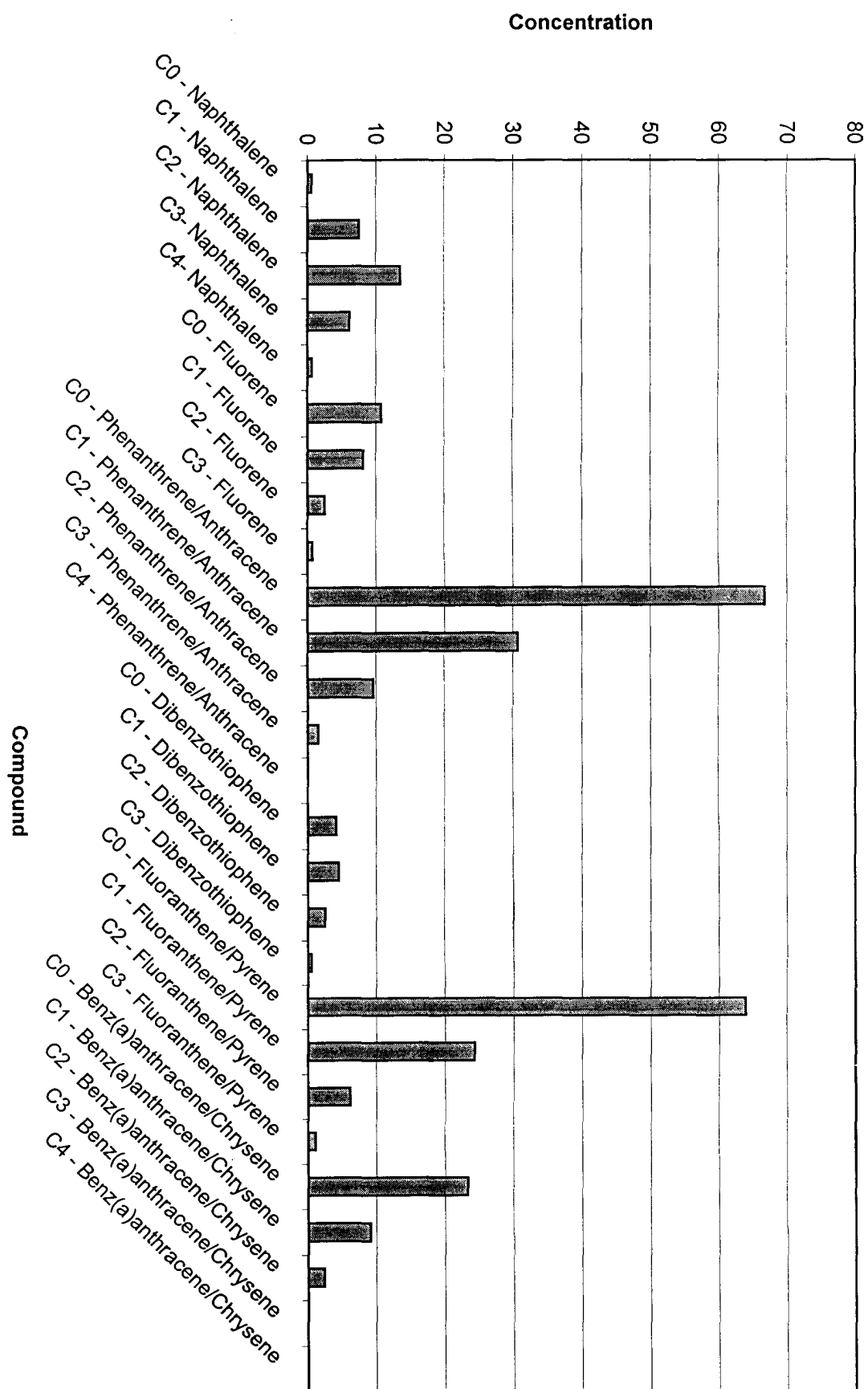


SD26 (3.5-4.5)

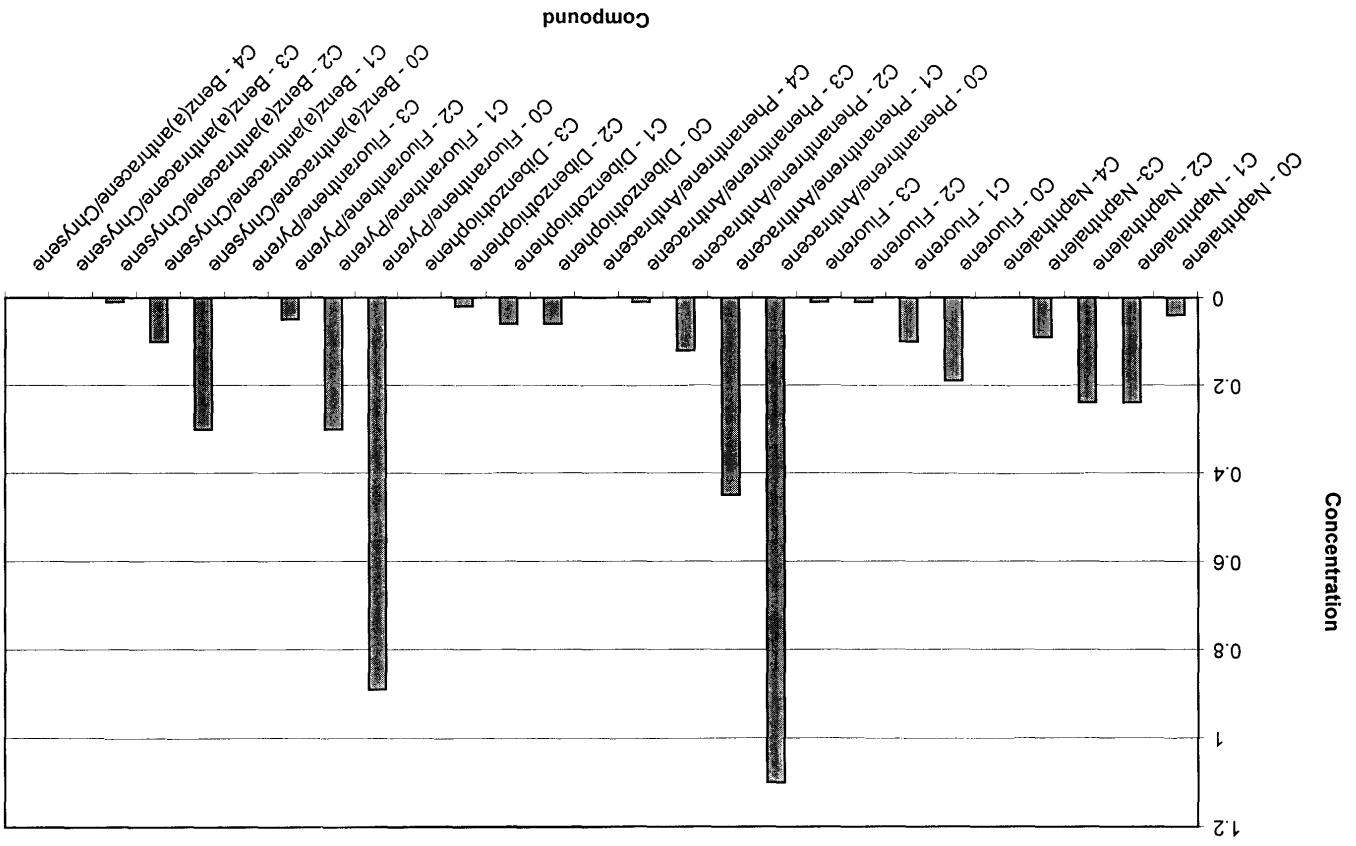


SD27 (0-2)

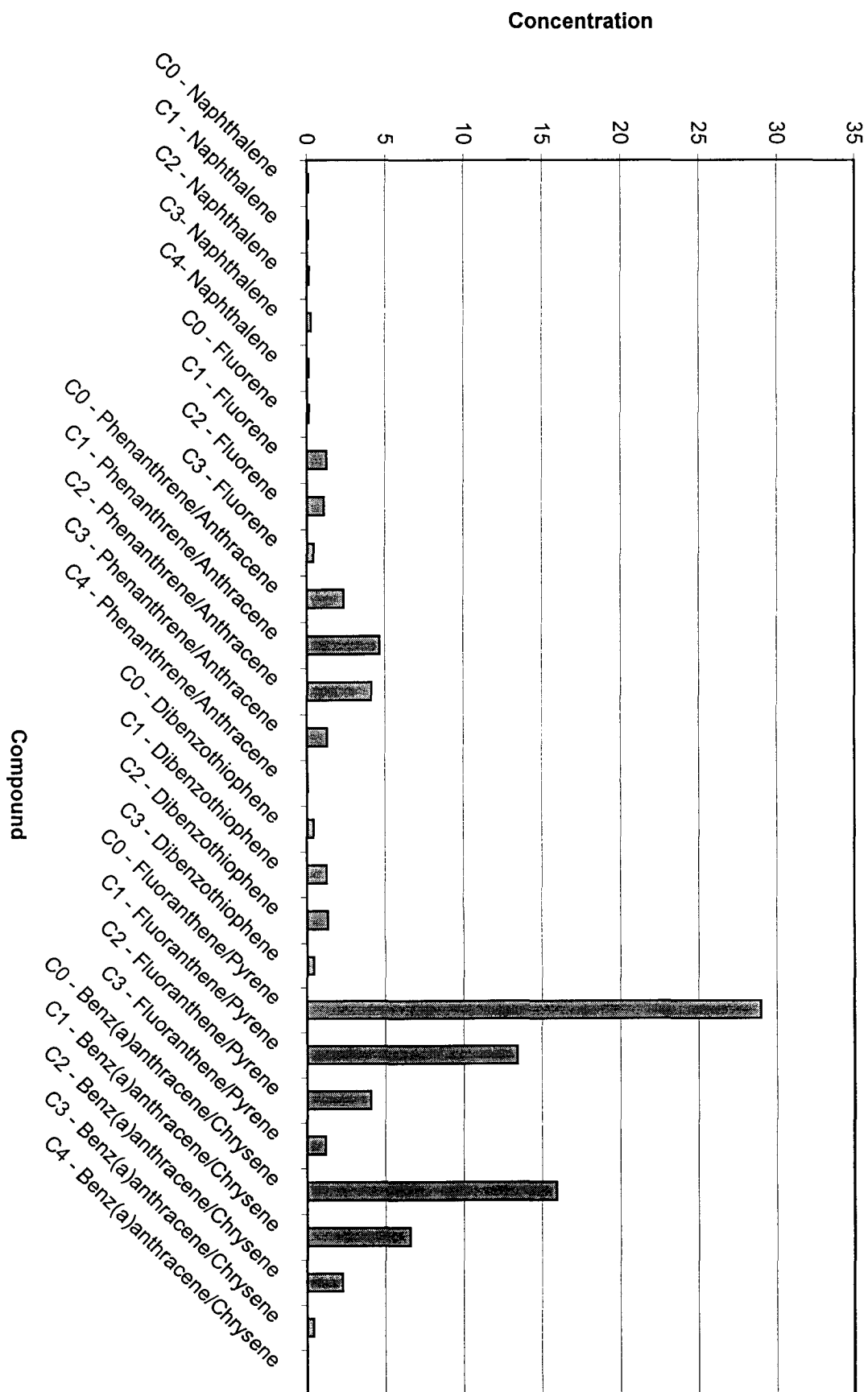




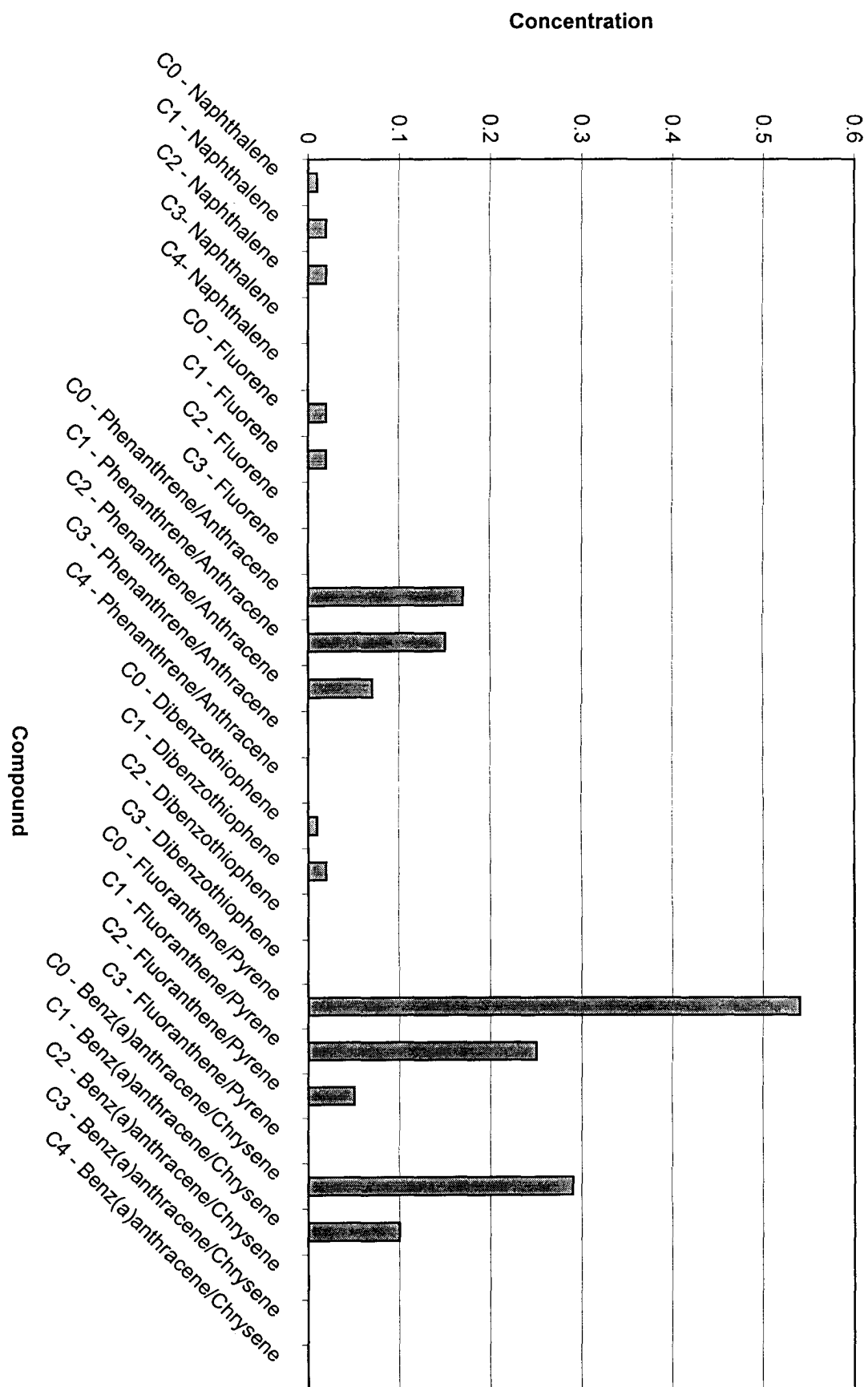


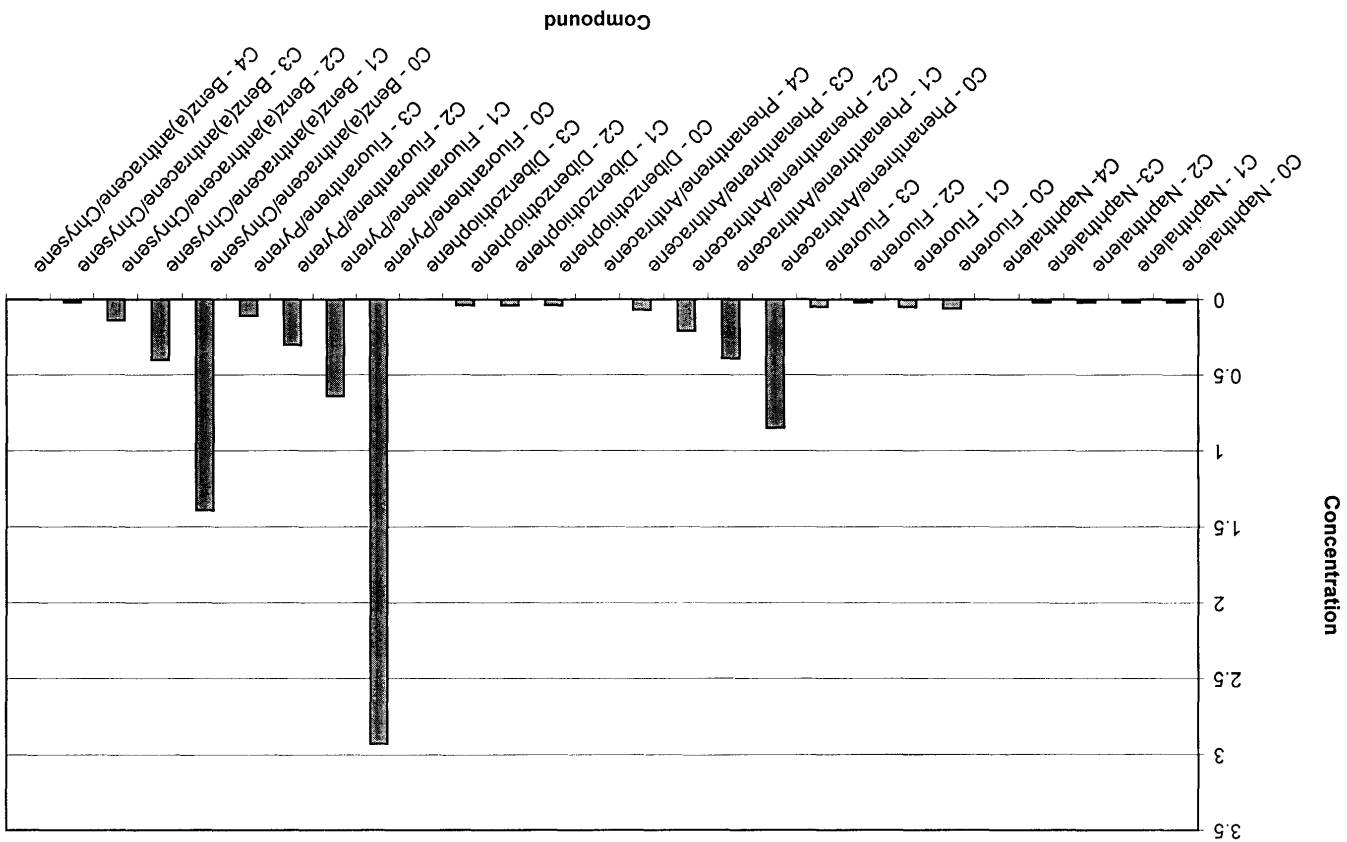


SD27 (6.4-6.9)



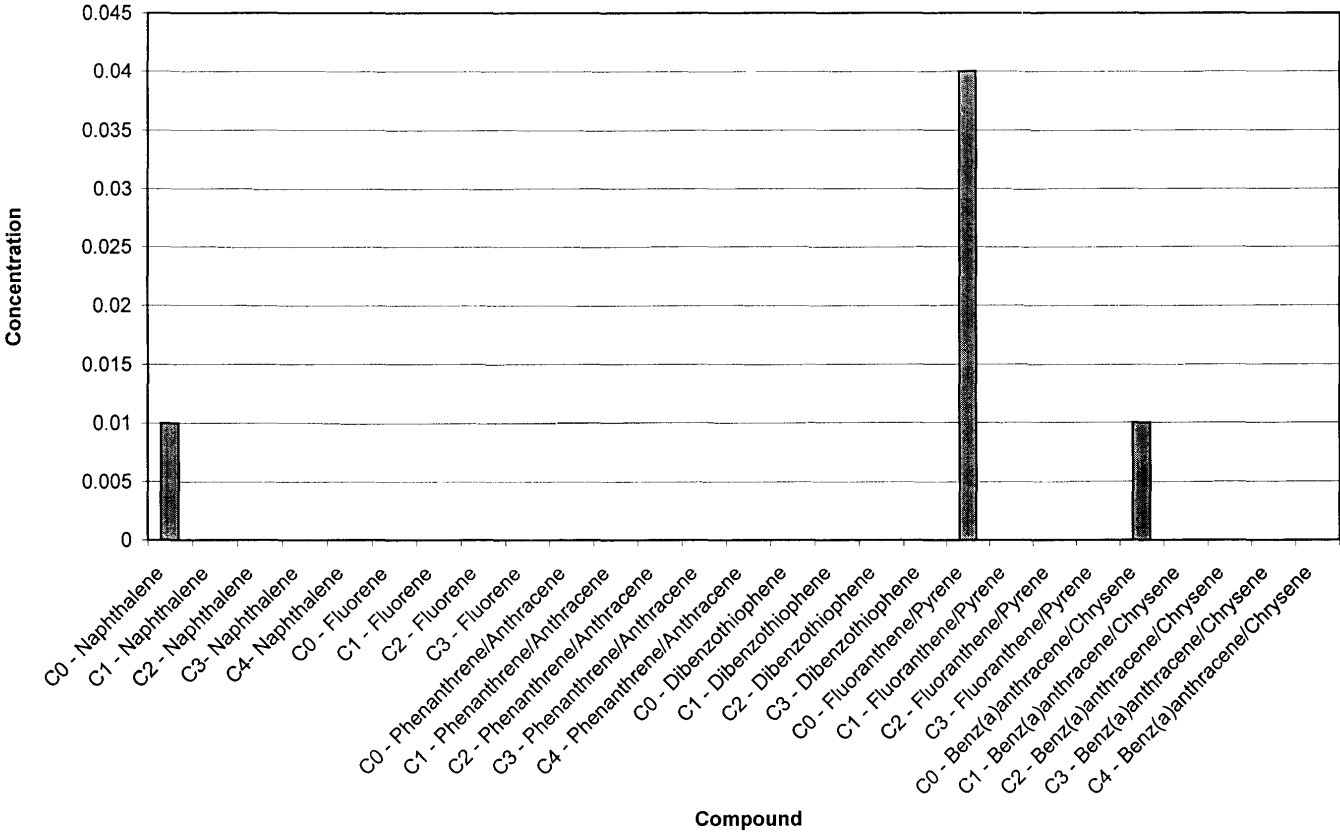
SD28 (3-4.5)





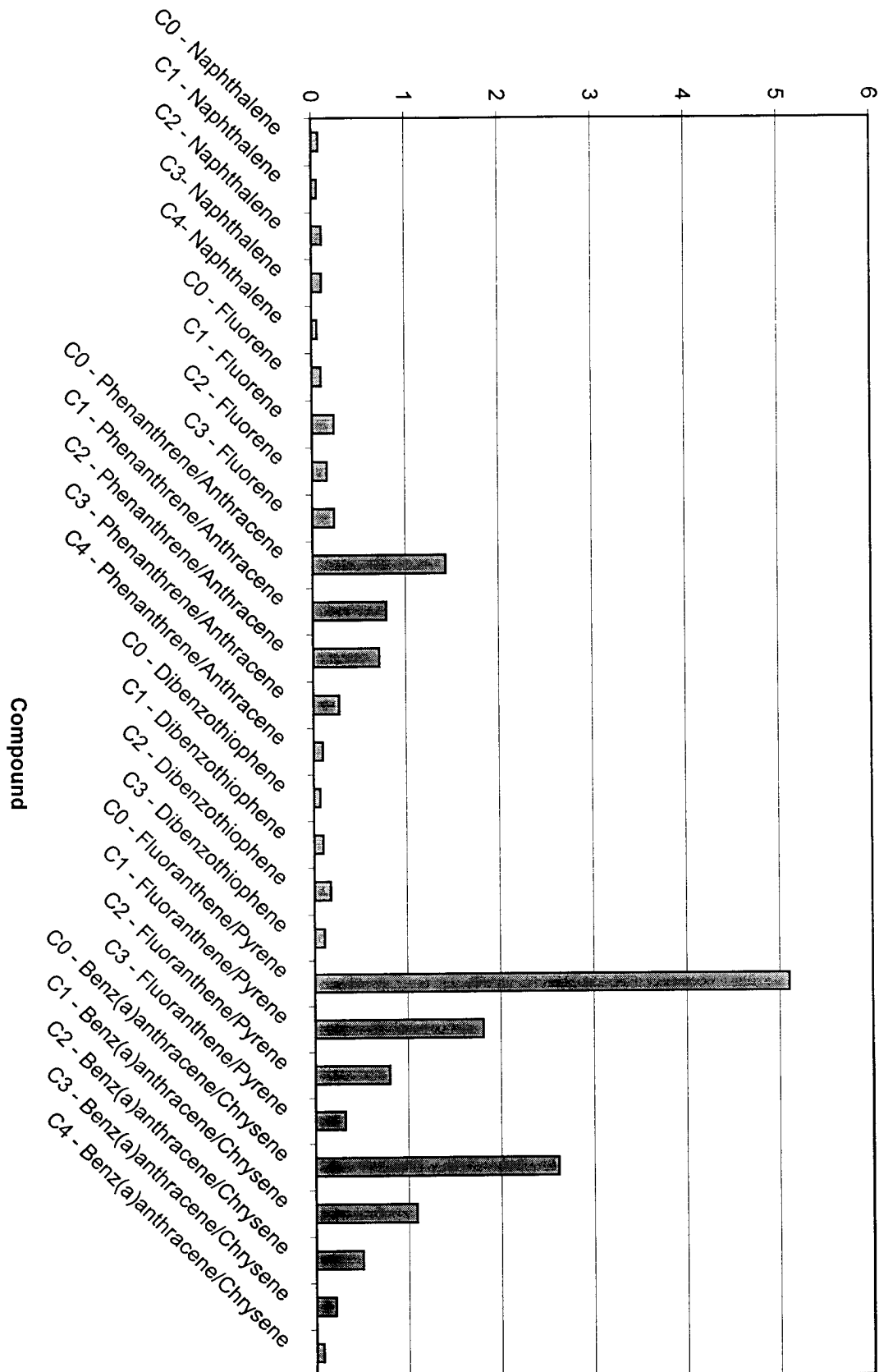
SD29 (0-2)

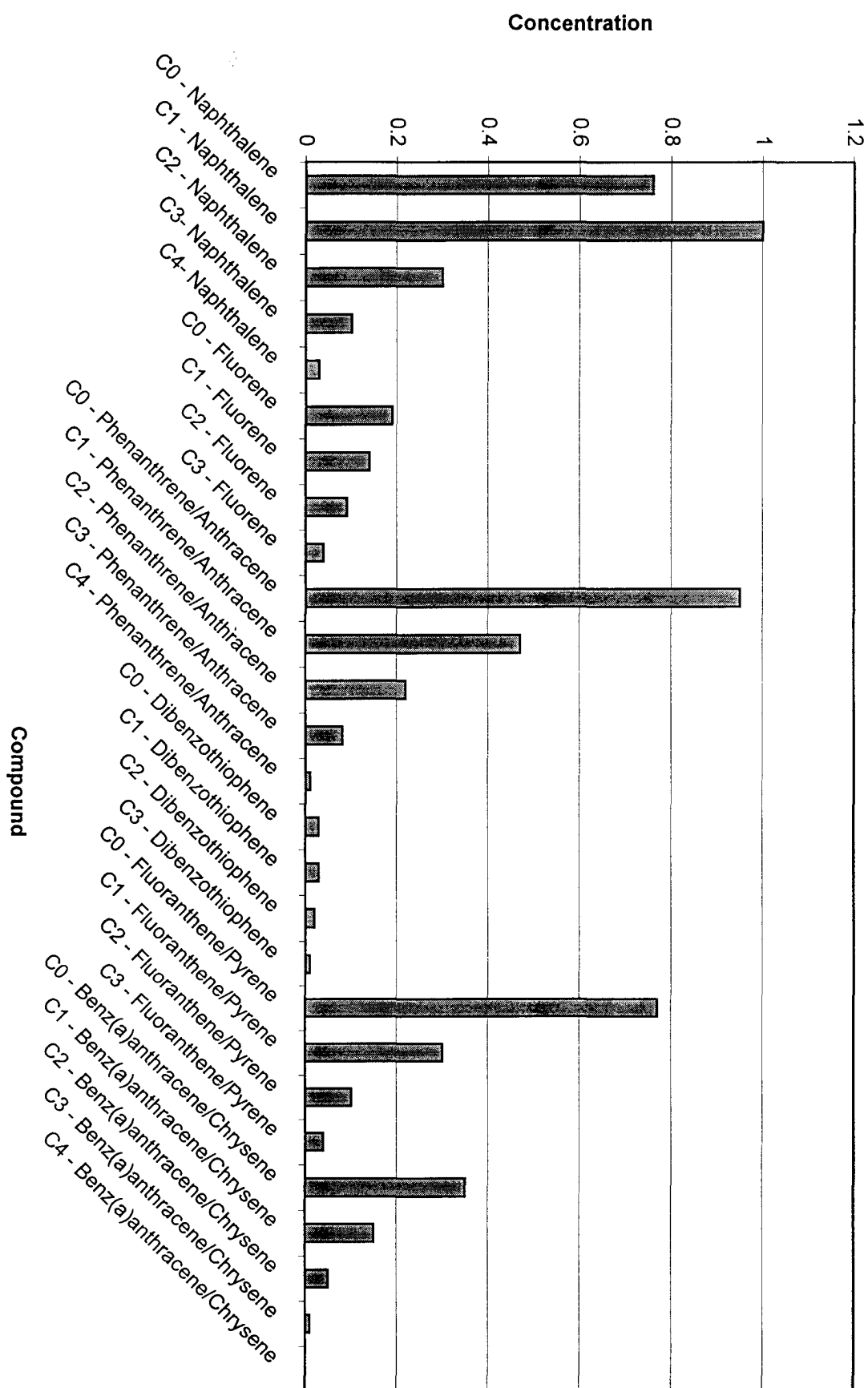
SD29 (2.8-3.6)

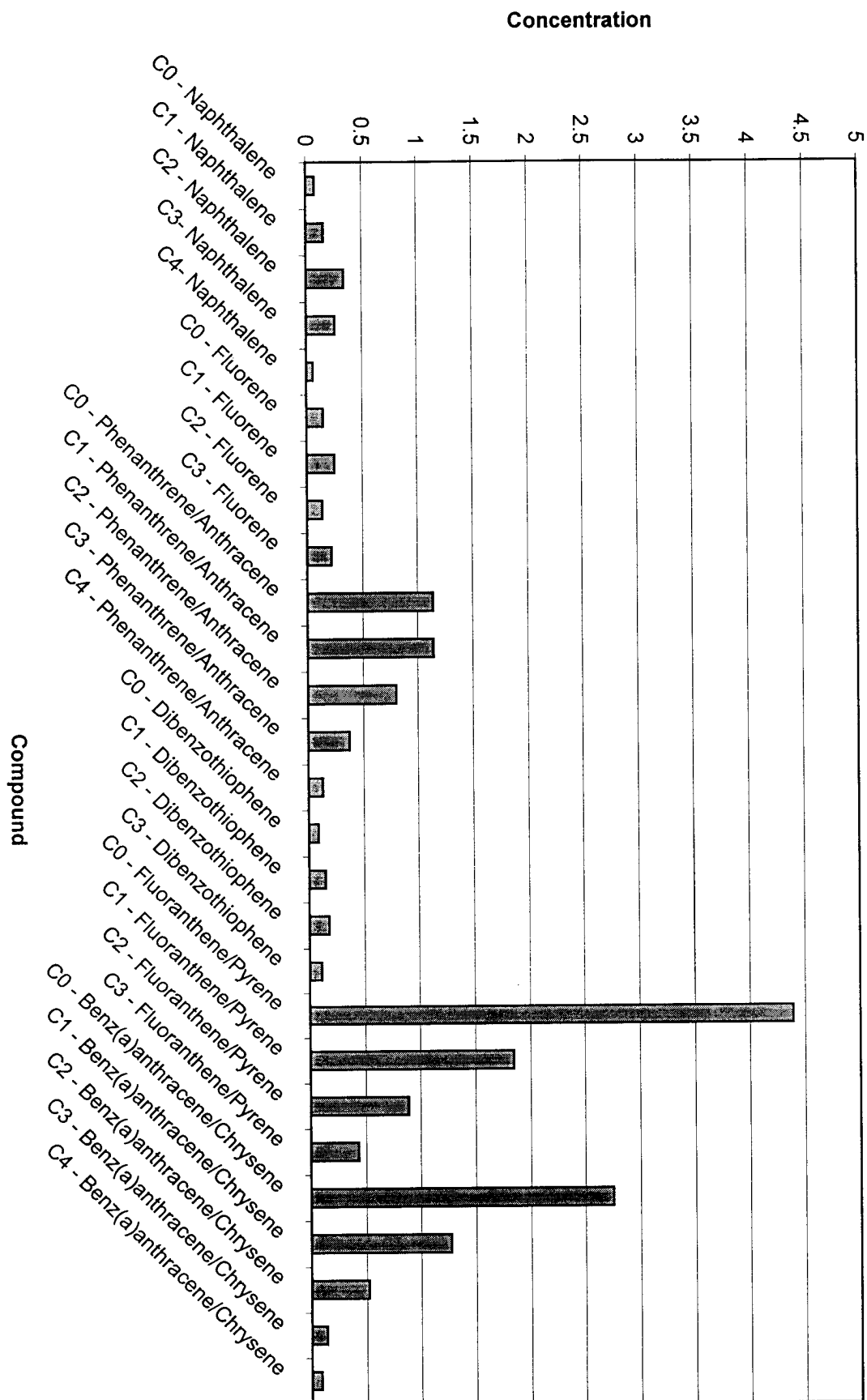


Concentration

SD3 (0.0-0.2)

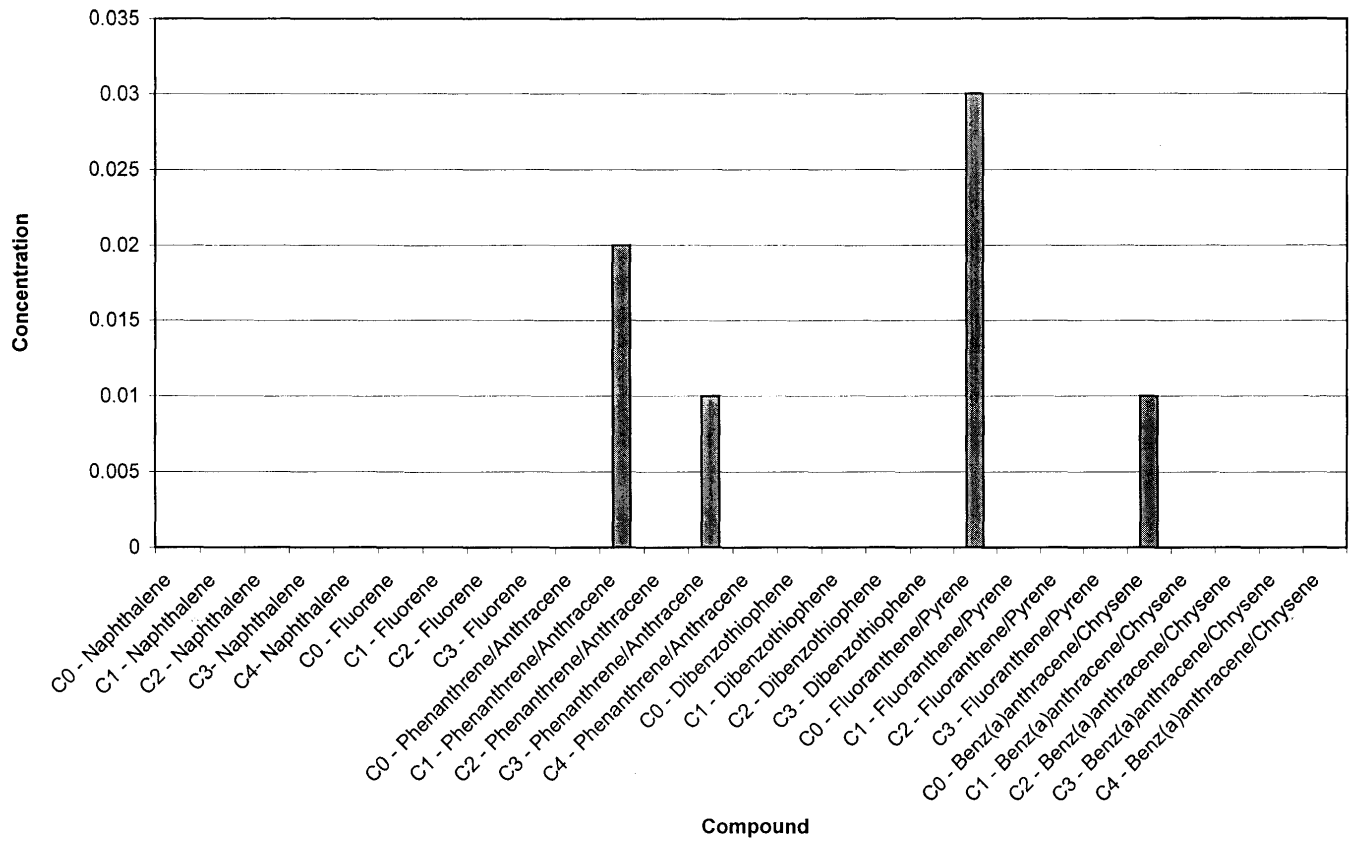






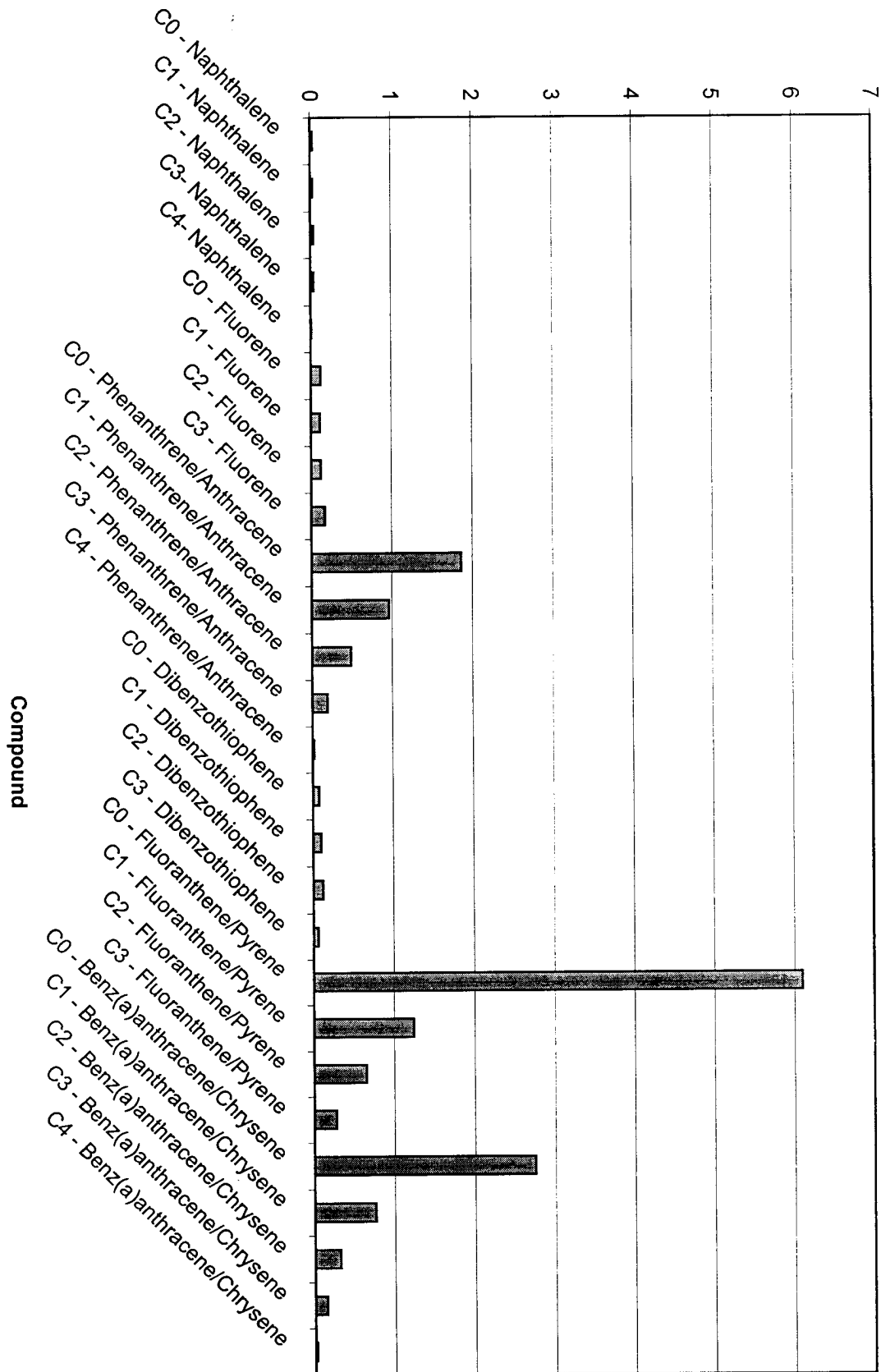


SD30 (4.5-5.6)

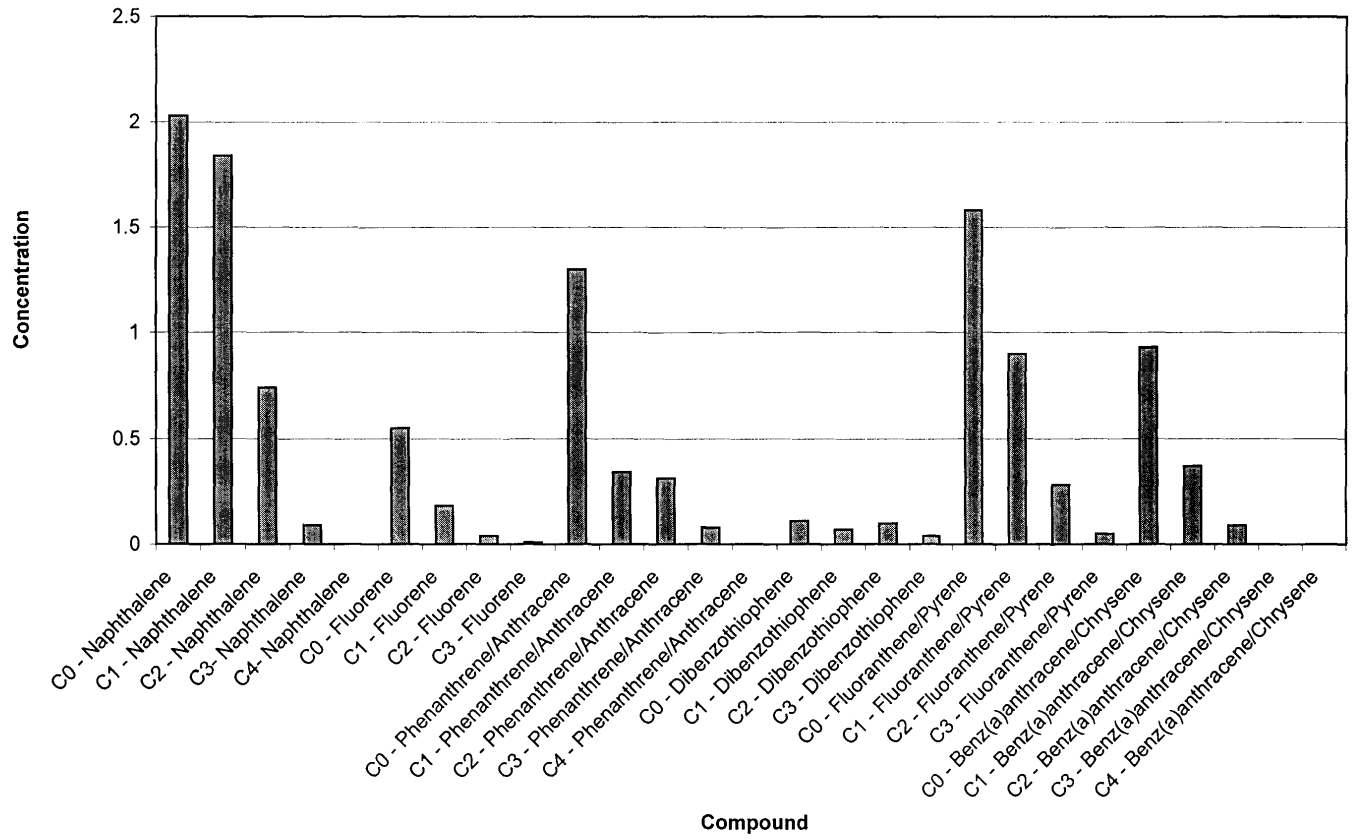


Concentration

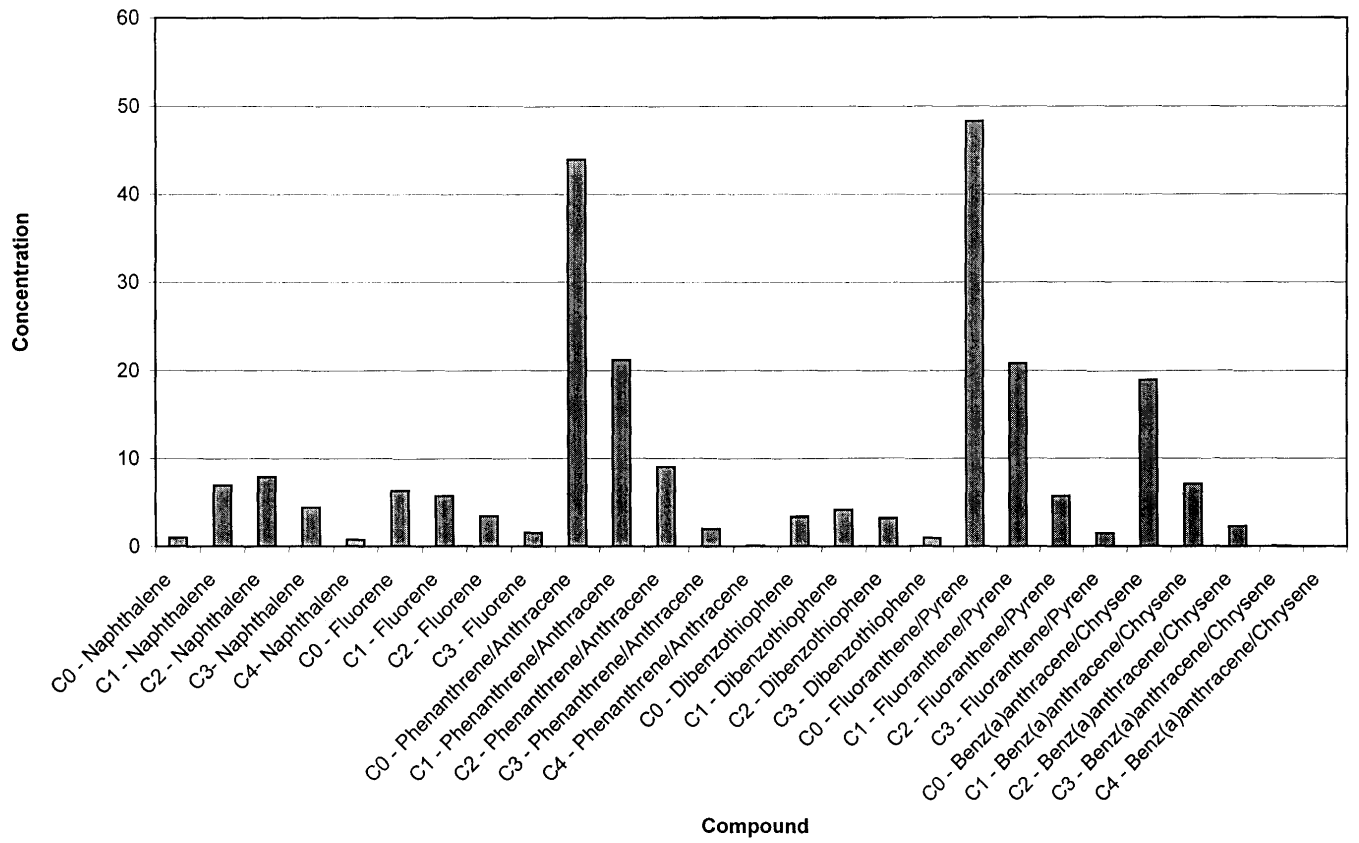
SD31 (0-2)



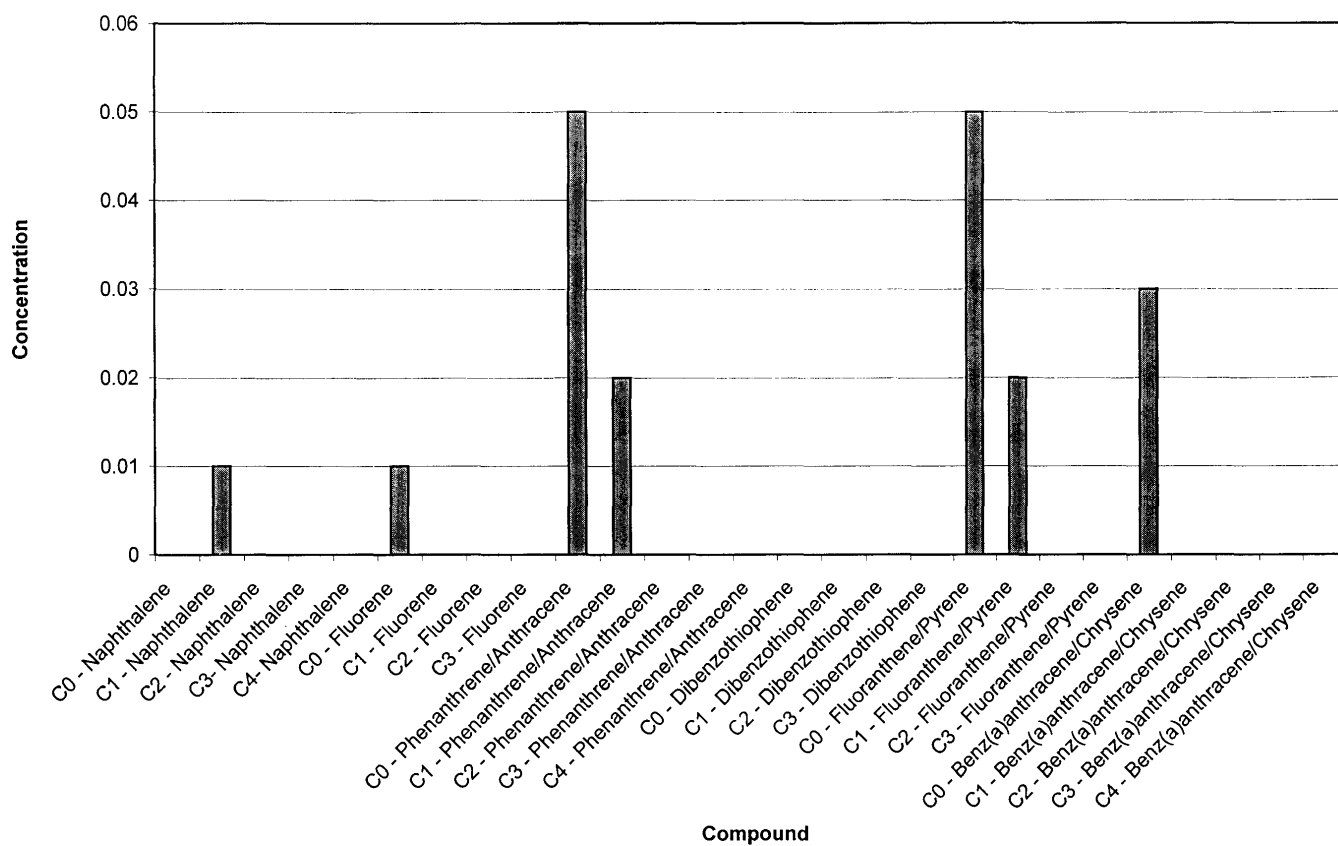
SD31 (2.6-3.6)

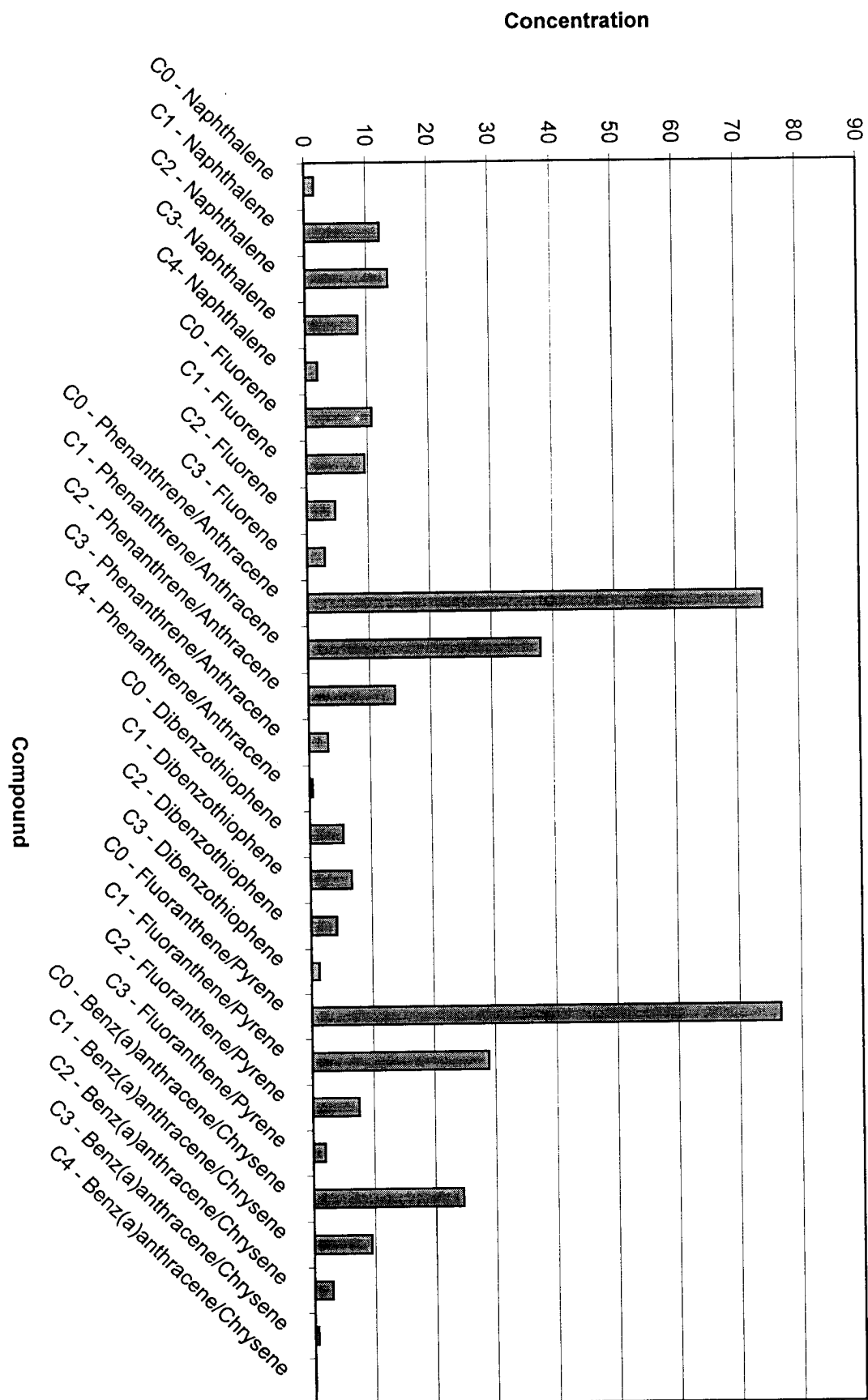


SD32 (0-2)

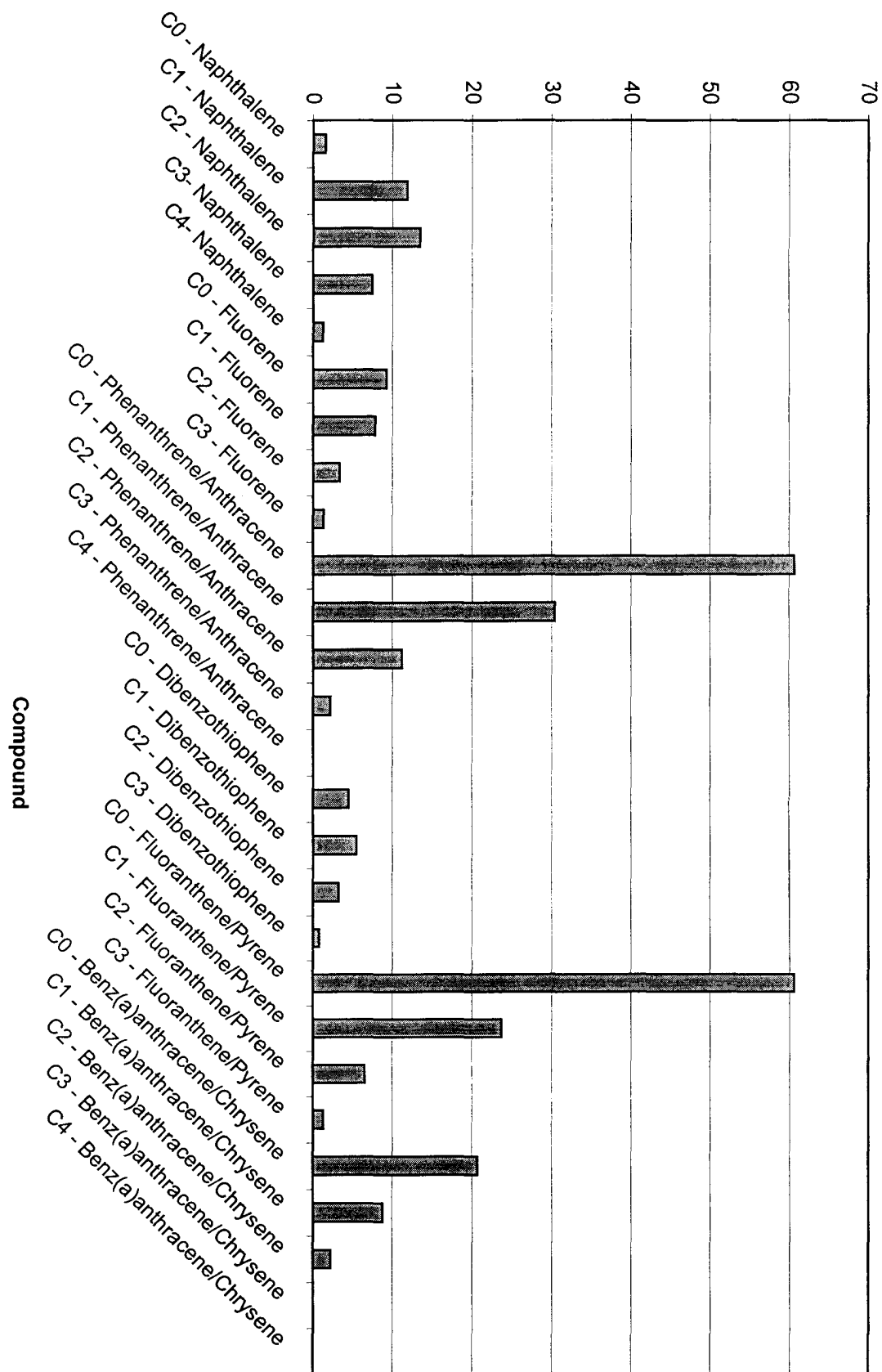


SD32 (3.5-4.2)



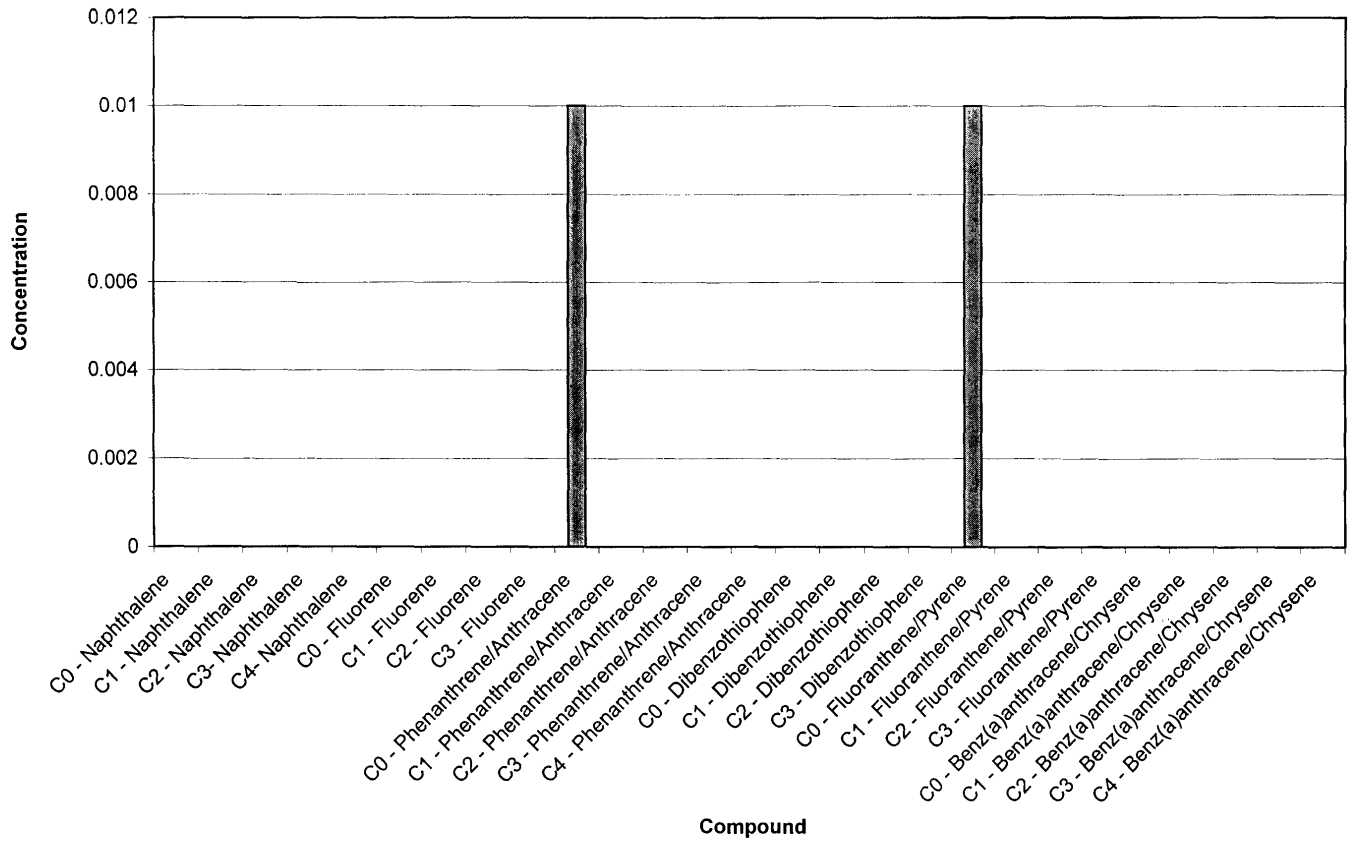


Concentration



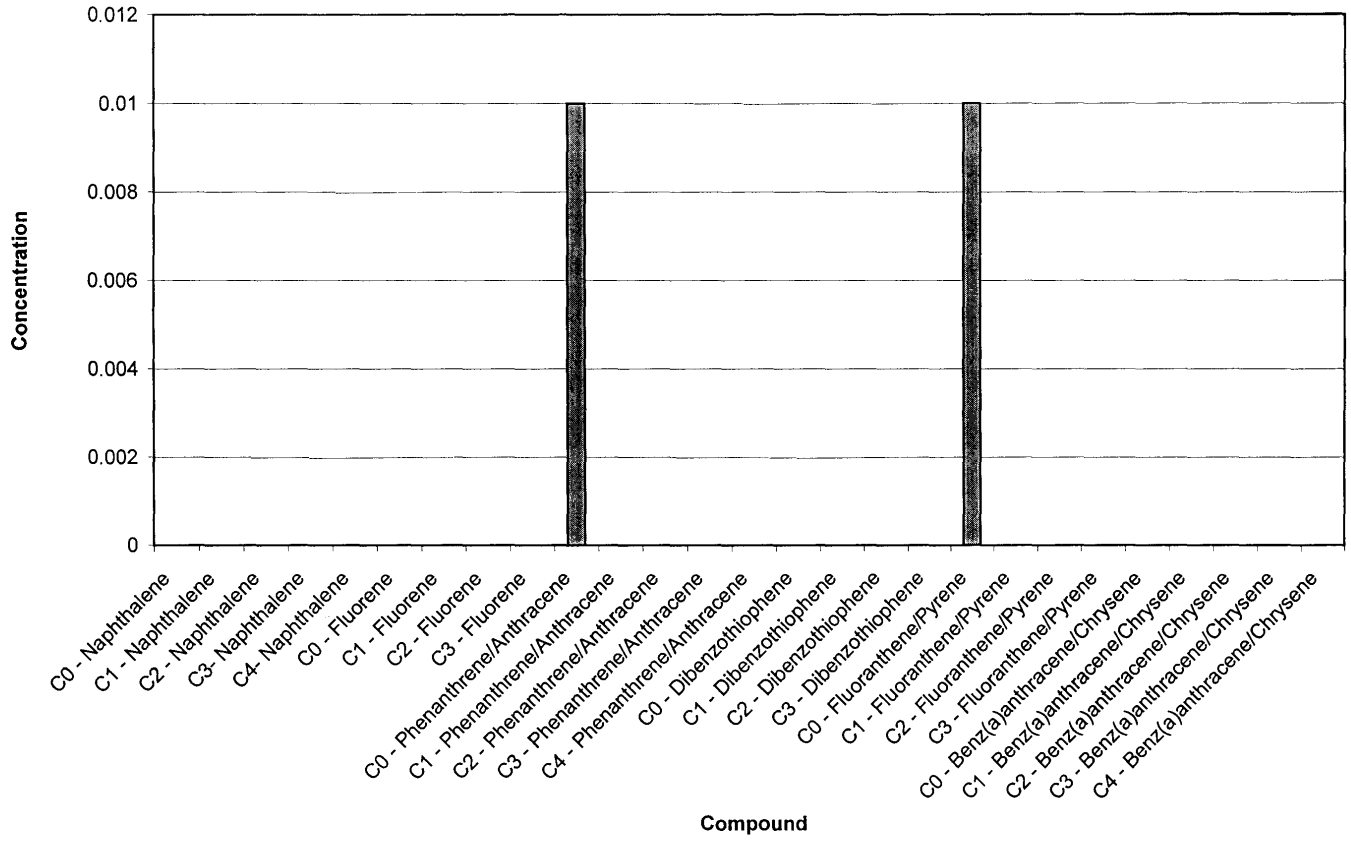
SD320 (0-2)

SD33 (0-2)

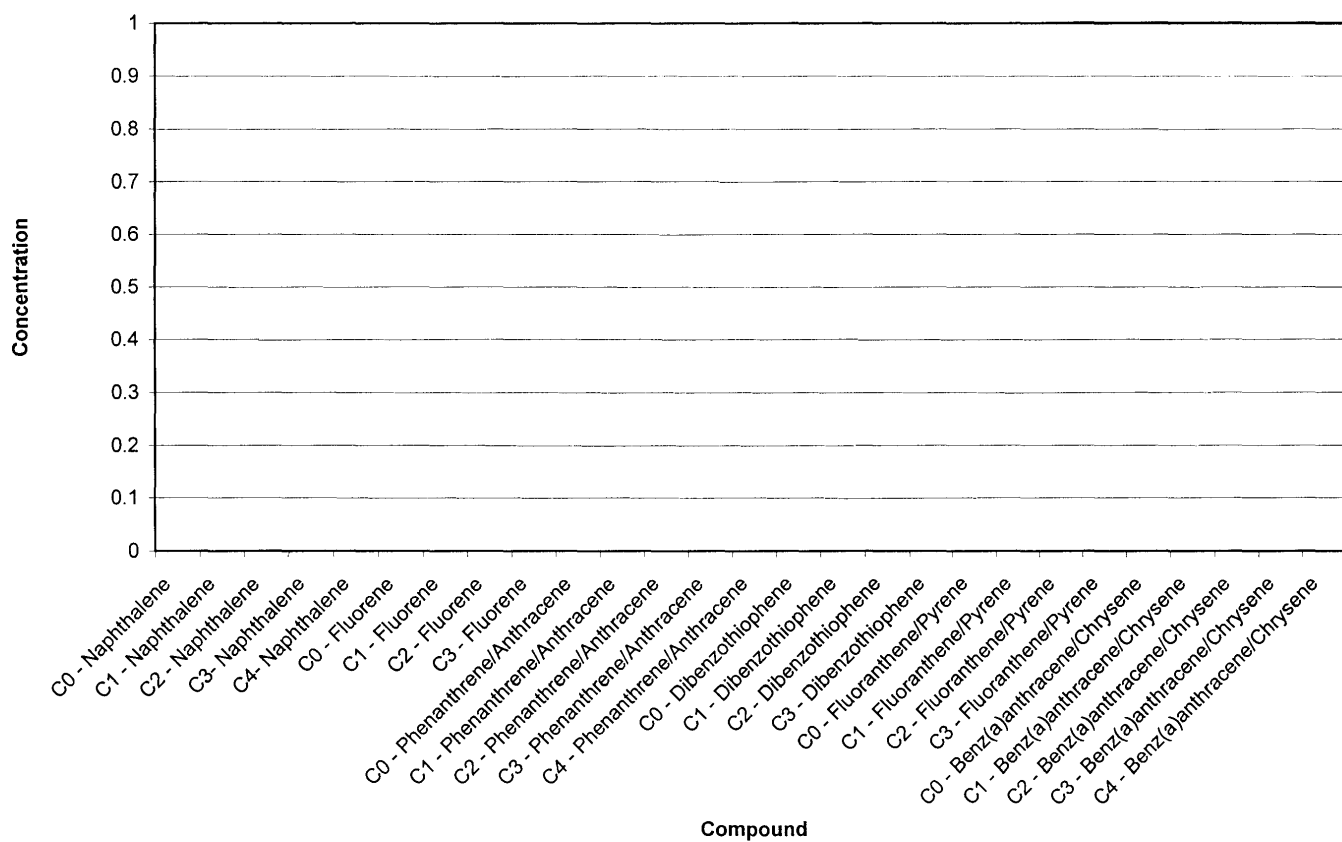




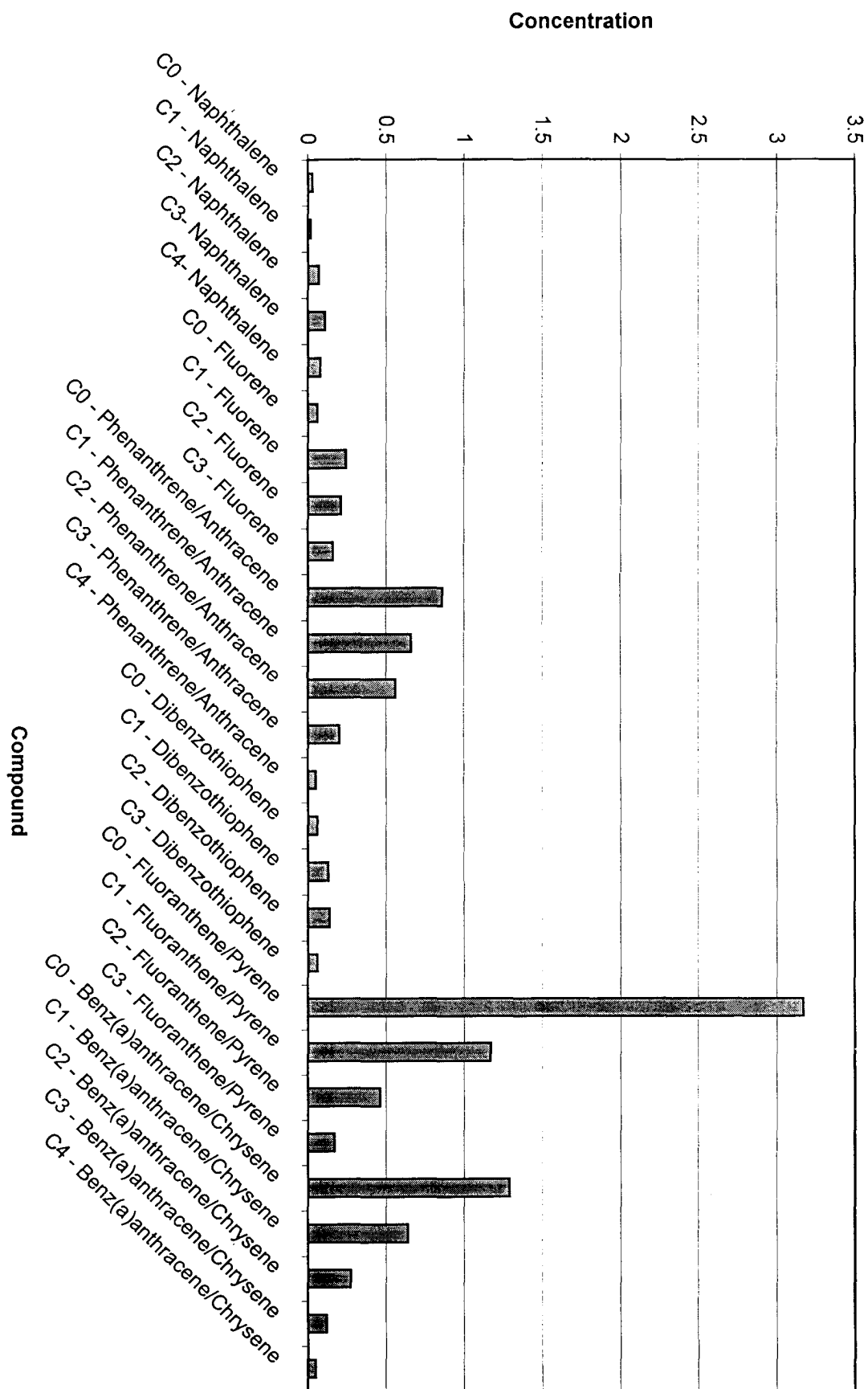
SD34 (0-2)



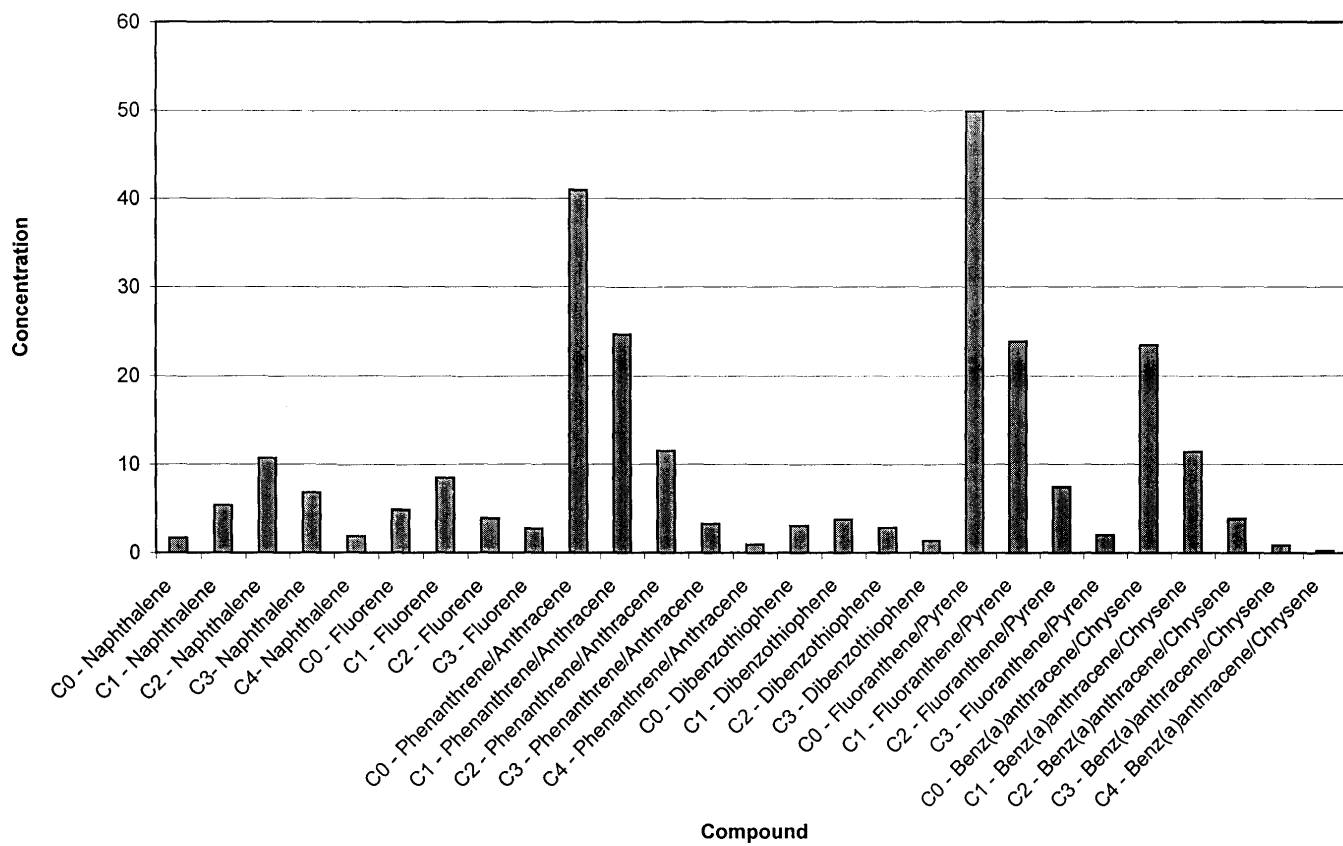
SD34 (2.7-3.3)



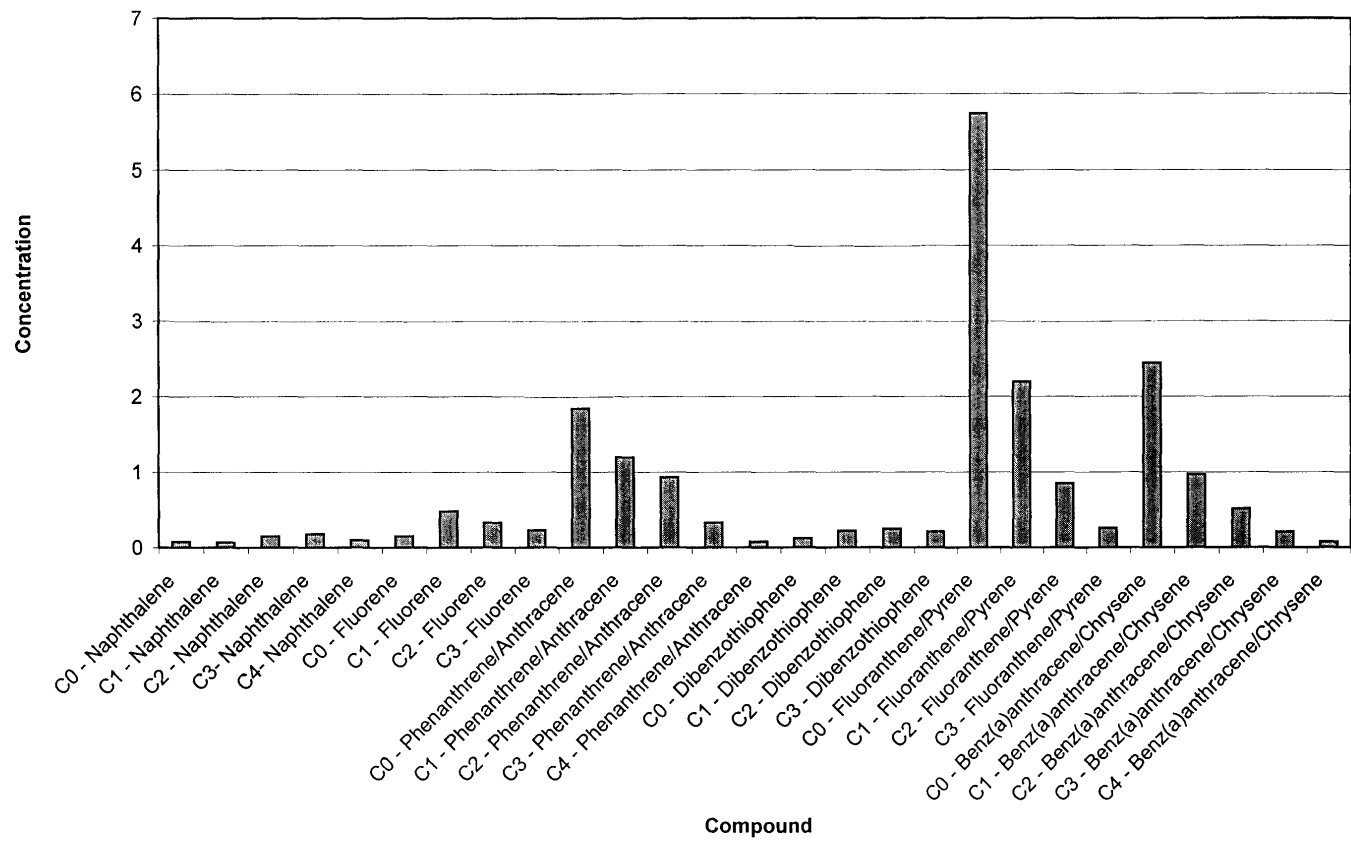
SD4 (0.0-0.2)



SD4 (0.4-1.4)

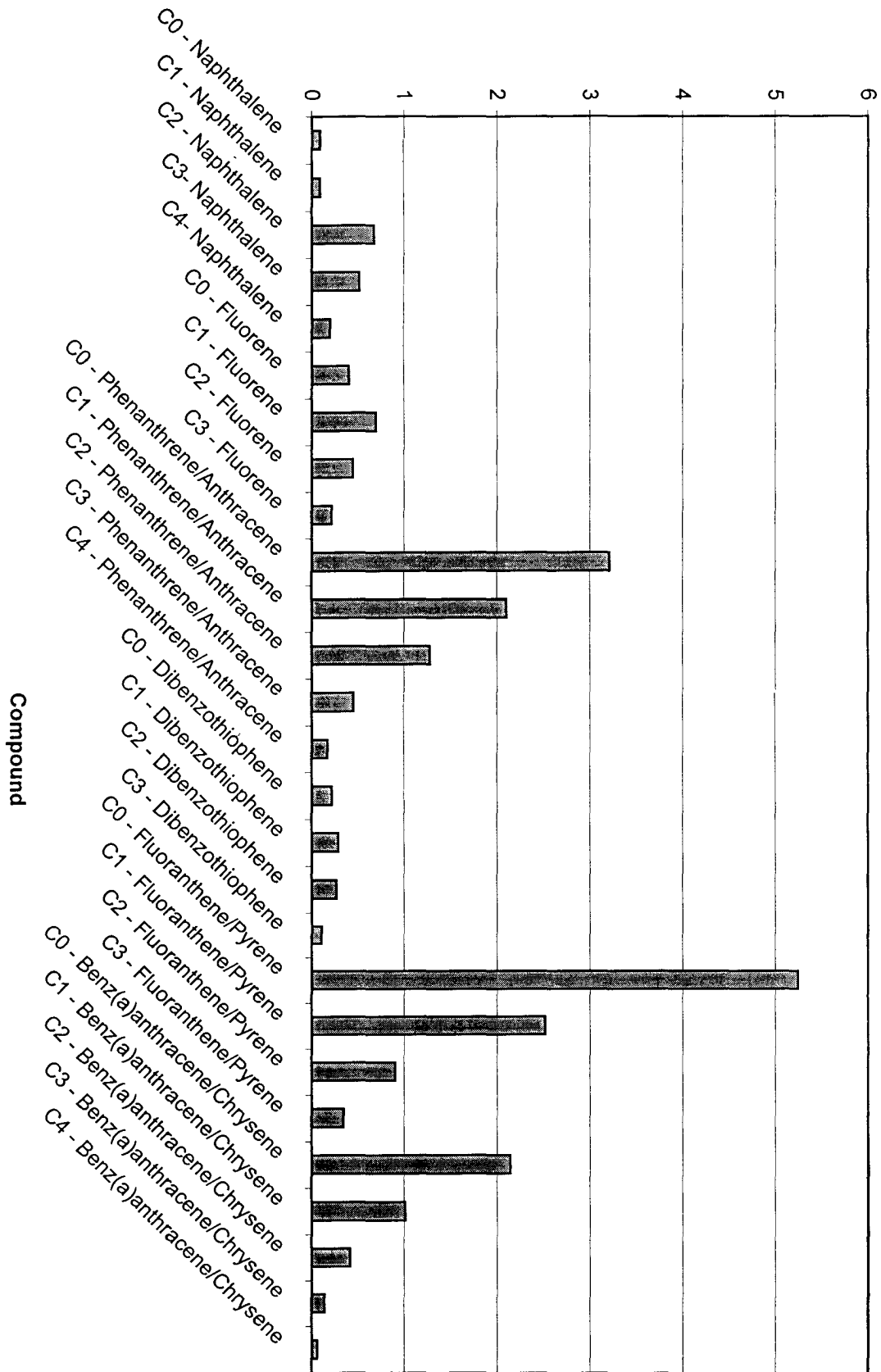


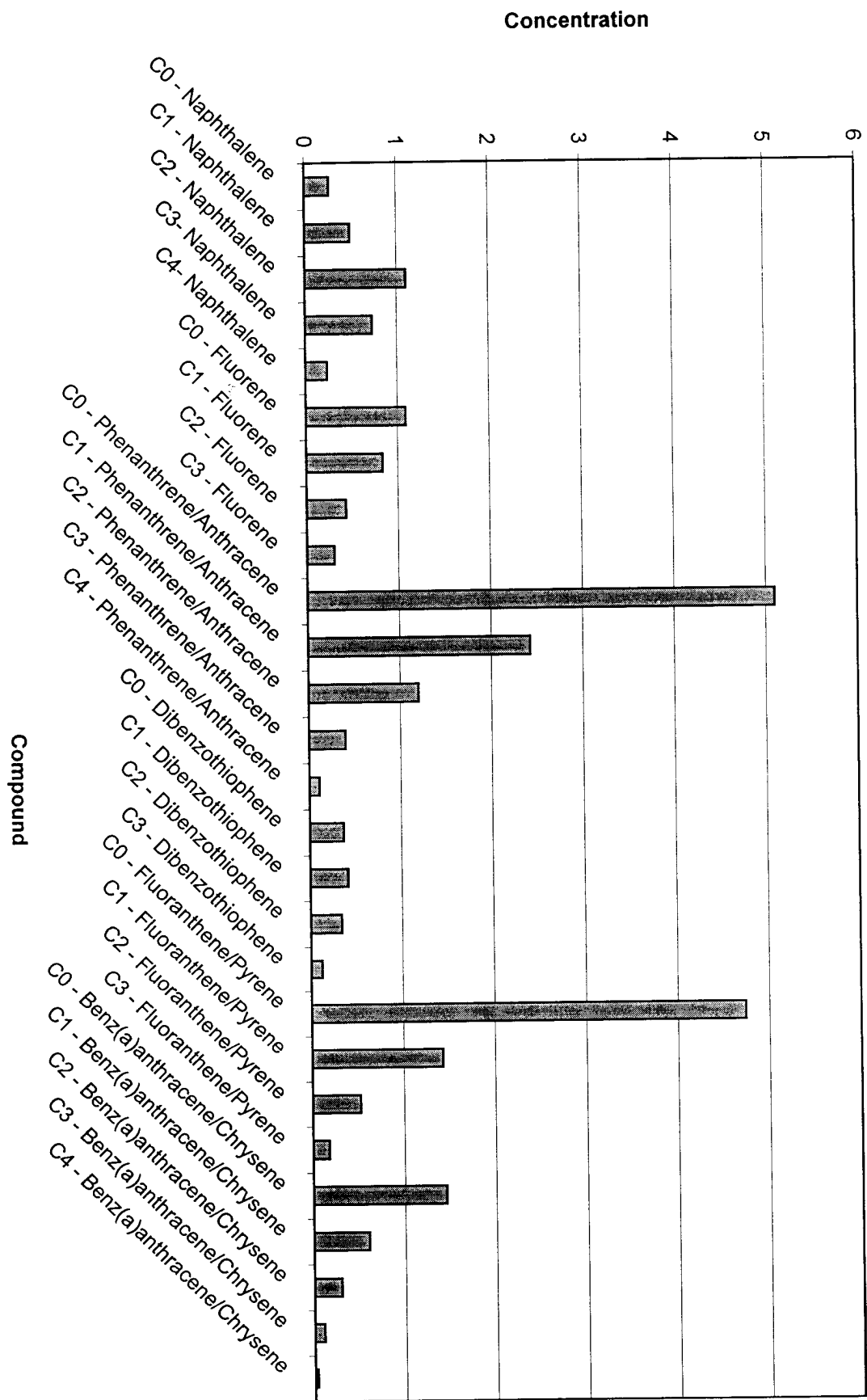
SD5 (0.0-0.2)



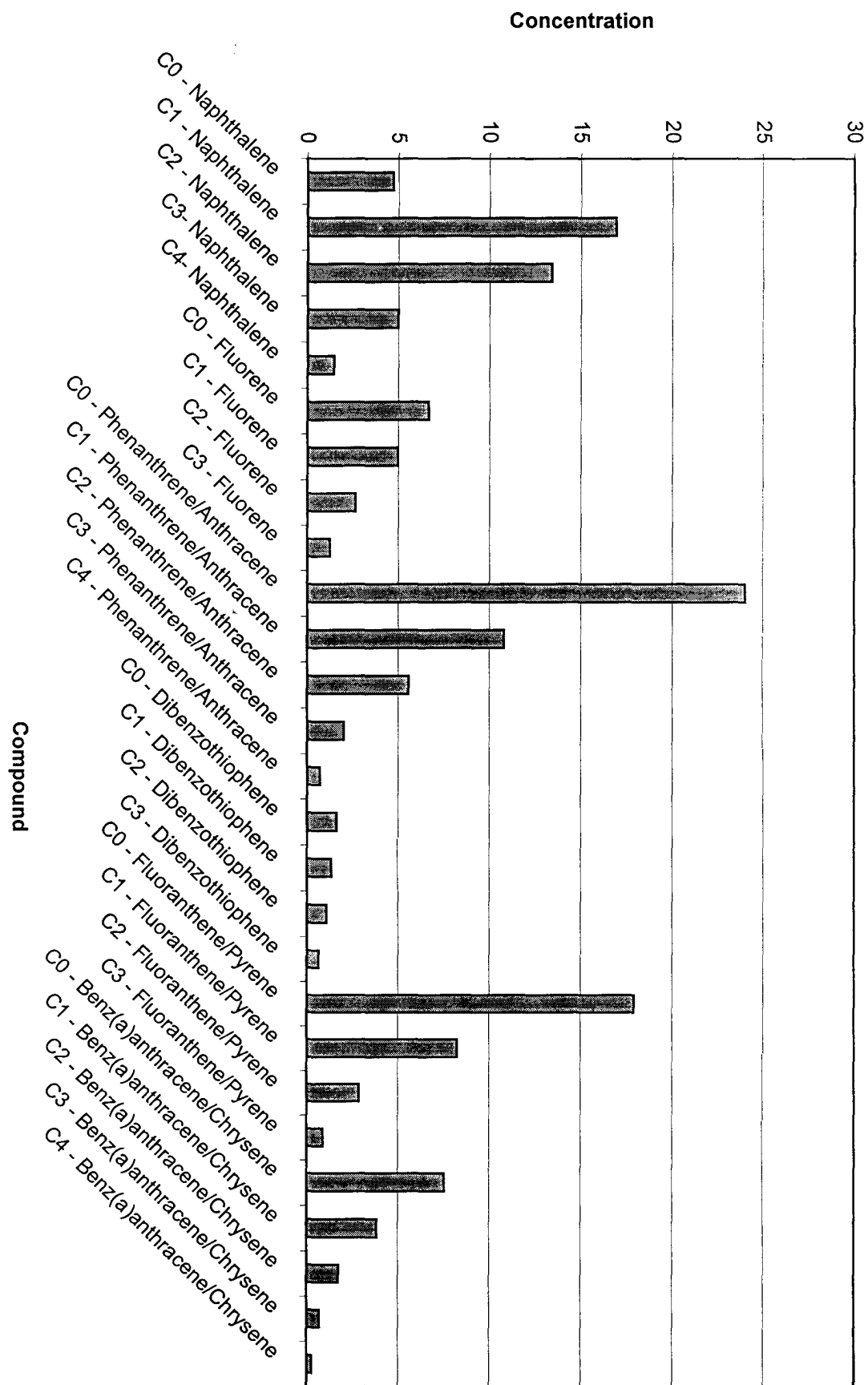
Concentration

SD5 (0.5-1.3)

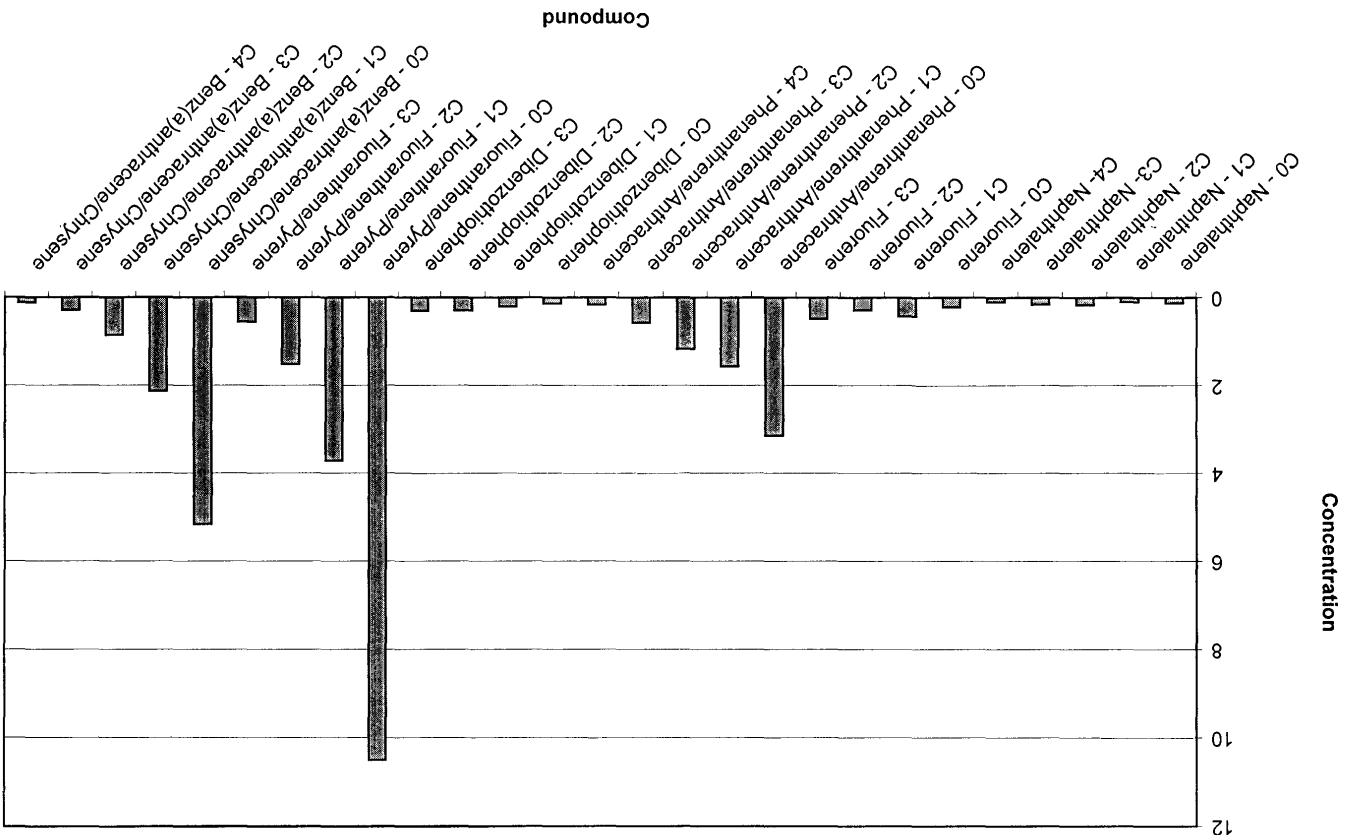




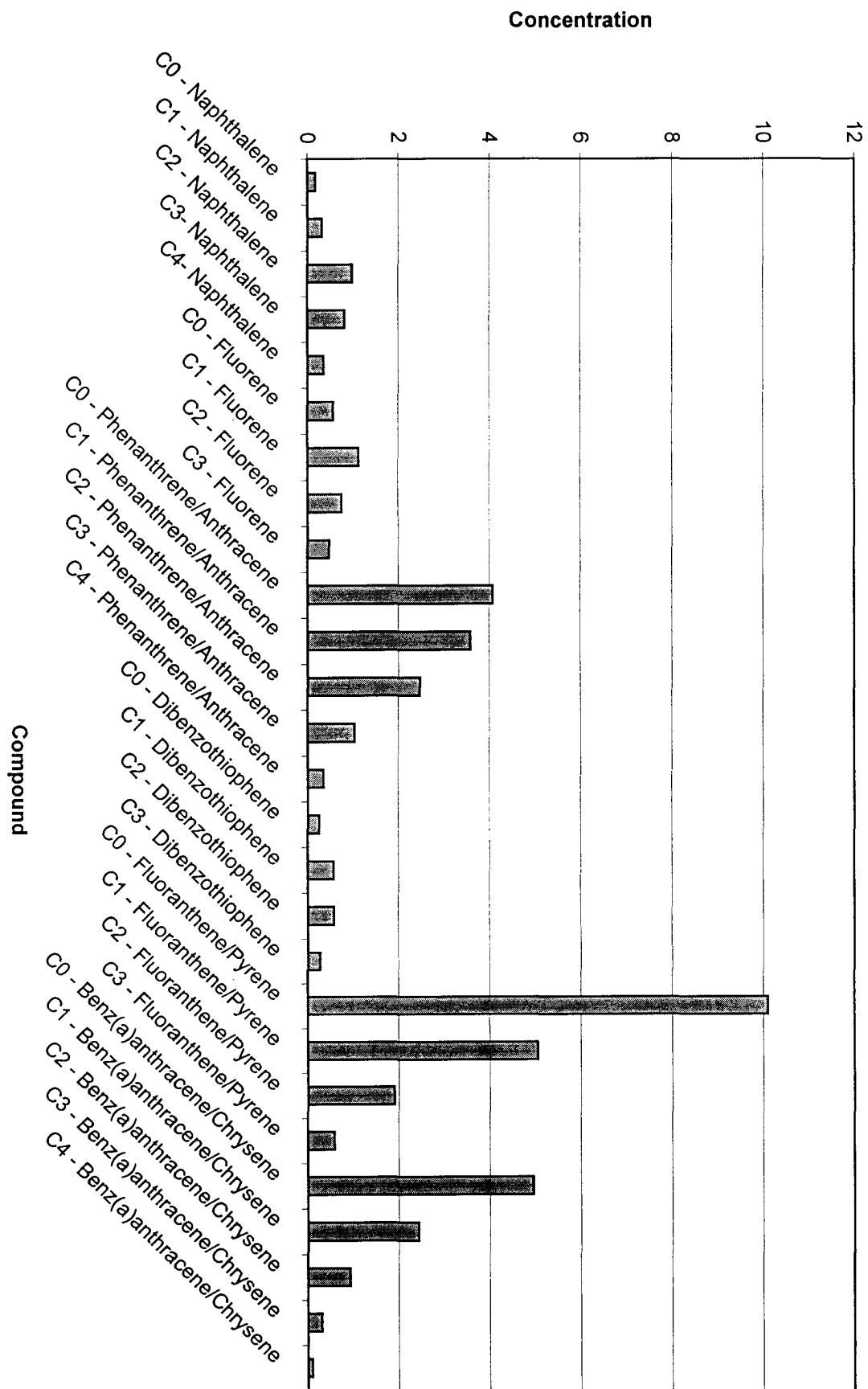
SD6 (0.0-0.2)





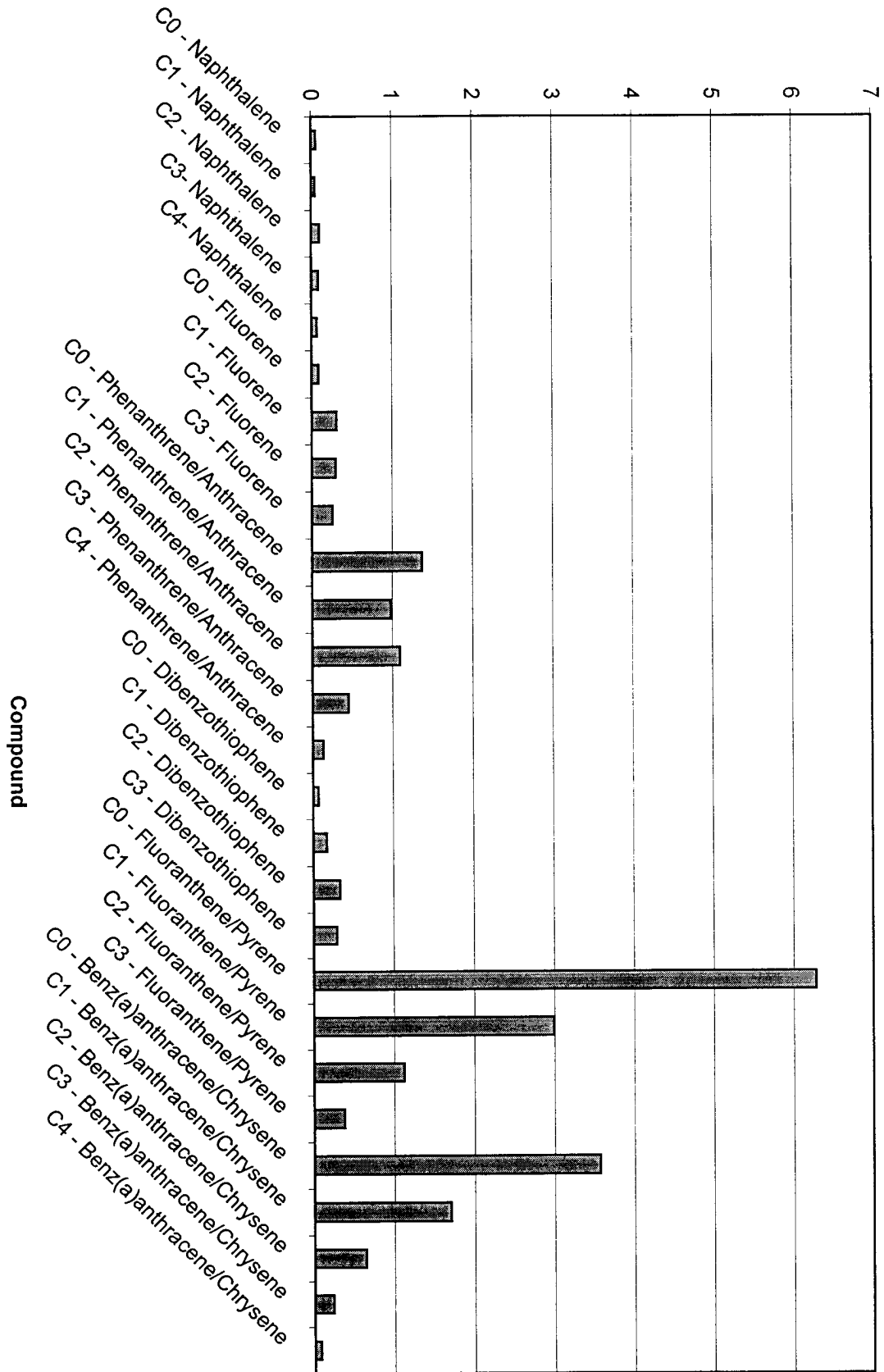


SD7 (0.0-0.2)

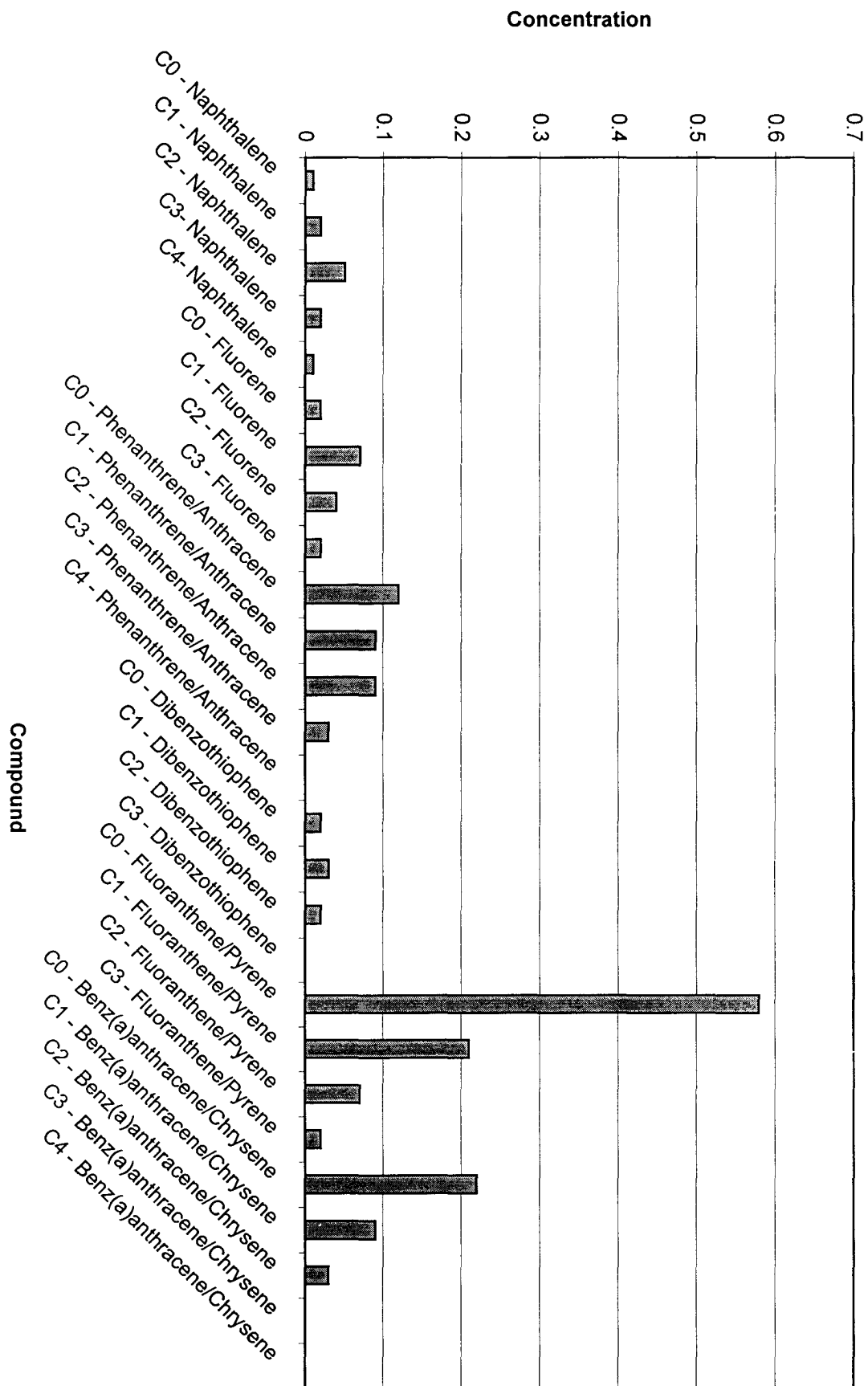


Concentration

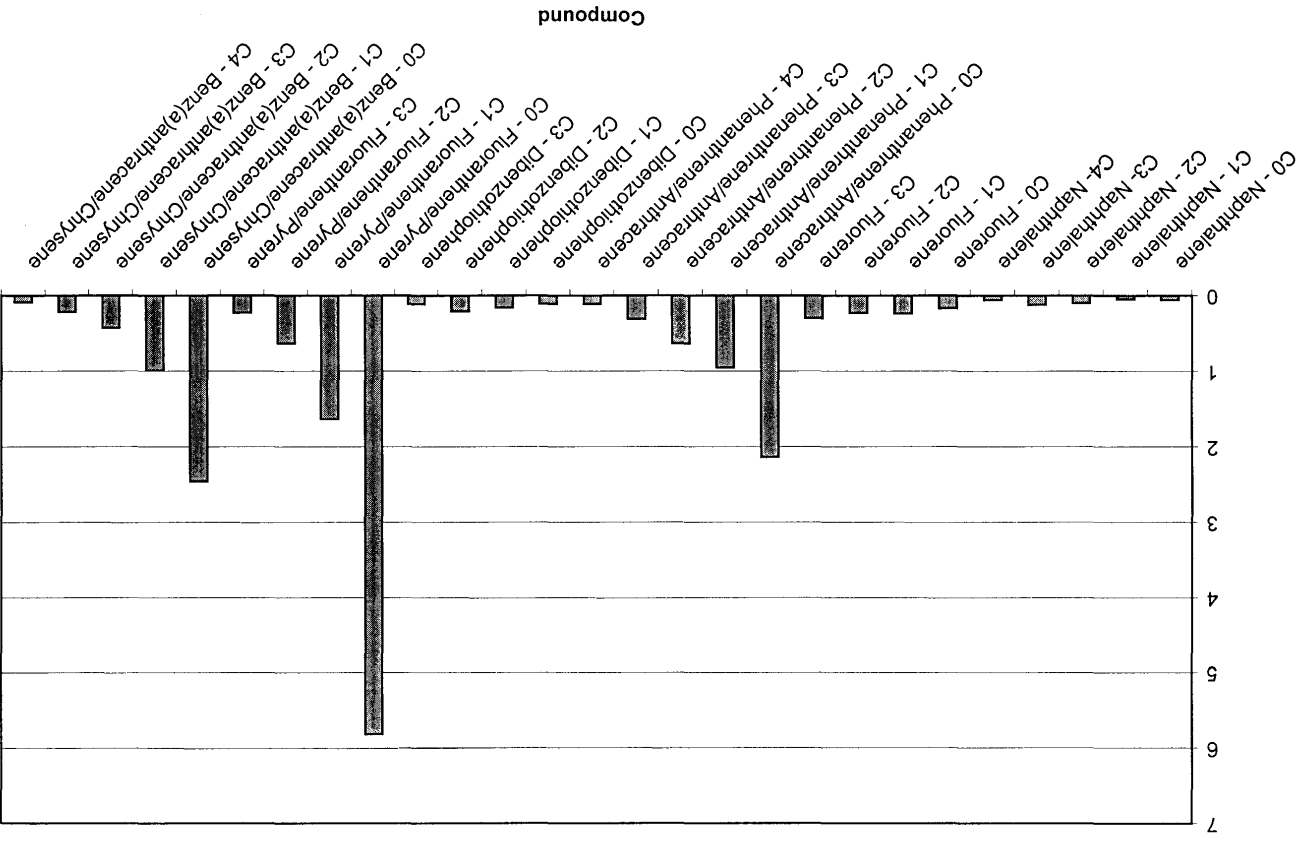
SD8 (0.0-0.2)



SD8 (0.5-2.0)

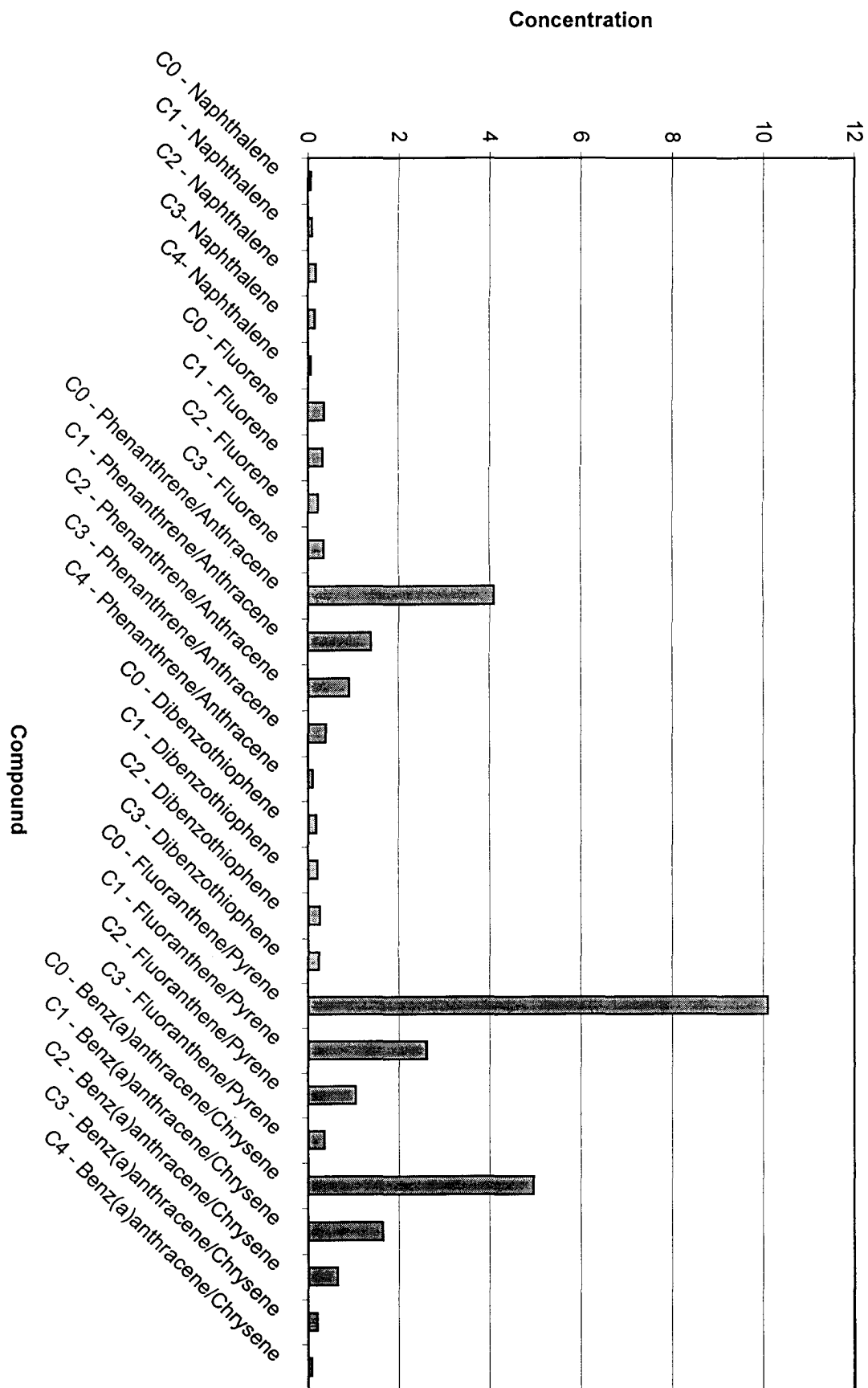


Concentration

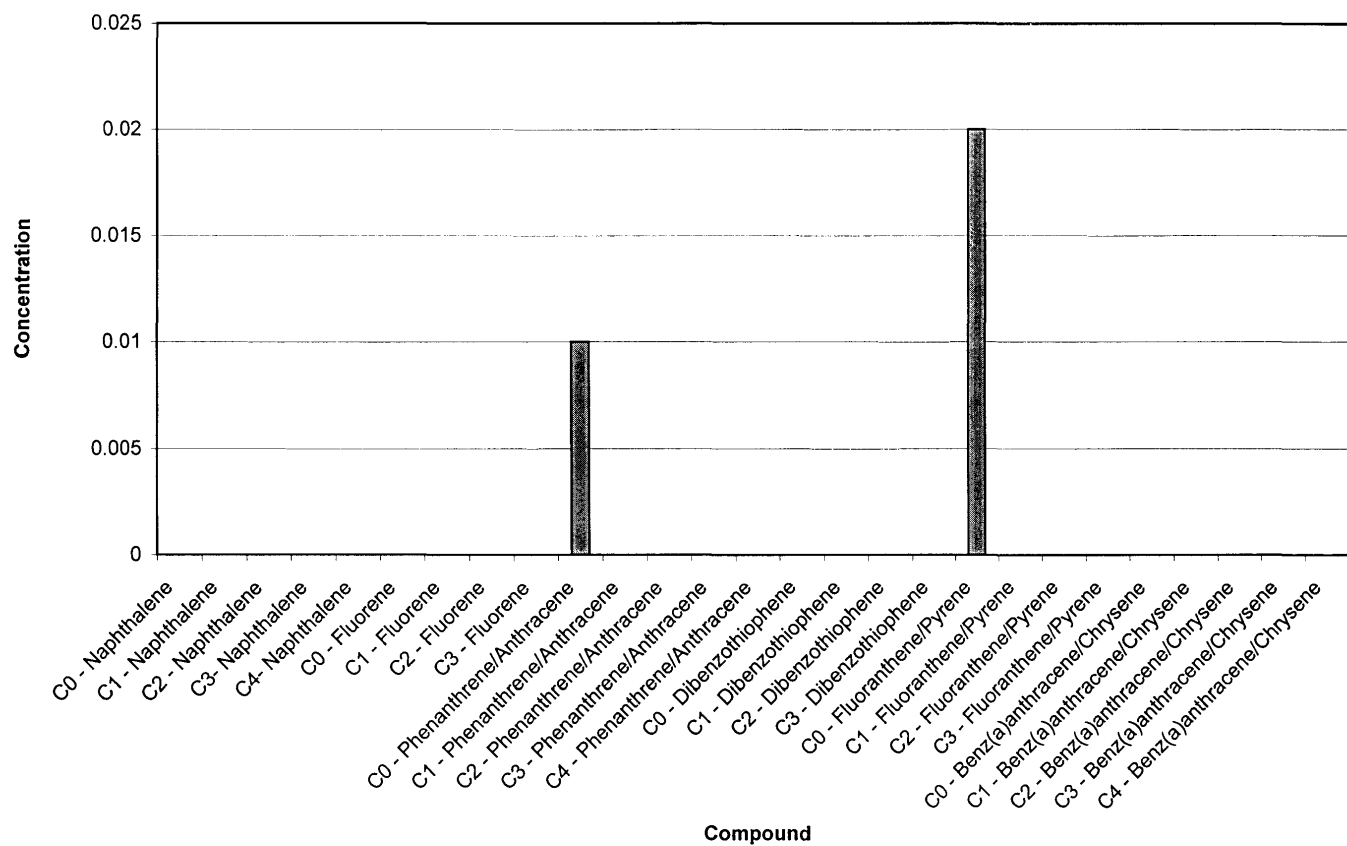


SD9 (0.0-0.2)

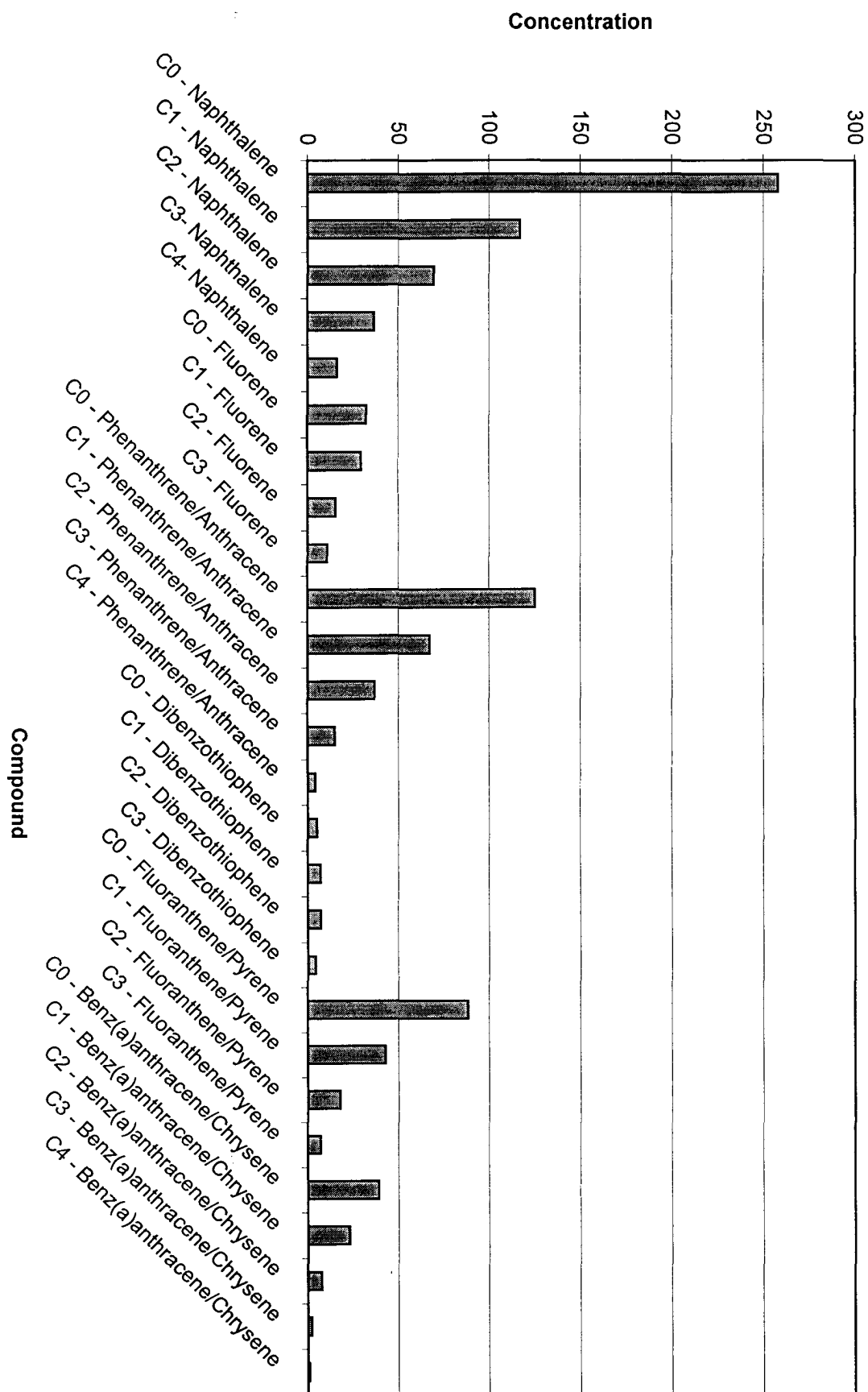
SD9 (0.4-2.4)



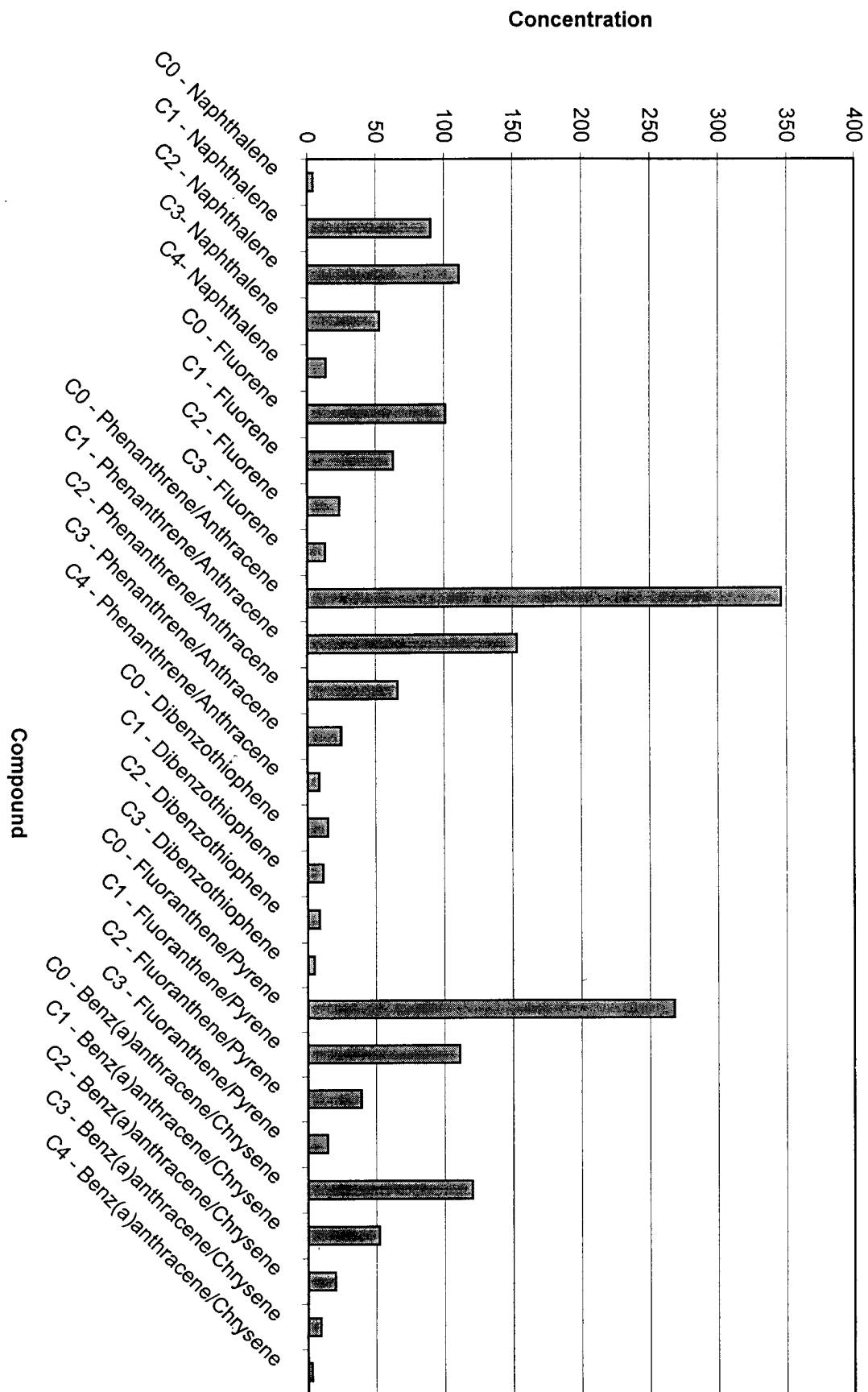
SDS33 (2.6-3.5)

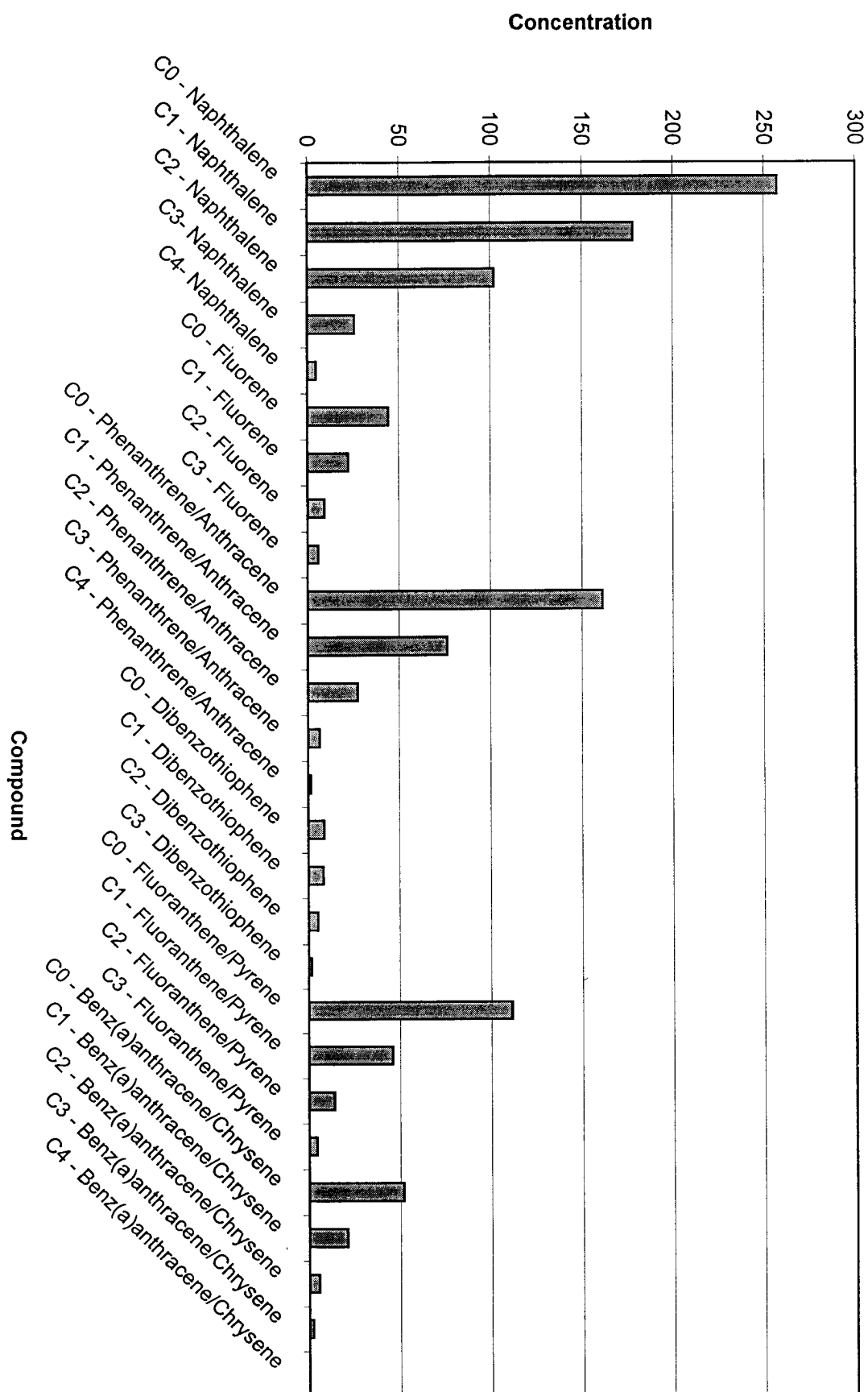


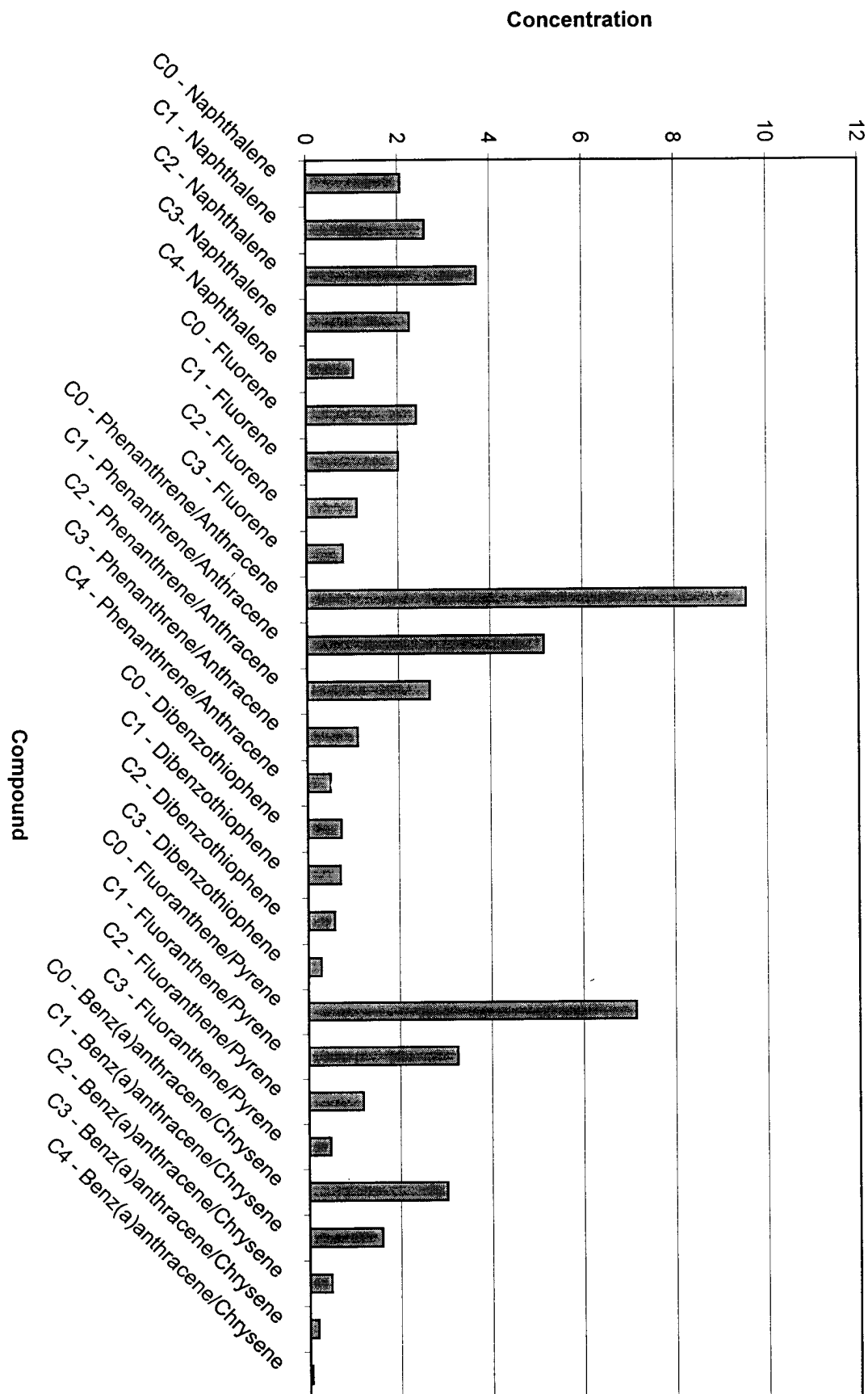
TP1 (8.0-9.0)

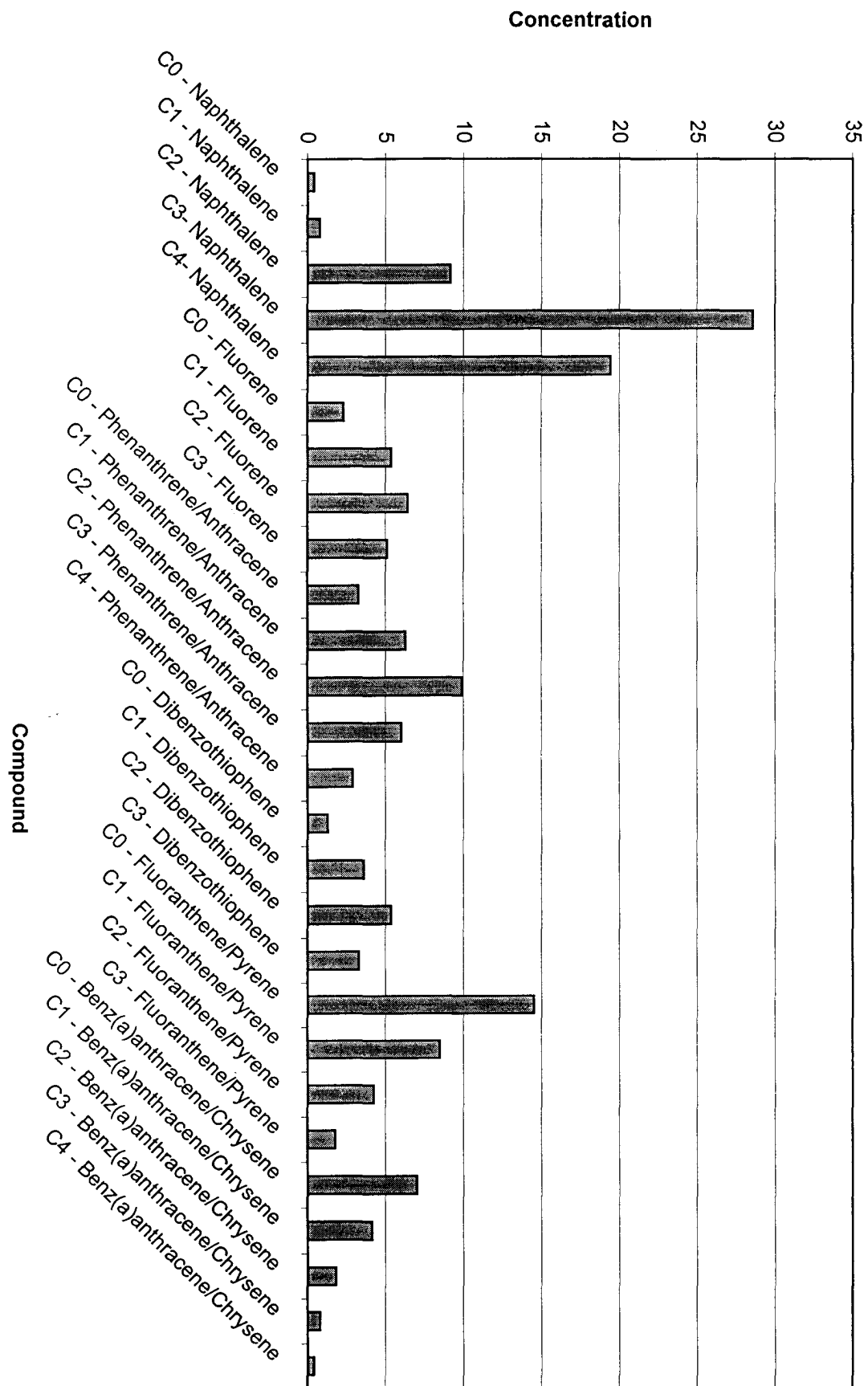


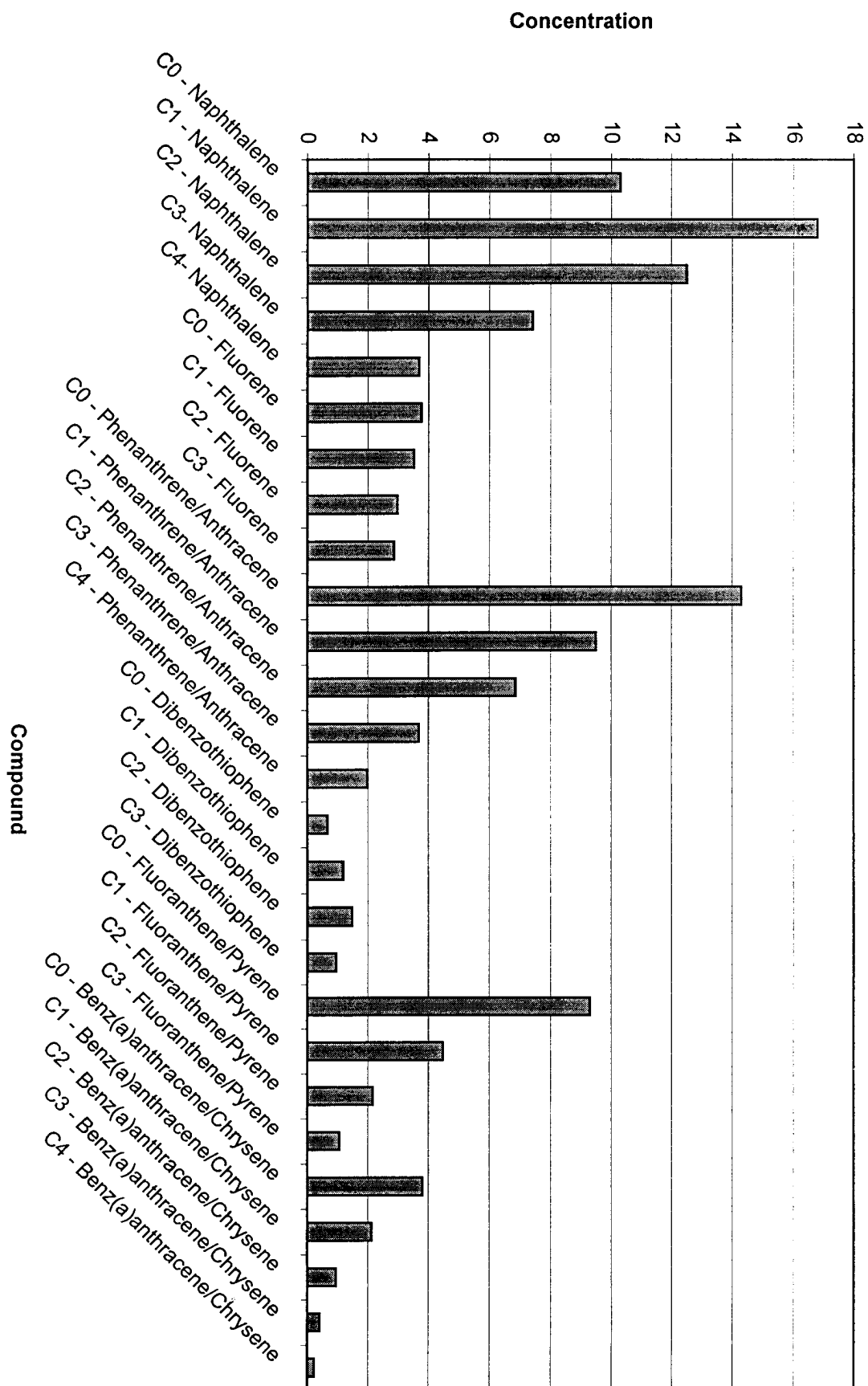


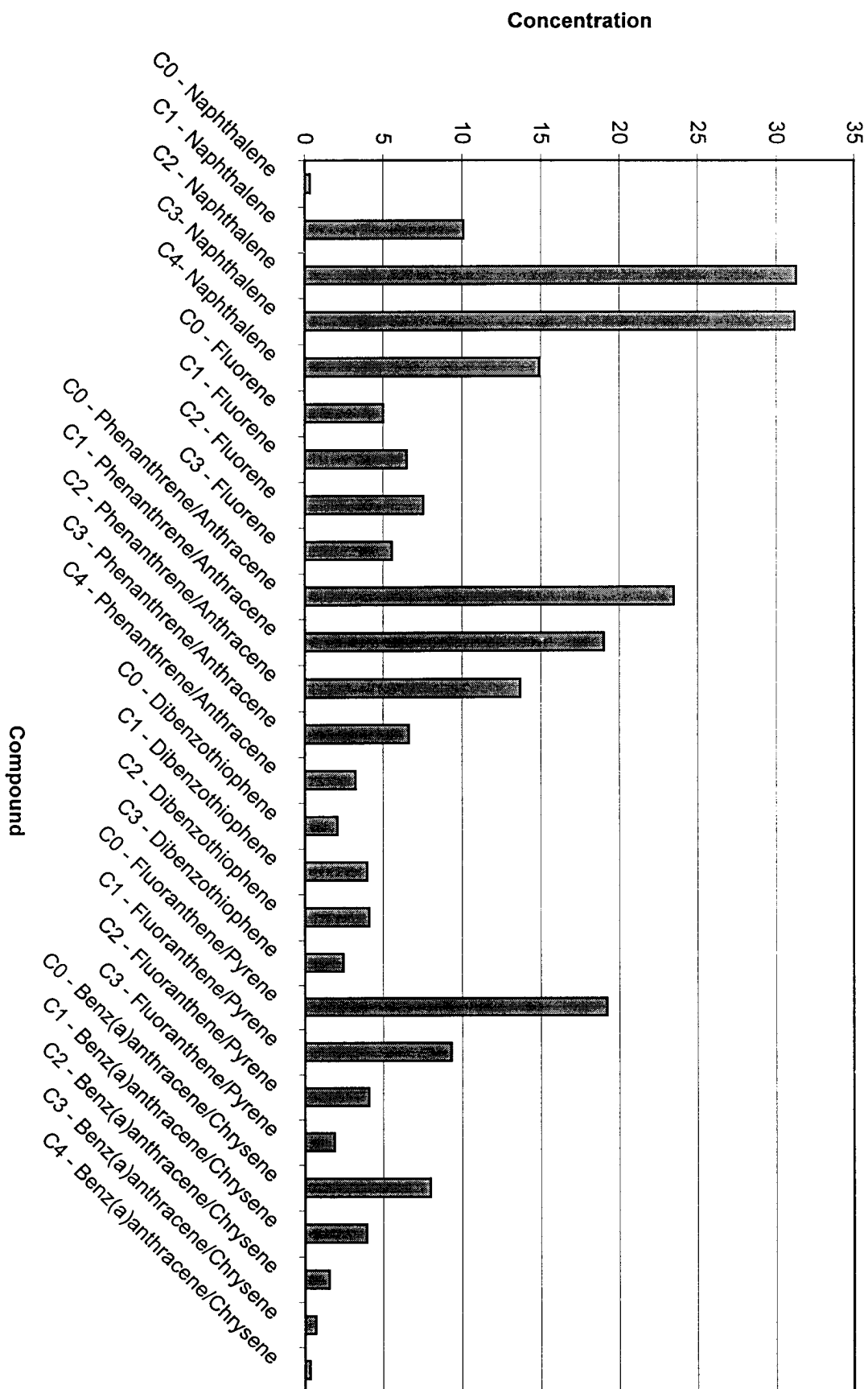


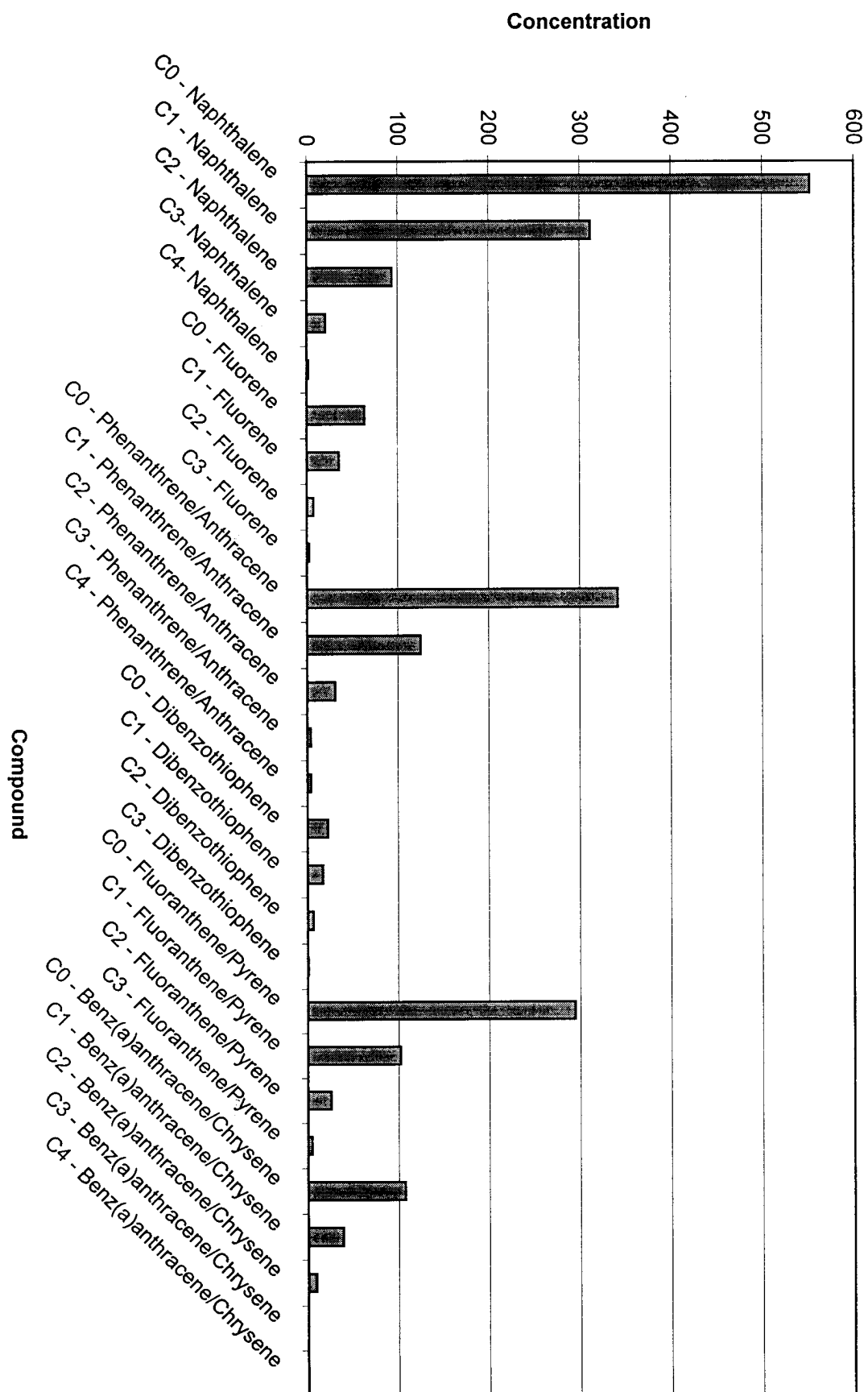


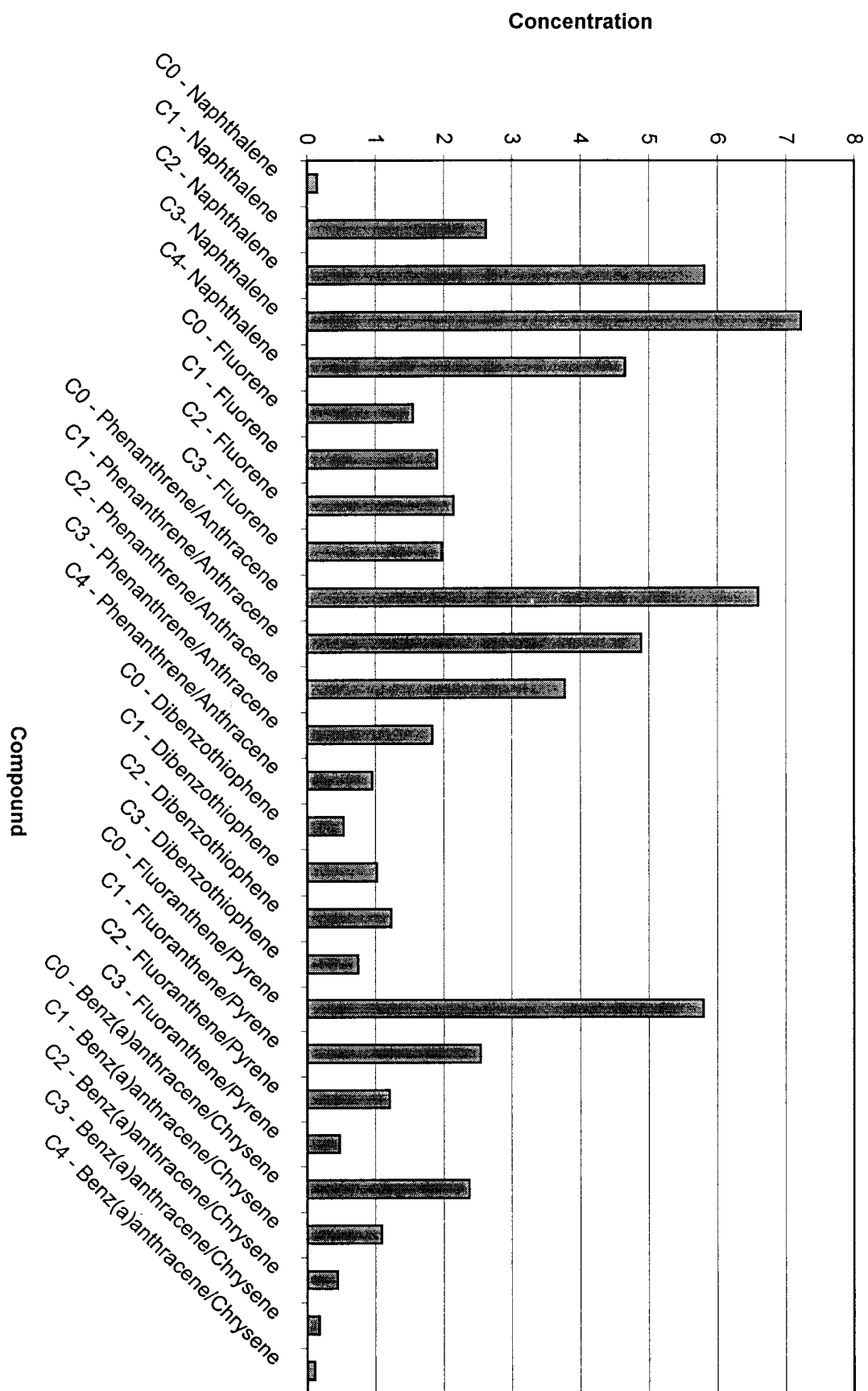




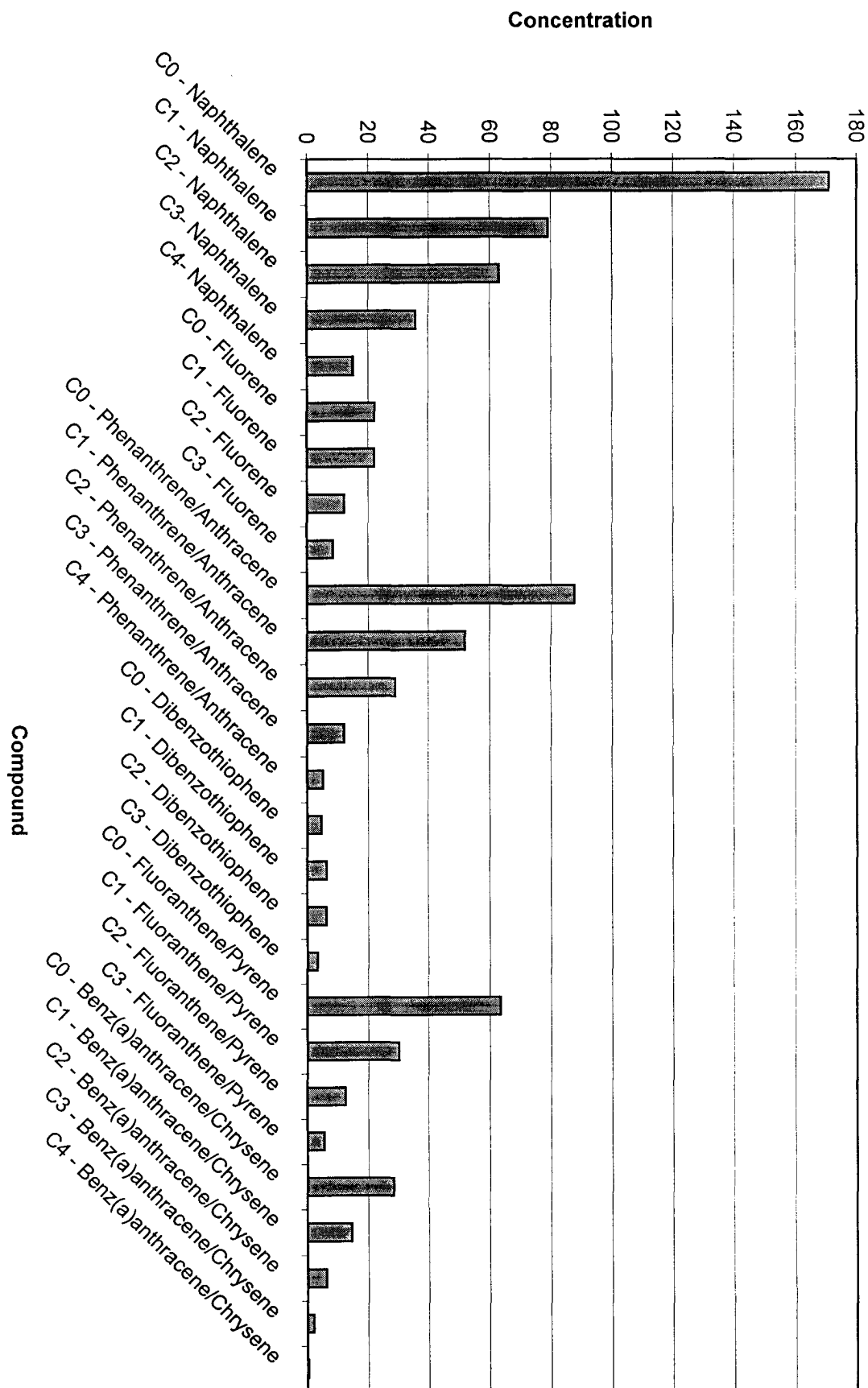




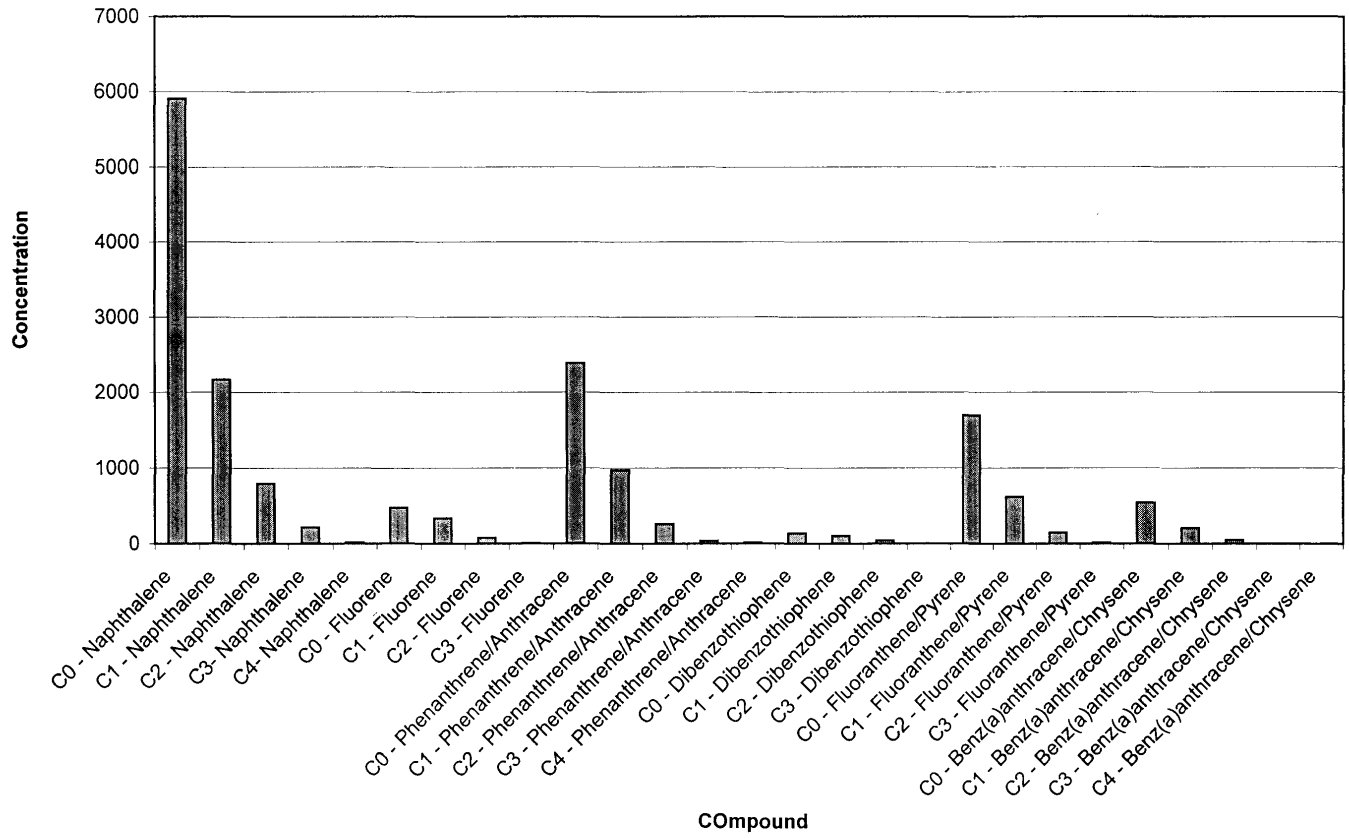


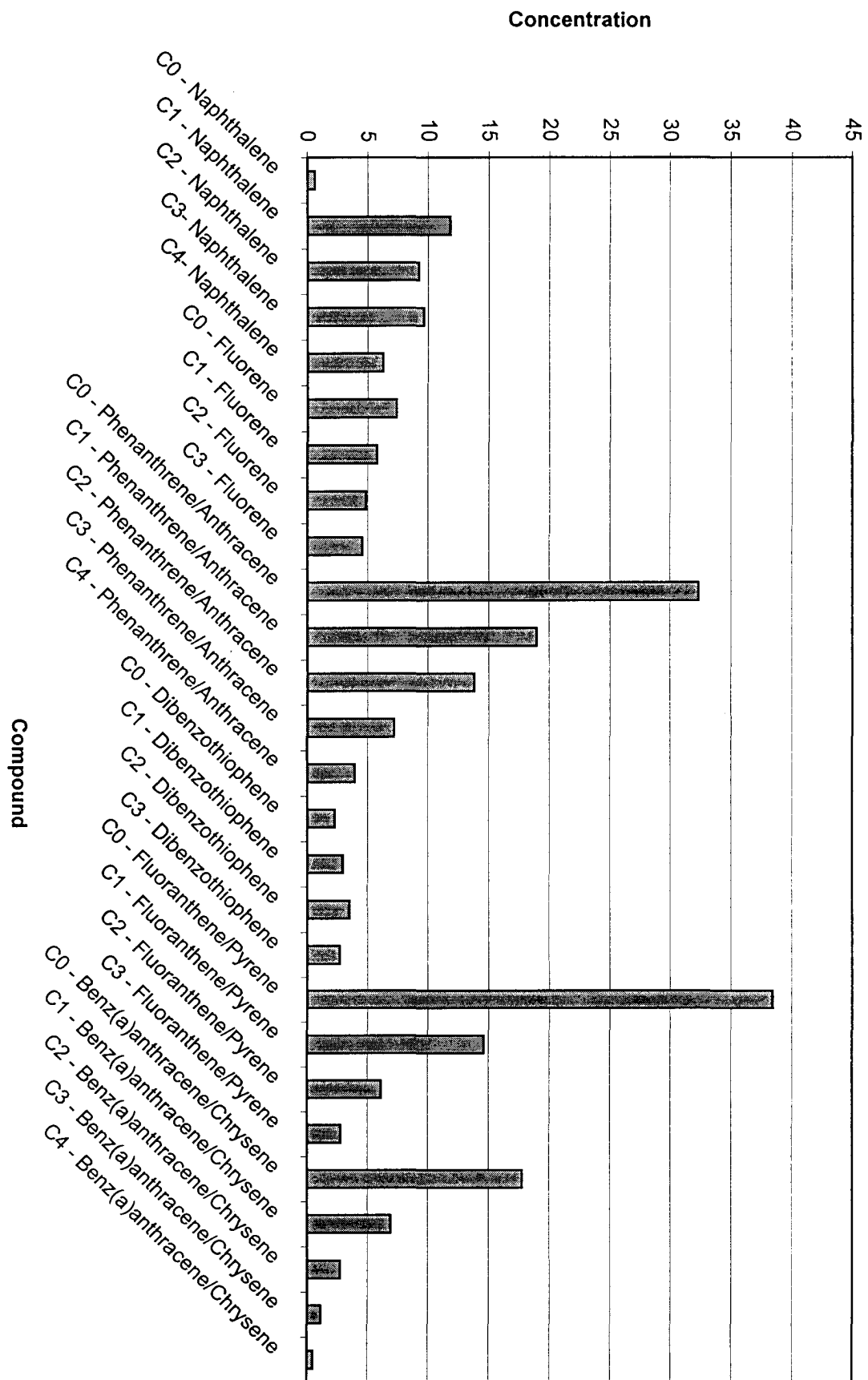






TP6 (9.5-10.5)



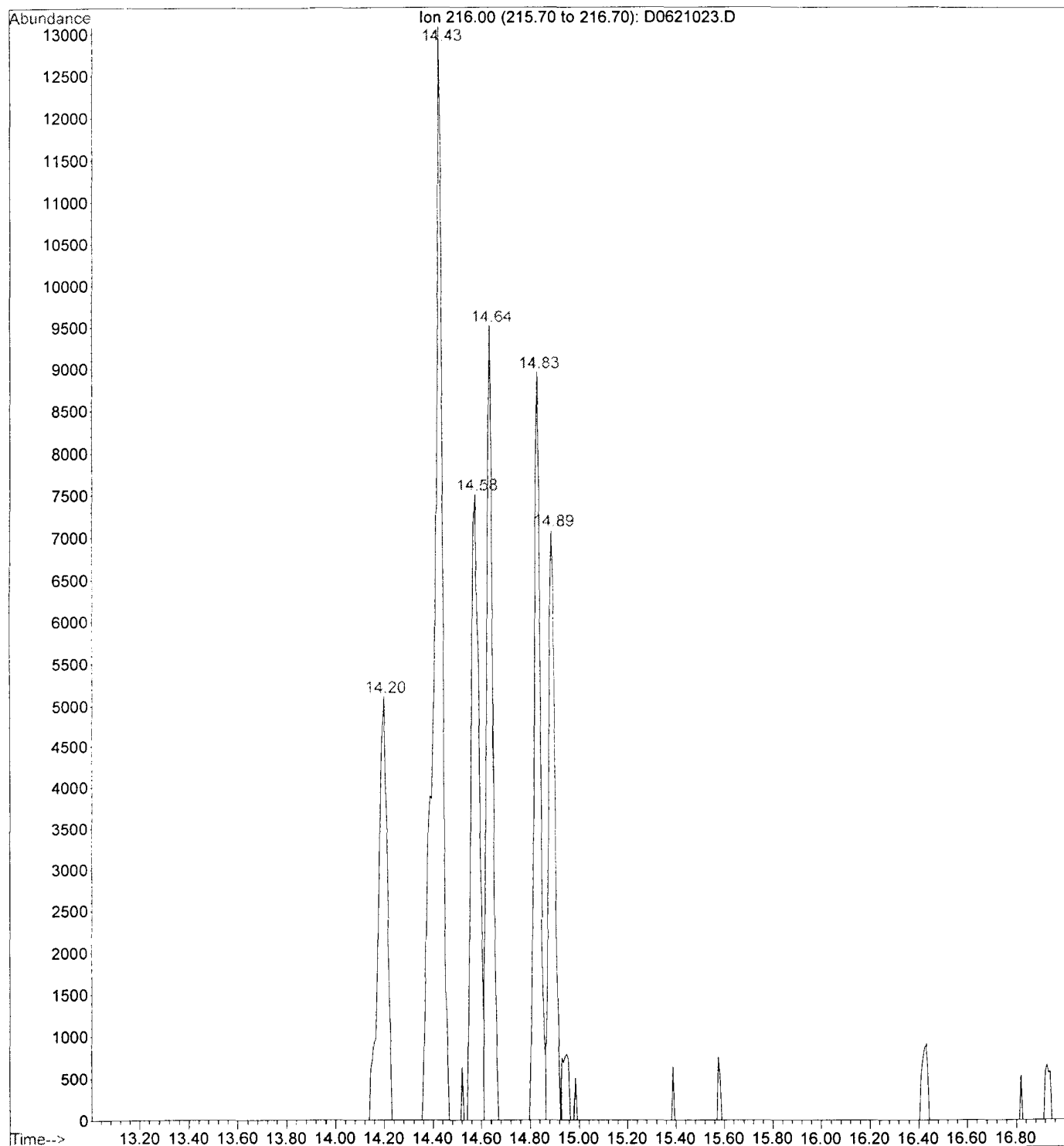


**G**  
**EXTRACTED ION CHROMATOGRAMS: M/Z = 216**

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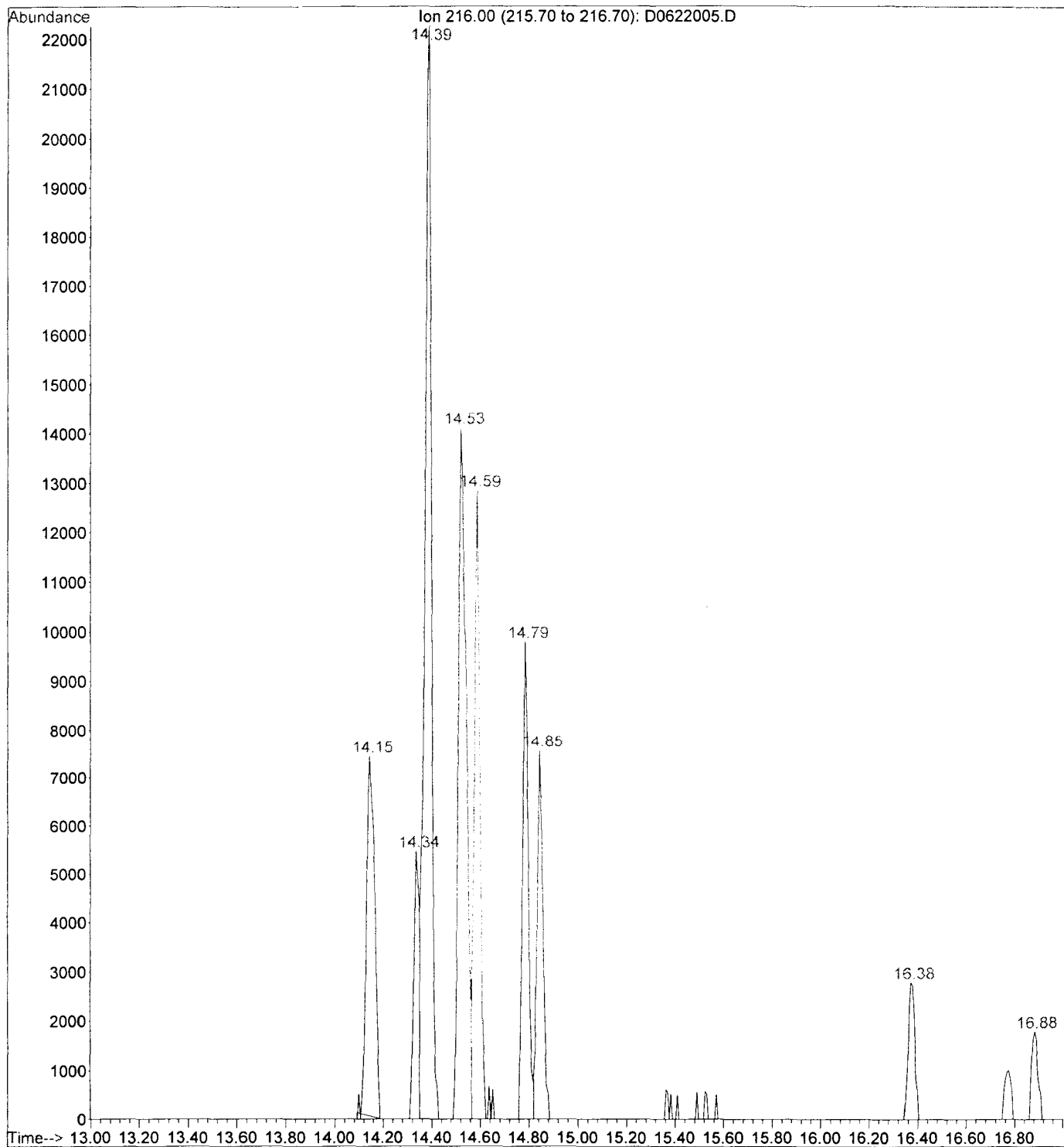
File : D:\NYACK\1NYACK\C1F090120\D0621023.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 12:26 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-011 soil 6/12/01 clp3.2  
Misc Info : eem501ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 25

BSD 1 (0-2)



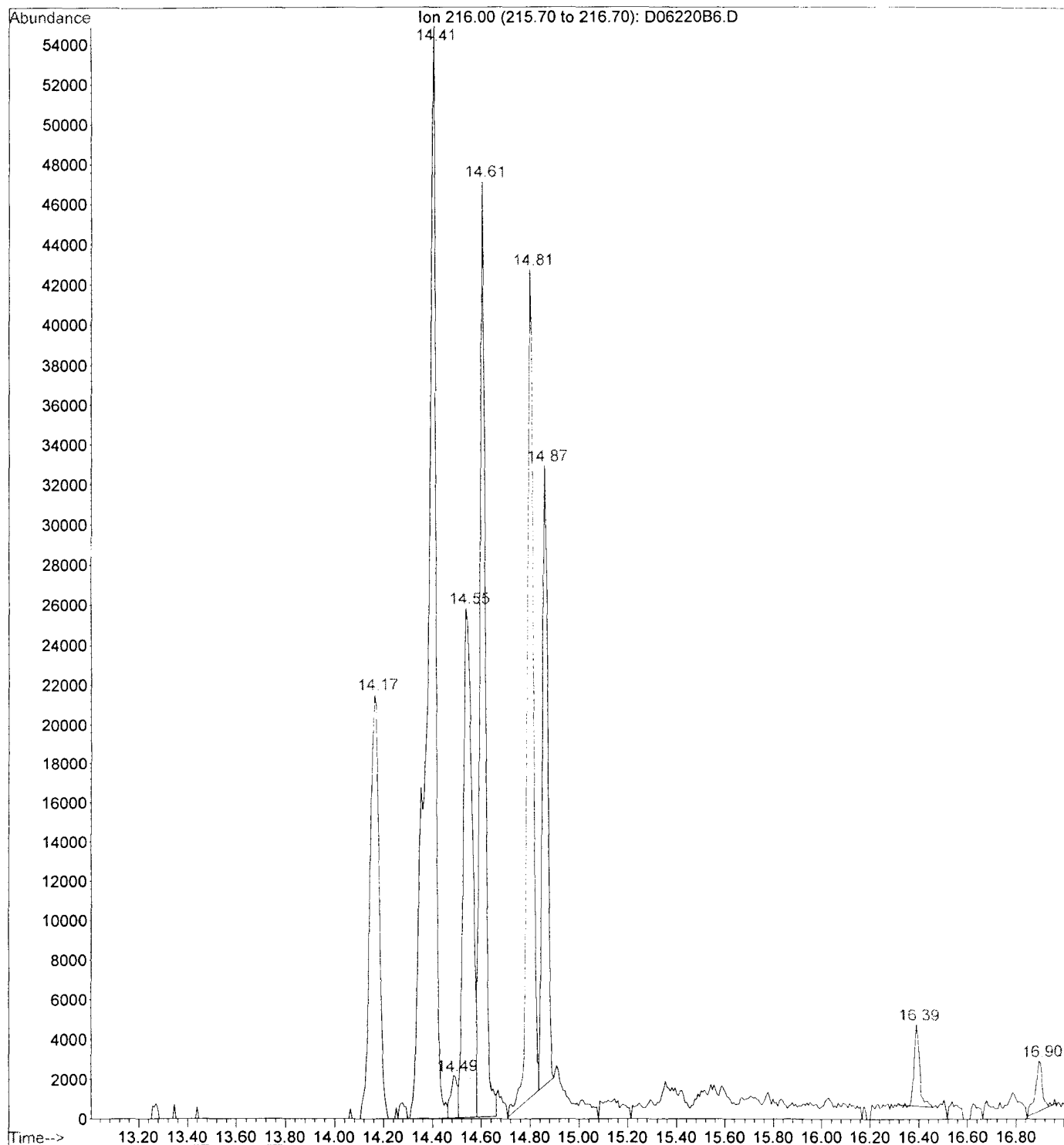
File : D:\NYACK\1NYACK\C1F090120\D0622005.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 1:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-015 2x soil 6/12/01 clp3.2  
Misc Info : eem581ad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 7

BSD 14 (0-2)



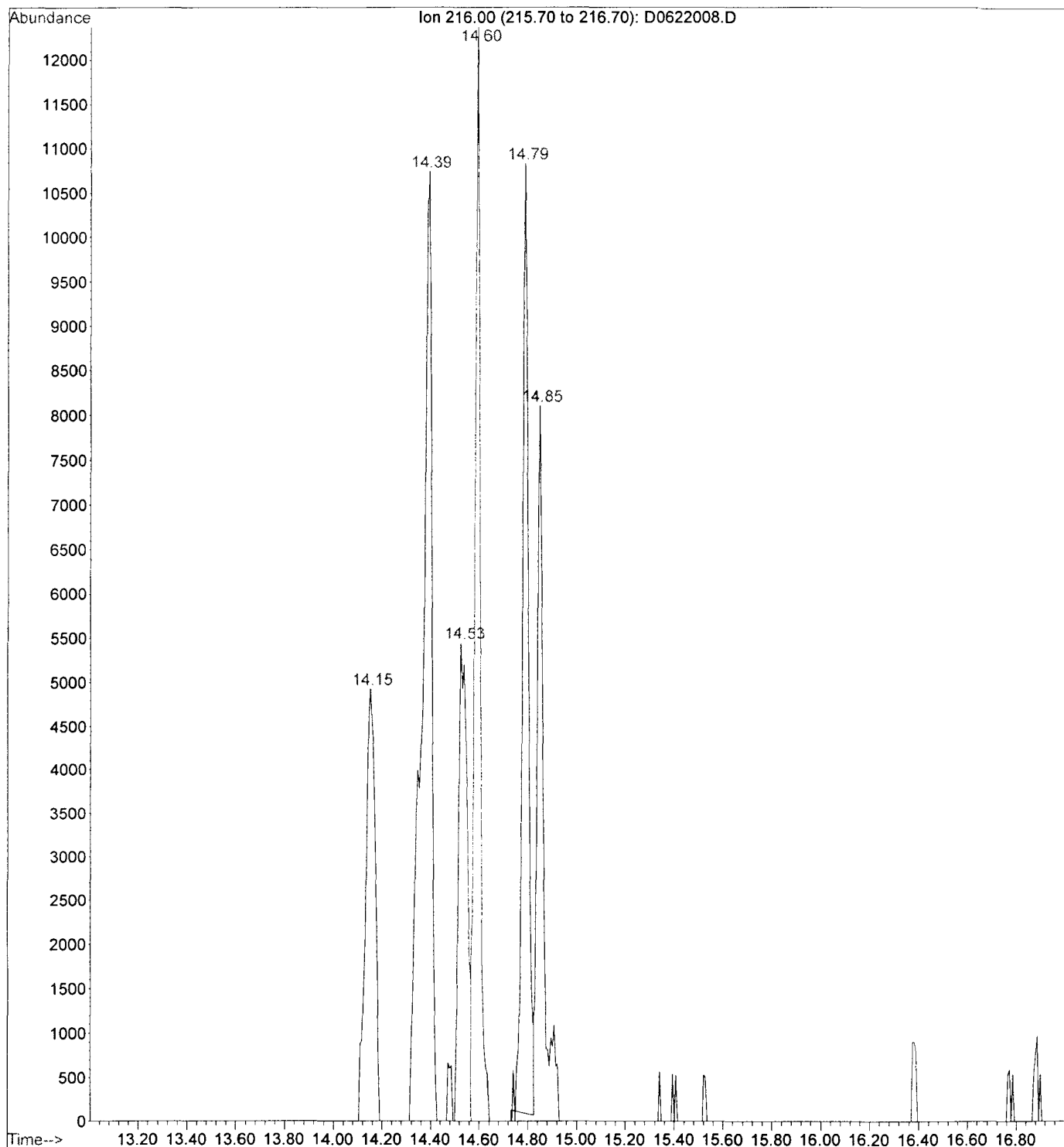
File : D:\NYACK\1NYACK\C1F090120\D06220B6.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 2:45 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-016 soil 6/12/01 clp3.2  
Misc Info : eem591ad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 8

BSD 15 [0-2)



File : D:\NYACK\1NYACK\C1F090120\D0622008.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 3:14 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-018 soil 6/12/01 clp3.2  
Misc Info : eem6elad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 10

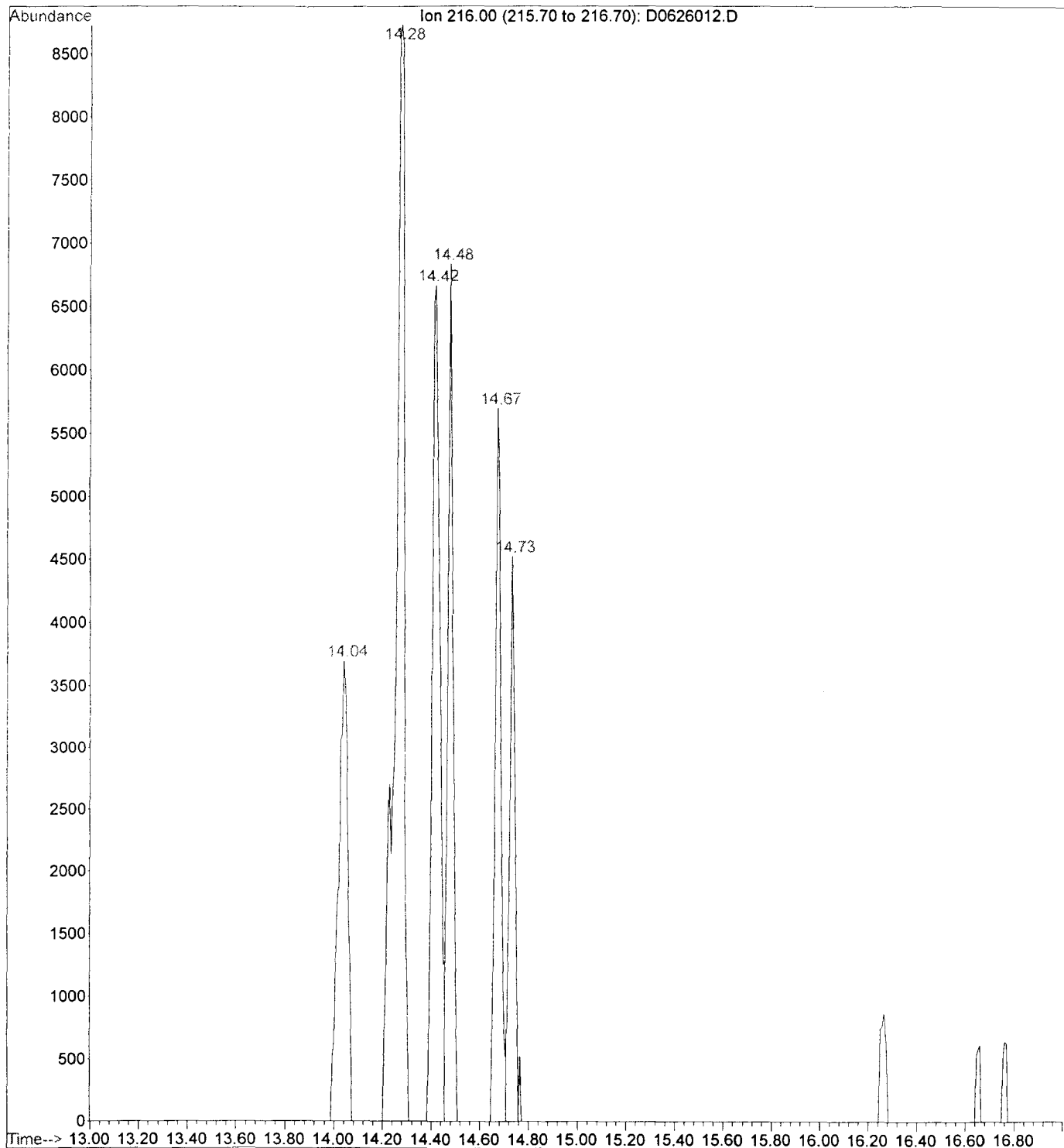
3SD 17 (0-2)





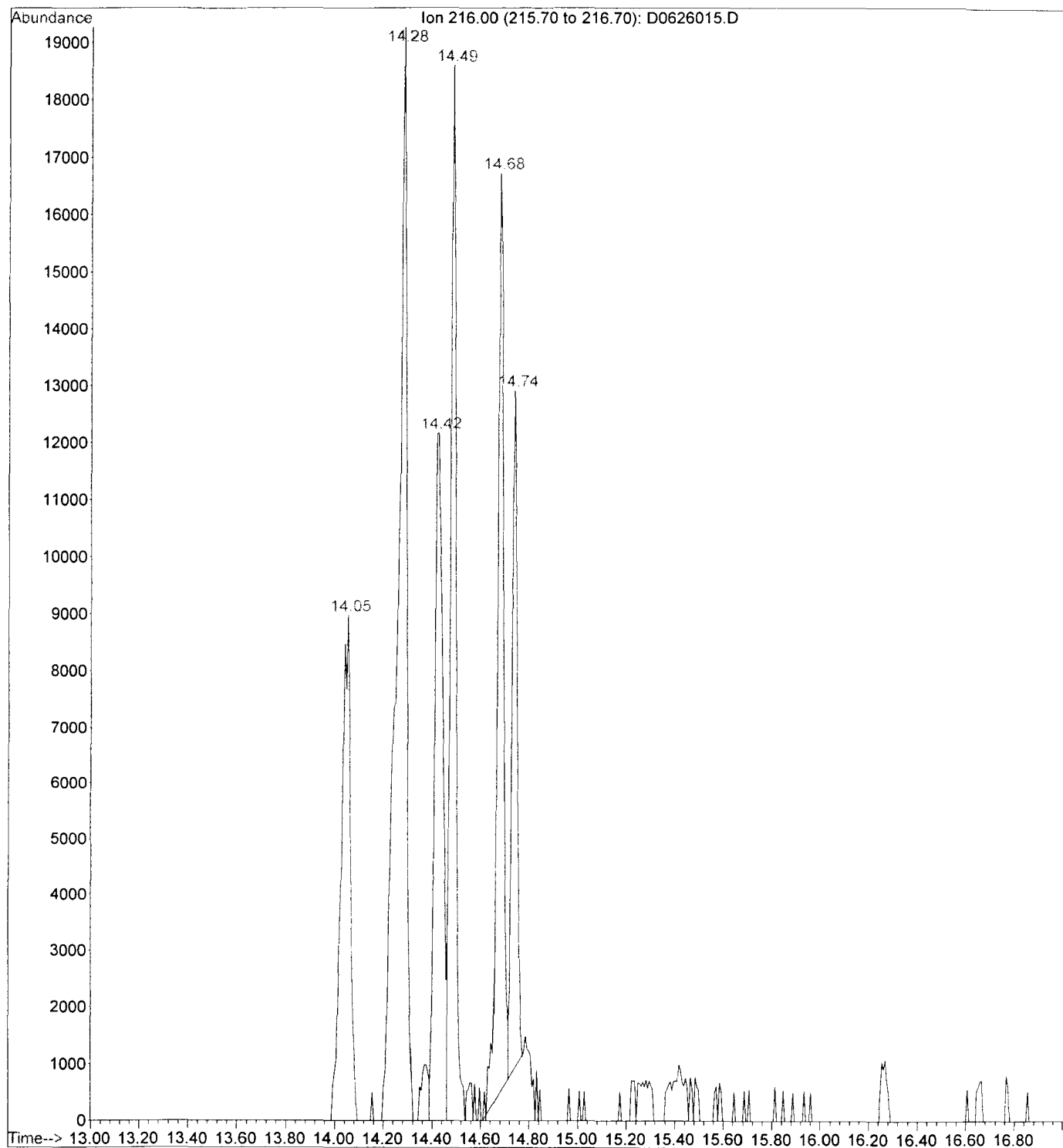
File : D:\NYACK\1NYACK\C1F090124\D0626012.D  
Operator : 001562, DLF  
Acquired : 26 Jun 2001 6:32 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090124-001 soil 6/15/01 clp3.2  
Misc Info : eem8a1ad,d062601p.b,clp.m,1-3.1.sub  
Vial Number: 14

BSD 15 (0-2)



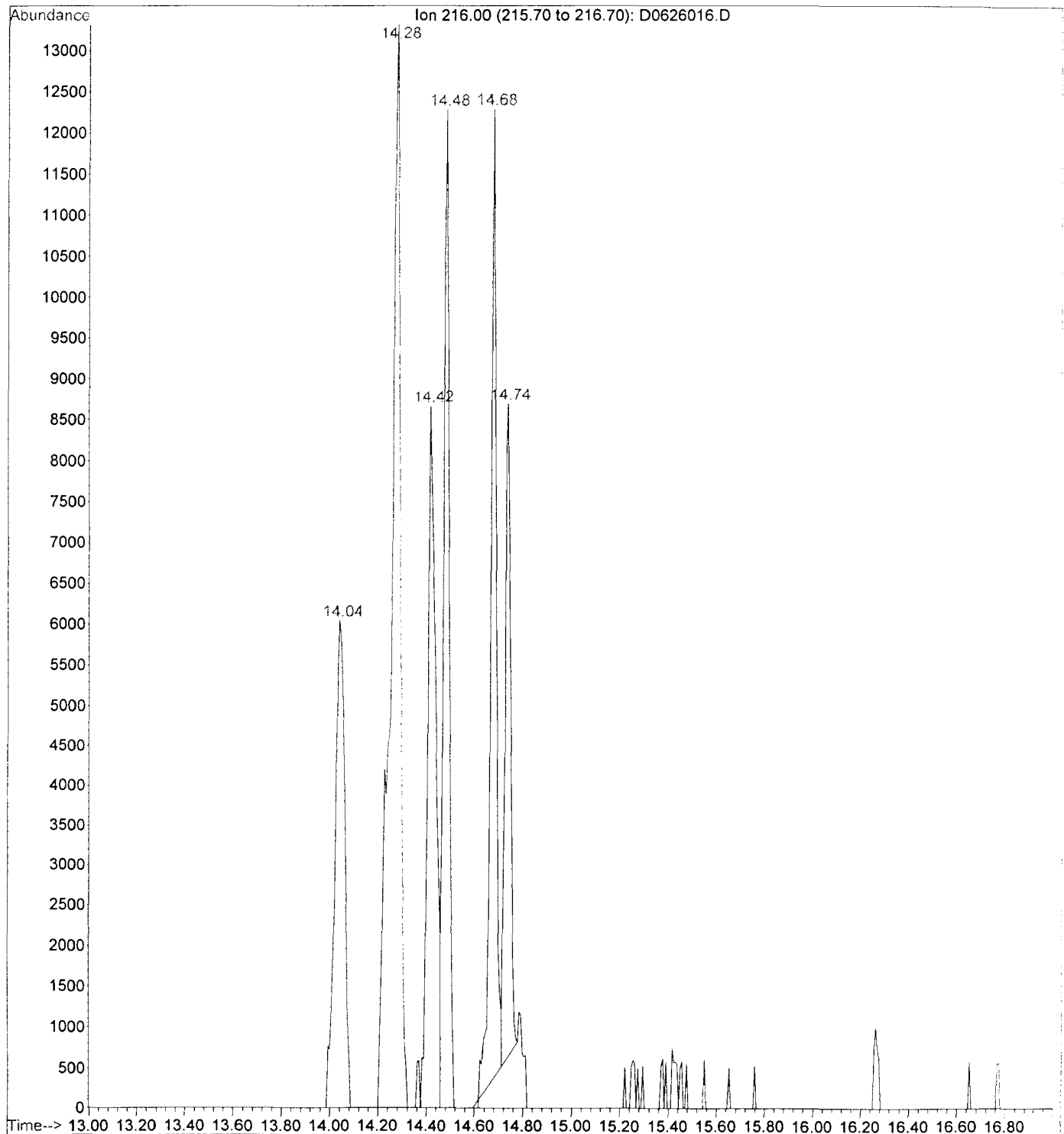
File : D:\NYACK\1NYACK\C1F090124\D0626015.D  
Operator : 001562, DLF  
Acquired : 26 Jun 2001 7:59 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090124-002 soil 6/15/01 clp3.2  
Misc Info : eem8clad,d062601p.b,clp.m,1-3.1.sub  
Vial Number: 17

BSD 19 (0-2)



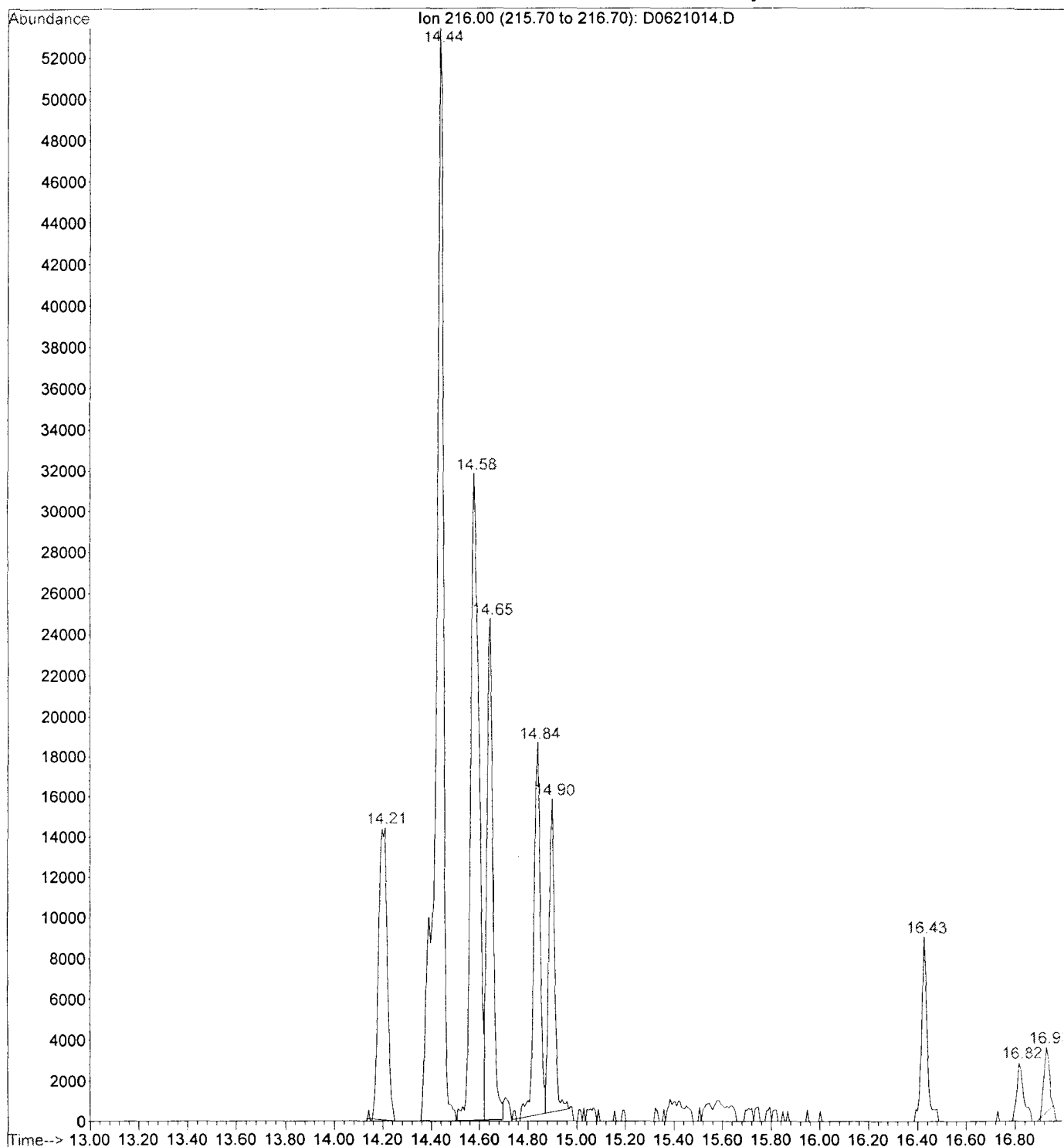
File : D:\NYACK\1NYACK\C1F090124\D0626016.D  
Operator : 001562, DLF  
Acquired : 26 Jun 2001 8:28 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090124-003 soil 6/15/01 clp3.2  
Misc Info : eem8dlad,d062601p.b,clp.m,1-3.1.sub  
Vial Number: 18

RSD 20 (0-2)



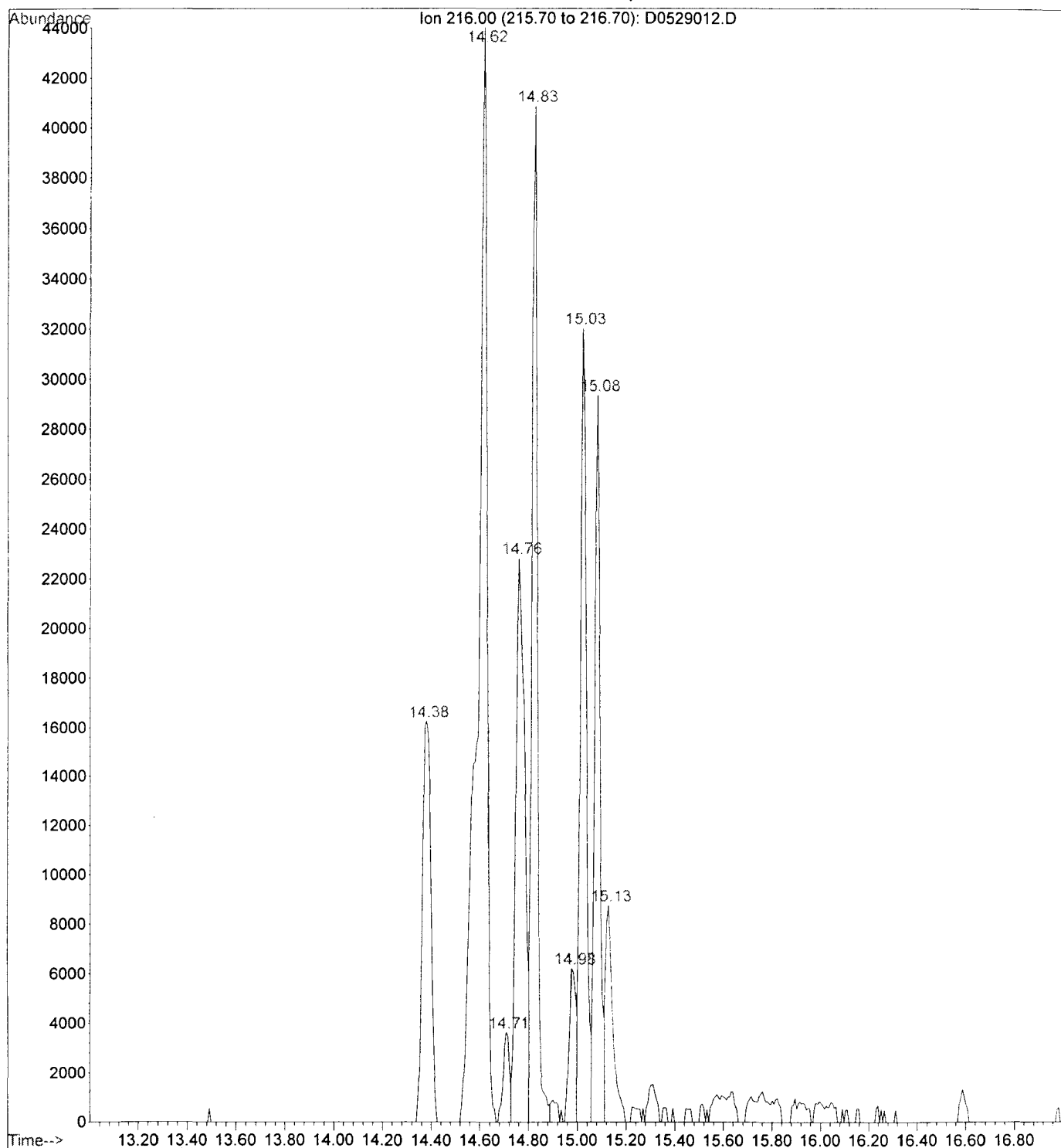
File : D:\NYACK\1NYACK\C1F090120\D0621014.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 8:05 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f090120-004 2x soil 6/12/01 clp3.2  
Misc Info : eem5n1ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 16

BSD8 (0-2)



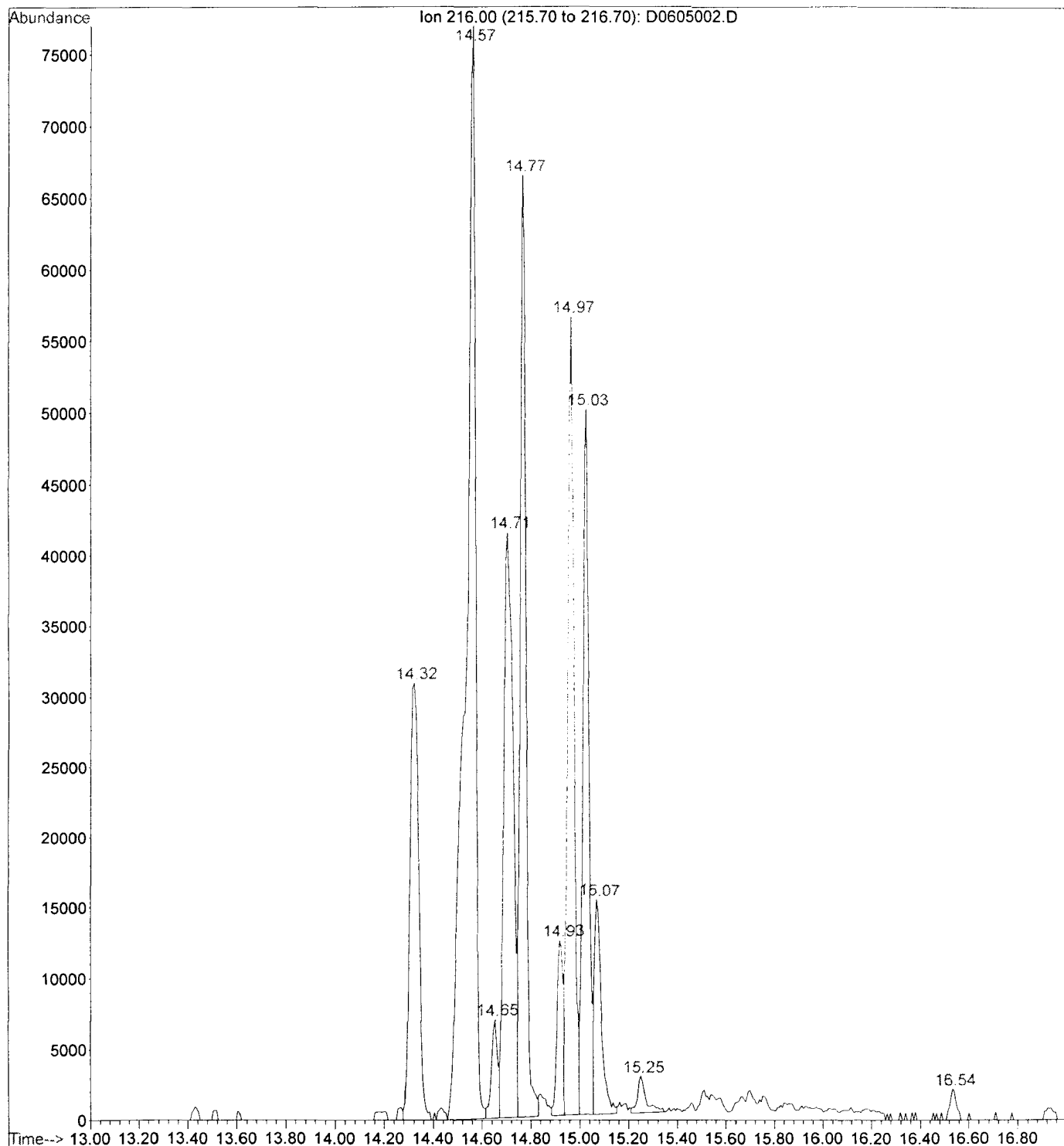
File : D:\NYACK\1NYACK\C1E180181\D0529012.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 7:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-003 20x soil 5/22/01 clp3.2  
Misc Info : edk9mlal,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 14

MW10 D (12-13)



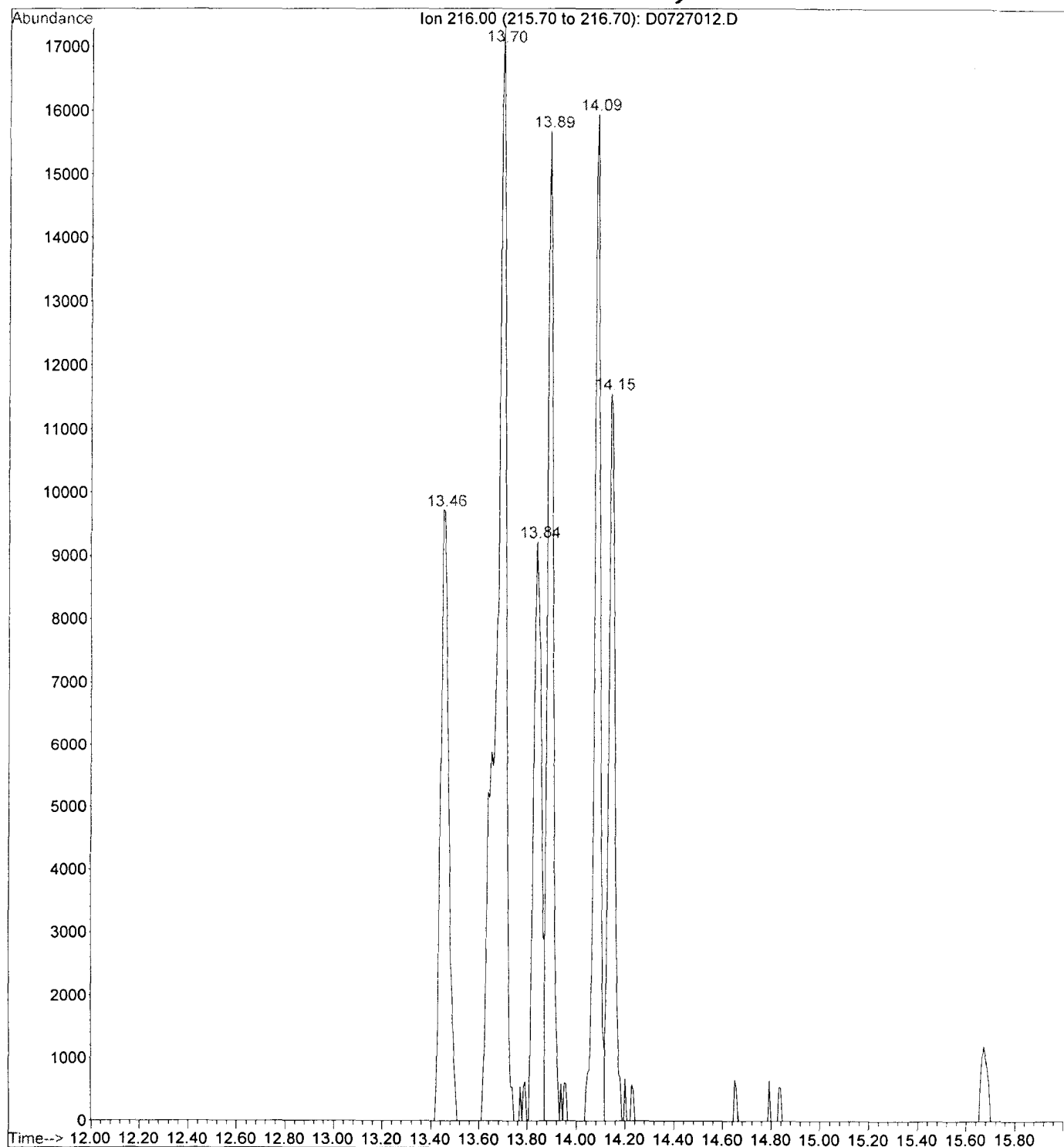
File : D:\NYACK\1NYACK\C1E230237\D0605002.D  
Operator : 001562, DLF  
Acquired : 5 Jun 2001 12:10 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e230237-001 10x soil 5/30/01 clp3.2  
Misc Info : edtk21ad,d060501p.b,clp.m,1-3.1.sub  
Vial Number: 4

MW105(11-12)

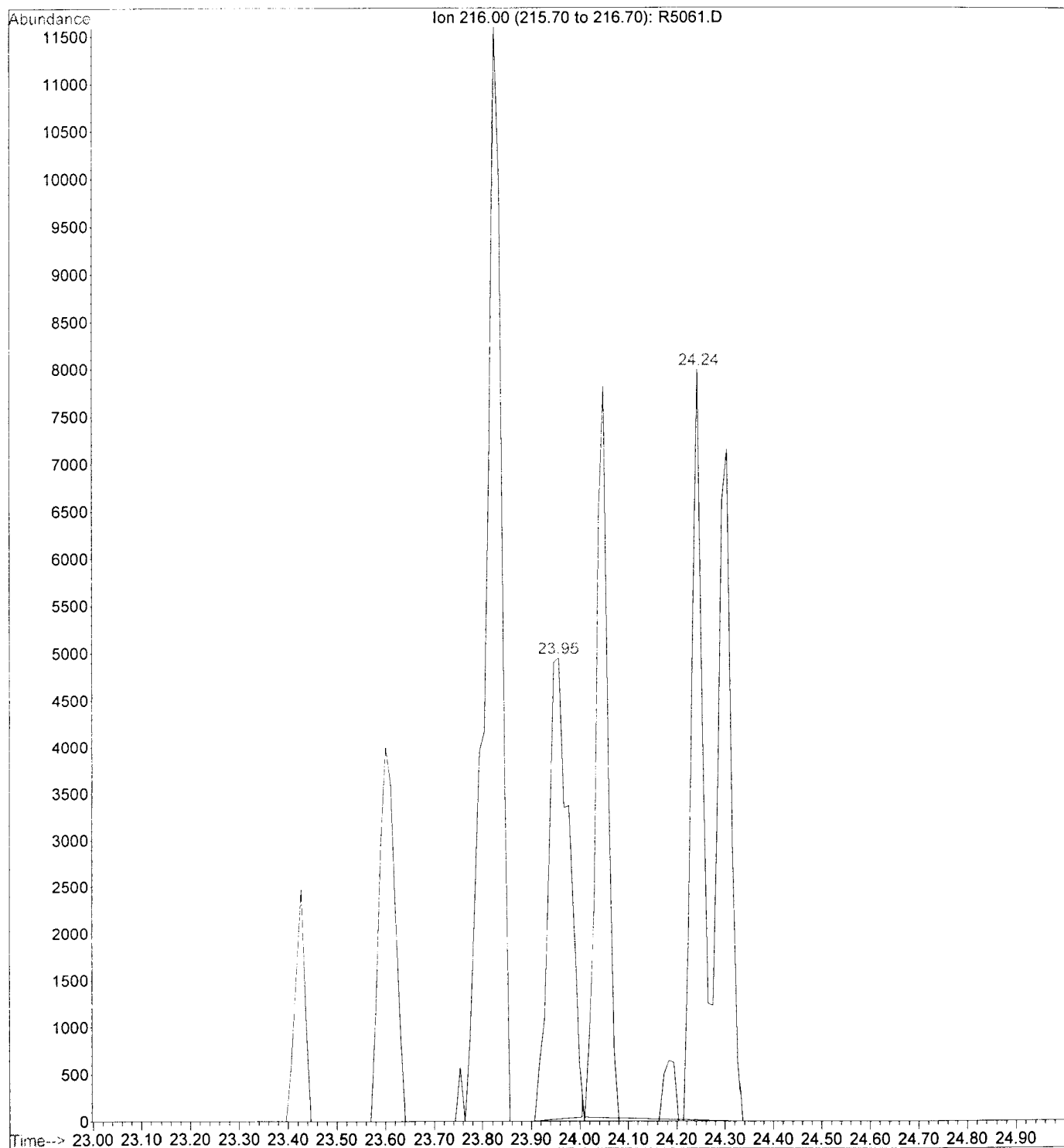


File : D:\NYACK\1NYACK\C1E250124\D0727012.D  
Operator : 001562, DLF  
Acquired : 26 Jul 2001 4:56 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: CIG170143-001 7/18/01 soil clp3.2 (NYACK8)  
Misc Info : egfte1ad,d072601p.b,clp.m,1-3.1.sub  
Vial Number: 14

*mw11-BC(10-11)*

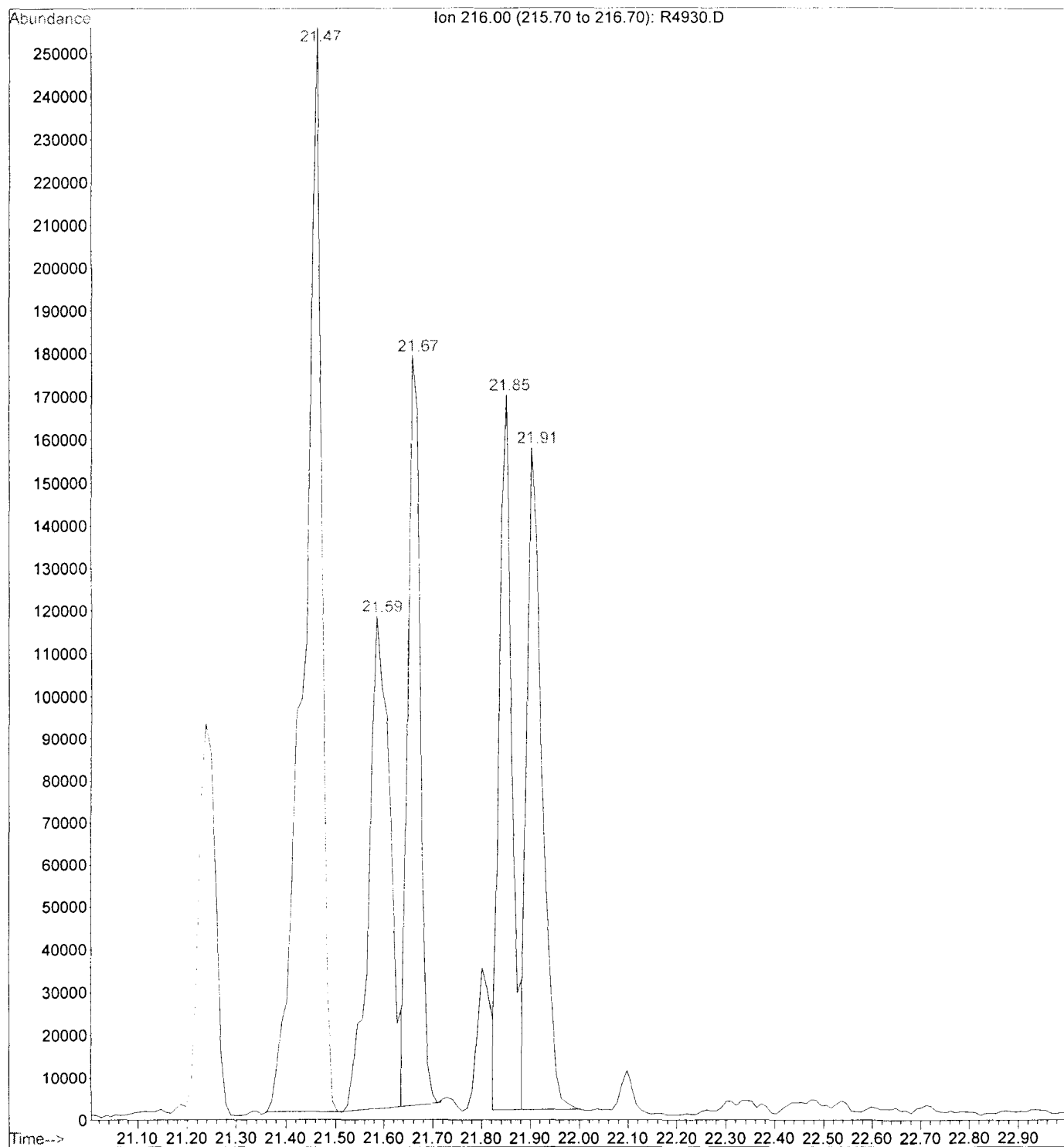


File : D:\HPCHEM\MSR\R5061.D  
Operator : J. Bennett  
Acquired : 15 Nov 1999 9:56 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414C-04  
Misc Info : MW1D (4.0-5.0) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 11

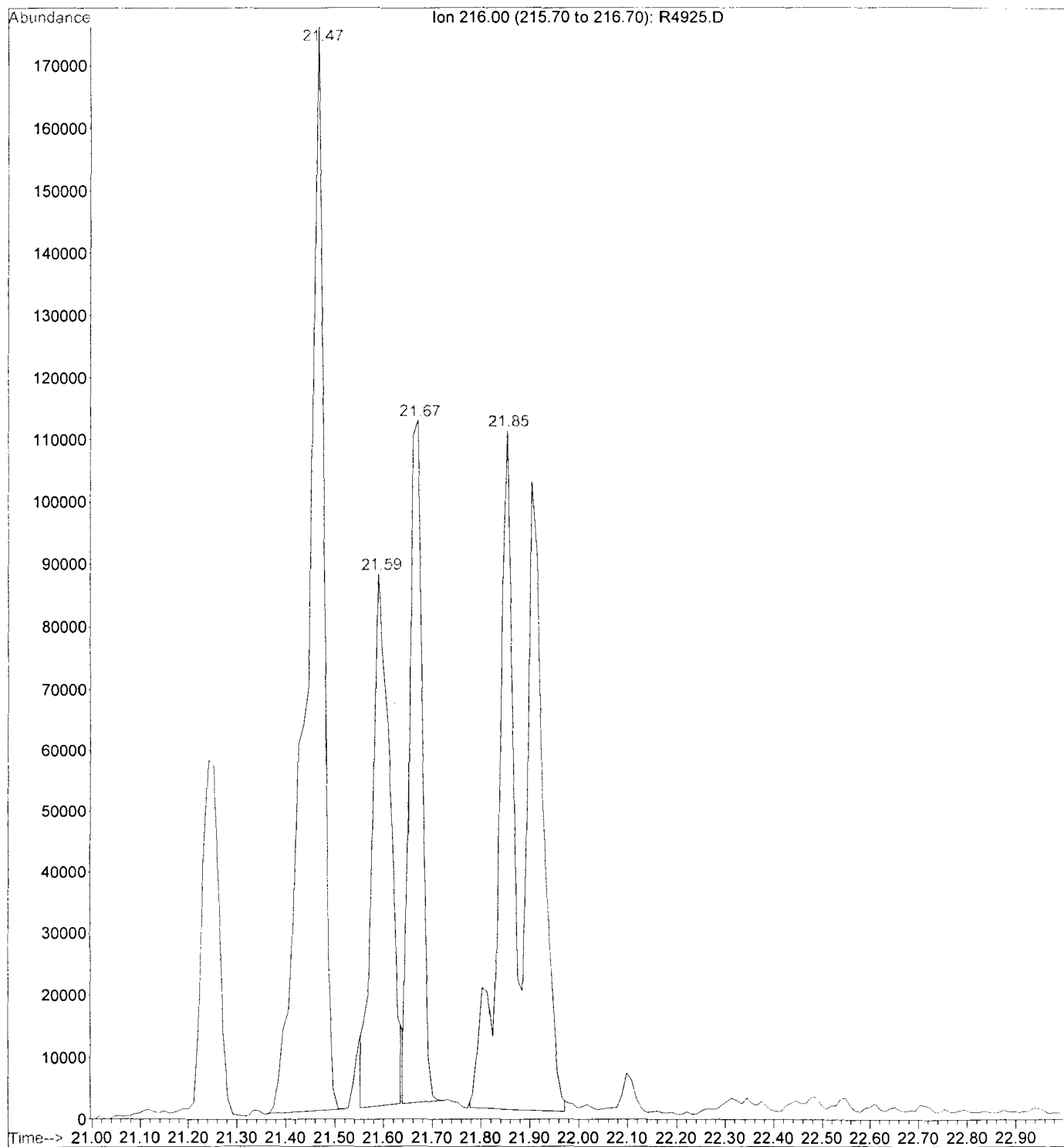




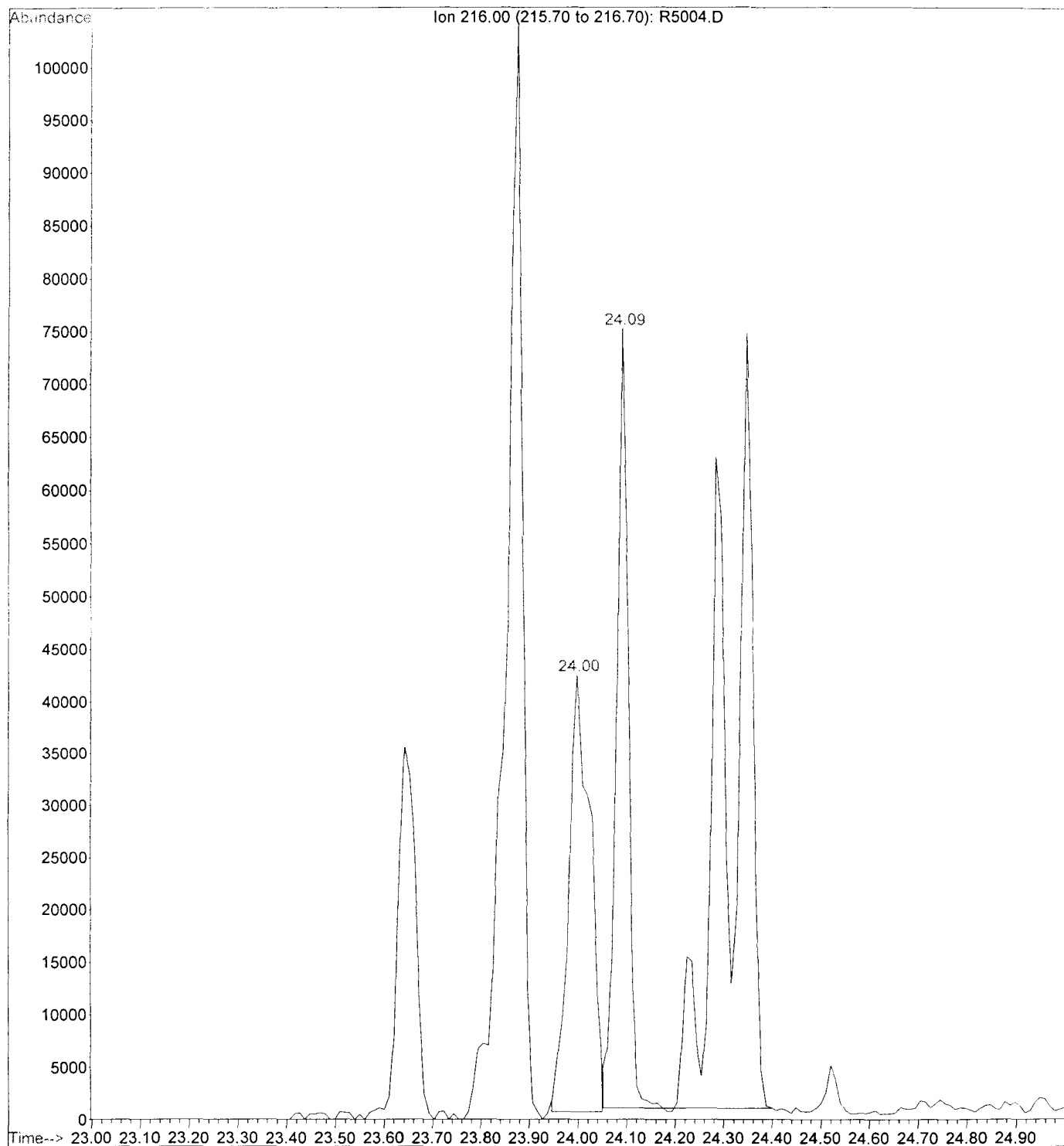
File : D:\HPCHEM\MSR\R4930.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 11:07 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-10  
Misc Info : MW2 (10.0-12.4) ; OLM ; 50 ; LLS ; R0340  
Vial Number: 10



File : D:\HPCHEM\MSR\R4925.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 7:43 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-12  
Misc Info : MW3 (12.0-13.8) ; OLM ; 100 ; LLS ; R0340  
Vial Number: 5

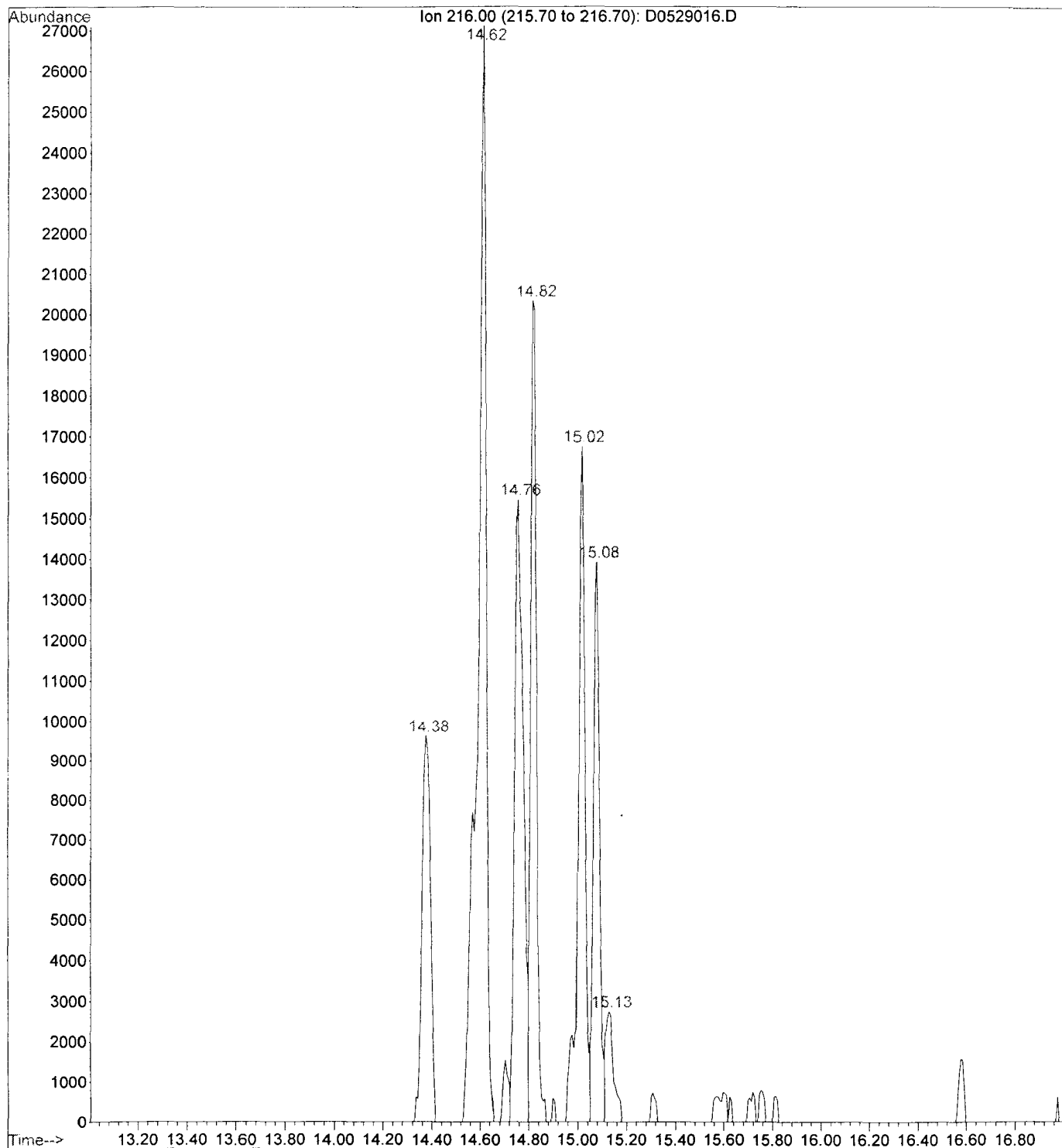


File : D:\HPCHEM\MSR\R5004.D  
Operator : J. Bennett  
Acquired : 12 Nov 1999 3:49 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992746A-01  
Misc Info : MW3D (10.0-12.0) ; OLM ; 100 ; LLS ; SOIL  
Vial Number: 4

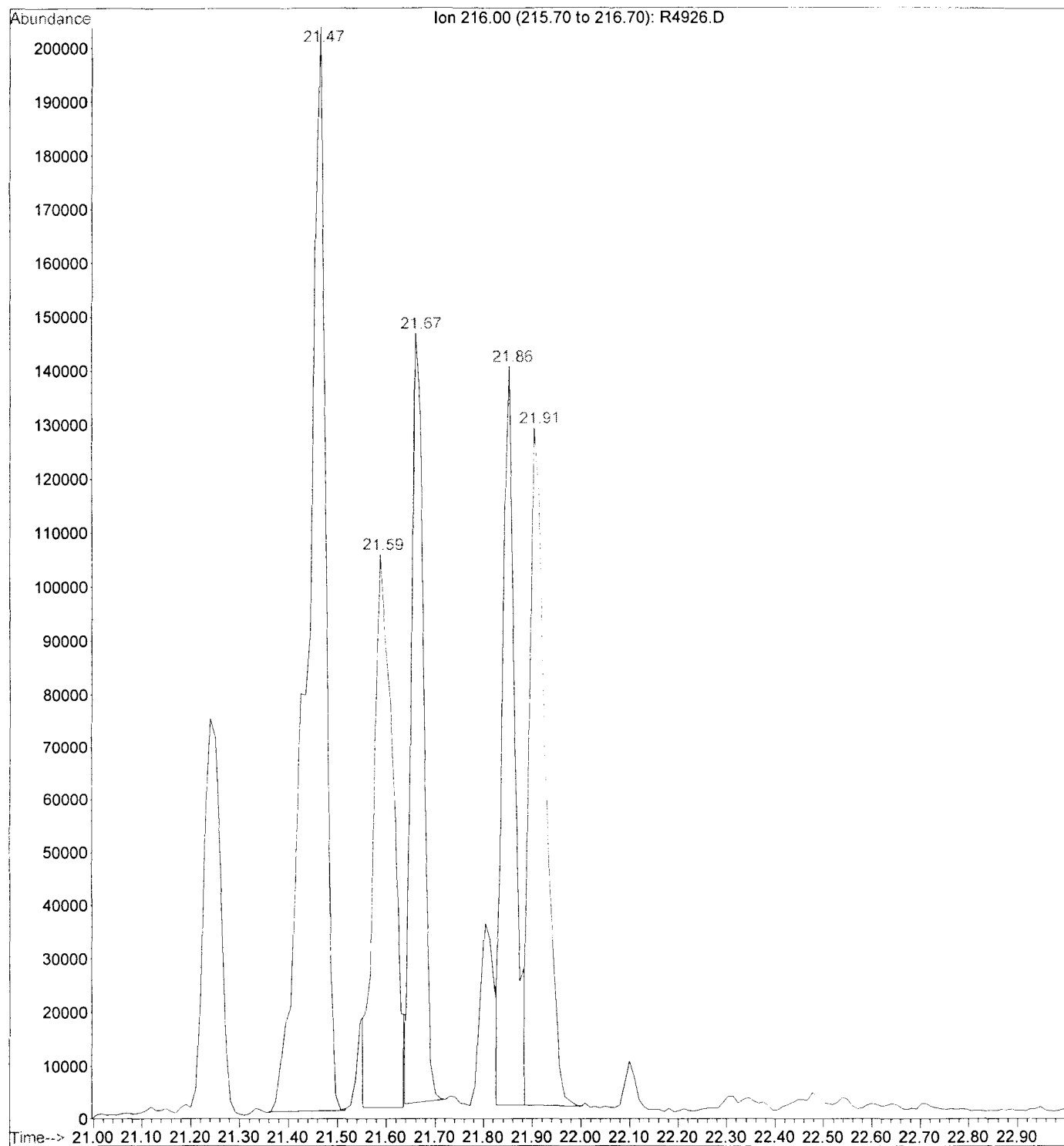


File : D:\NYACK\1NYACK\C1E180181\D0529016.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 9:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-008 2x soil 5/22/01 clp3.2  
Misc Info : edlh31a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 18

MW35-CH(10-12)

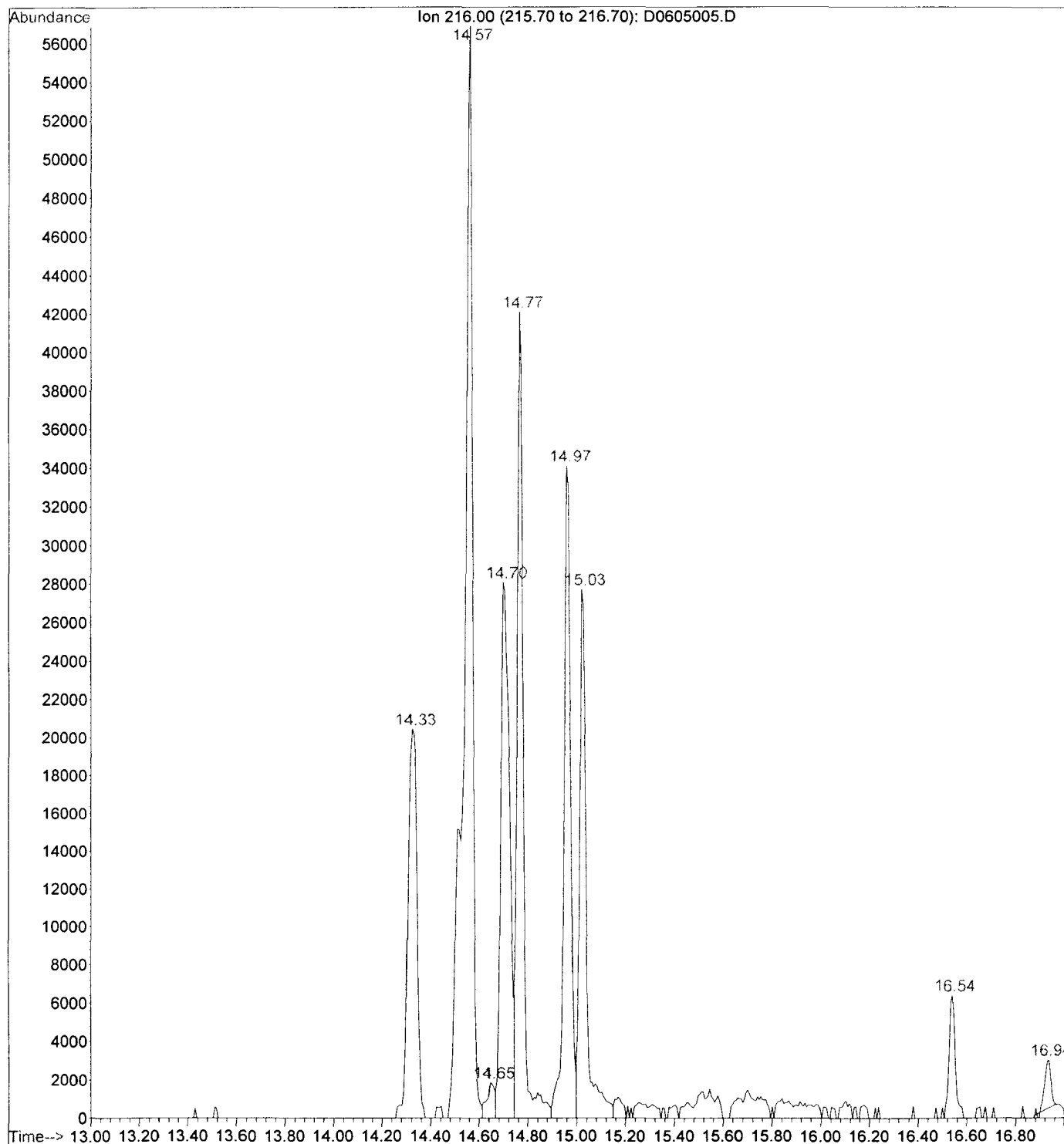


File : D:\HPCHEM\MSR\R4926.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 8:24 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992477A-03  
Misc Info : MW4 (12.0-13.1); OLM ; 100 ; LLS ; R0340  
Vial Number: 6

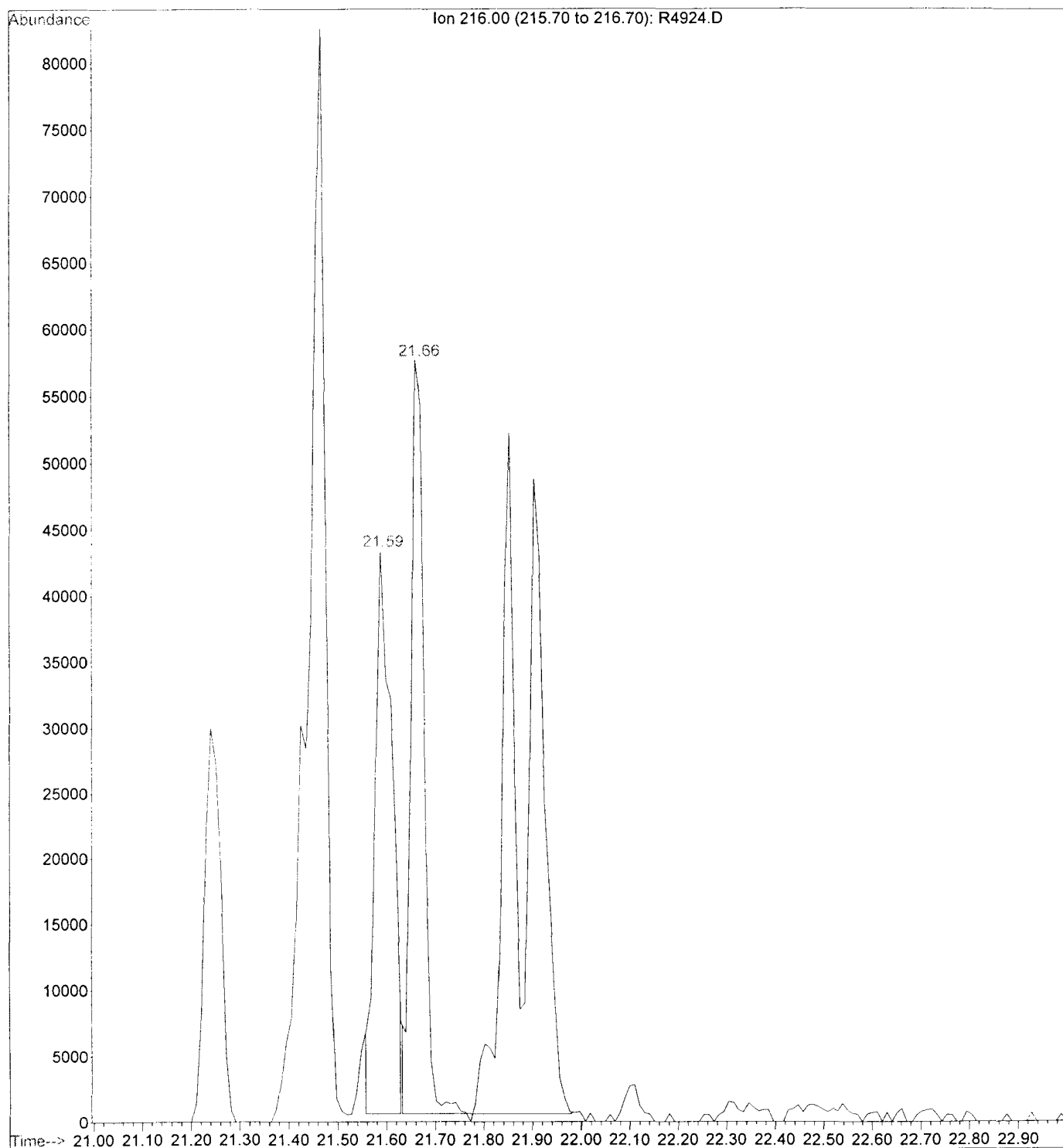


File : D:\NYACK\1NYACK\C1E250124\D0605005.D  
Operator : 001562, DLF  
Acquired : 5 Jun 2001 1:42 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e250124-001 2x soil 5/30/01 clp3.2  
Misc Info : edx811ad,d060501p.b,clp.m,1-3.1.sub  
Vial Number: 7

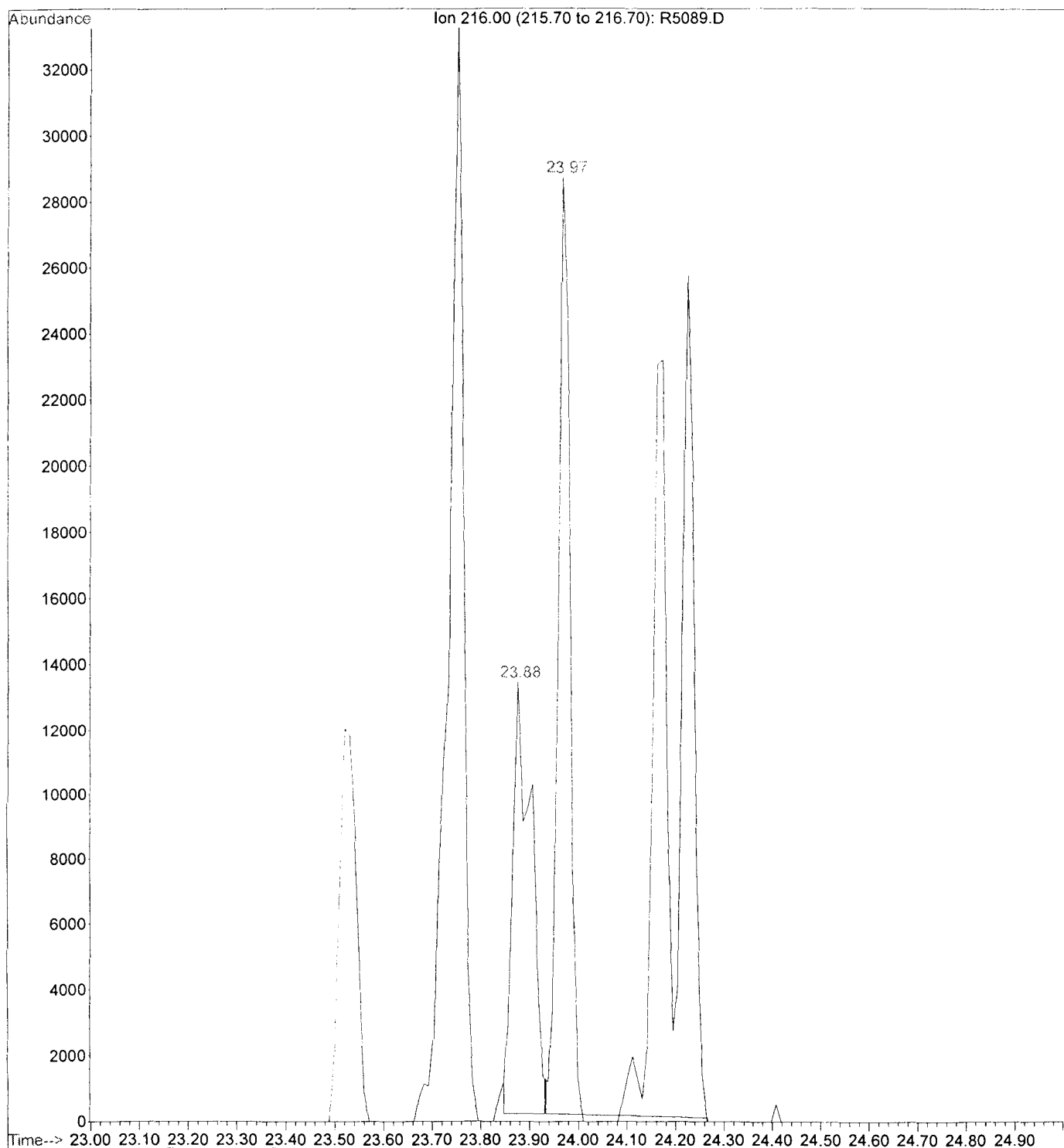
mw4-CH (6-8)



File : D:\HPCHEM\MSR\R4924.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 7:02 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-11  
Misc Info : MW5 (14.0-16.0) ; OLM ; 1000 ; LLS ; R0340  
Vial Number: 4

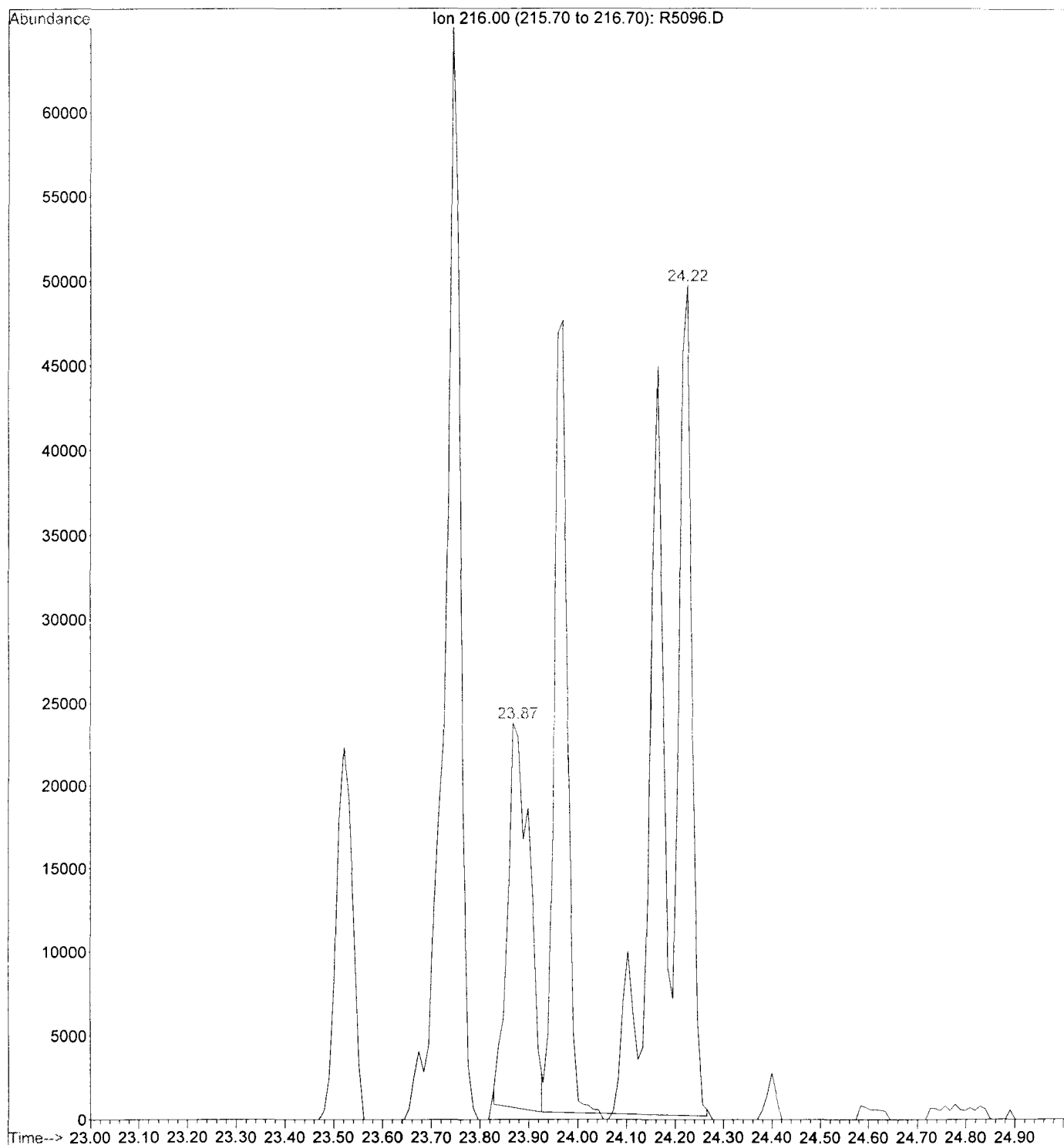


File : D:\HPCHEM\MSR\R5089.D  
Operator : J. Bennett  
Acquired : 17 Nov 1999 8:27 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992797A-01  
Misc Info : MW5D (2.0-4.0); OLM ; 1000 ; LLS ; SOIL  
Vial Number: 1

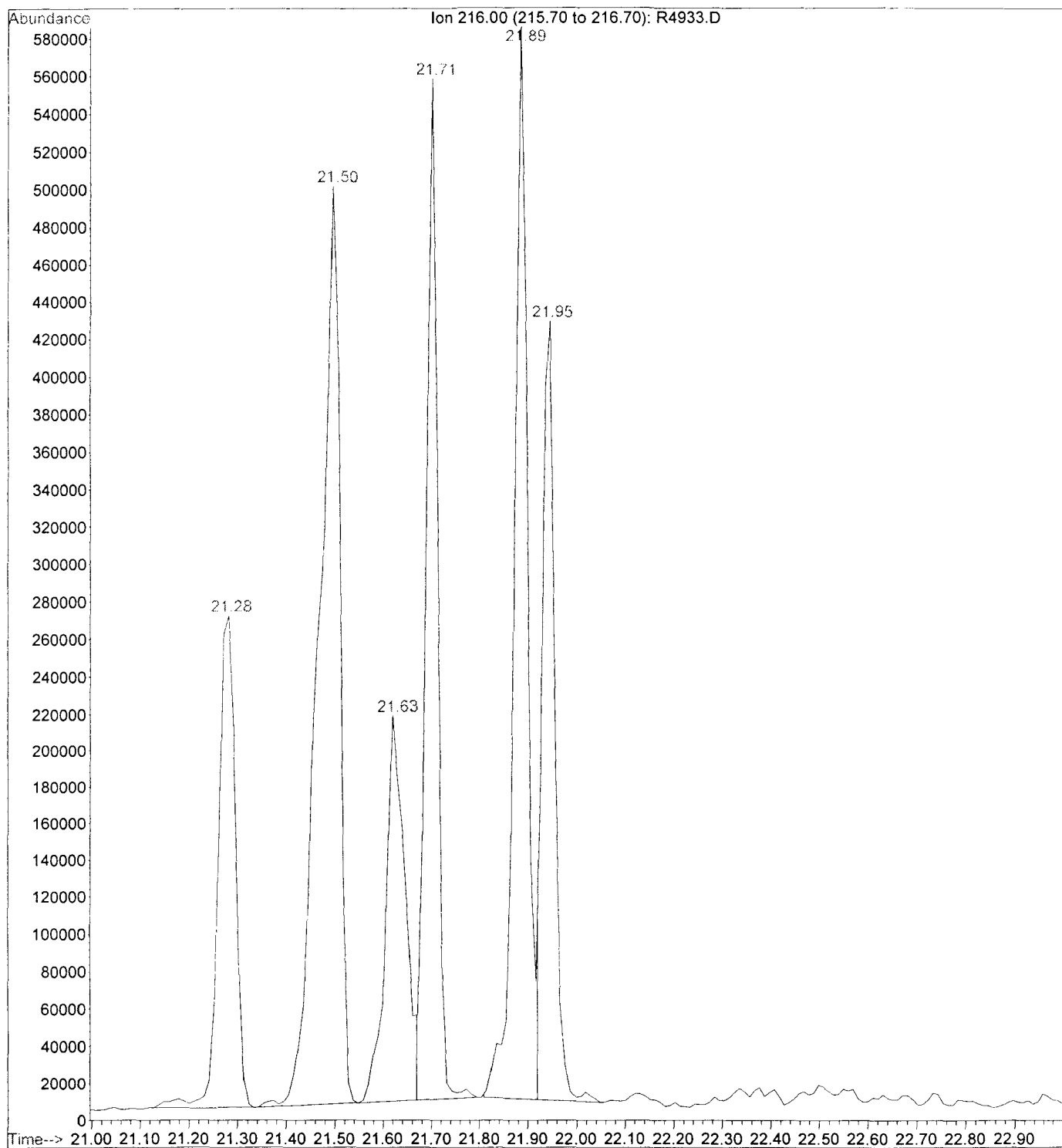




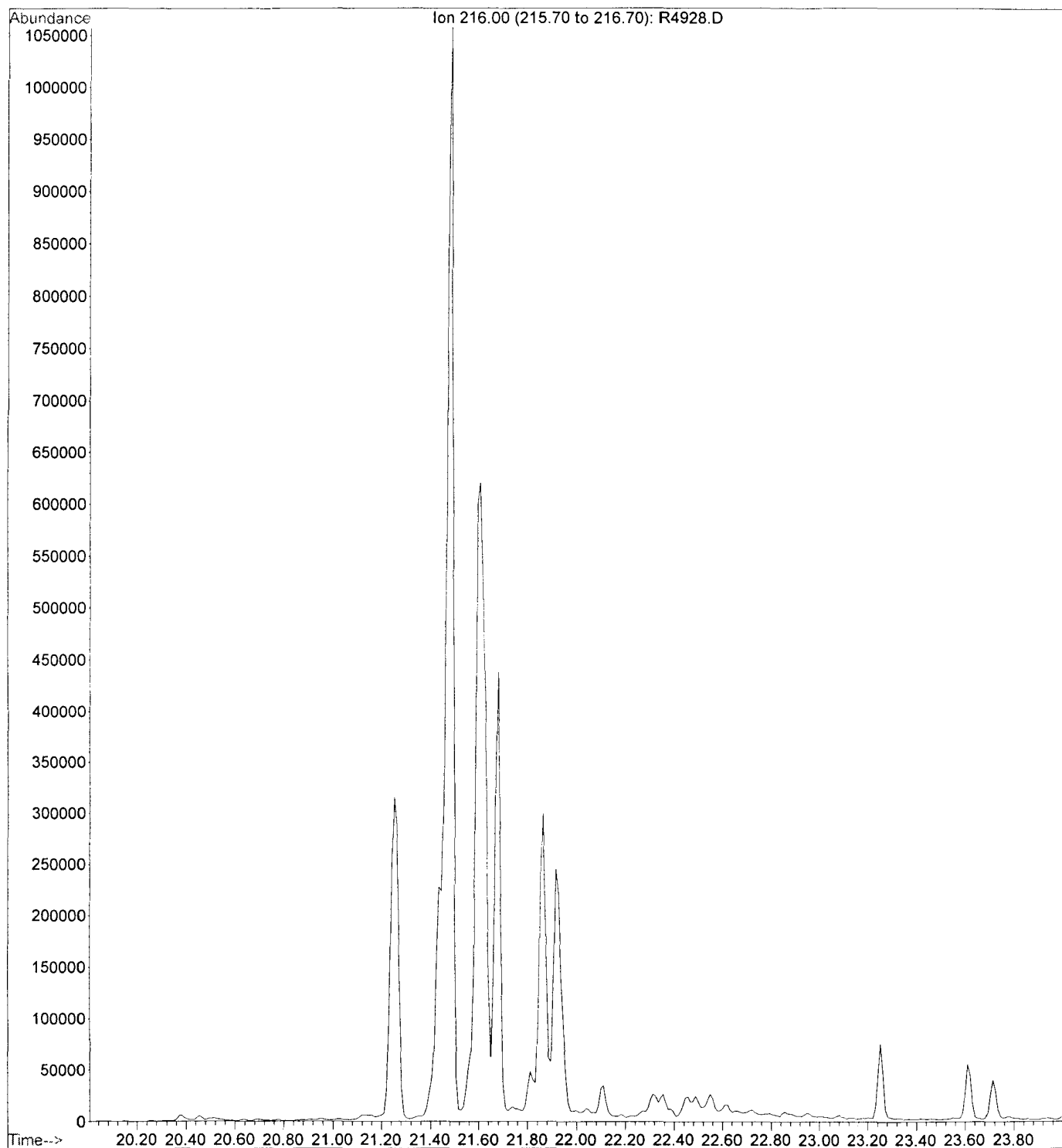
File : D:\HPCHEM\MSR\R5096.D  
Operator : J. Bennett  
Acquired : 17 Nov 1999 1:34 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414C-02  
Misc Info : MW6D (4.0-6.0) ; OLM ; 400 ; LLS ; SOIL  
Vial Number: 8



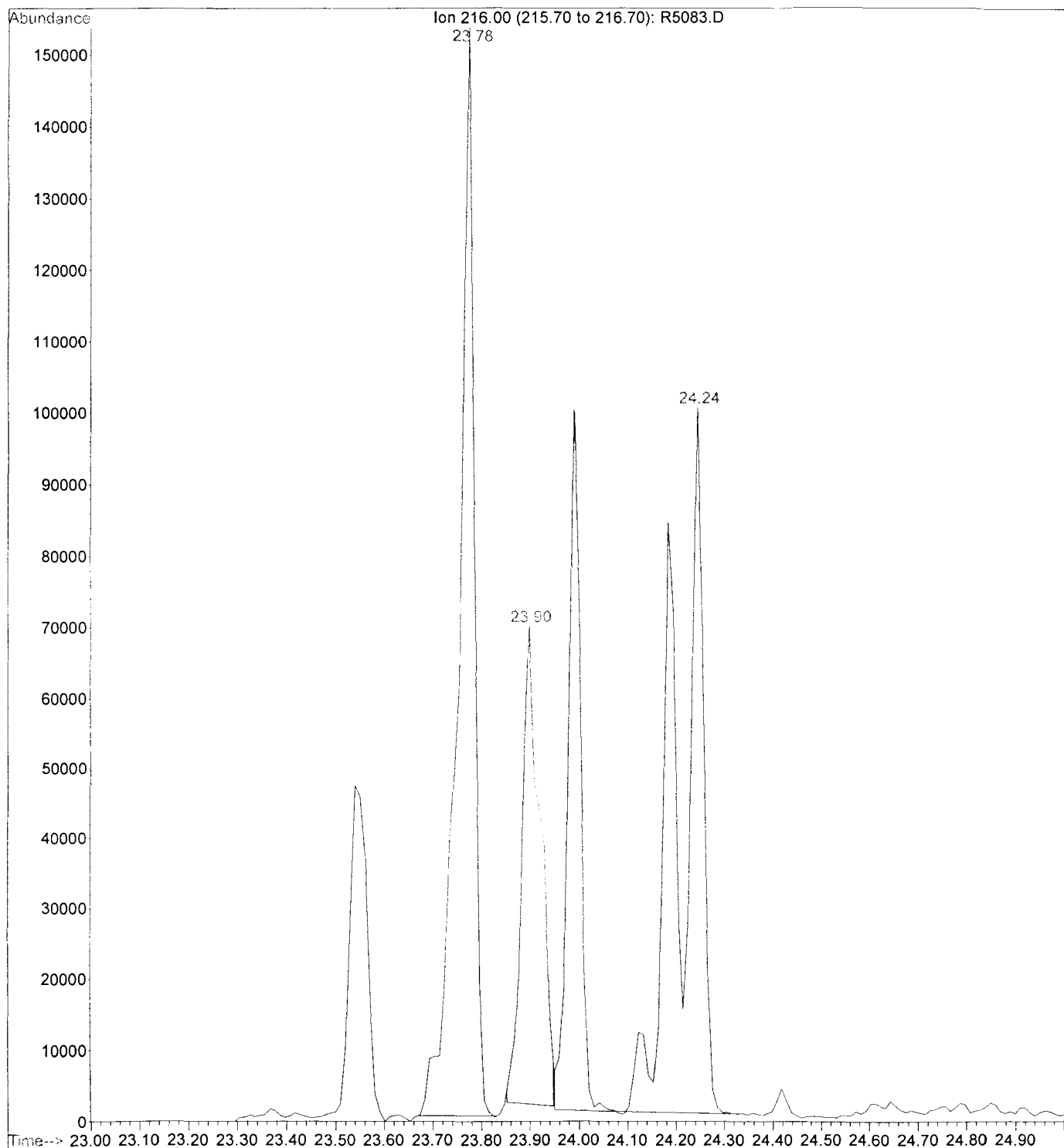
File : D:\HPCHEM\MSR\R4933.D  
Operator : J. Bennett  
Acquired : 4 Nov 1999 1:10 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-14  
Misc Info : MW6IO (4.0-6.0) ; OLM ; 5; LLS ; R0340  
Vial Number: 13



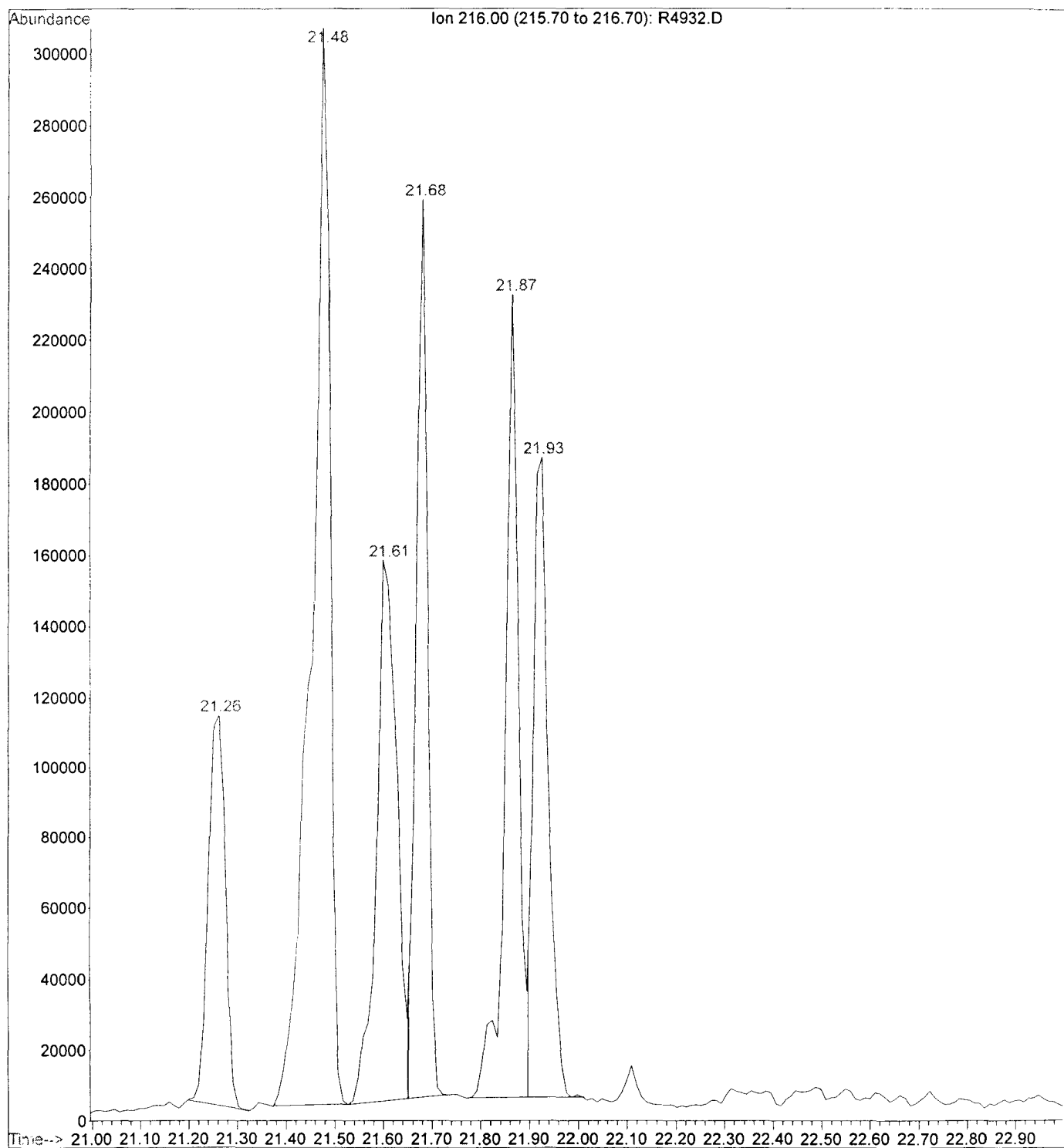
File : D:\HPCHEM\MSR\R4928.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 9:46 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-09  
Misc Info : MW7 (10-12) ; OLM ; 100 ; LLS ; R0340  
Vial Number: 8



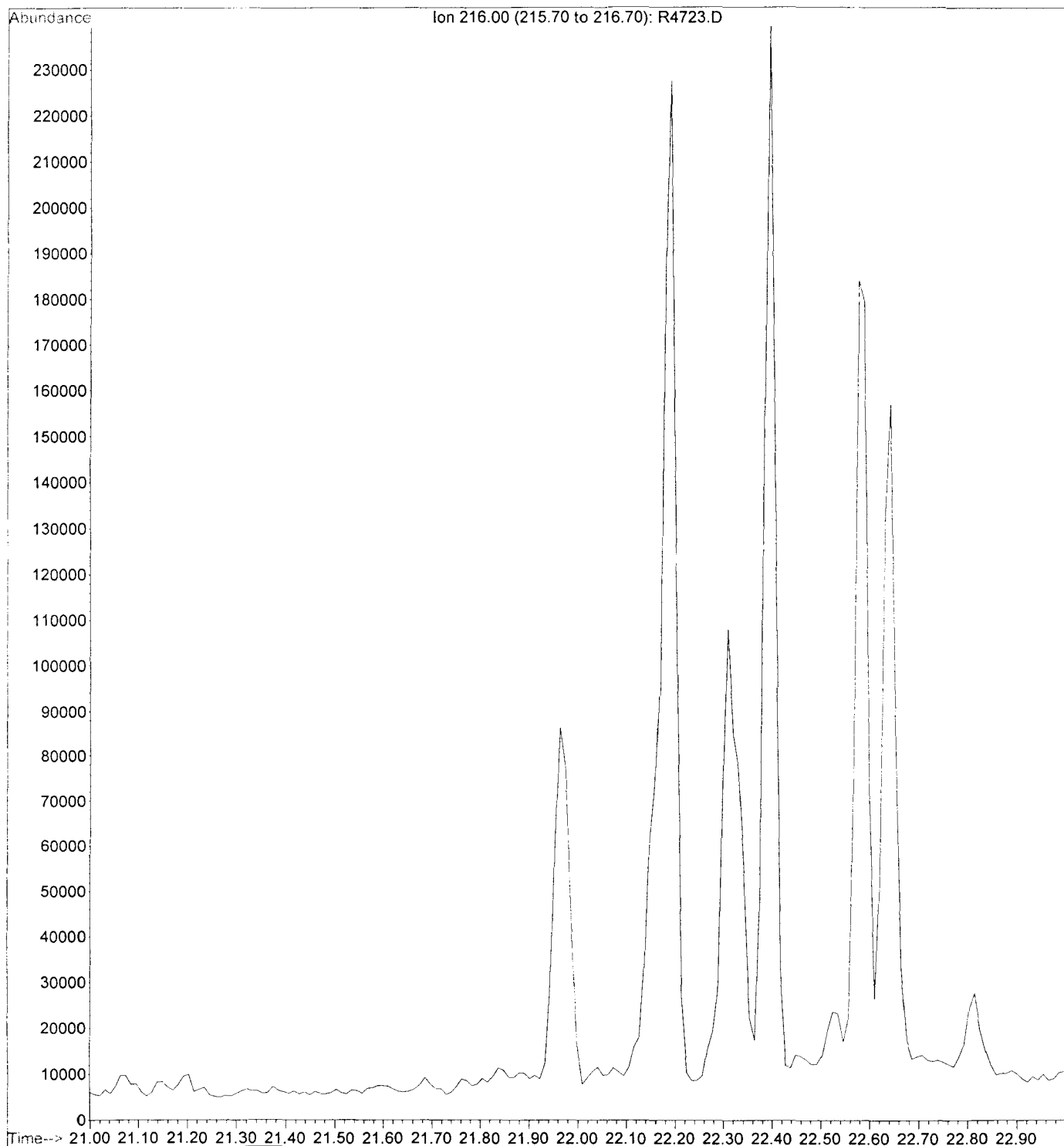
File : D:\HPCHEM\MSR\R5083.D  
Operator : J. Bennett  
Acquired : 16 Nov 1999 10:49 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414C-01  
Misc Info : MW7D (14.0-16.0) ; OLM ; 1; LLS ; SOIL  
Vial Number: 13



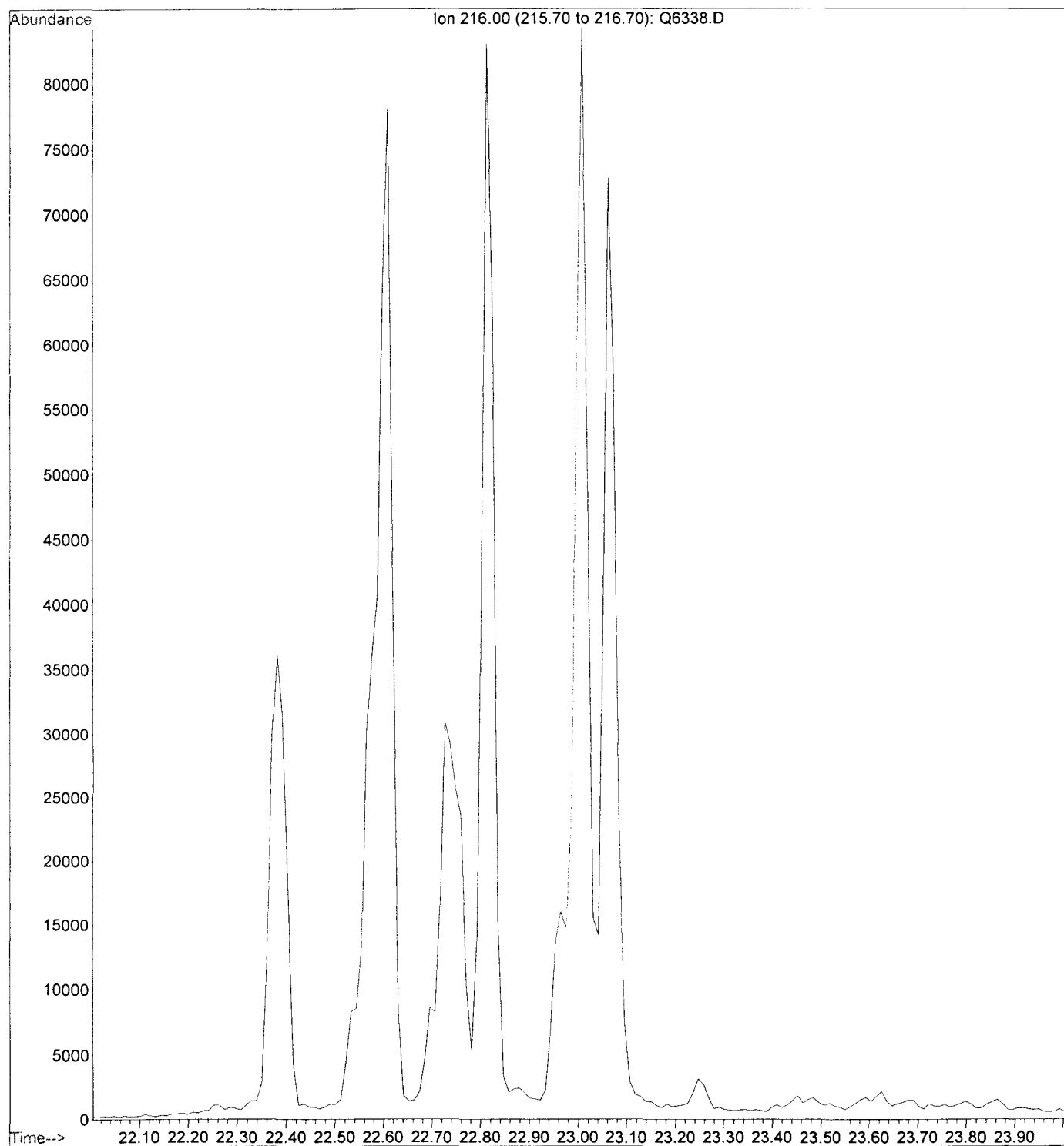
File : D:\HPCHEM\MSR\R4932.D  
Operator : J. Bennett  
Acquired : 4 Nov 1999 12:28 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-15  
Misc Info : MW8D (10.0-11.3) ; OLM ; 10 ; LLS ; R0340  
Vial Number: 12



File : D:\HPCHEM\MSR\R4723.D  
Operator : C.LOMBARDI  
Acquired : 20 Oct 1999 6:46 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-16  
Misc Info : SB1 (10-12); OLM ; 1 ; LLS ; R0323  
Vial Number: 14

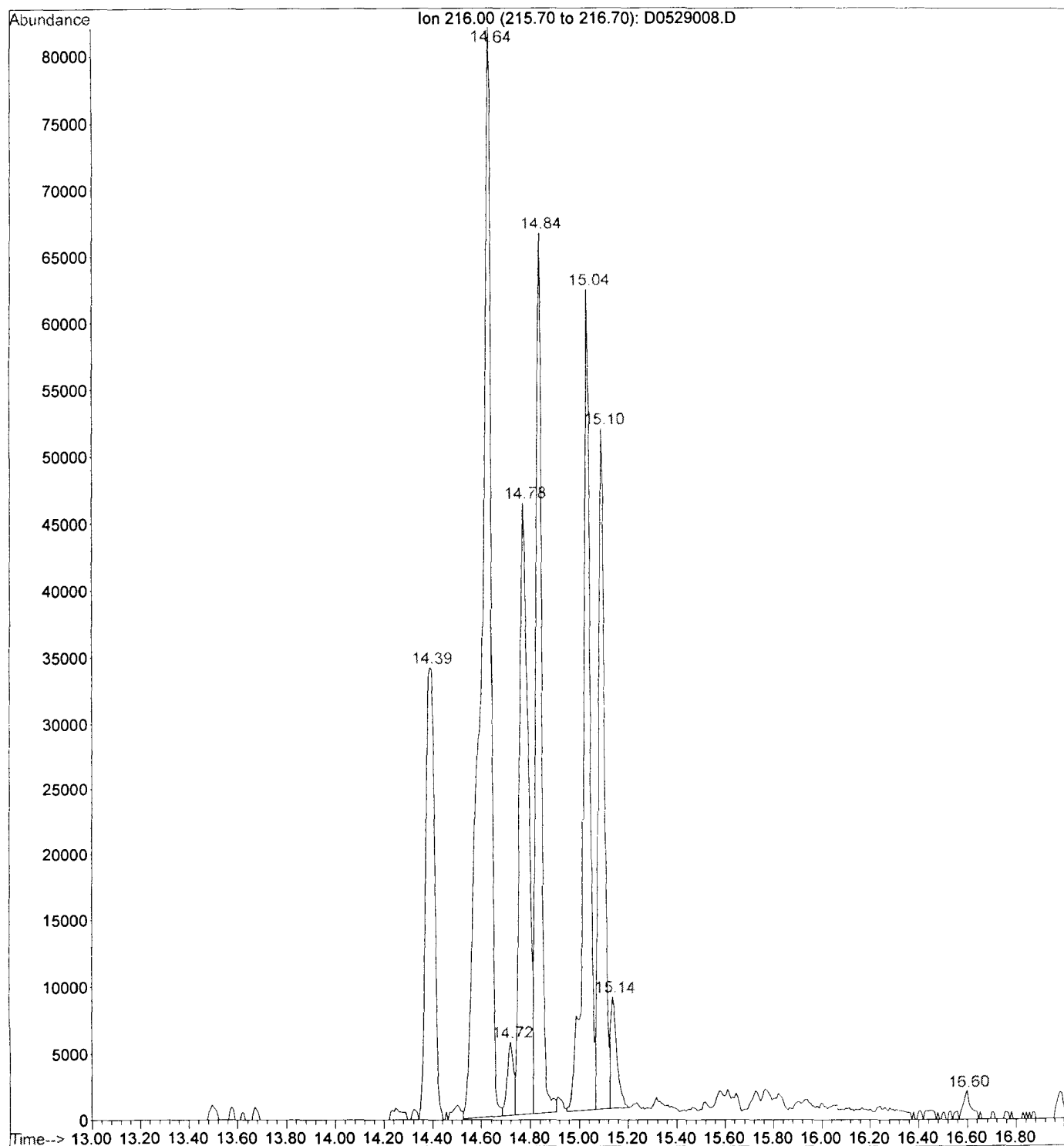


File : D:\HPCHEM\MSQ\Q6338.D  
Operator : C.LOMBARDI  
Acquired : 24 Nov 1999 9:03 pm using AcqMethod MSQSOC  
Instrument : HP5971Q  
Sample Name: 992973A-02  
Misc Info : SB11 (4.0-6.0) ; SWC ; 100 ; LLS ; Q0407  
Vial Number: 9



File : D:\NYACK\1NYACK\C1E190109\D0529008.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 5:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e190109-002 50x soil 5/22/01 clp3.2  
Misc Info : edmkx1ag,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 10

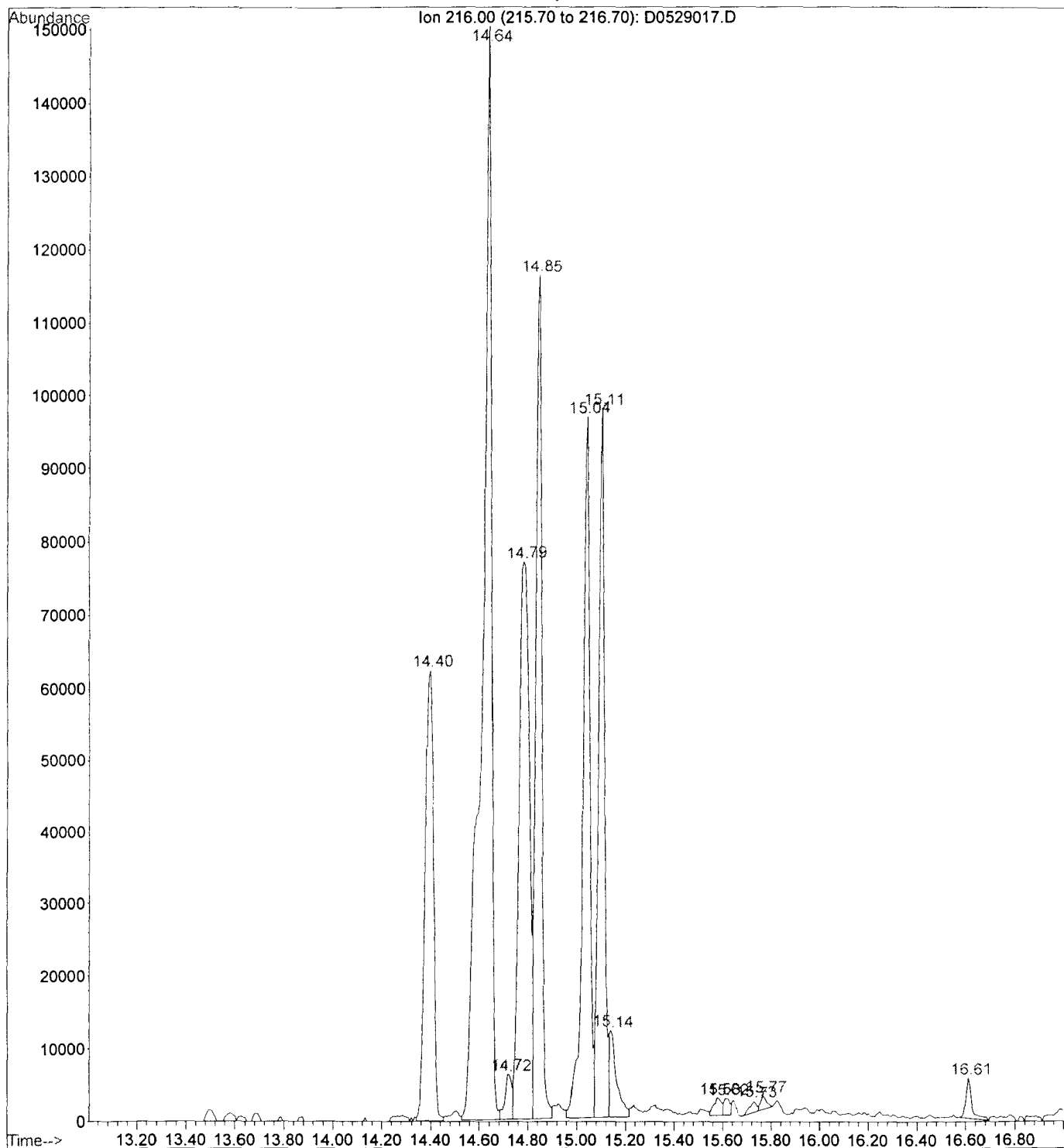
SB13 (8-10)





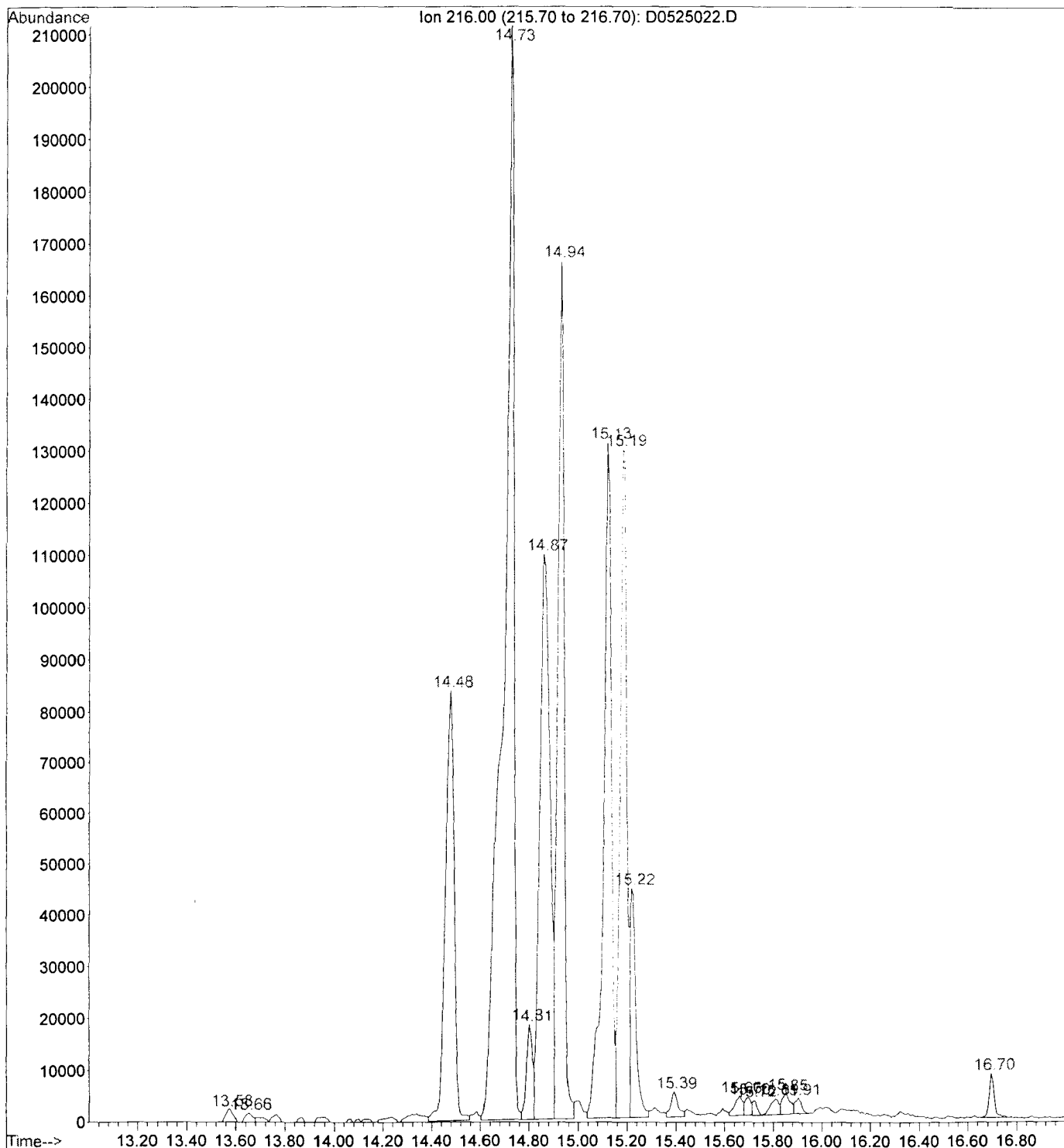
File : D:\NYACK\1NYACK\C1E180181\D0529017.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 9:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-009 100x soil 5/22/01 clp3.2  
Misc Info : edlh51a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 19

SB 14 (8-12)



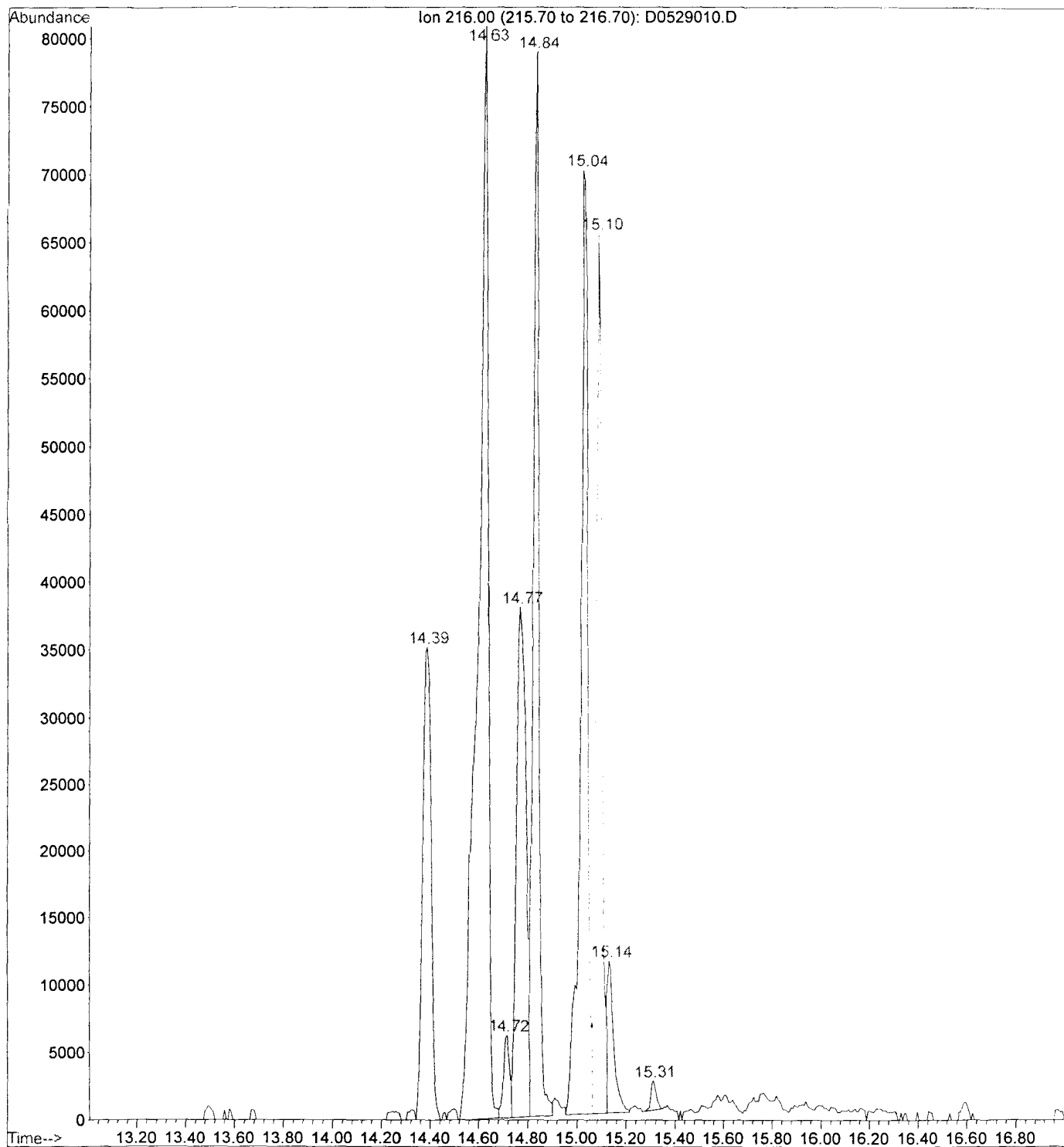
File : D:\NYACK\1NYACK\C1E180181\D0525022.D  
Operator : 001562, DLF  
Acquired : 26 May 2001 12:49 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-006 soil 5/22/01 clp3.2  
Misc Info : edlgelal,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 24

SB15(12-15.2)



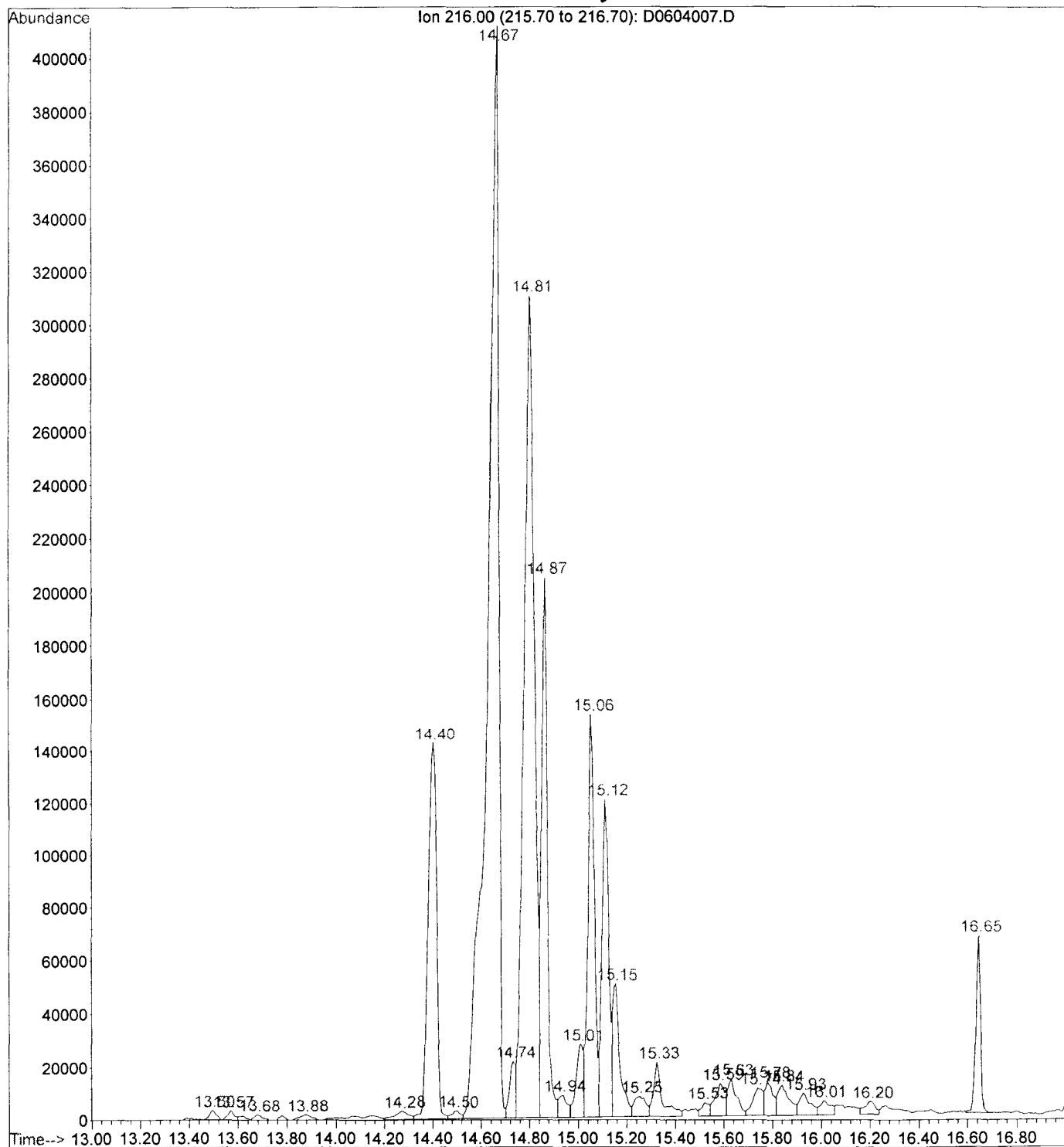
File : D:\NYACK\1NYACK\C1E190109\D0529010.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 6:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e190109-004 100x soil 5/22/01 clp3.2  
Misc Info : edmk11ag,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 12

SB(6 (8-10))



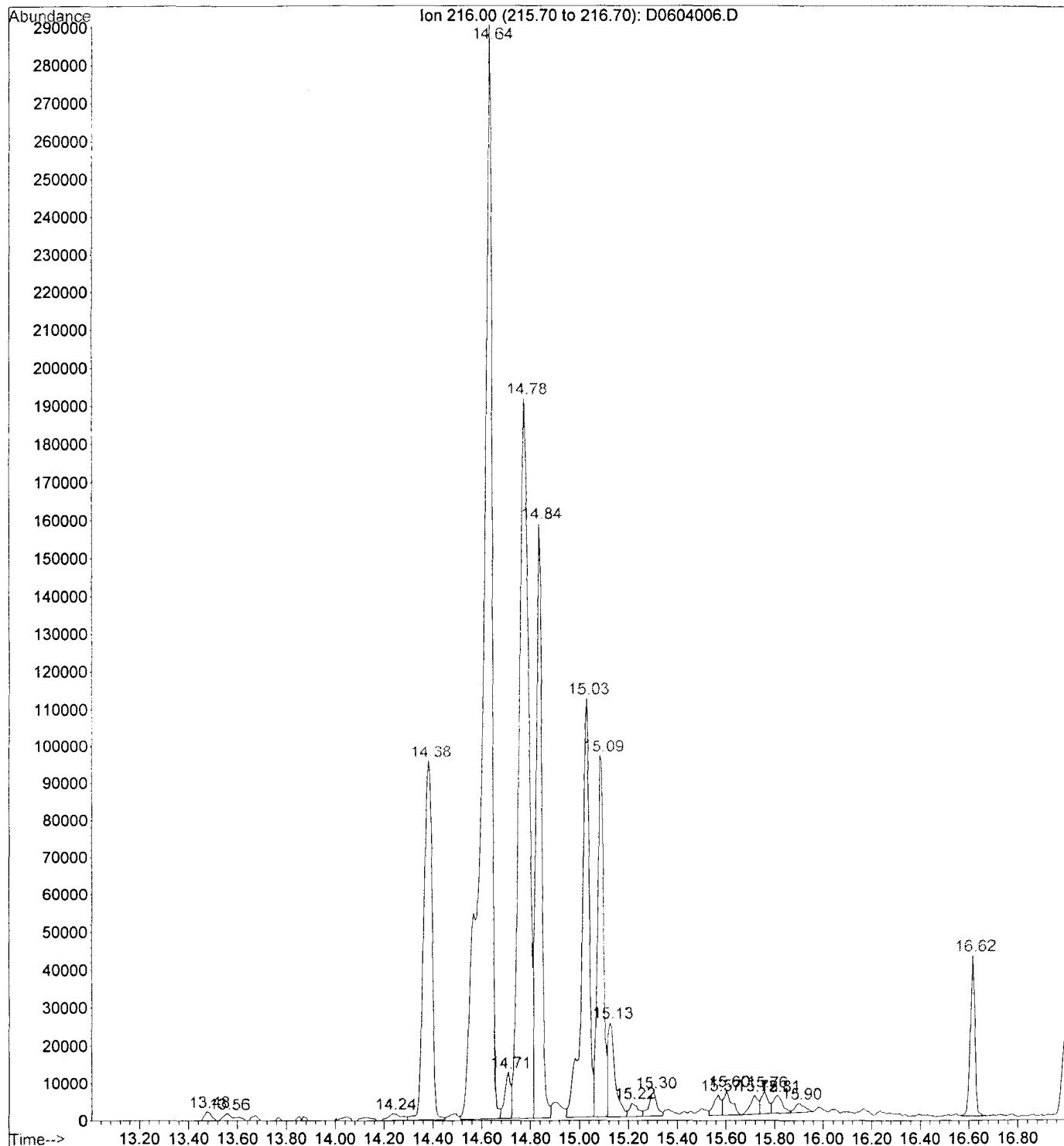
File : D:\NYACK\1NYACK\C1E230237\D0604007.D  
Operator : 001562, DLF  
Acquired : 4 Jun 2001 4:10 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e230237-003 40x(2ml) soil 5/30/01 clp3.2  
Misc Info : edt1a1a1,d060401p.b,clp.m,1-3.1.sub  
Vial Number: 9

SB17 (10-12)

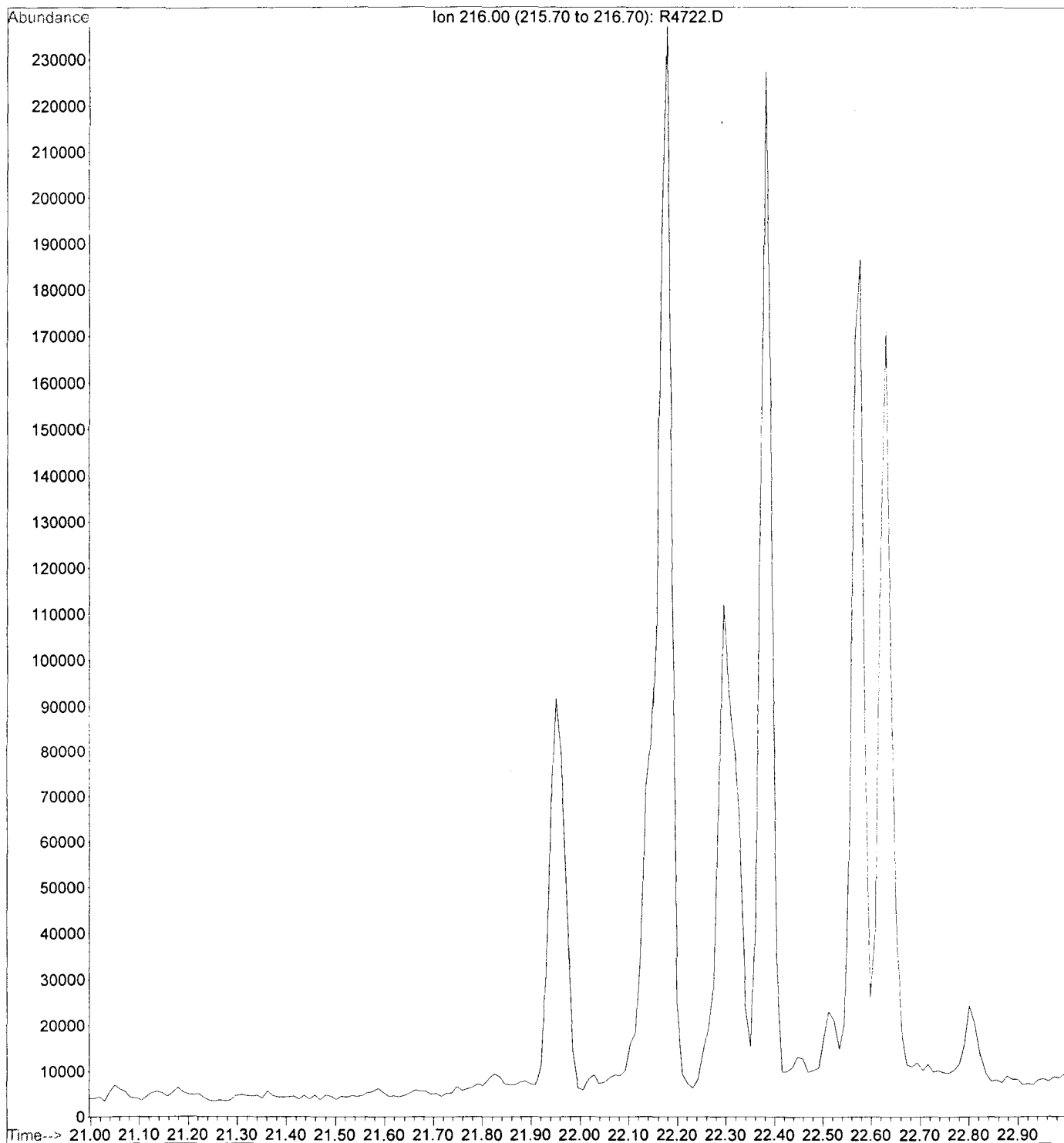


File : D:\NYACK\1NYACK\C1E230237\D0604006.D  
Operator : 001562, DLF  
Acquired : 4 Jun 2001 3:39 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e230237-002 10x soil 5/30/01 clp3.2  
Misc Info : edtk71a1,d060401p.b,clp.m,1-3.1.sub  
Vial Number: 8

5818 (11 - 11.5)

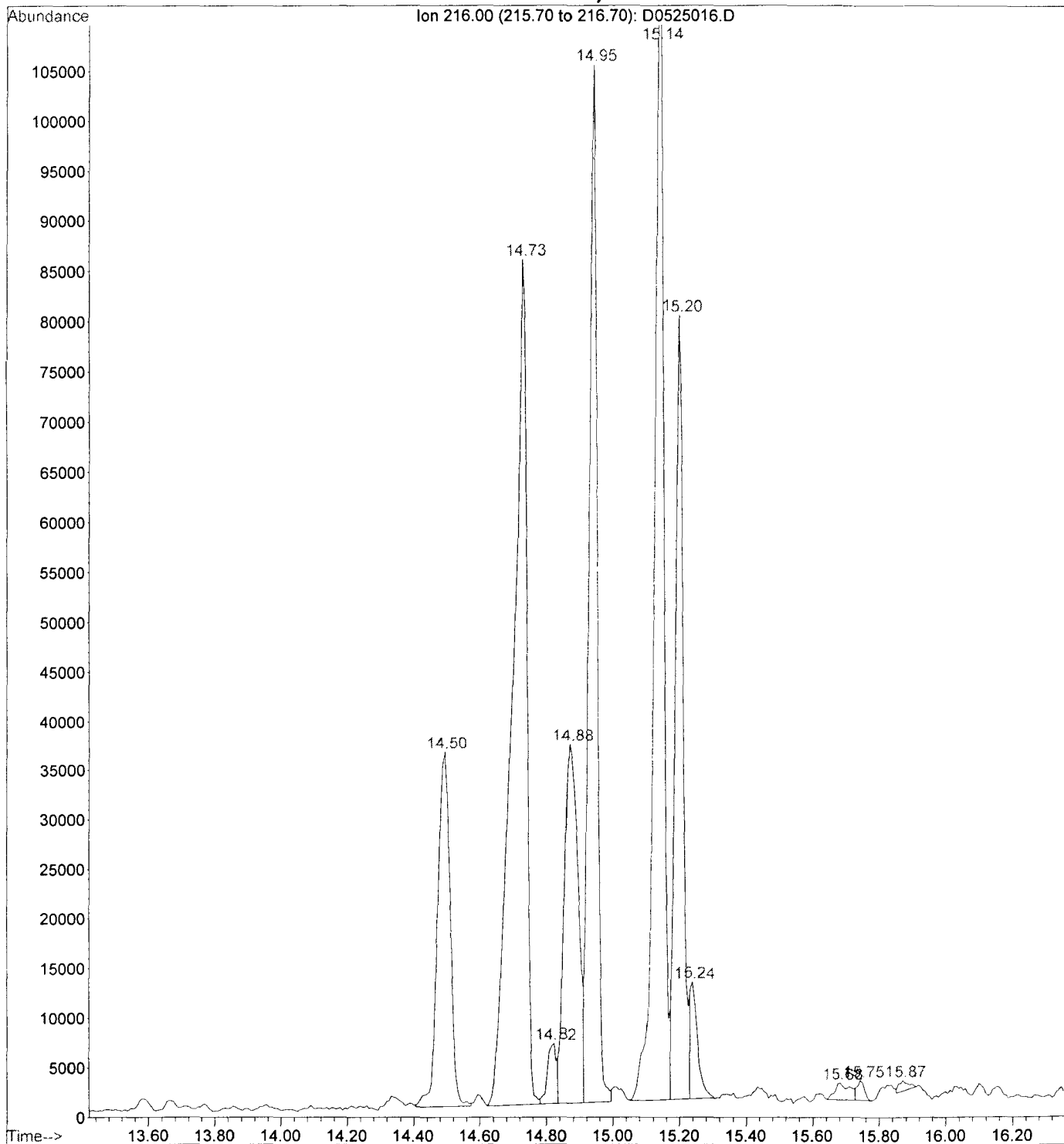


File : D:\HPCHEM\MSR\R4722.D  
Operator : C.LOMBARDI  
Acquired : 20 Oct 1999 6:05 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-15  
Misc Info : SB2 (8.5-10) ; OLM ; 1 ; LLS ; R0323  
Vial Number: 13



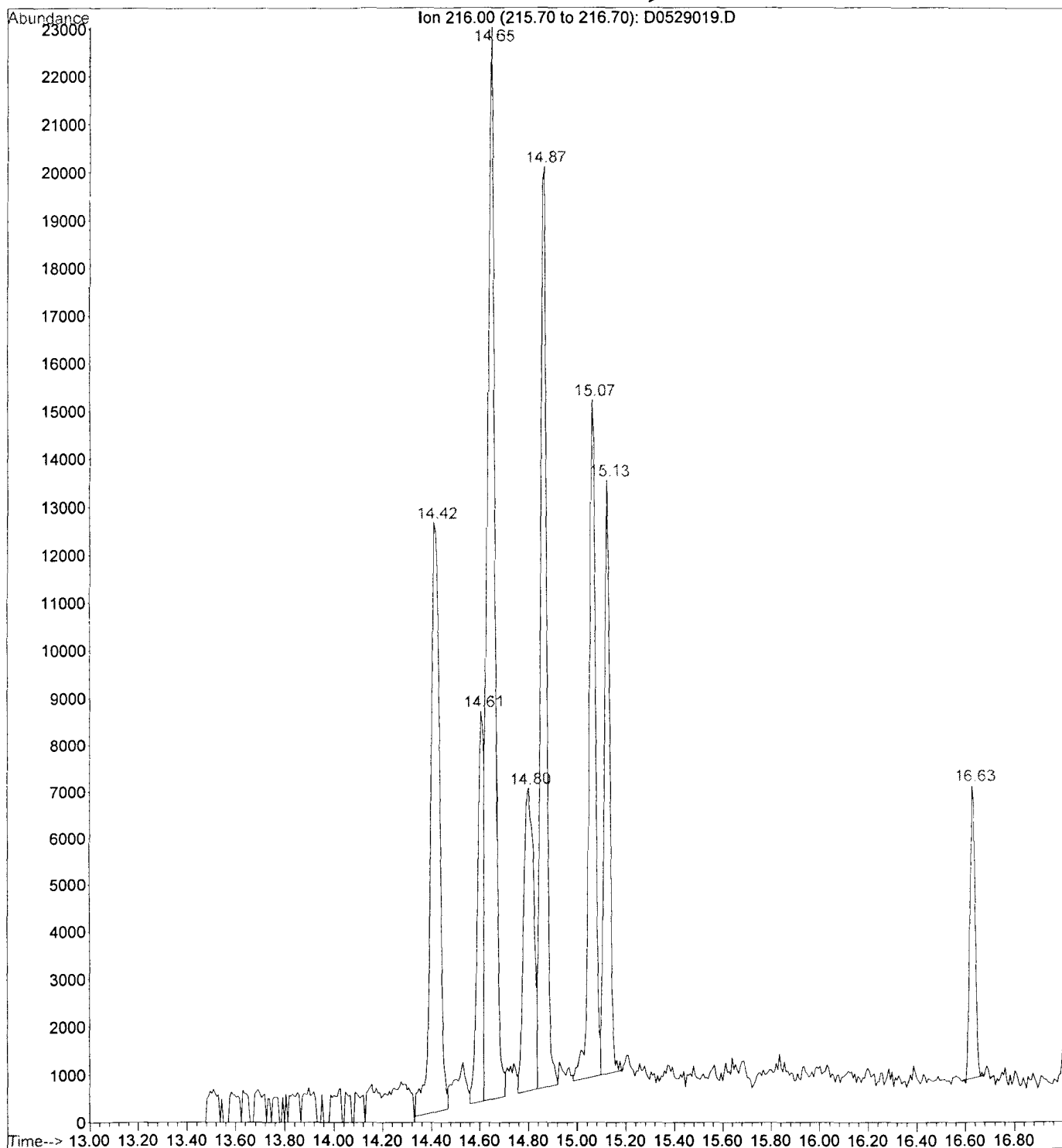
File : D:\NYACK\1NYACK\C1E180181\D0525016.D  
Operator : 001562, DLF  
Acquired : 25 May 2001 9:49 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-001 soil 5/22/01 clp3.2  
Misc Info : edk8mlad,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 18

SB 20(7.3-7.4)



File : D:\NYACK\1NYACK\C1E180181\D0529019.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 10:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-011 10x soil 5/22/01 clp3.2  
Misc Info : edlh81a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 21

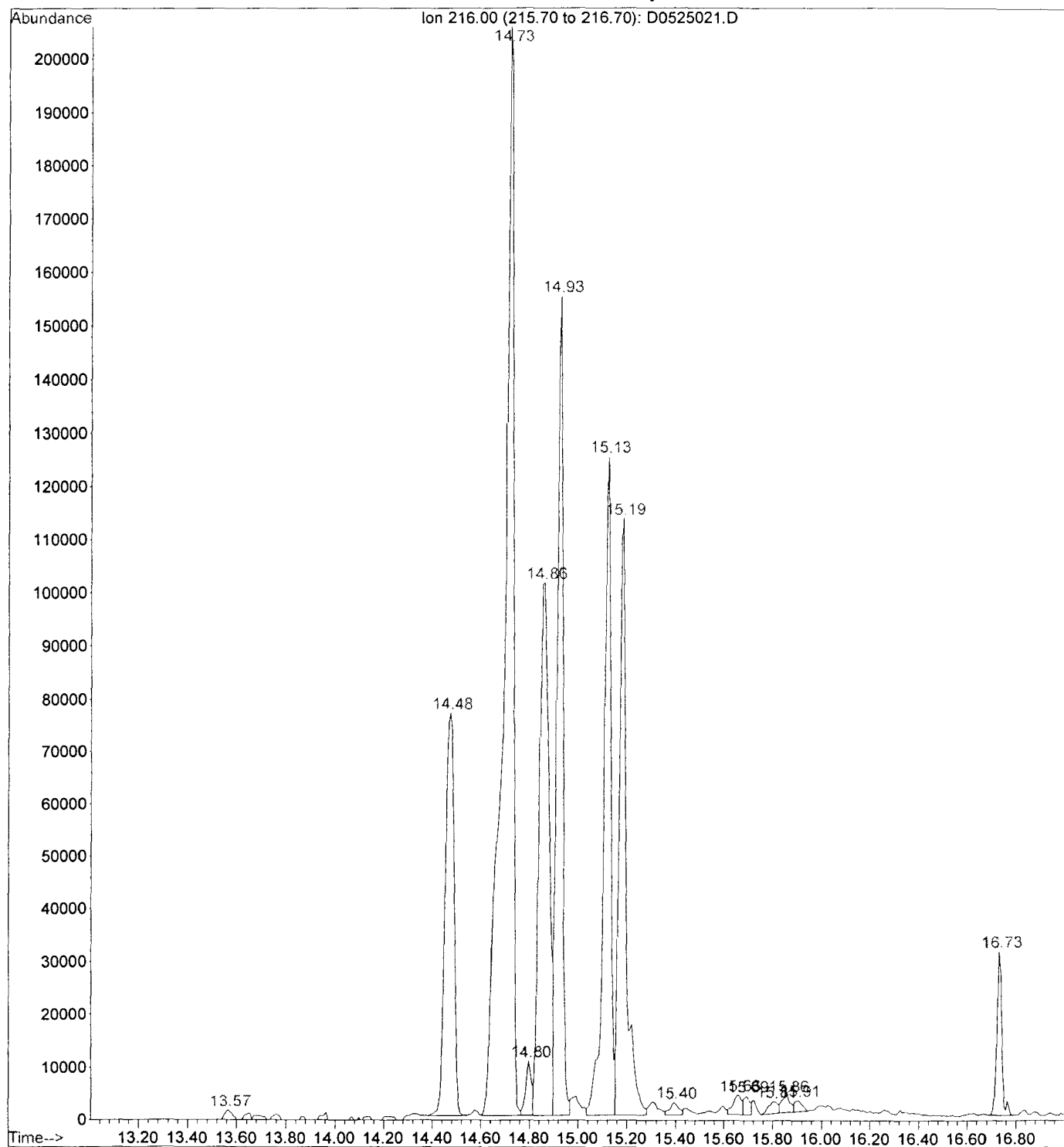
SB 21 (6.3-6.6)





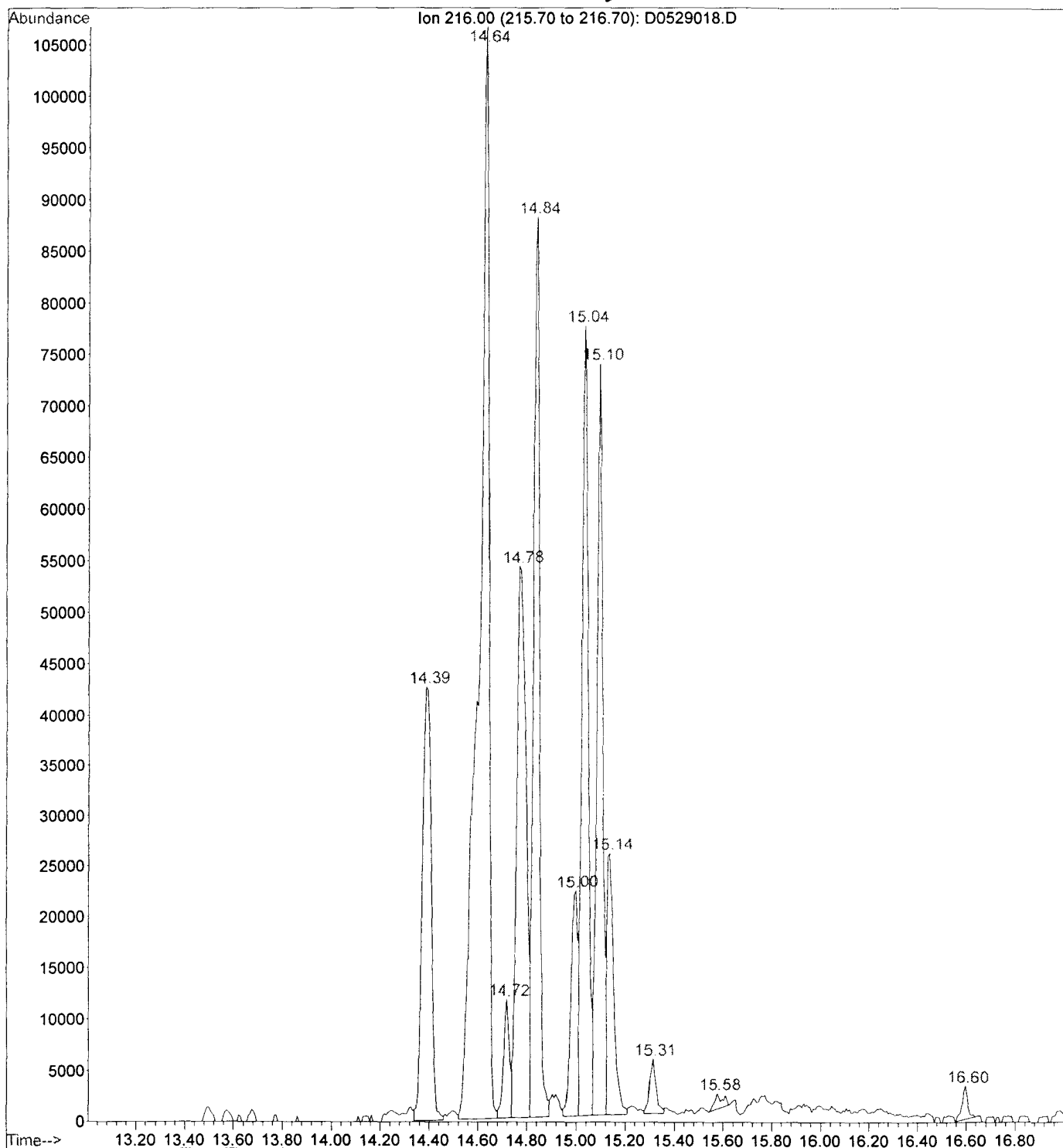
File : D:\NYACK\1NYACK\C1E180181\D0525021.D  
Operator : 001562, DLF  
Acquired : 26 May 2001 12:19 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-005 soil 5/22/01 clp3.2  
Misc Info : edlaf1a1,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 23

SB 22 (7.0 - 7.3)



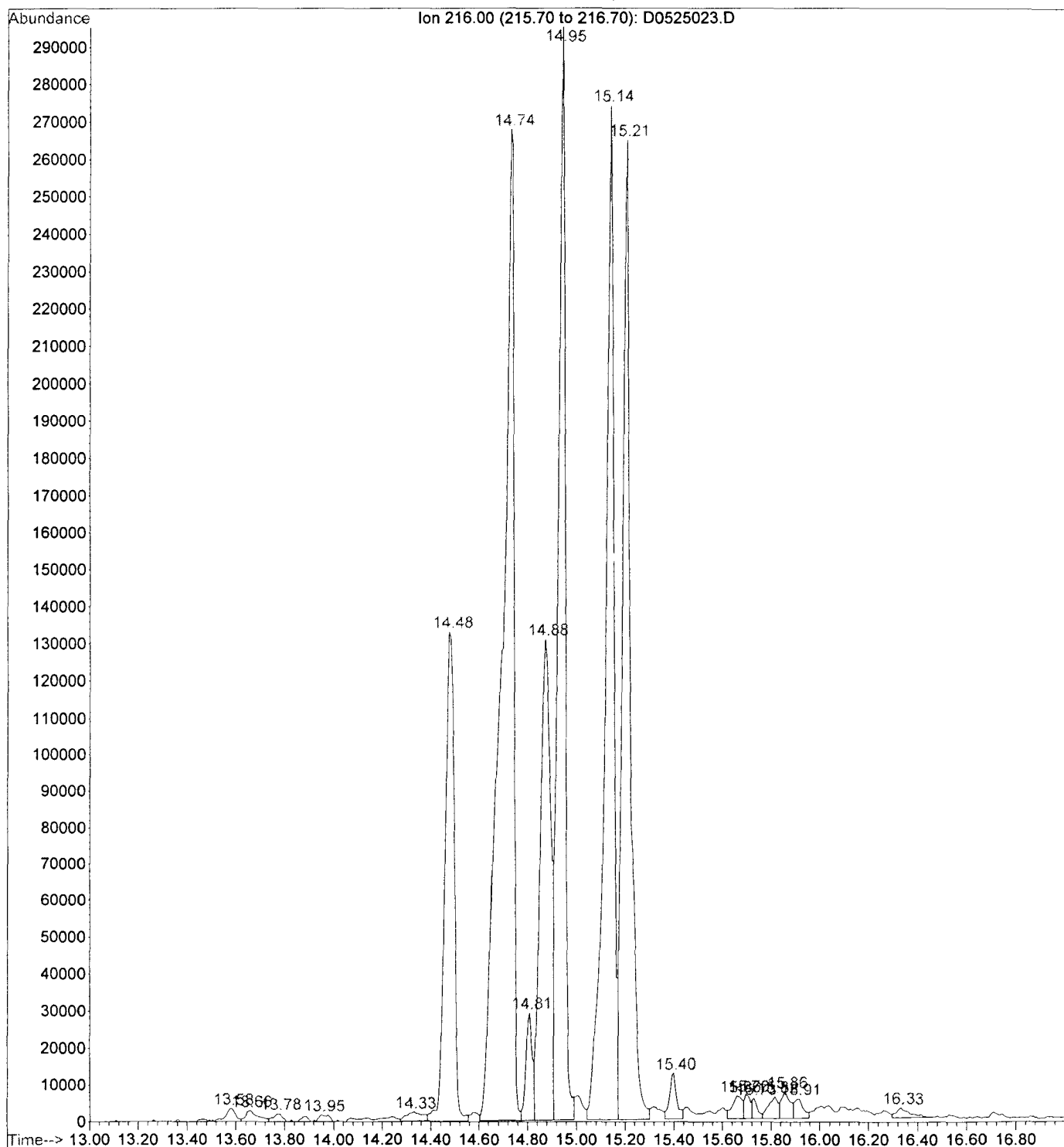
File : D:\NYACK\1NYACK\C1E180181\D0529018.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 10:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-010 50x soil 5/22/01 clp3.2  
Misc Info : edlh61a1,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 20

SB 23(13-14)

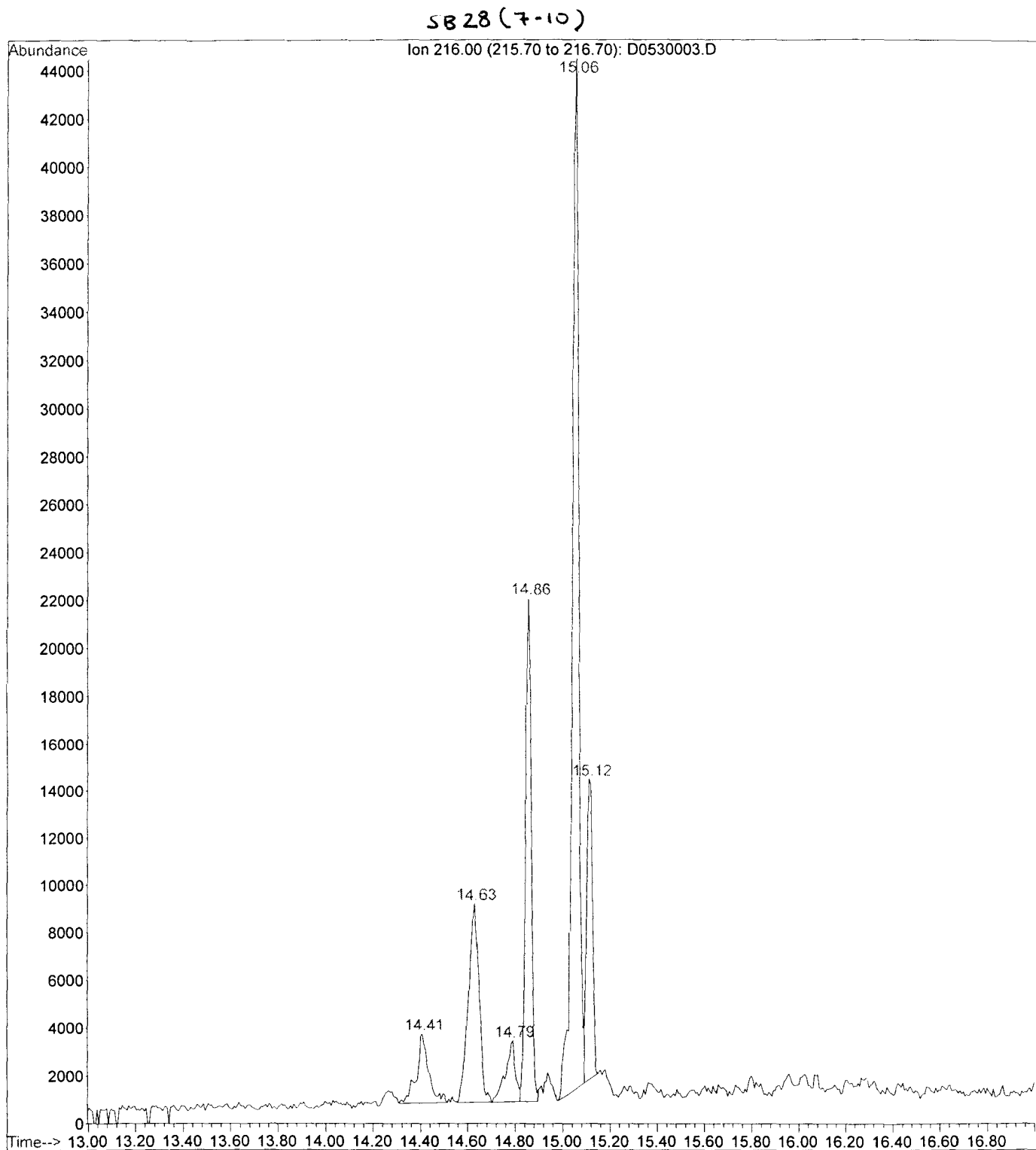


File : D:\NYACK\1NYACK\C1E180181\D0525023.D  
Operator : 001562, DLF  
Acquired : 26 May 2001 1:19 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-007 20x soil 5/22/01 clp3.2  
Misc Info : edlhp1a1,d052501p.b,clp.m,1-3.1.sub  
Vial Number: 25

SB 25(12-16)

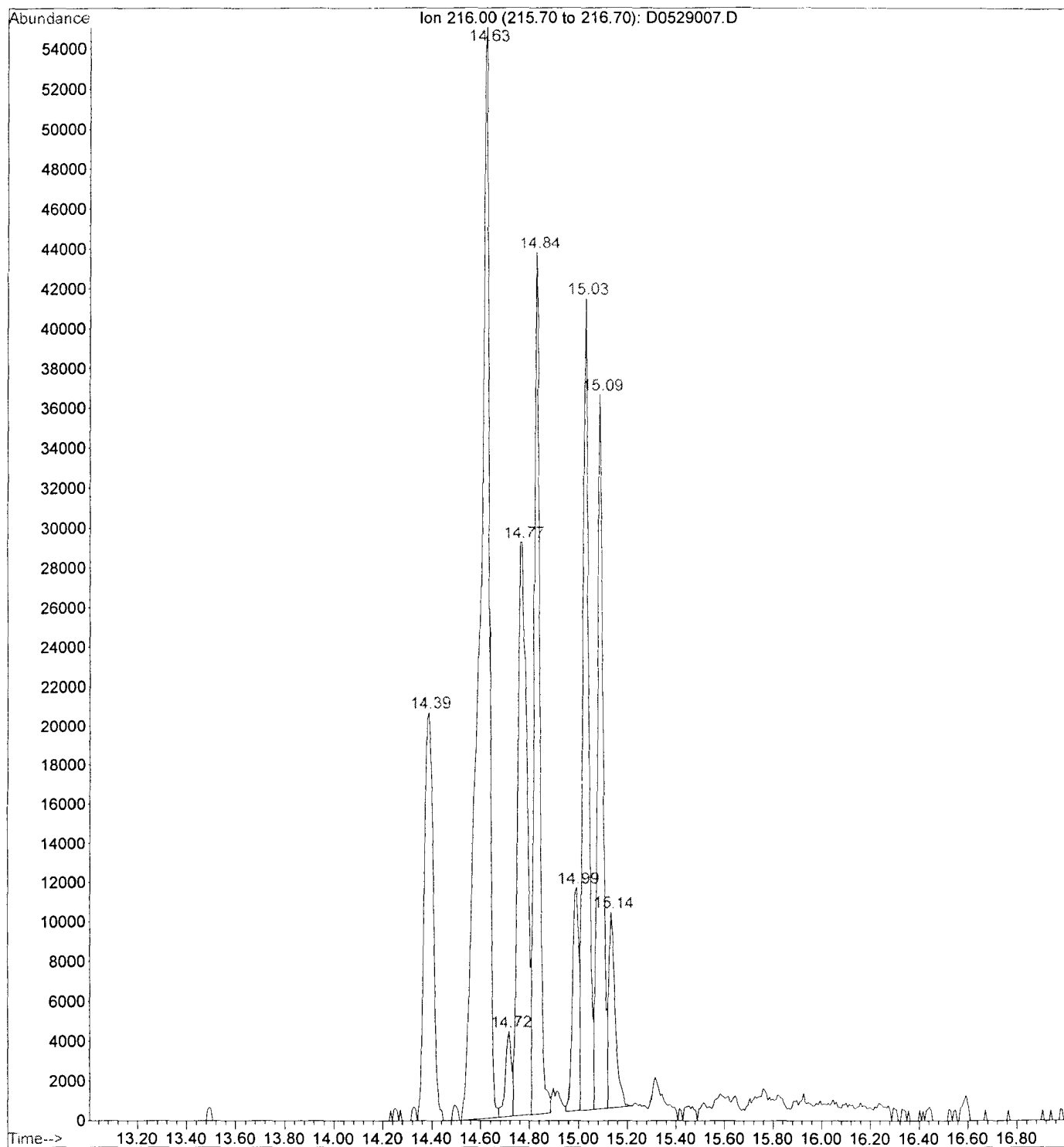


File : D:\NYACK\1NYACK\C1E180181\D0530003.D  
Operator : 001562, DLF  
Acquired : 30 May 2001 1:11 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e180181-013 soil 5/22/01 clp3.2  
Misc Info : edljh1a1,d053001p.b,clp.m,1-3.1.sub  
Vial Number: 5



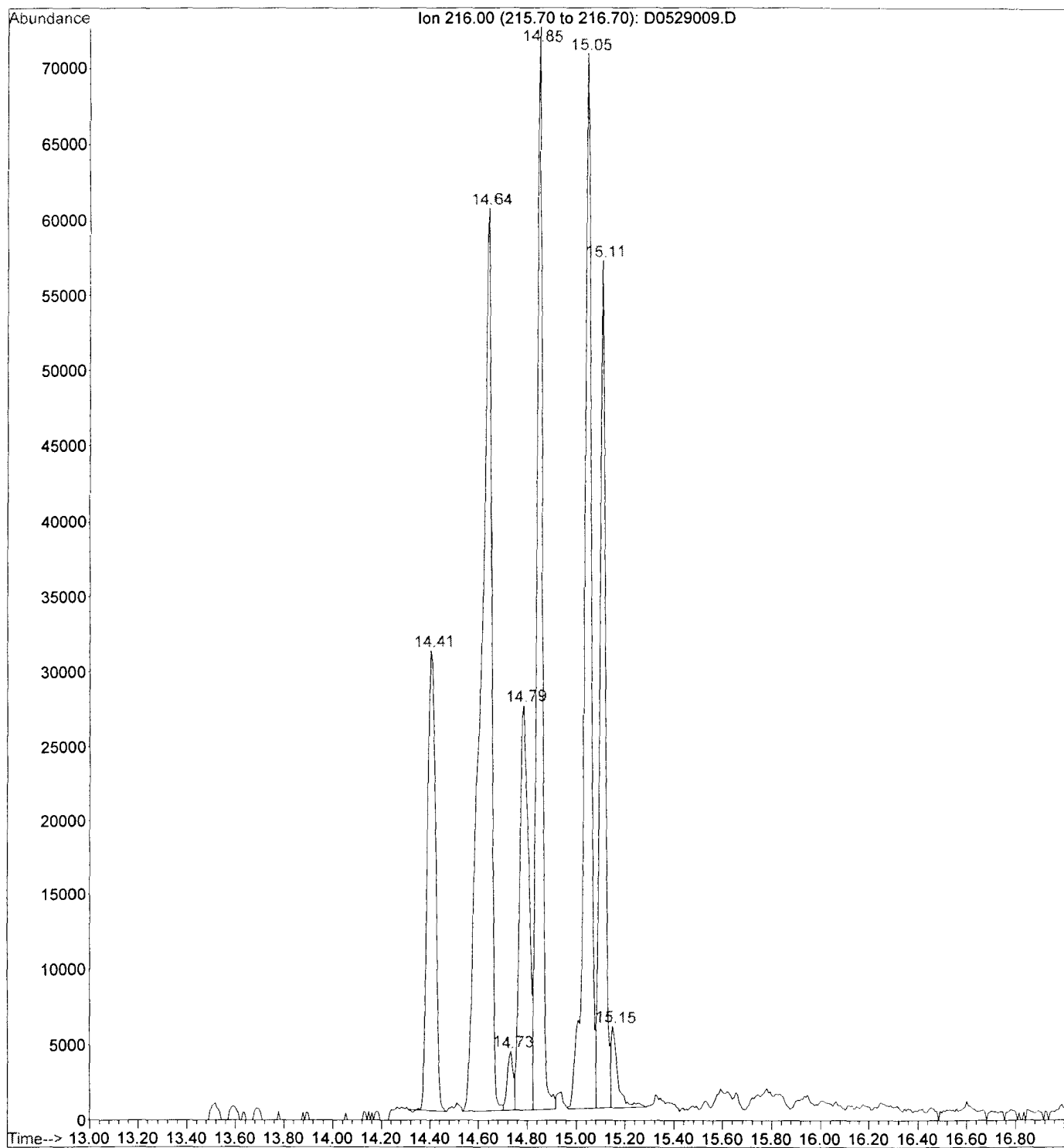
File : D:\NYACK\1NYACK\C1E190109\D0529007.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 4:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e190109-001 100x soil 5/22/01 clp3.2  
Misc Info : edmkrlaf,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 9

SB29 (10-12)

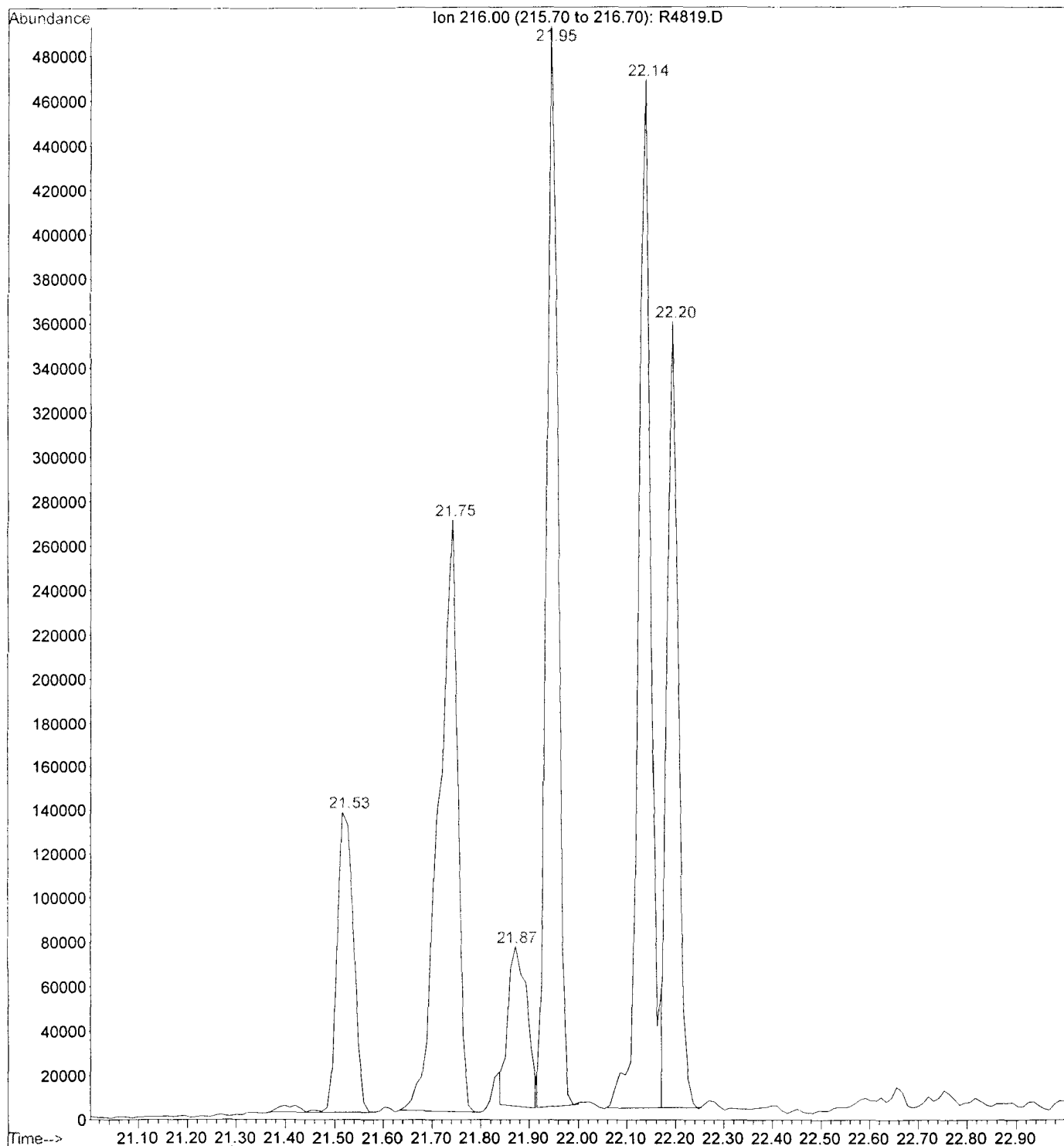


File : D:\NYACK\1NYACK\C1E190109\D0529009.D  
Operator : 001562, DLF  
Acquired : 29 May 2001 5:47 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1e190109-003 20x soil 5/22/01 clp3.2  
Misc Info : edmk01ag,d052901p.b,clp.m,1-3.1.sub  
Vial Number: 11

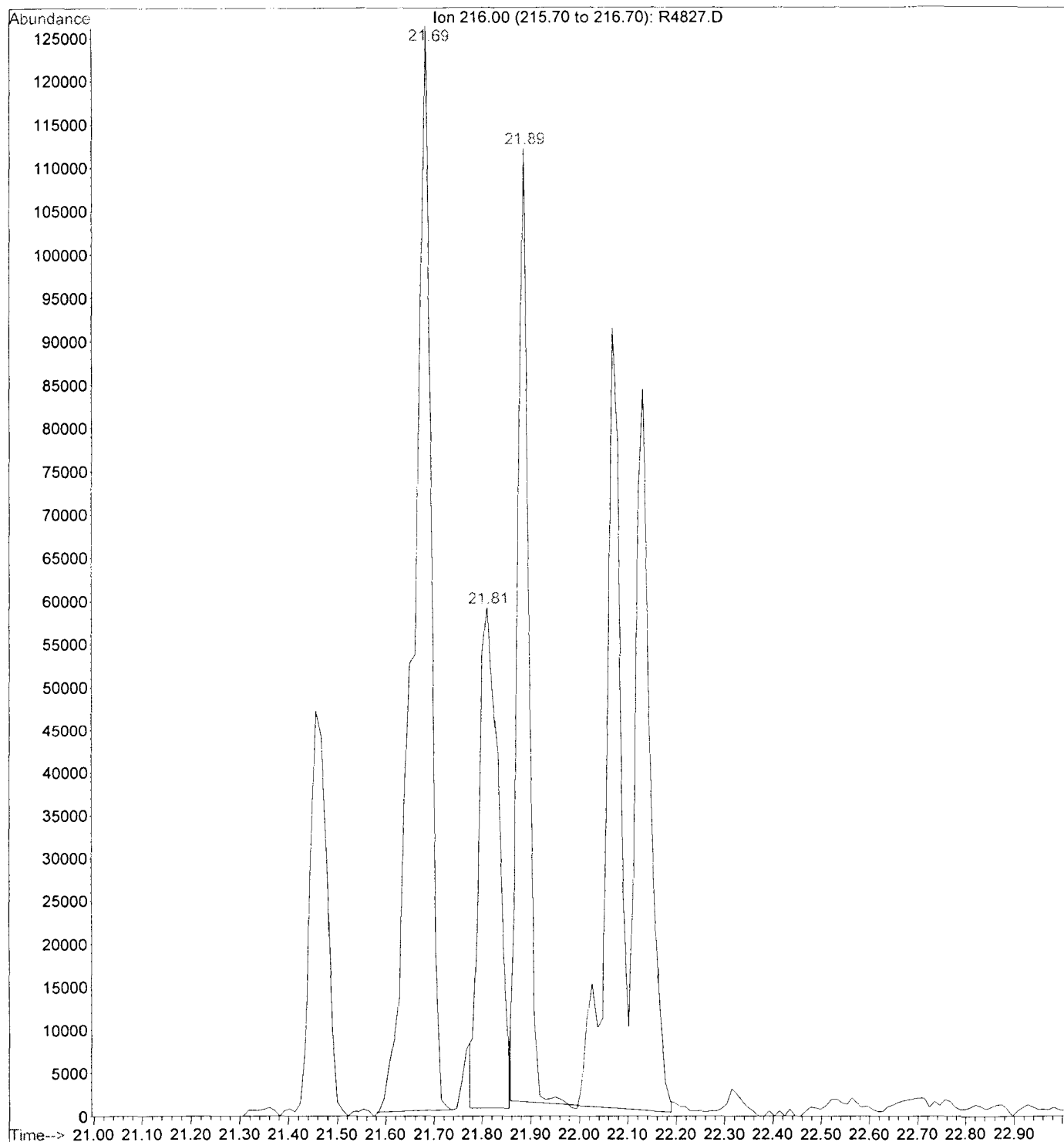
SB130(8-10)



File : D:\HPCHEM\MSR\R4819.D  
Operator : C.LOMBARDI  
Acquired : 27 Oct 1999 5:35 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-18  
Misc Info : SB3 (14.0-15.9) ; OLM ; 50 ; LLS ; R0333  
Vial Number: 8

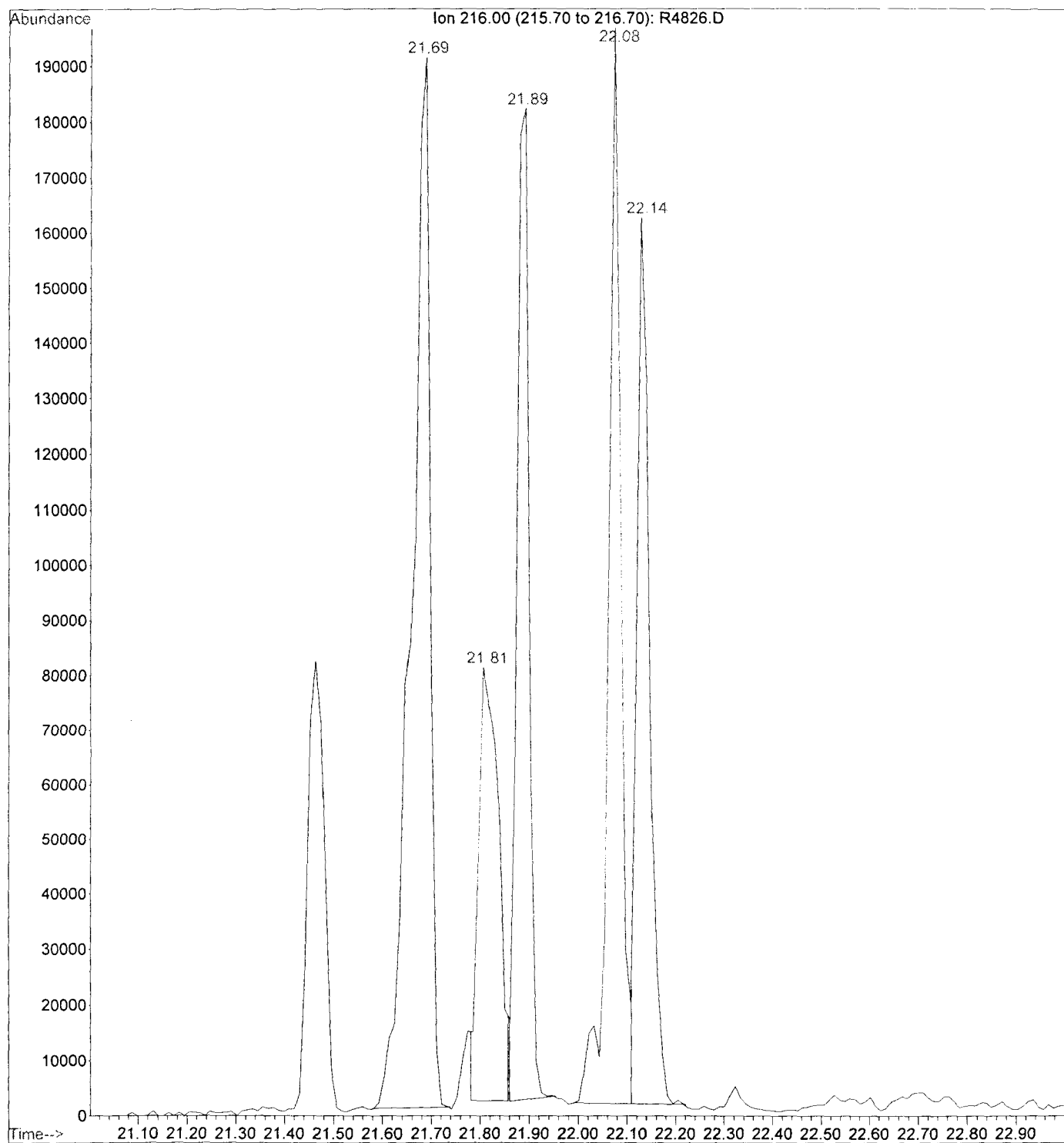


File : D:\HPCHEM\MSR\R4827.D  
Operator : C.LOMBARDI  
Acquired : 28 Oct 1999 11:46 am using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-19  
Misc Info : SB4 (4.0-6.0); OLM ; 100 ; LLS ; R0334  
Vial Number: 3

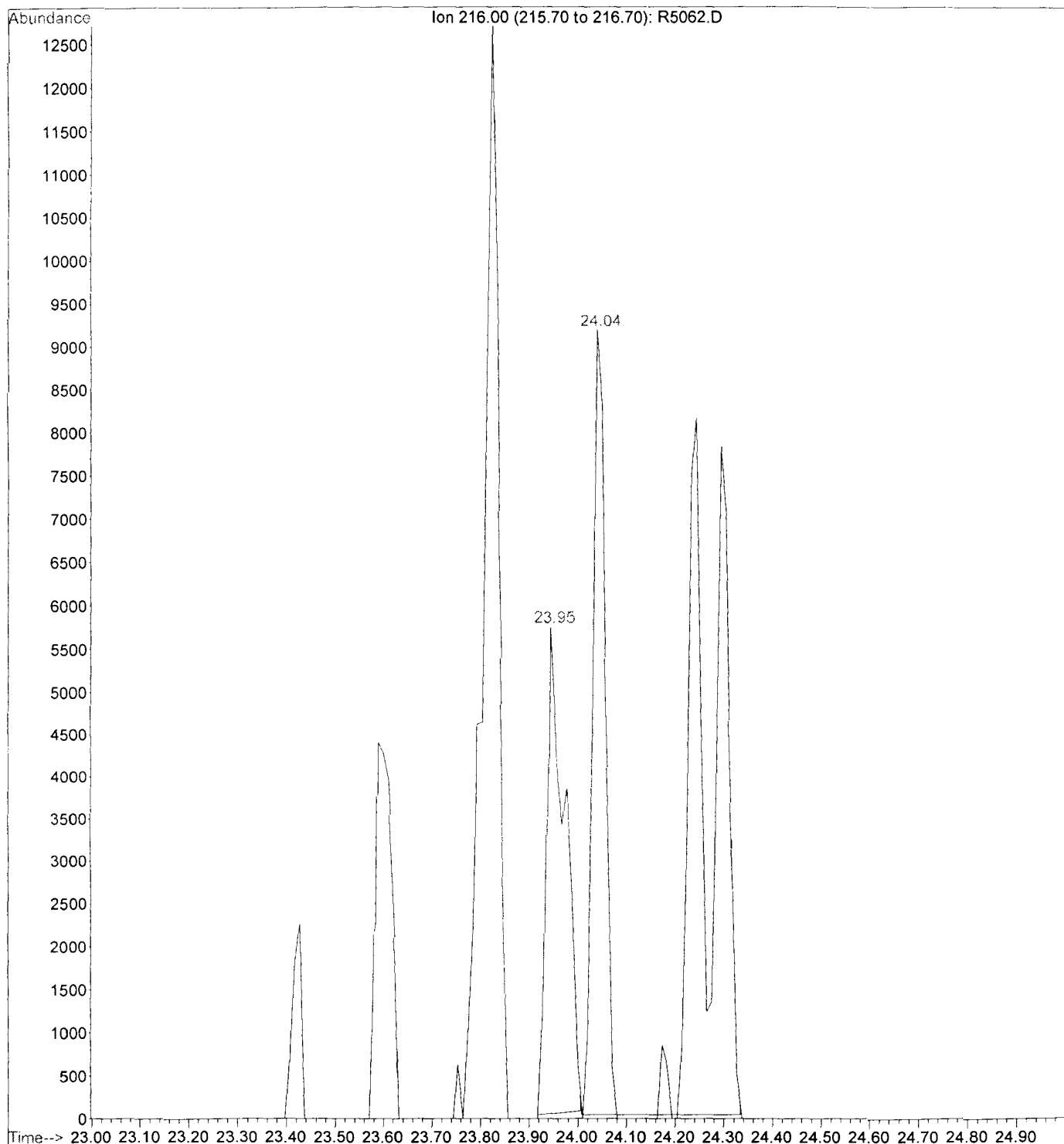




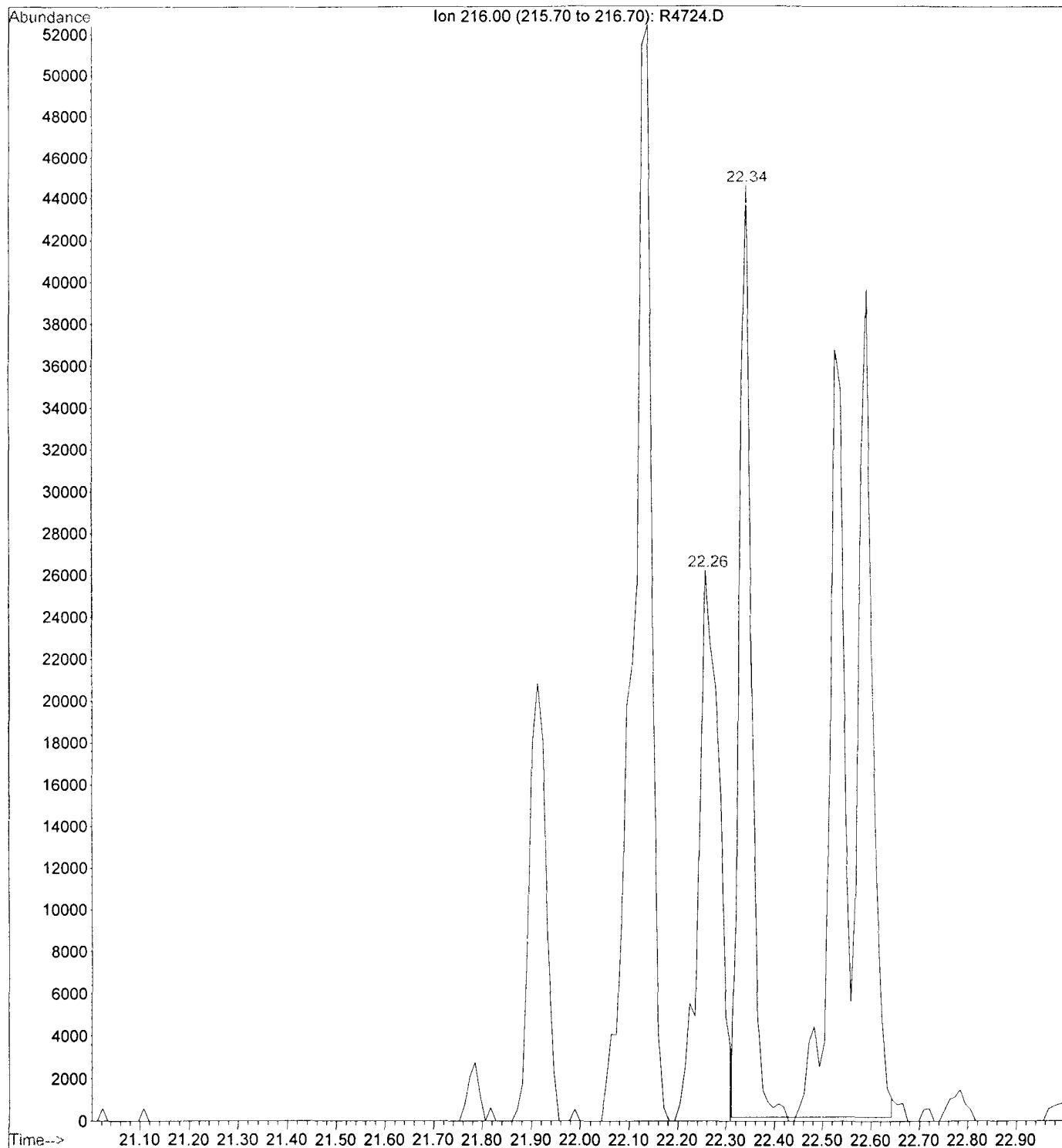
File : D:\HPCHEM\MSR\R4826.D  
Operator : C.LOMBARDI  
Acquired : 28 Oct 1999 11:05 am using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-20  
Misc Info : SB5 (4.0-6.0) ; OLM ; 50 ; LLS ; R0334  
Vial Number: 2



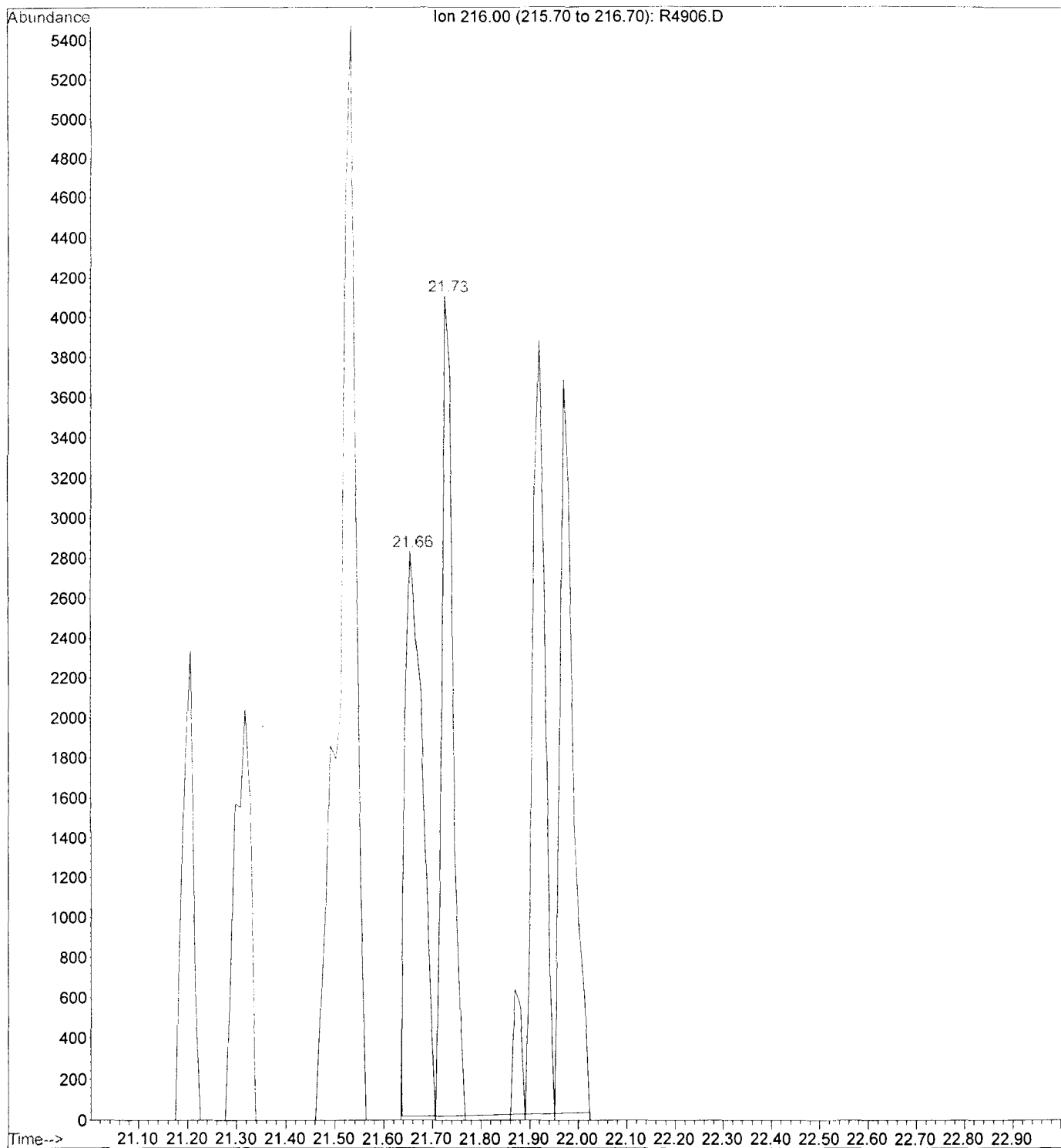
File : D:\HPCHEM\MSR\R5062.D  
Operator : J. Bennett  
Acquired : 15 Nov 1999 10:40 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name : 992414C-05  
Misc Info : SB6 (10.4-12.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 12



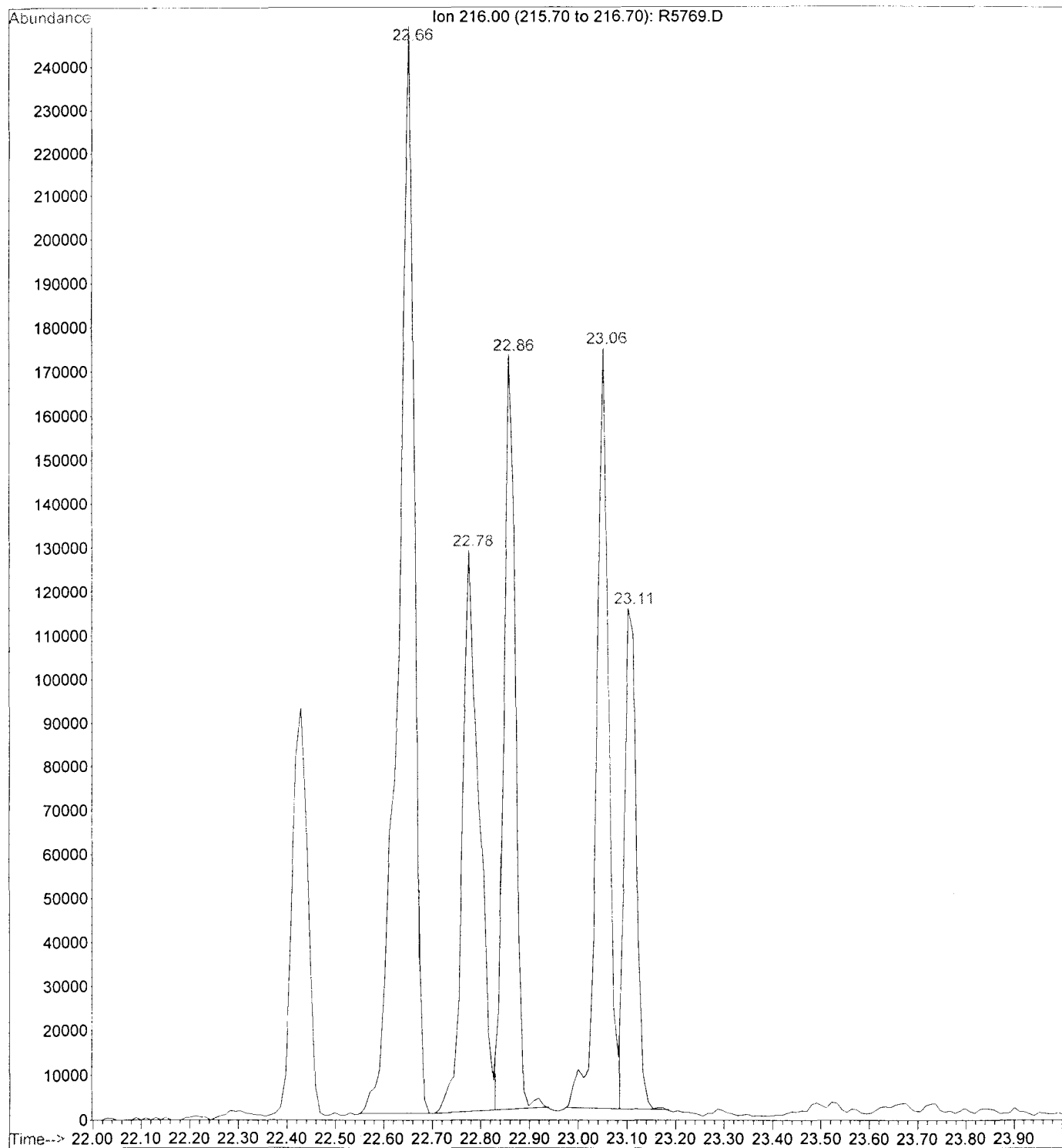
File : D:\HPCHEM\MSR\R4724.D  
Operator : C.LOMBARDI  
Acquired : 20 Oct 1999 7:27 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-17  
Misc Info : SB8 (4.0-6.0); OLM ; 1 ; LLS ; R0323  
Vial Number: 15



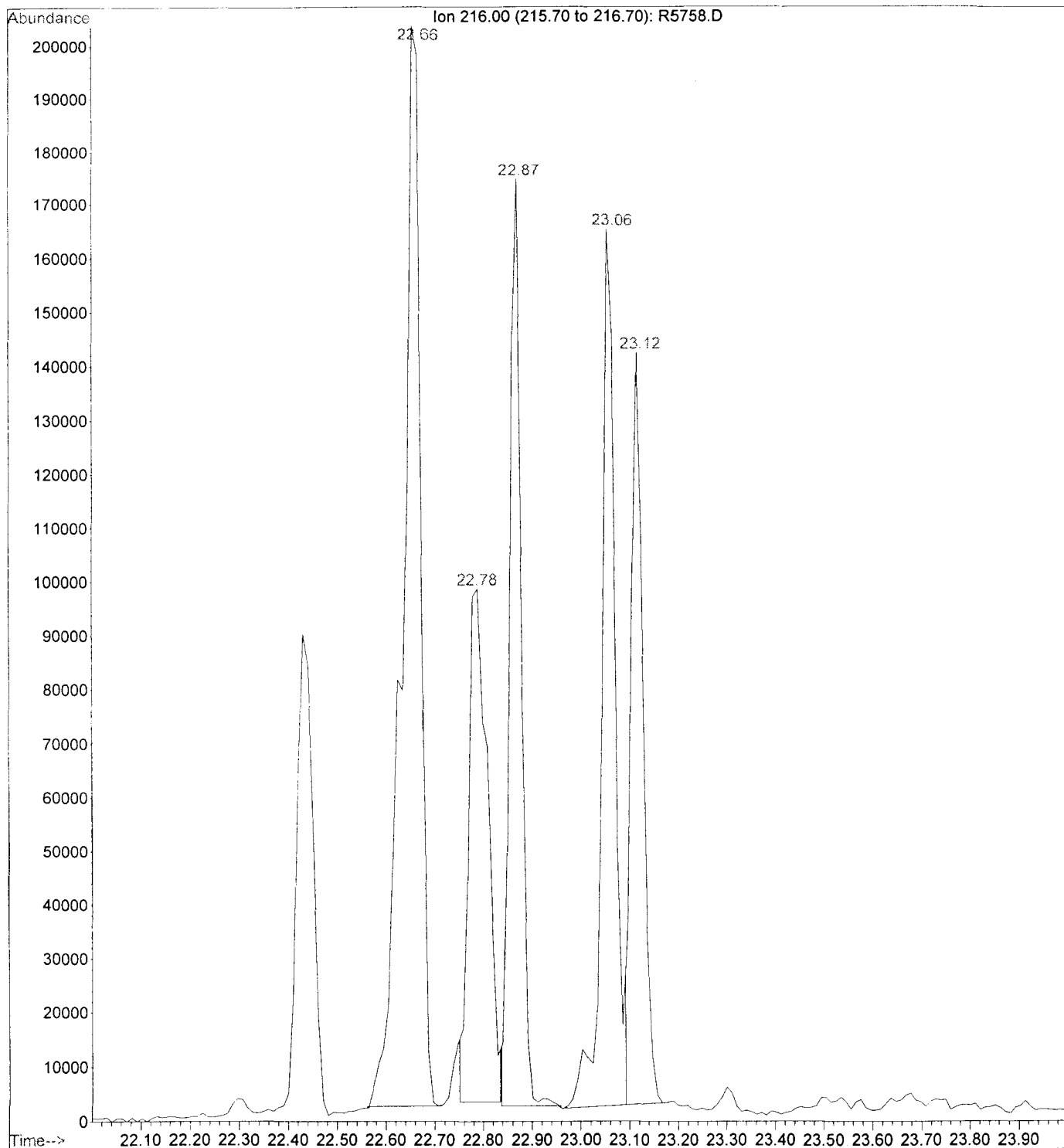
File : D:\HPCHEM\MSR\R4906.D  
Operator : J. Bennett  
Acquired : 2 Nov 1999 8:05 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414B-13  
Misc Info : SB9 (14.0-15.5) ; OLM ; 1 ; LLS ; R0338  
Vial Number: 14



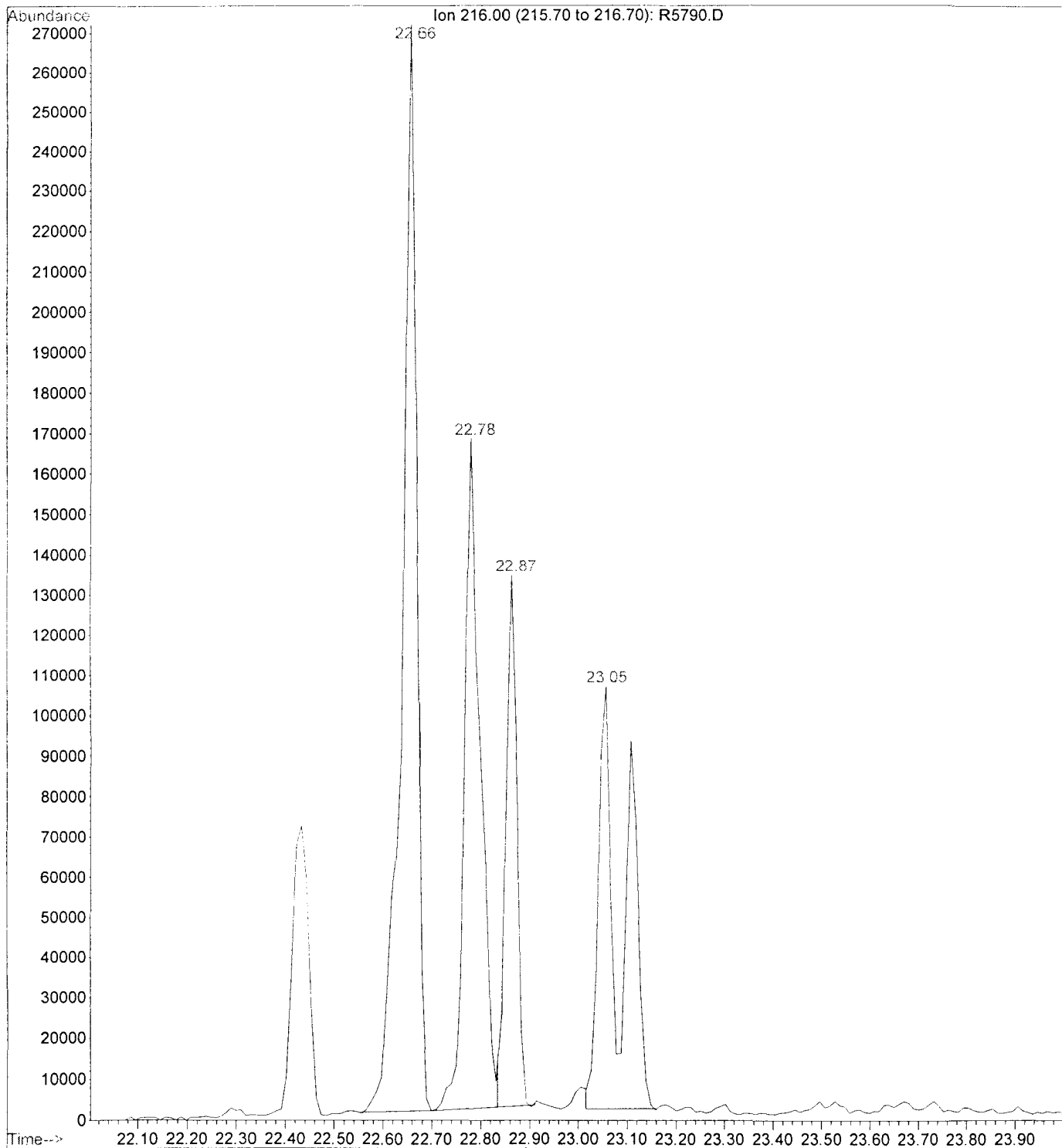
File : D:\HPCHEM\MSR\R5769.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 3:56 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-11  
Misc Info : SD1 (0.0-0.2) ; OLM ; 5; LLS ; SOIL  
Vial Number: 24



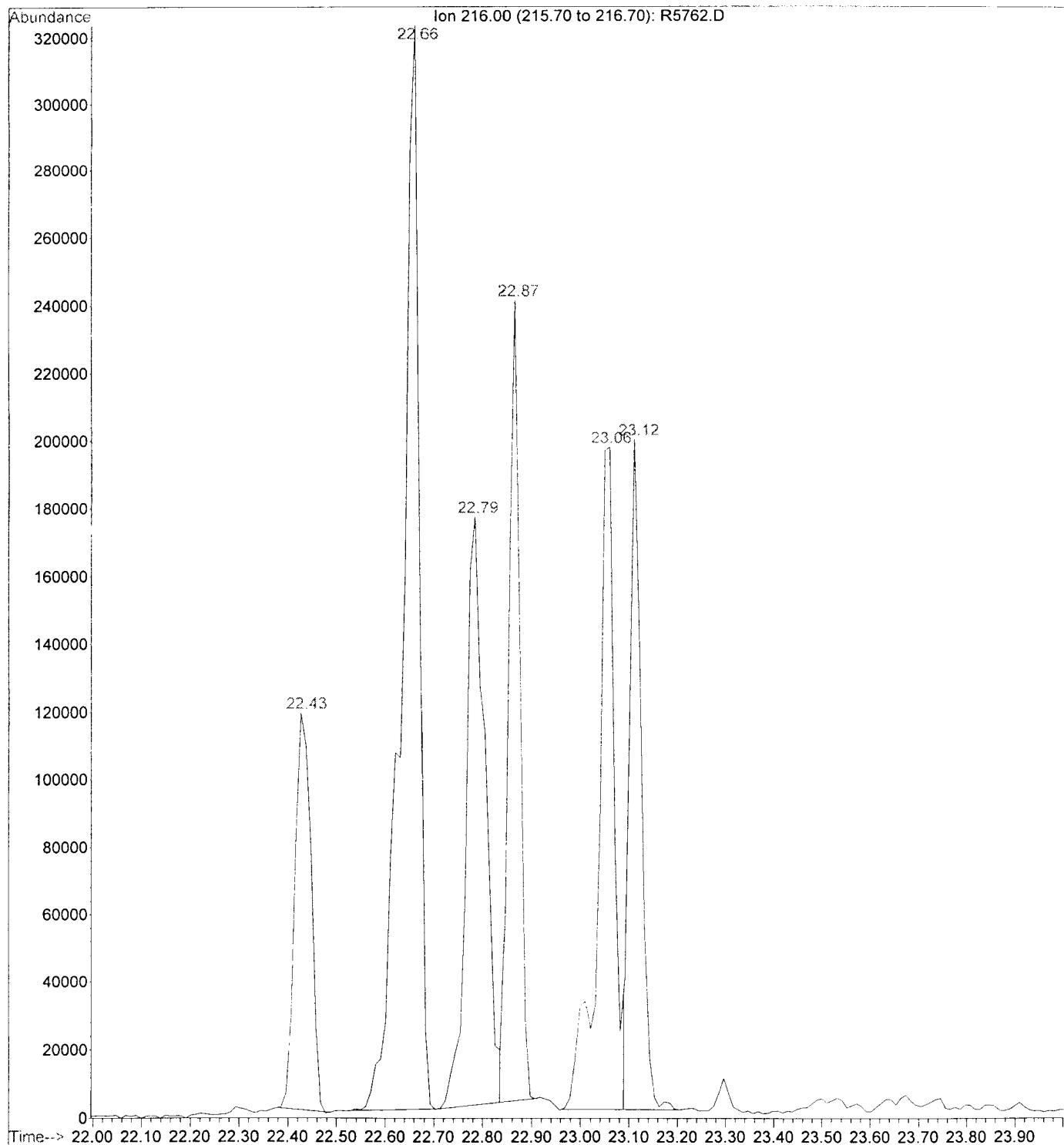
File : D:\HPCHEM\MSR\R5758.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 8:19 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-01  
Misc Info : SD1 (0.4-1.4) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 13



File : D:\HPCHEM\MSR\R5790.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 9:45 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-14  
Misc Info : SD10 (0.0-0.4) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 16

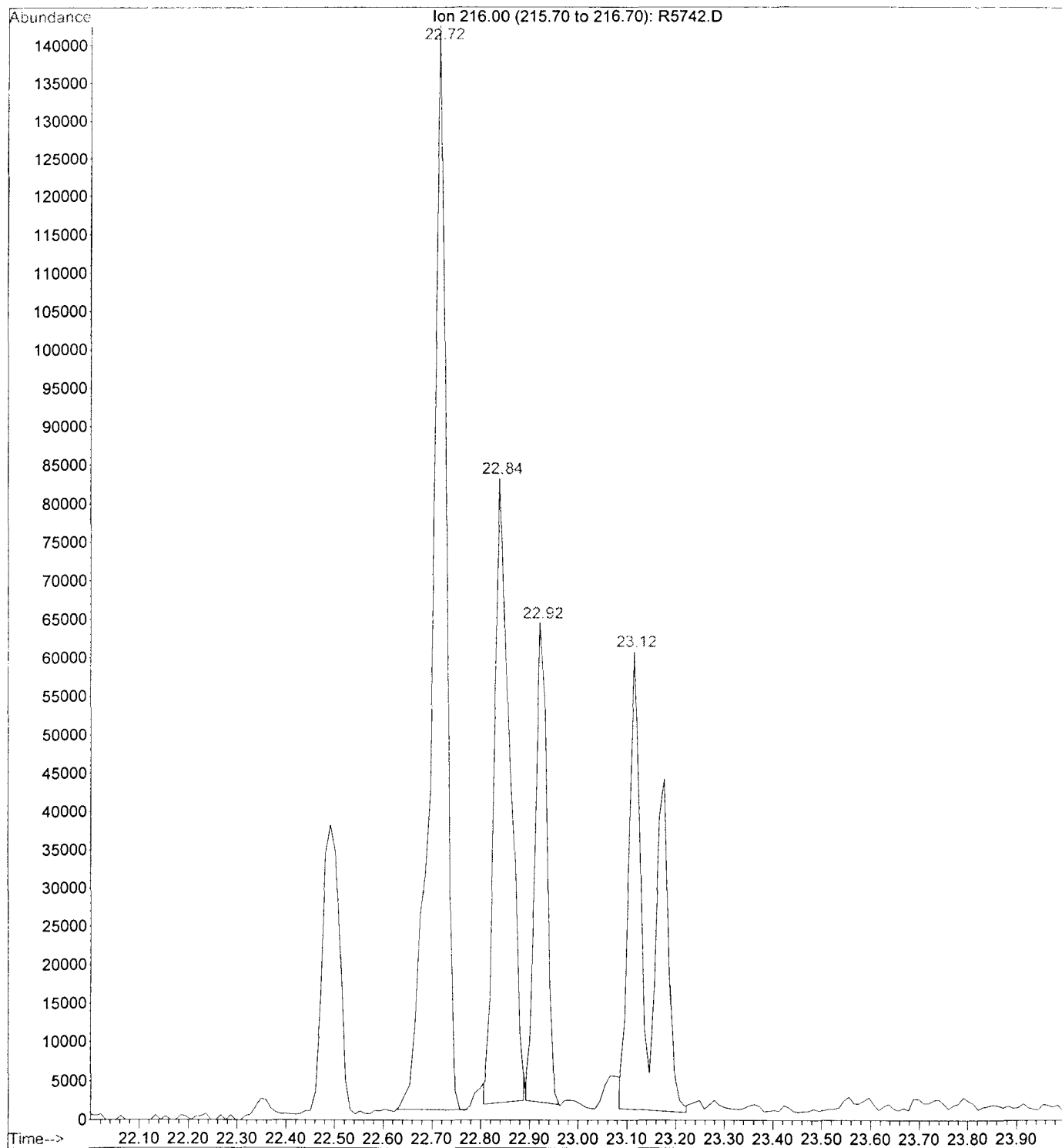


File : D:\HPCHEM\MSR\R5762.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 11:05 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name : ~~993309B-04~~  
Misc Info : SD10 (0.2-2.0) ; OLM ; 5 ; LLS ; SOIL  
Vial Number: 17

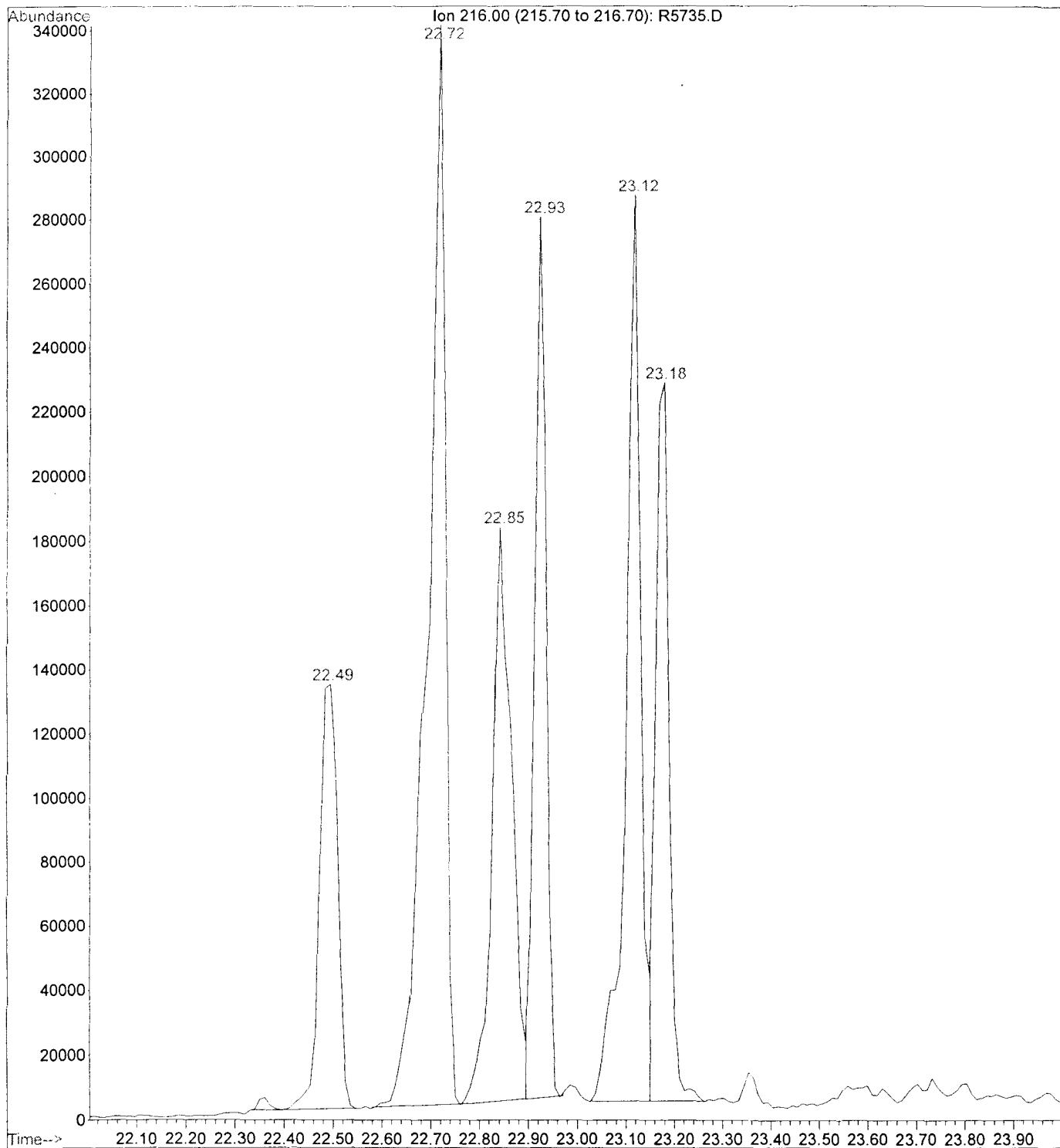




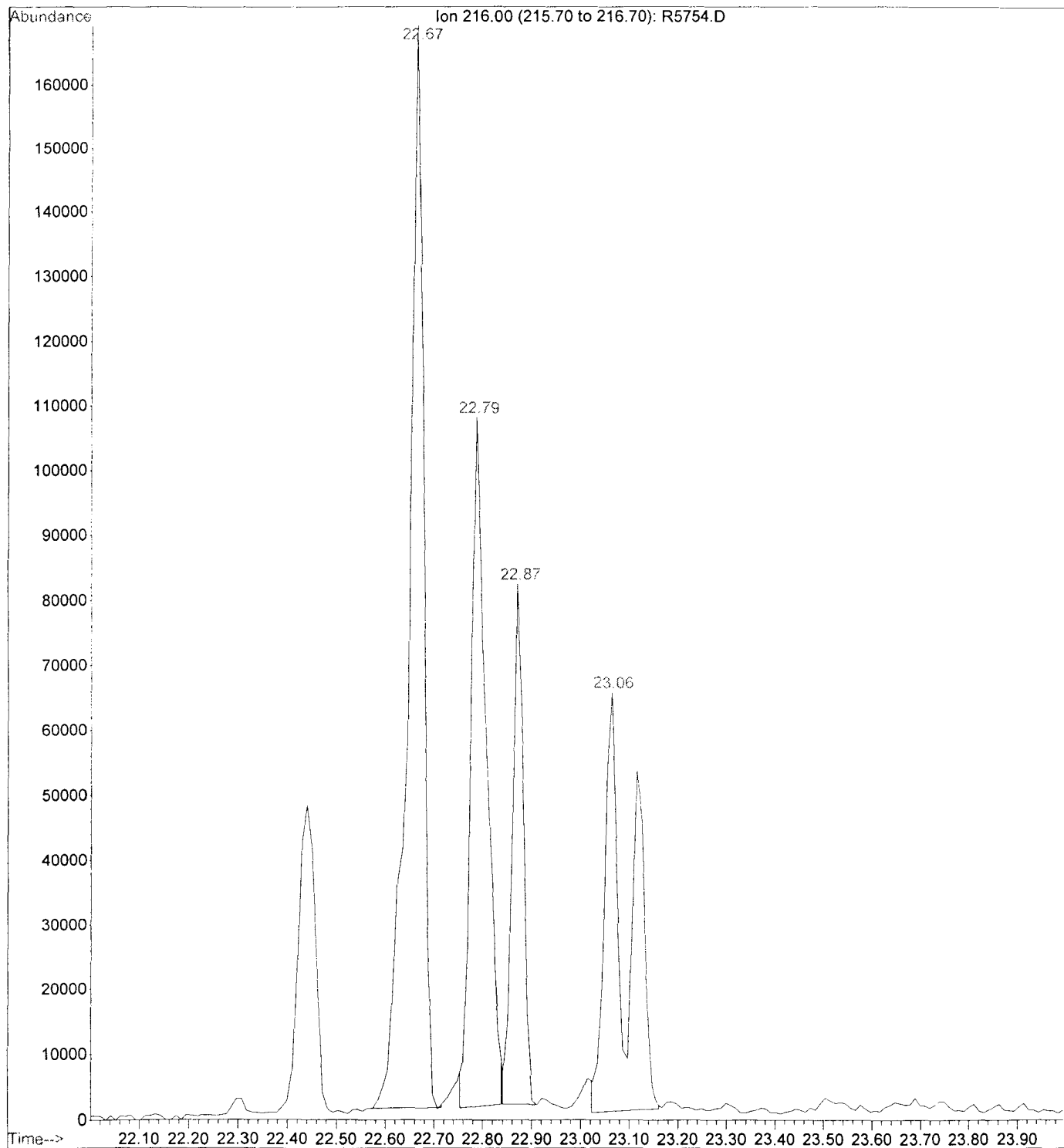
File : D:\HPCHEM\MSR\R5742.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 9:07 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-01  
Misc Info : SD11 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 15



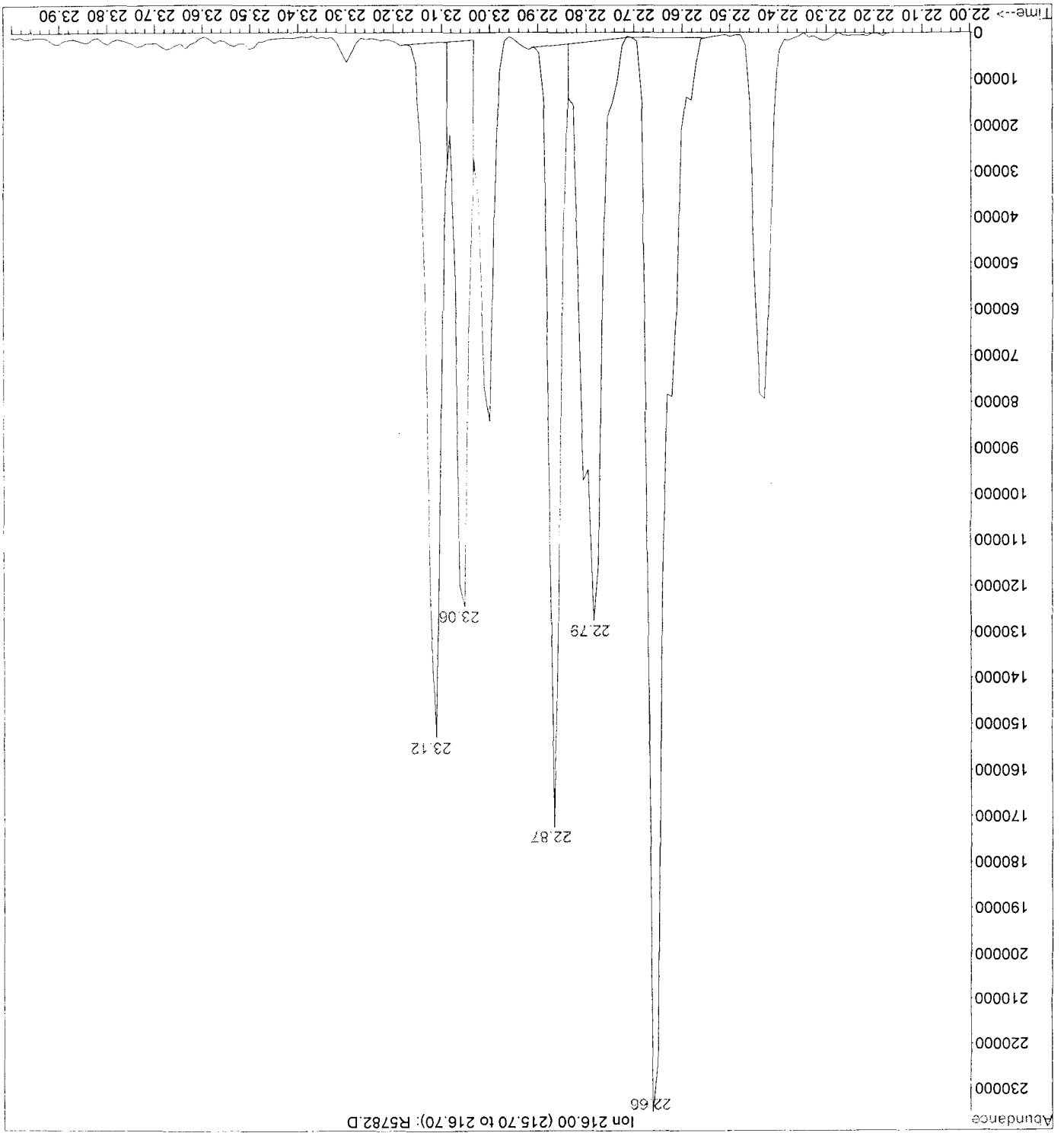
File : D:\HPCHEM\MSR\R5735.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 4:02 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-02  
Misc Info : SD11 (0.5-2.0) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 8



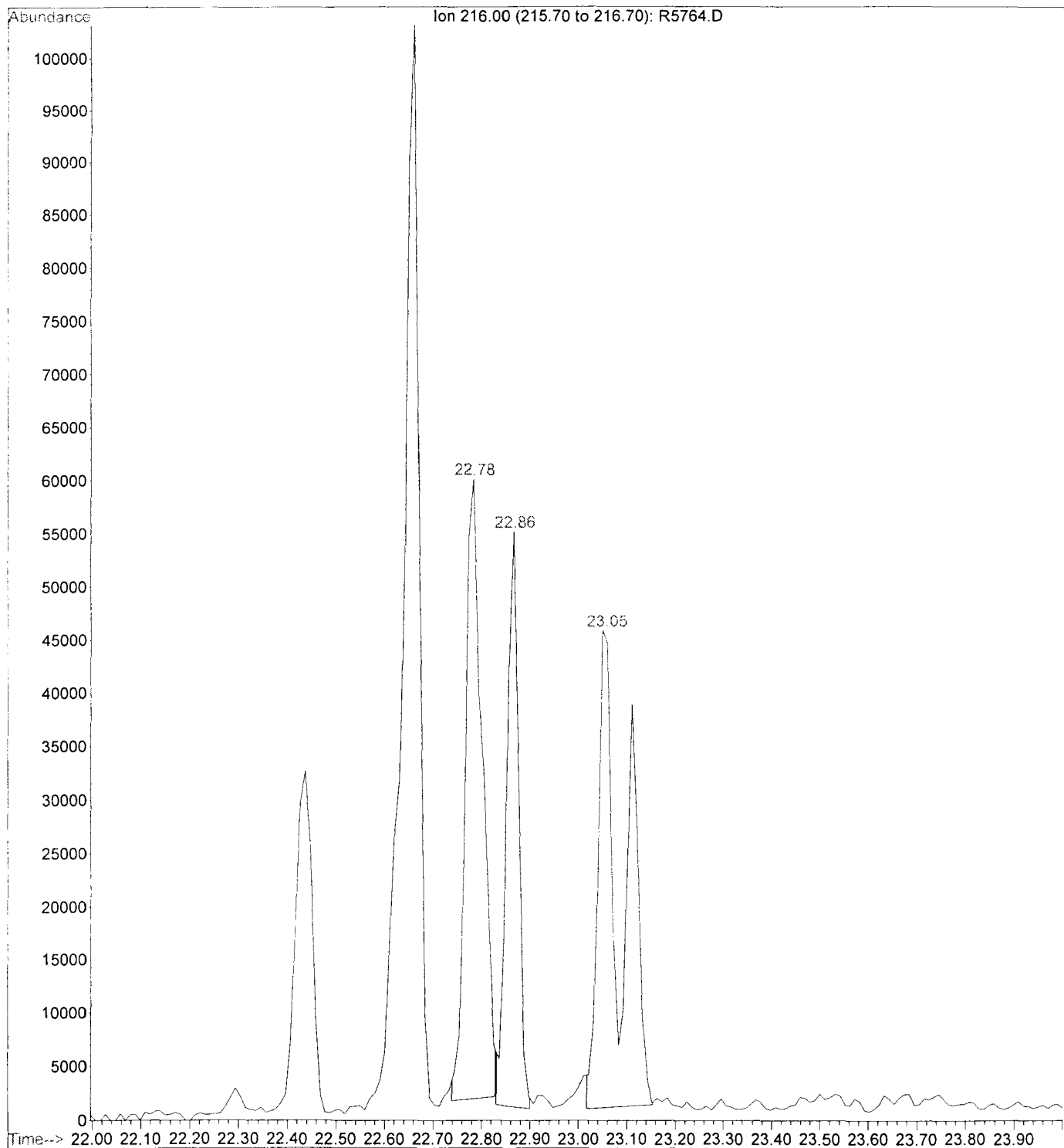
File : D:\HPCHEM\MSR\R5754.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 5:31 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-19  
Misc Info : SD12 (0.0-0.7) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 9



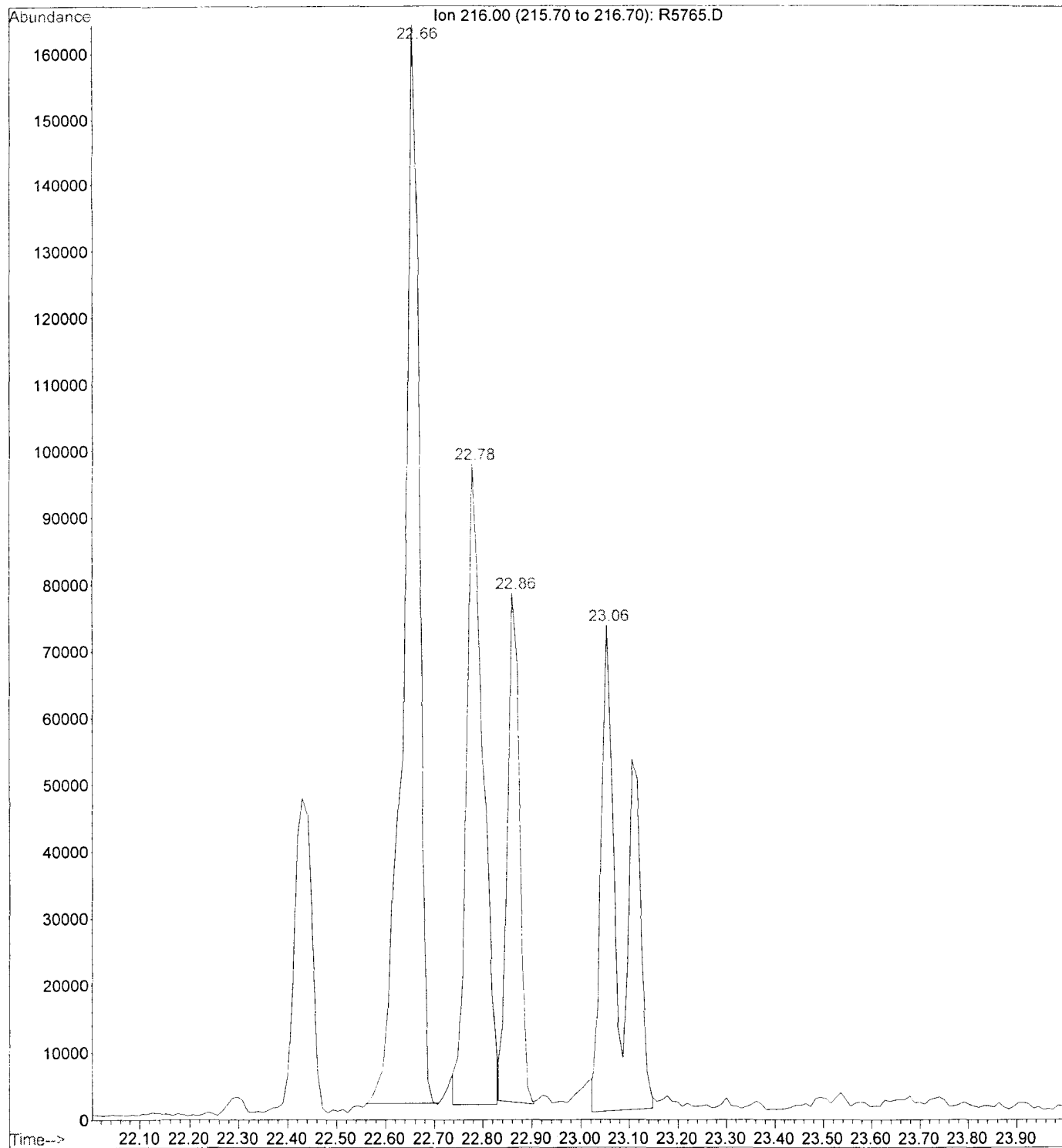
File : D:\HPCHEM\MSR\R5782.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 4:10 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name : 993309A-20  
Misc Info : SD12 (4.4-4.7) ; OLM ; 50 ; LLS ; SOIL  
Vial Number : 8



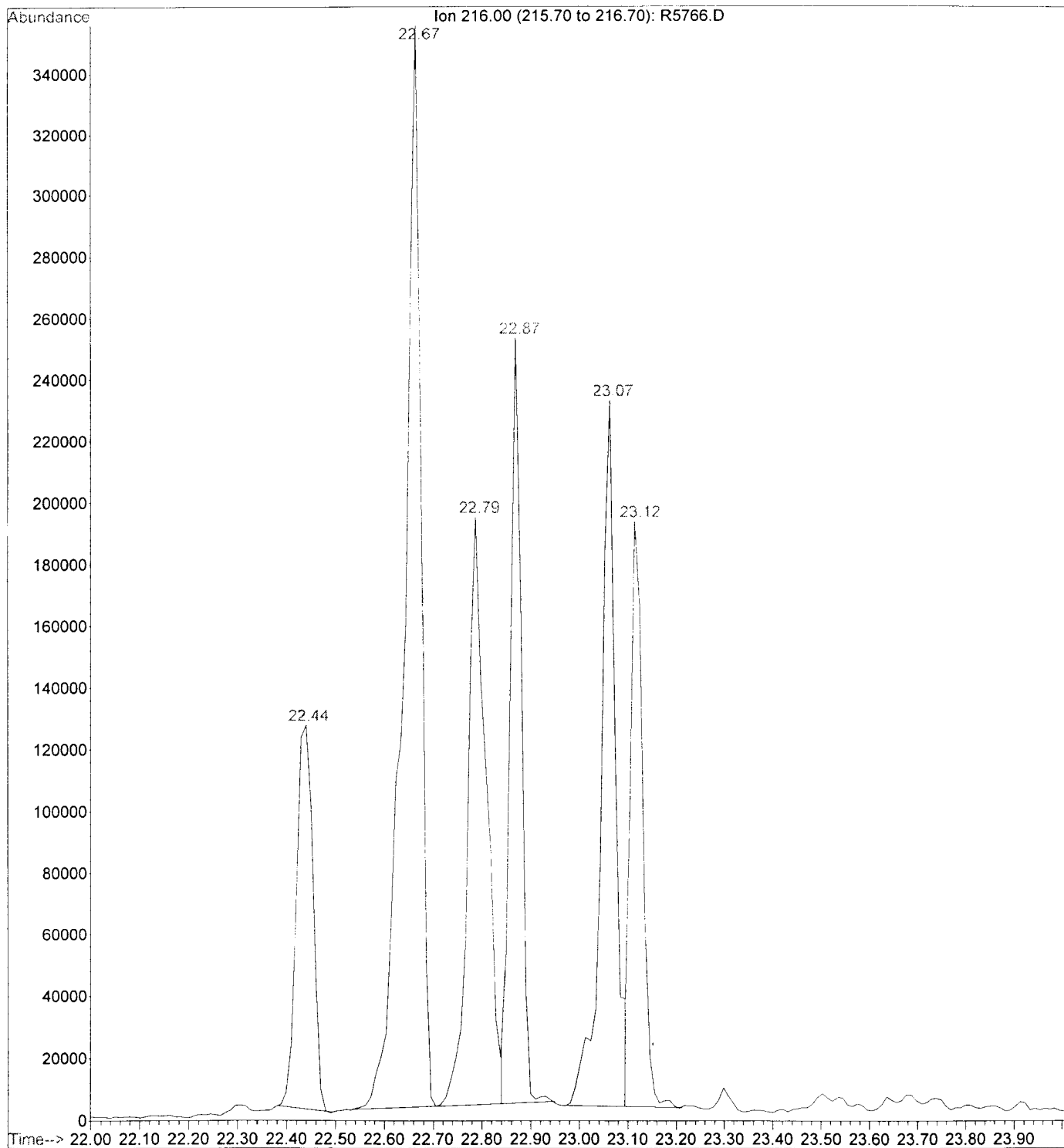
File : D:\HPCHEM\MSR\R5764.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 12:28 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-06  
Misc Info : SD13 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 19



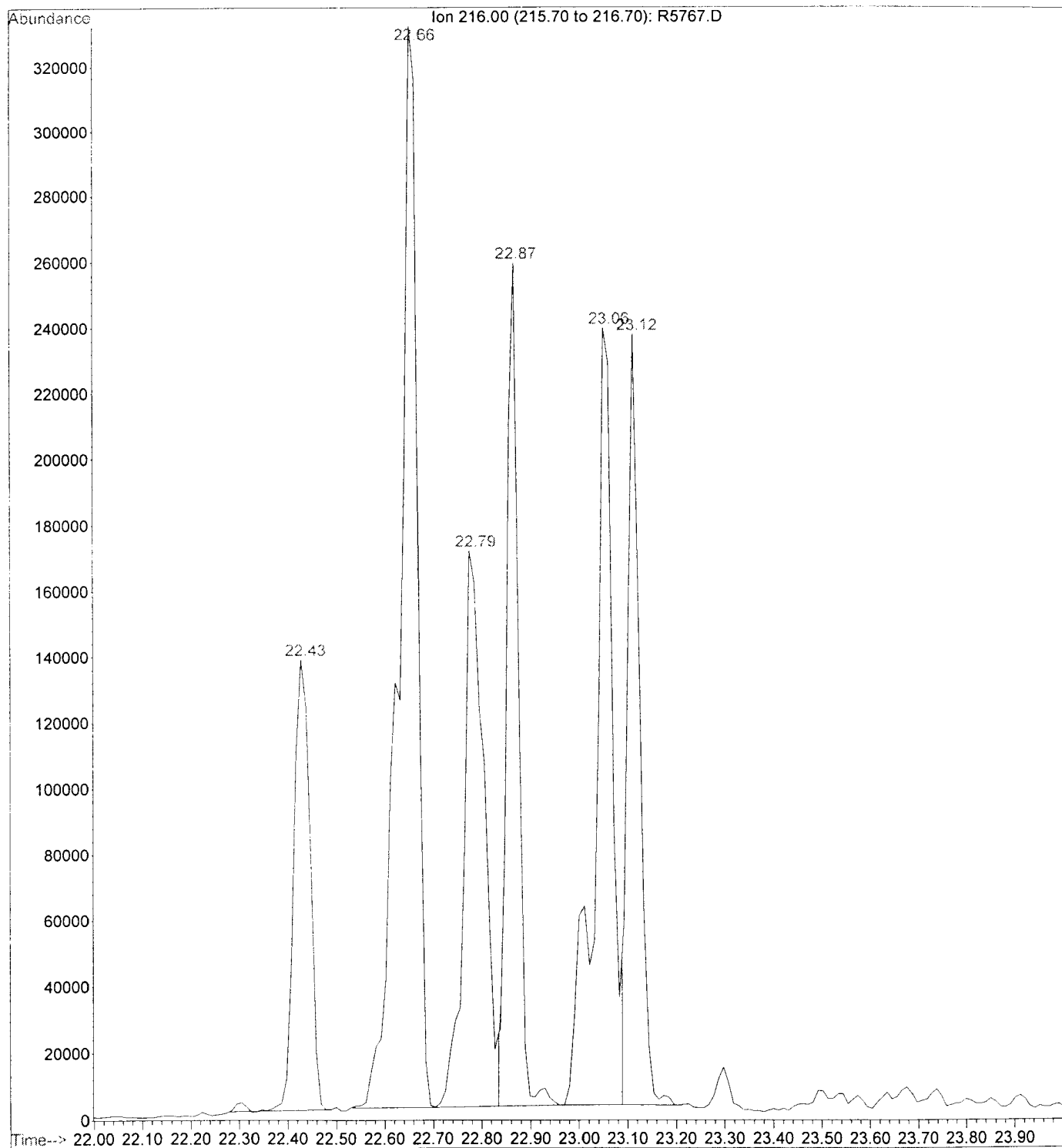
File : D:\HPCHEM\MSR\R5765.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 1:10 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-07  
Misc Info : SD13 (0.5-2.1) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 20



File : D:\HPCHEM\MSR\R5766.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 1:51 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-08  
Misc Info : SD14 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 21

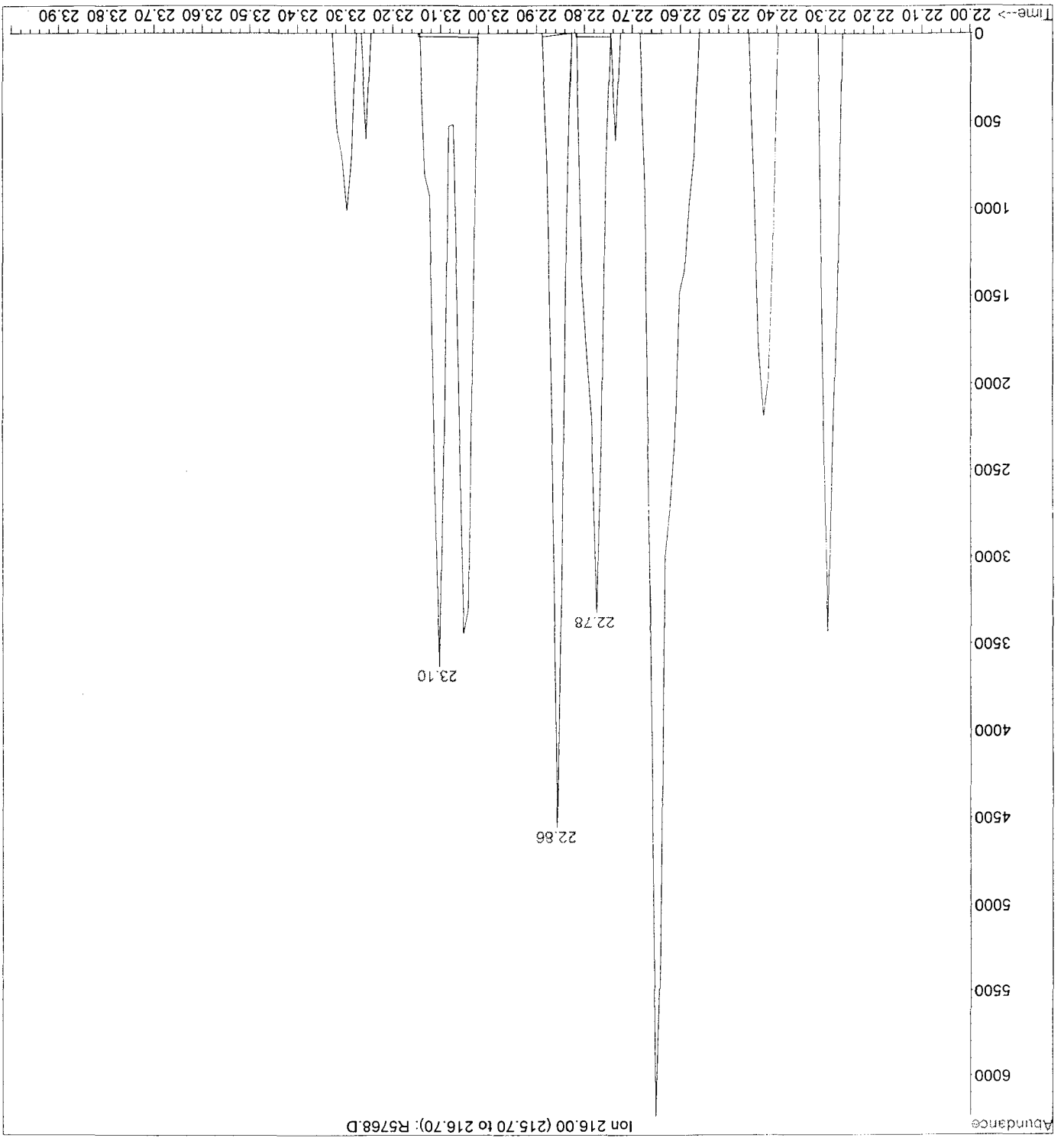


File : D:\HPCHEM\MSR\R5767.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 2:33 am using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-09  
Misc Info : SD14 (0.7-2.1); OLM ; 5 ; LLS ; SOIL  
Vial Number: 22

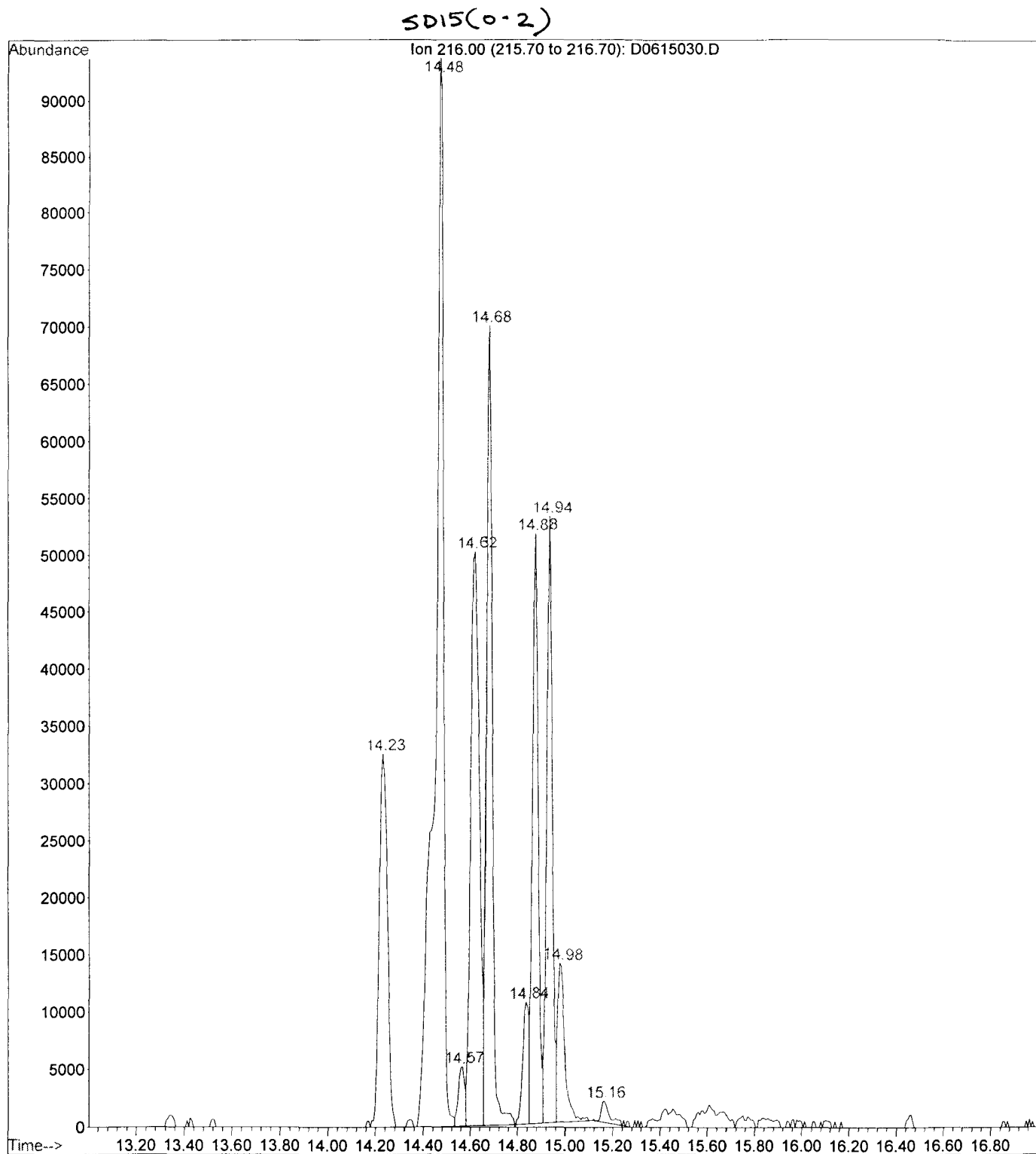




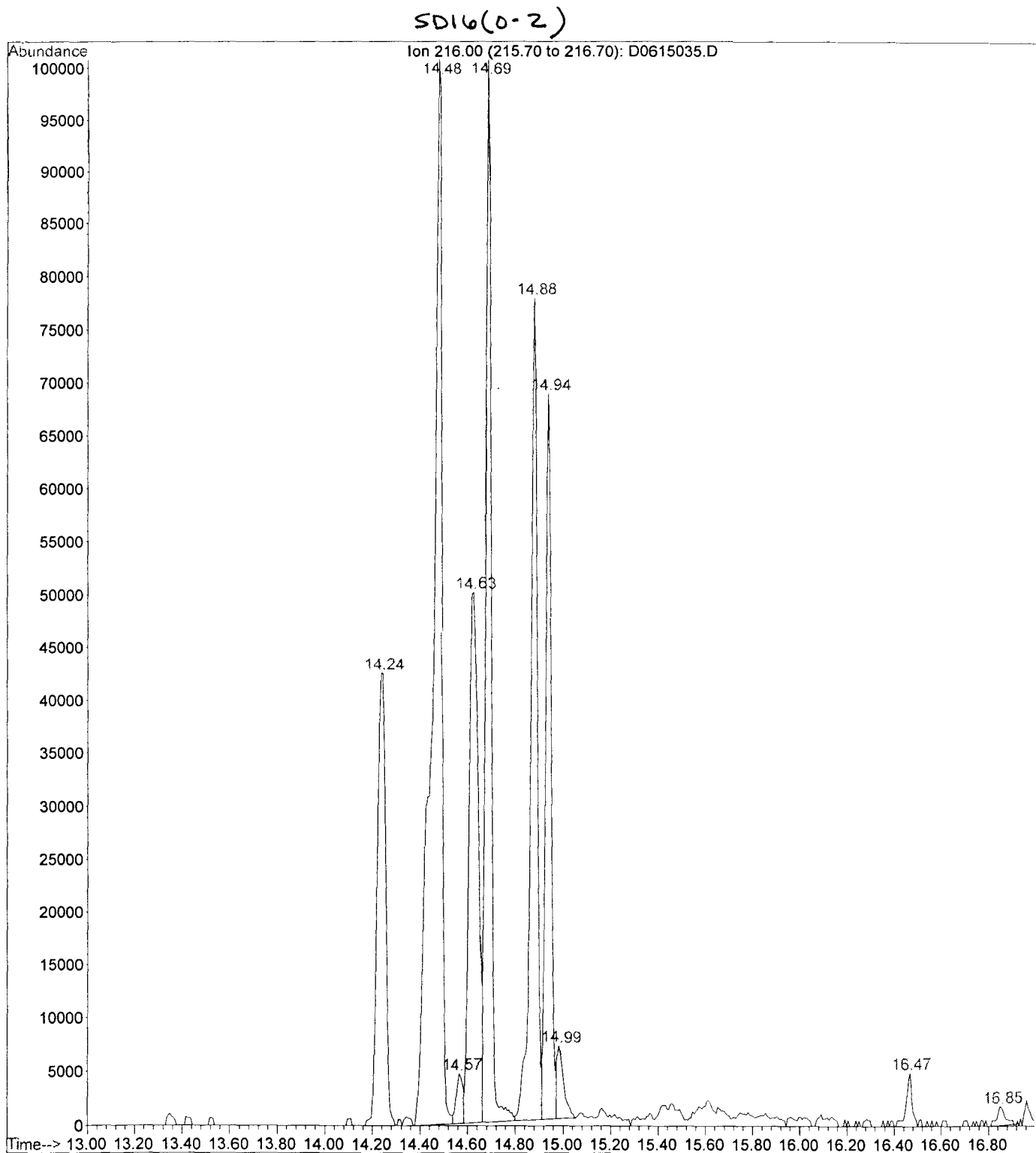
File : D:\HPCHEM\MSR\R5768.D  
Operator : J.Bennett  
Acquired : 8 Jan 2000 3:15 am using AcqMethod MSRSOCNT  
Sample Name: 993309B-10  
Instrument : HP5971:R  
Misc Info : SD14 (5.0-5.4) : OLM : 1: LTS : SOIL  
Vial Number: 23



File : D:\NYACK\1NYACK\C1F070175\D0615030.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 3:55 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-003 20x soil 6/9/11 clp3.2  
Misc Info : eehhjl ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 32

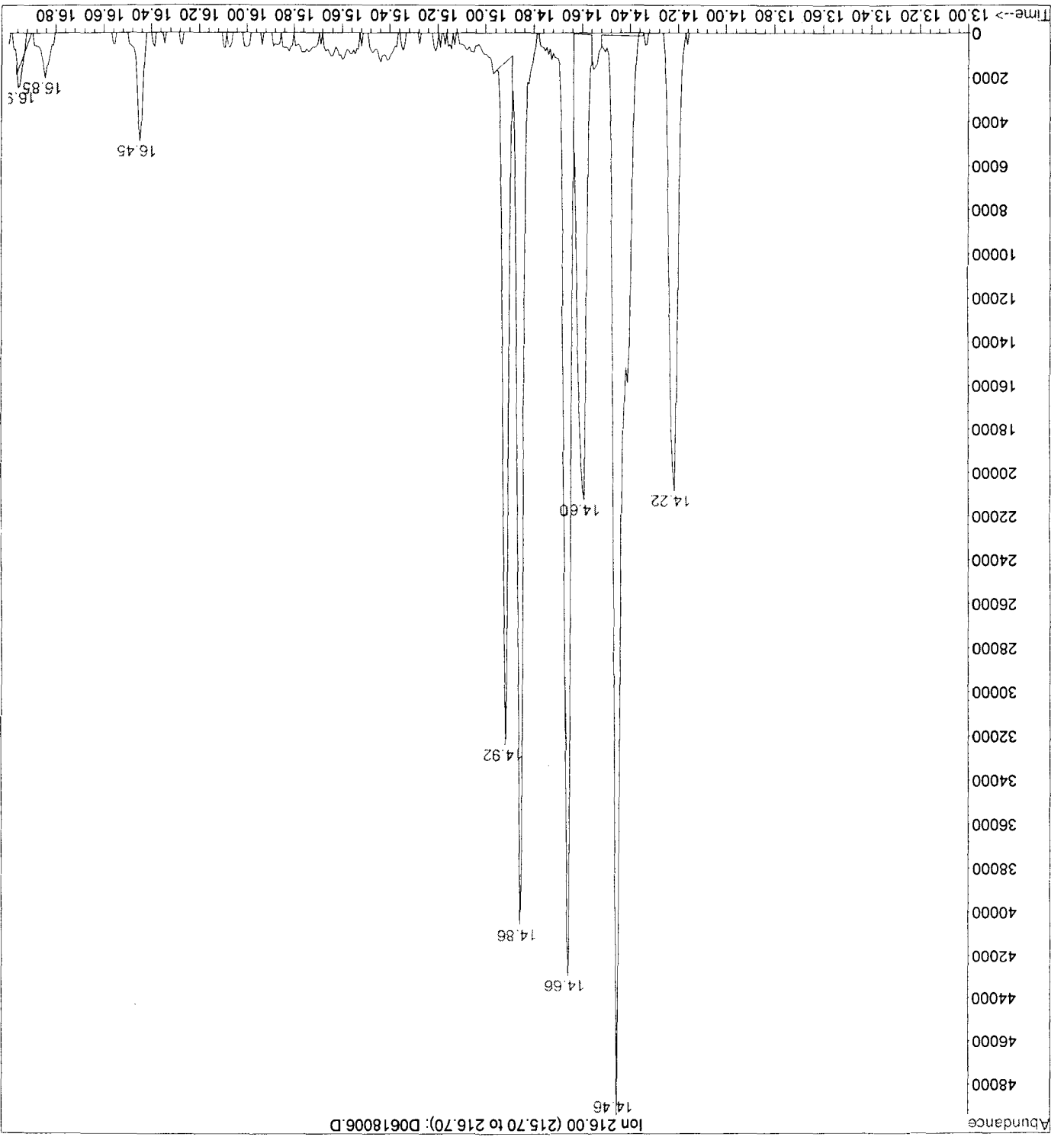


File : D:\NYACK\1NYACK\C1F070175\D0615035.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 6:28 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-008 20x soil 6/9/11 clp3.2  
Misc Info : eehh41ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 37



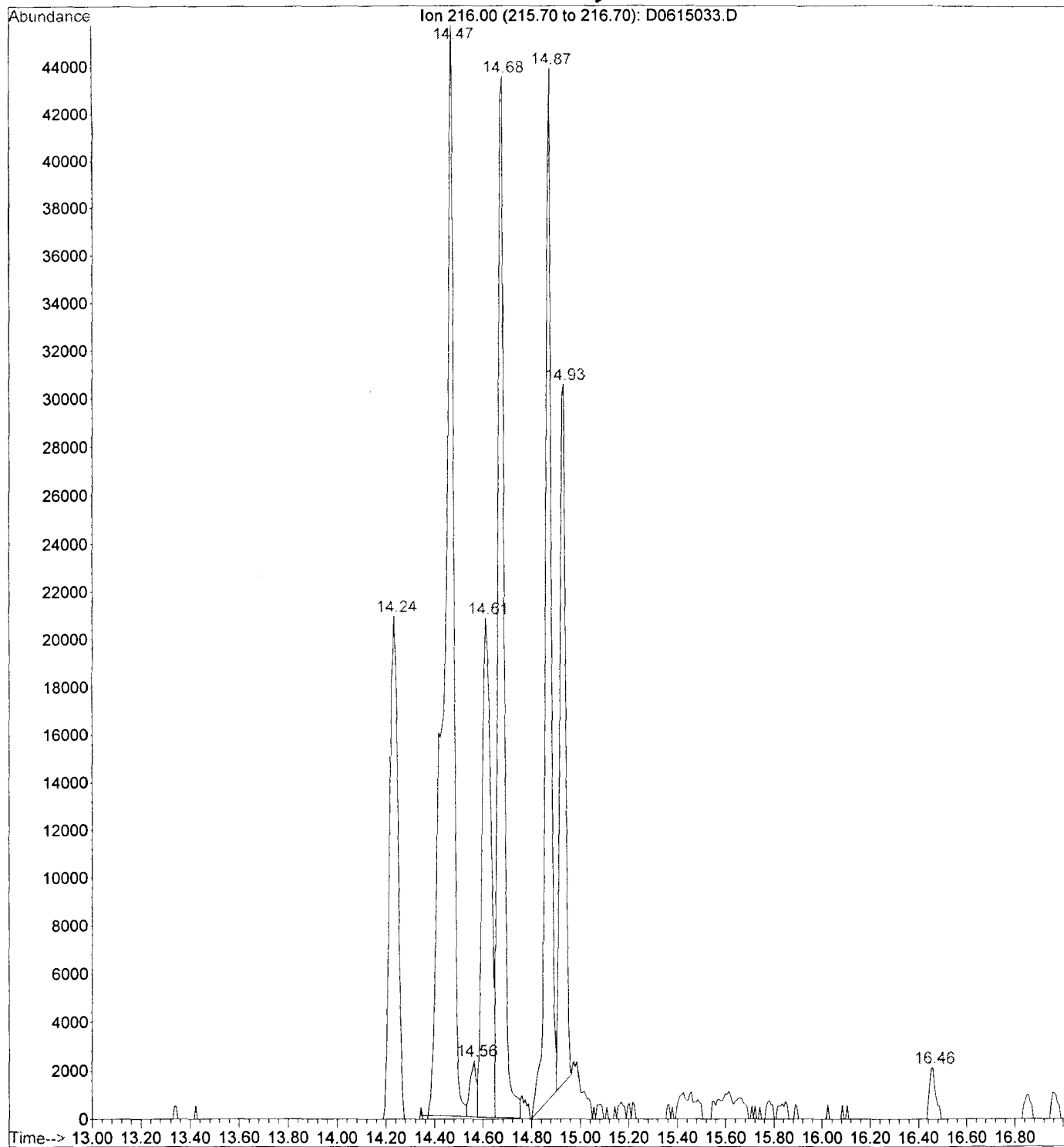
File : D:\NYACK\1NYACK\CI F070175\D0618006.D  
 Operator : 001562, DLF  
 Acquired : 18 Jun 2001 3:33 pm using AcqMethod CLP  
 Instrument : GC/MS Ins  
 Sample Name : CI F070175-009 2X soil 6/9/11 clp3.2  
 Misc Info : eeh91af,d061801p.b,clp.m,1-3.1.sub  
 Vial Number : 8

SD17(0.2)



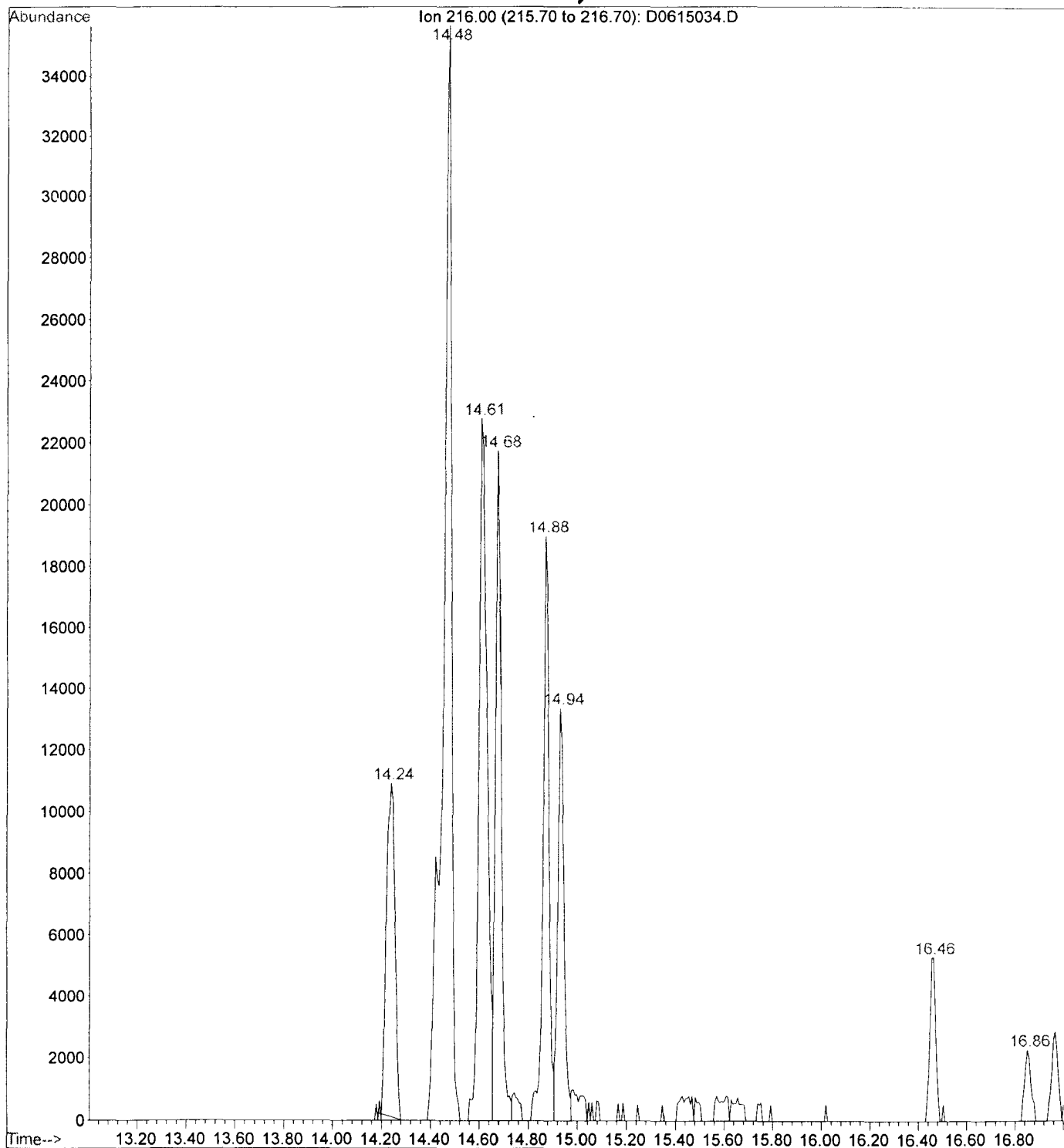
File : D:\NYACK\1NYACK\C1F070175\D0615033.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 5:27 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-006 5x soil 6/9/11 clp3.2  
Misc Info : eehhv1ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 35

SD 17 (2-4)



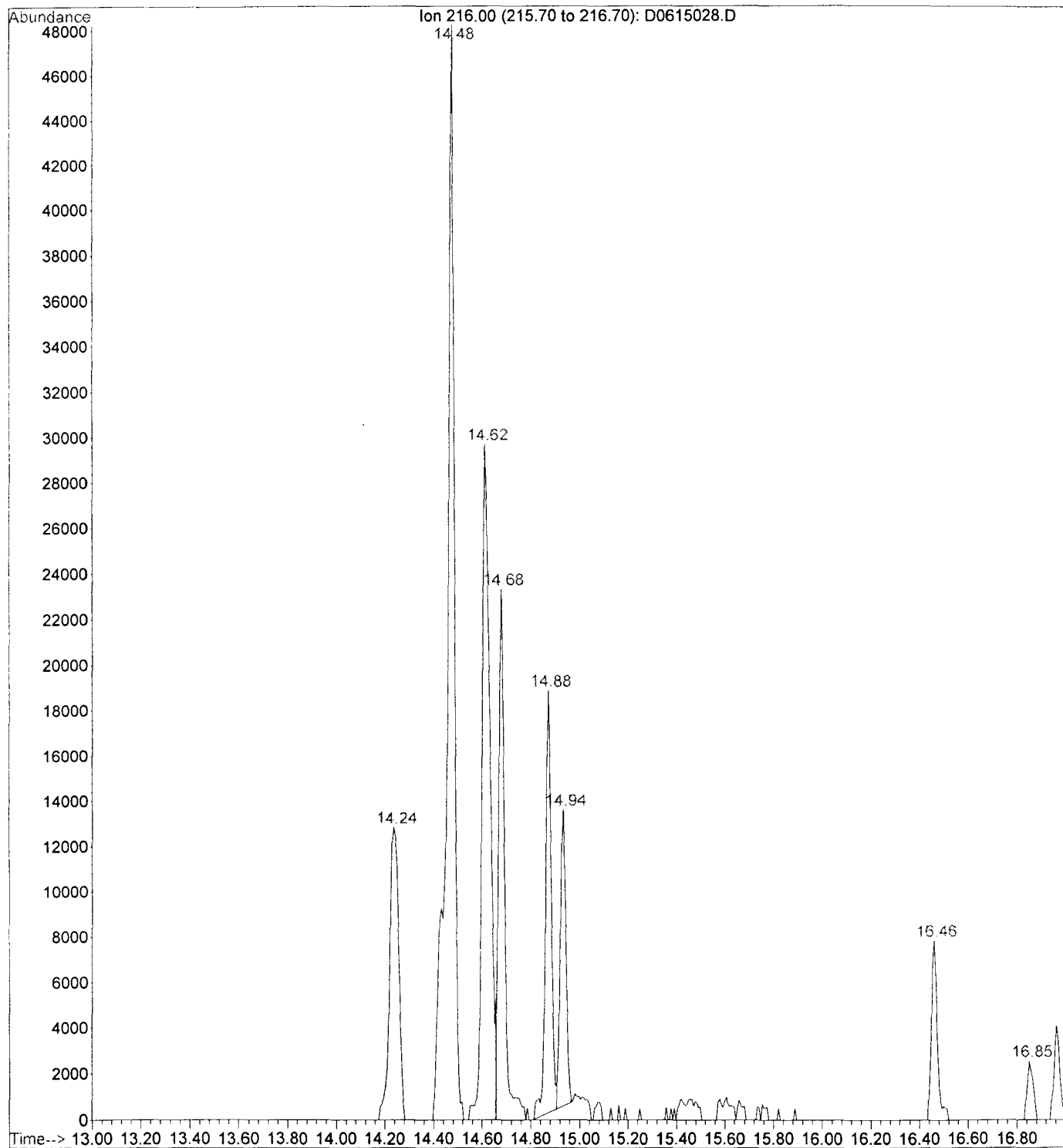
File : D:\NYACK\1NYACK\C1F070175\D0615034.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 5:57 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-007 2x soil 6/9/11 clp3.2  
Misc Info : eehh01ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 36

SD18(0-2)

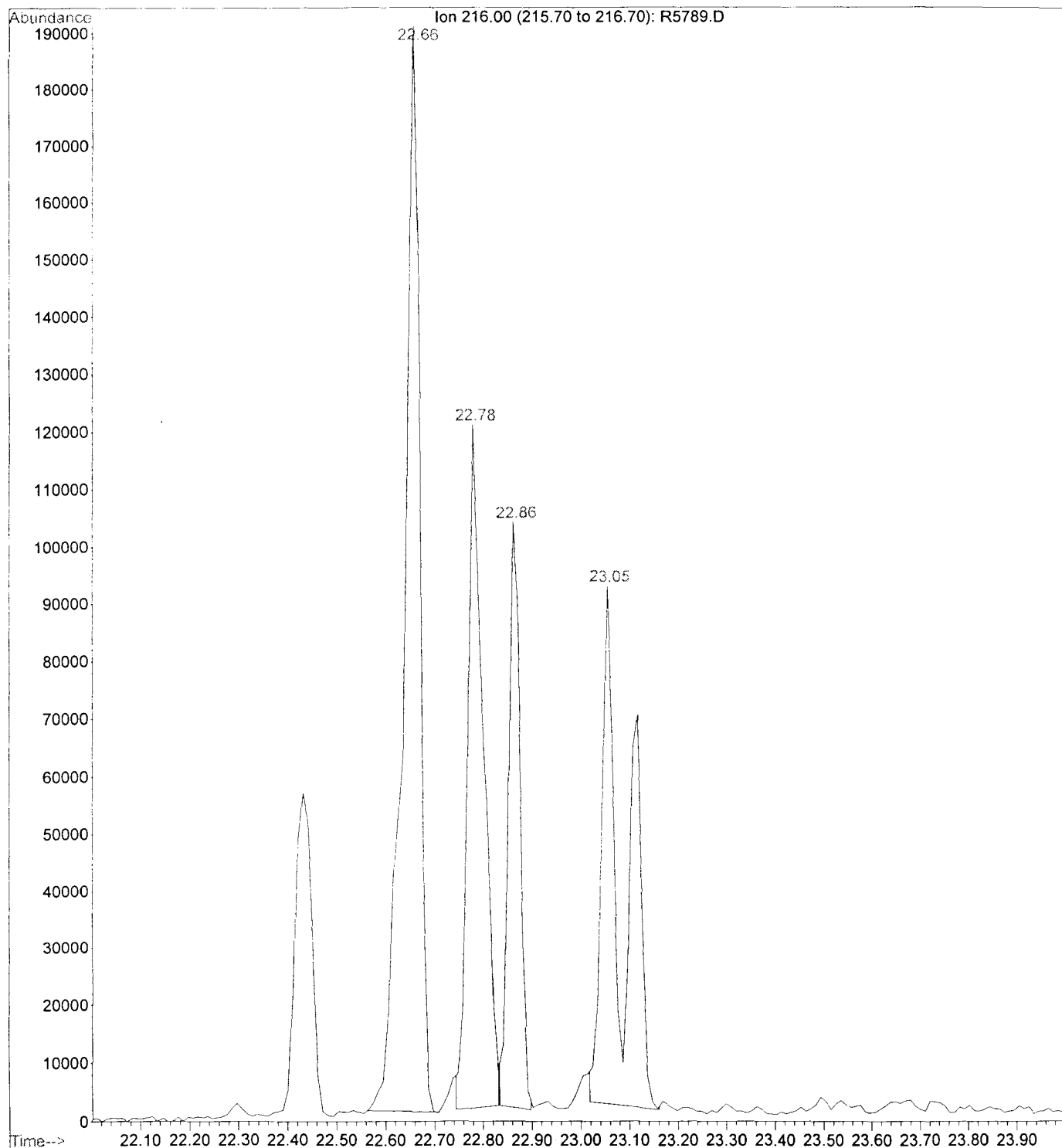


File : D:\NYACK\1NYACK\C1F070175\D0615028.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 2:53 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-001 soil 6/9/11 clp3.2  
Misc Info : eehgxlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 30

SD19 (0-2)

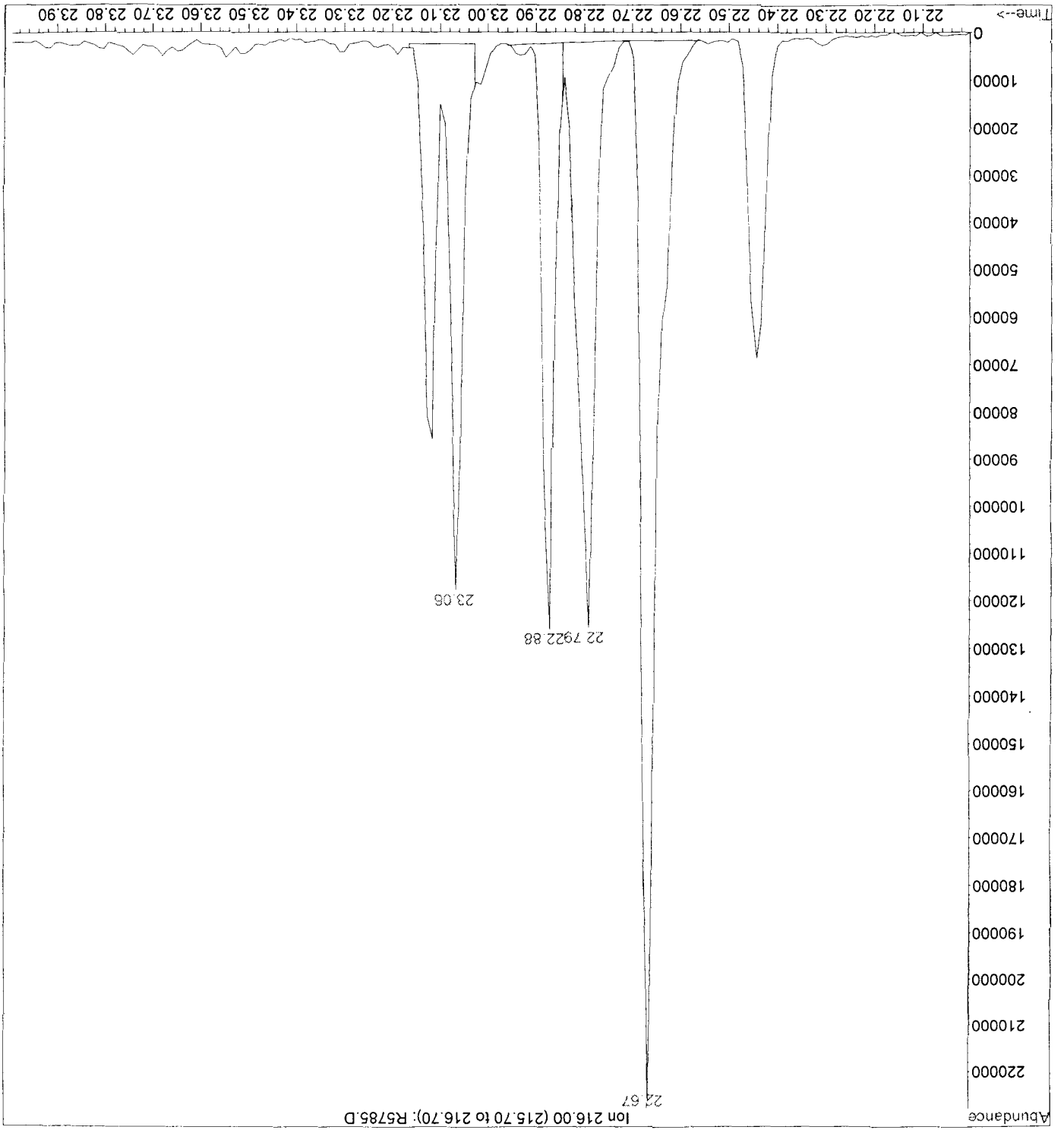


File : D:\HPCHEM\MSR\R5789.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 9:03 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-13  
Misc Info : SD2 (0.0-0.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 15



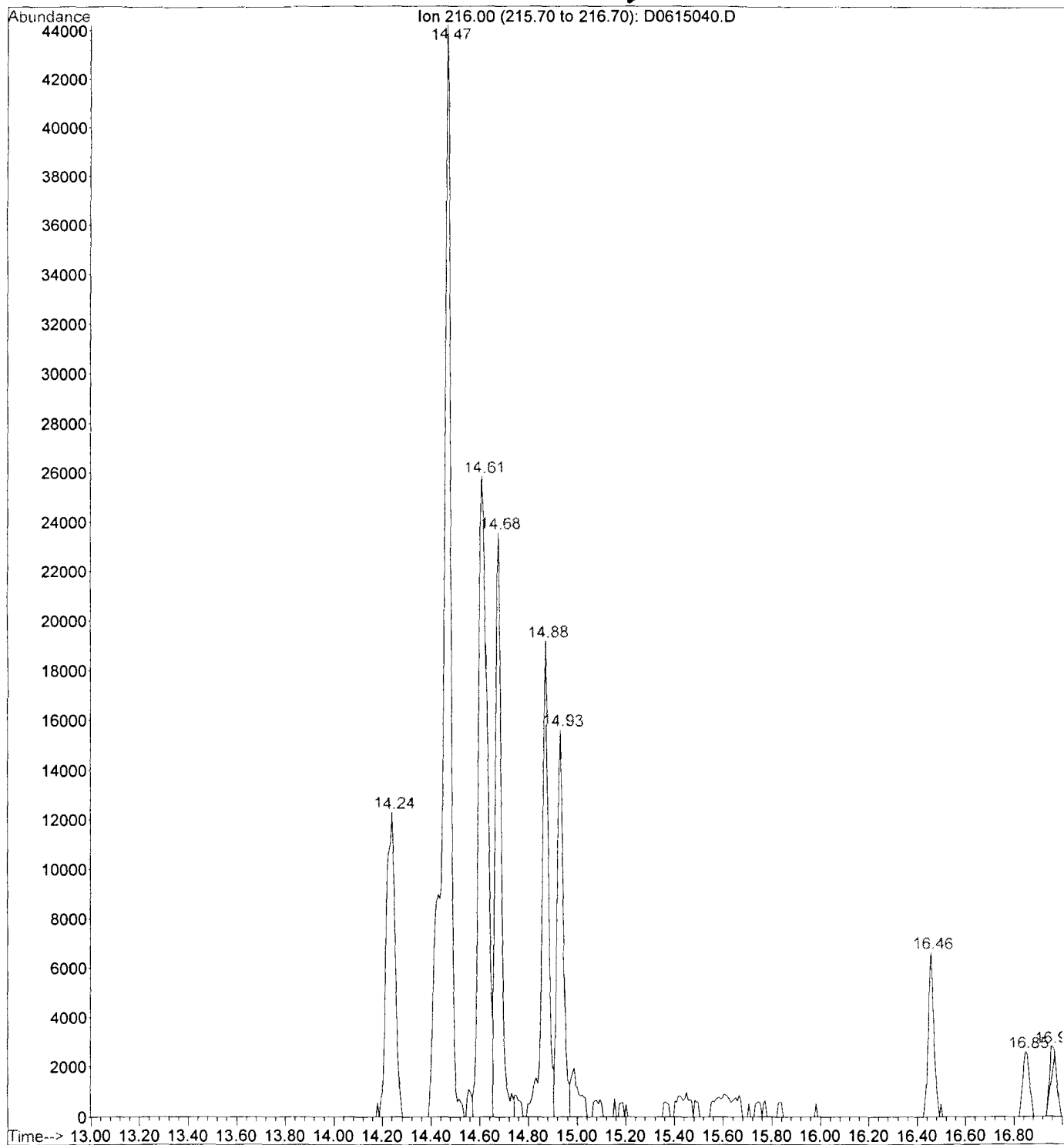


File : D:\HPCHEM\MSR\R5785.D  
 Operator : C.LOMBARDI  
 Acquired : 10 Jan 2000 6:16 pm using AcqMethod MSRSOCNT  
 Instrument : HP5971.R  
 Sample Name : 993309B-03  
 Misc Info : SD2 (0.2-2.0) ; OLM : 2 ; TLS : SOIL  
 Vial Number : 11



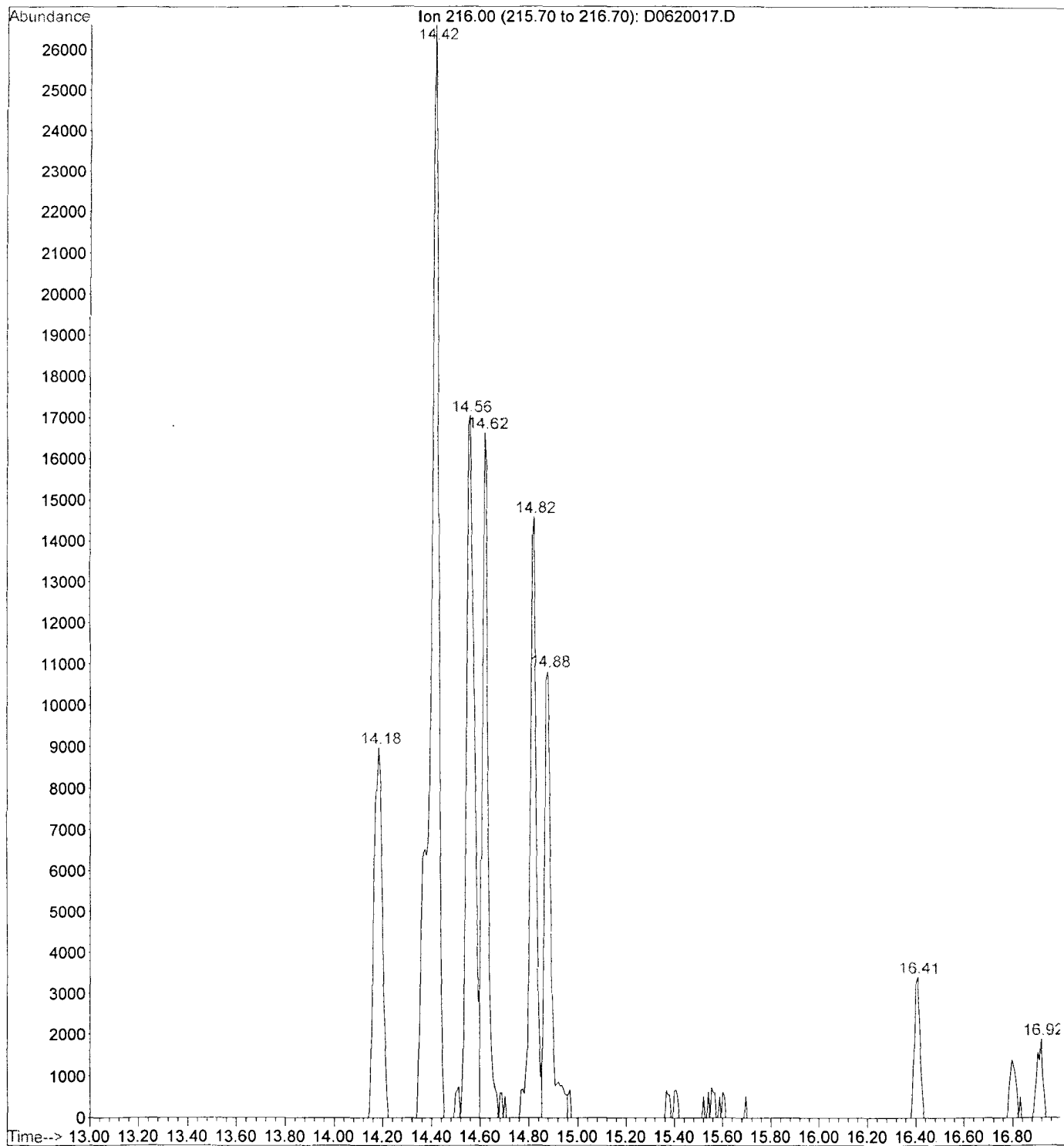
File : D:\NYACK\1NYACK\C1F070175\D0615040.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 9:02 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070175-011 2x soil 6/9/11 clp3.2  
Misc Info : eehjhlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 42

SD20(0-2)



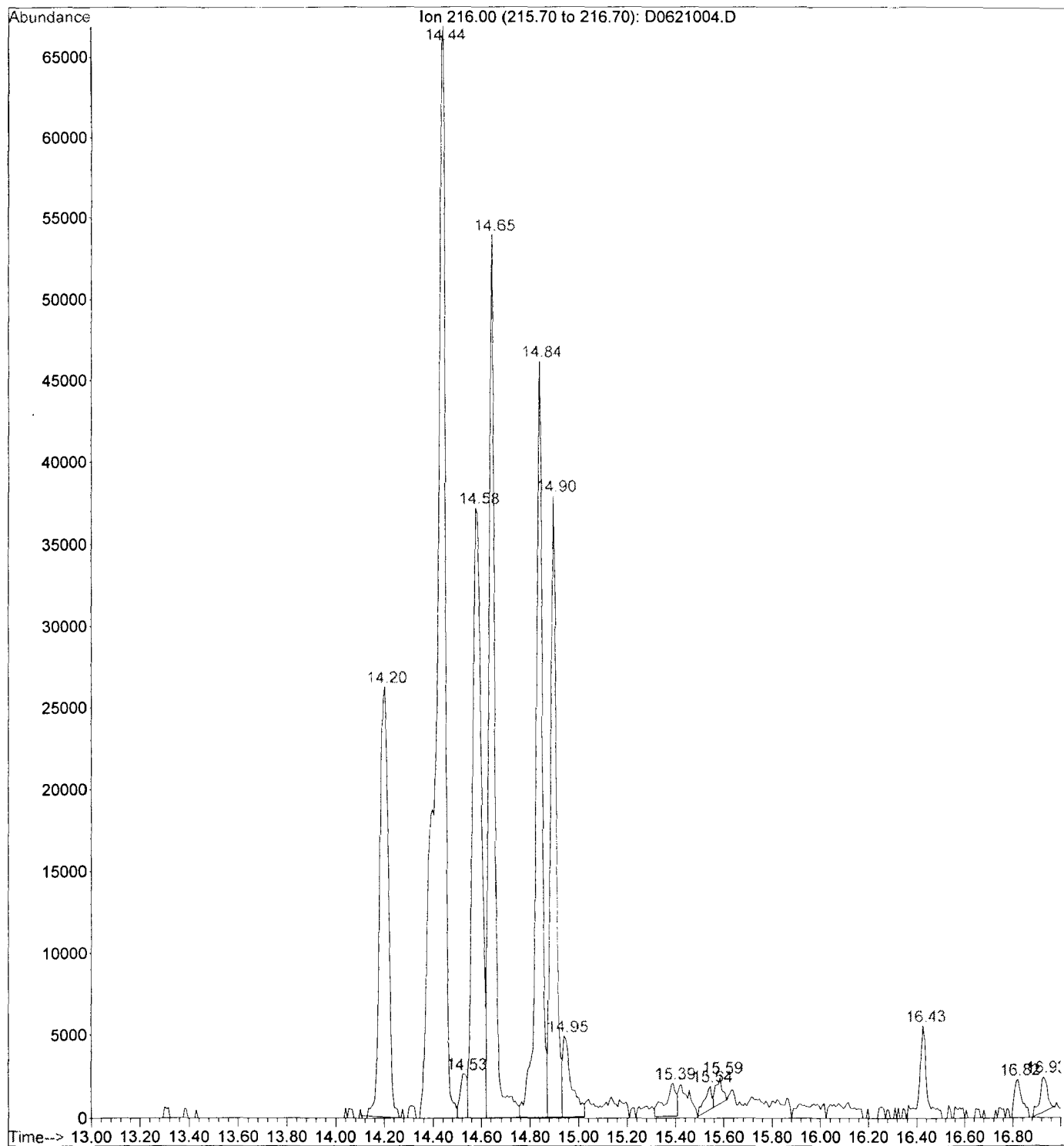
File : D:\NYACK\1NYACK\C1F070229\D0620017.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 8:52 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-011 4x soil 6/11/01 clp3.2  
Misc Info : eeh351af,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 19

SD.21 (0-2)



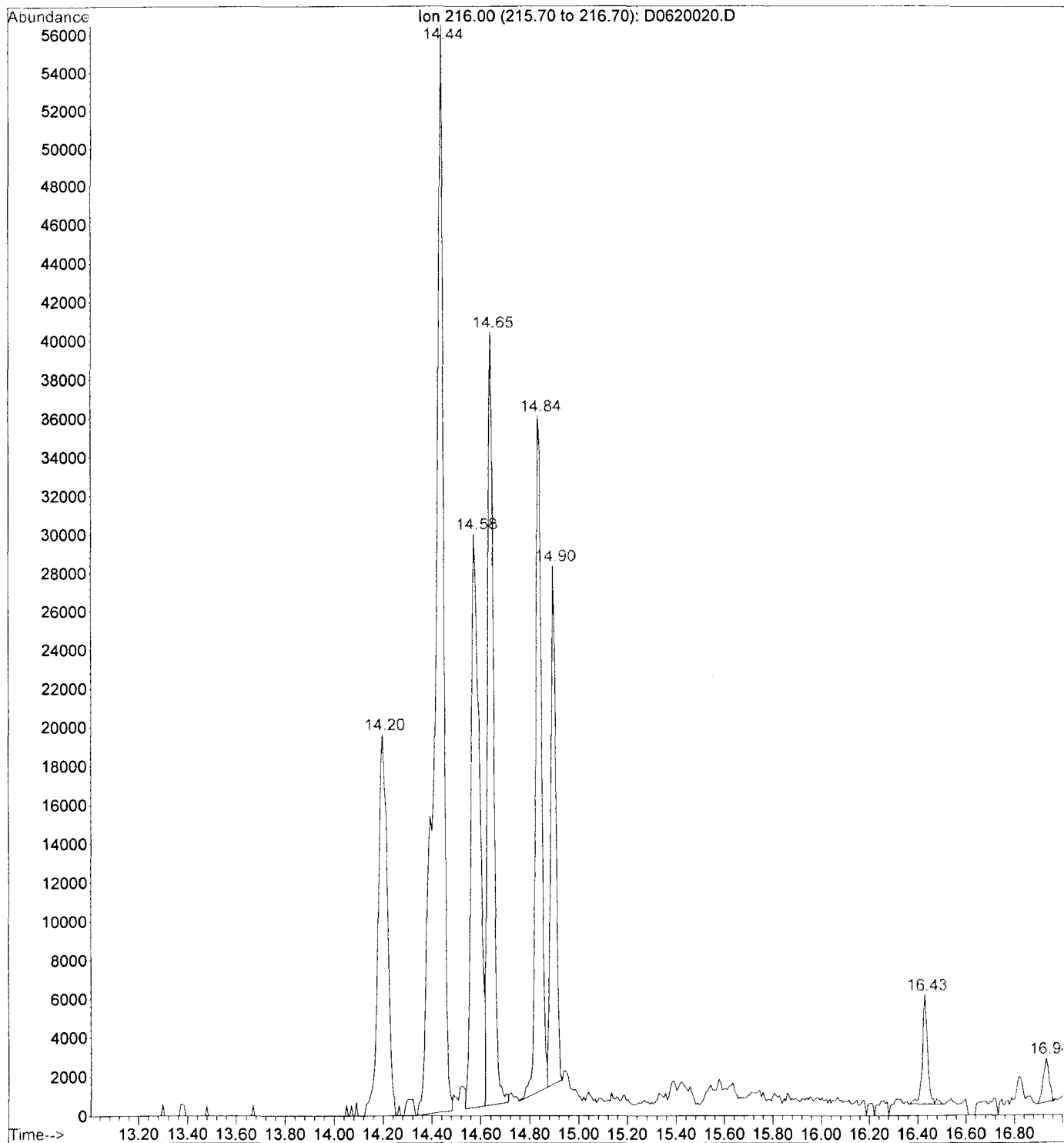
File : D:\NYACK\1NYACK\C1F070229\D0621004.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 3:14 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-010 2x soil 6/11/01 clp3.2  
Misc Info : eeh321ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 6

SD 21 (6-7)



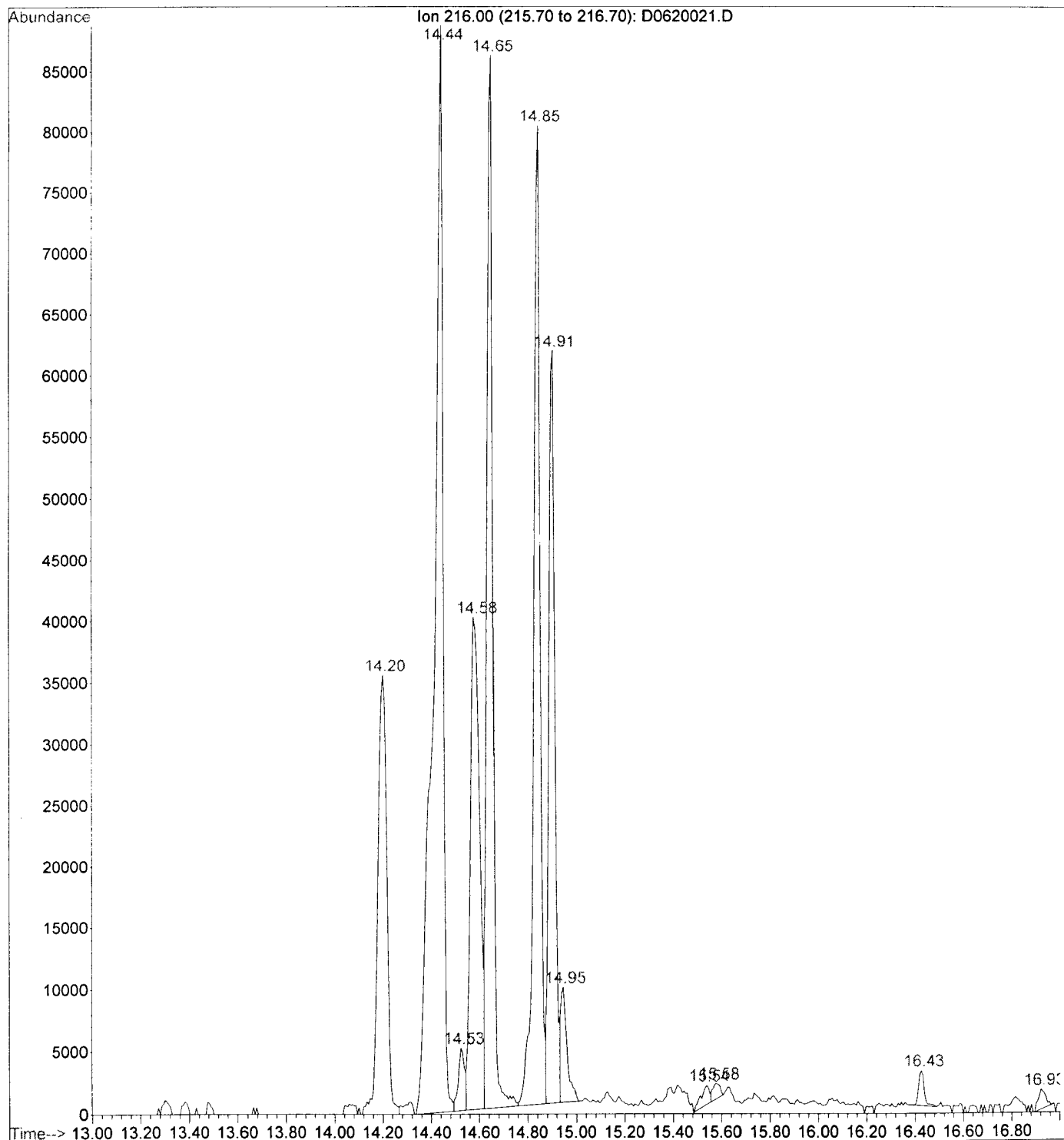
File : D:\NYACK\1NYACK\C1F070229\D0620020.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 10:19 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-012 soil 6/11/01 clp3.2  
Misc Info : eeh4e1ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 22

SD 22 (C-2)



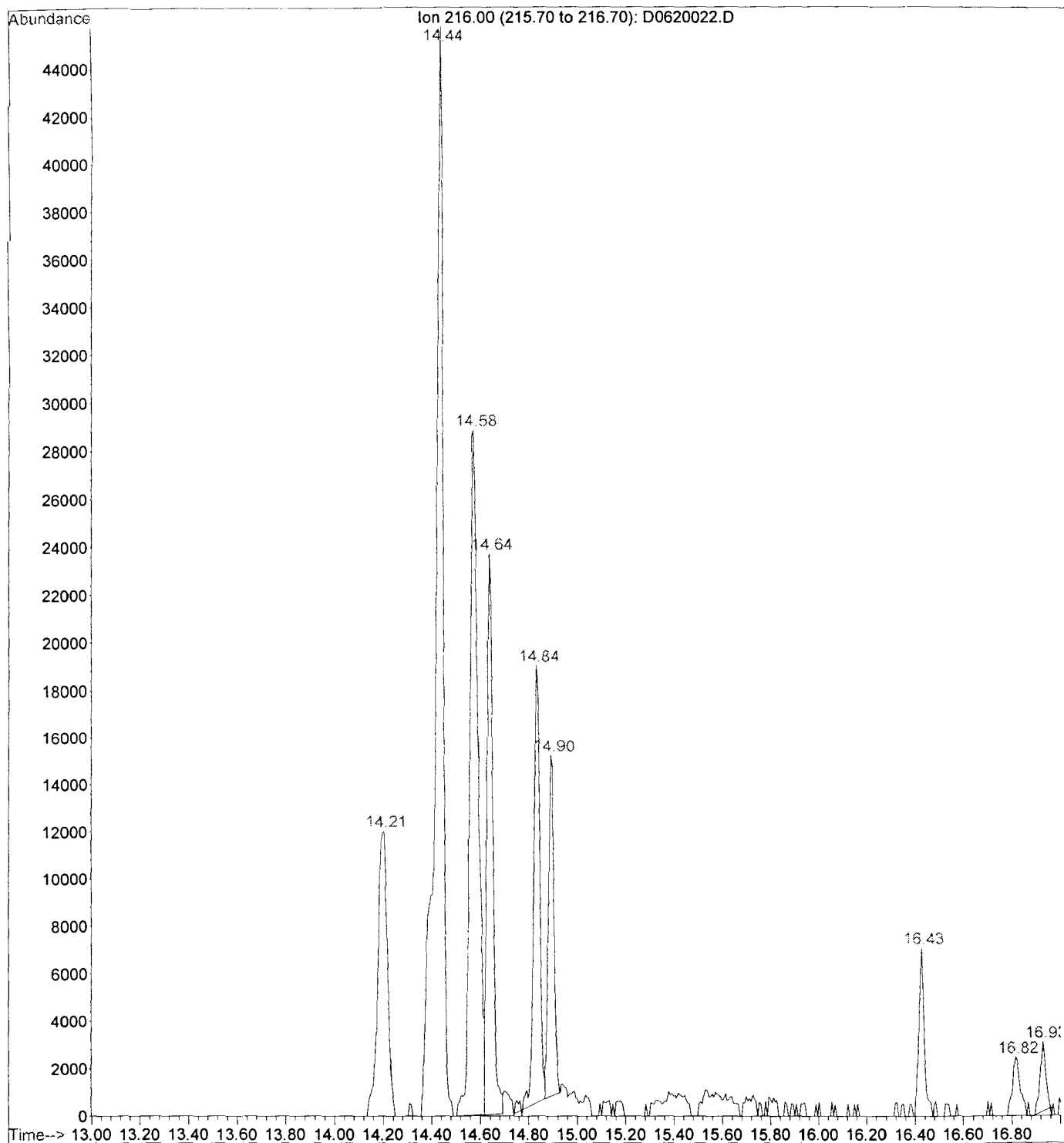
File : D:\NYACK\1NYACK\C1F070229\D0620021.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 10:48 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-013 2x soil 6/11/01 clp3.2  
Misc Info : eeh4glad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 23

SD 22 (4.9-6.0)



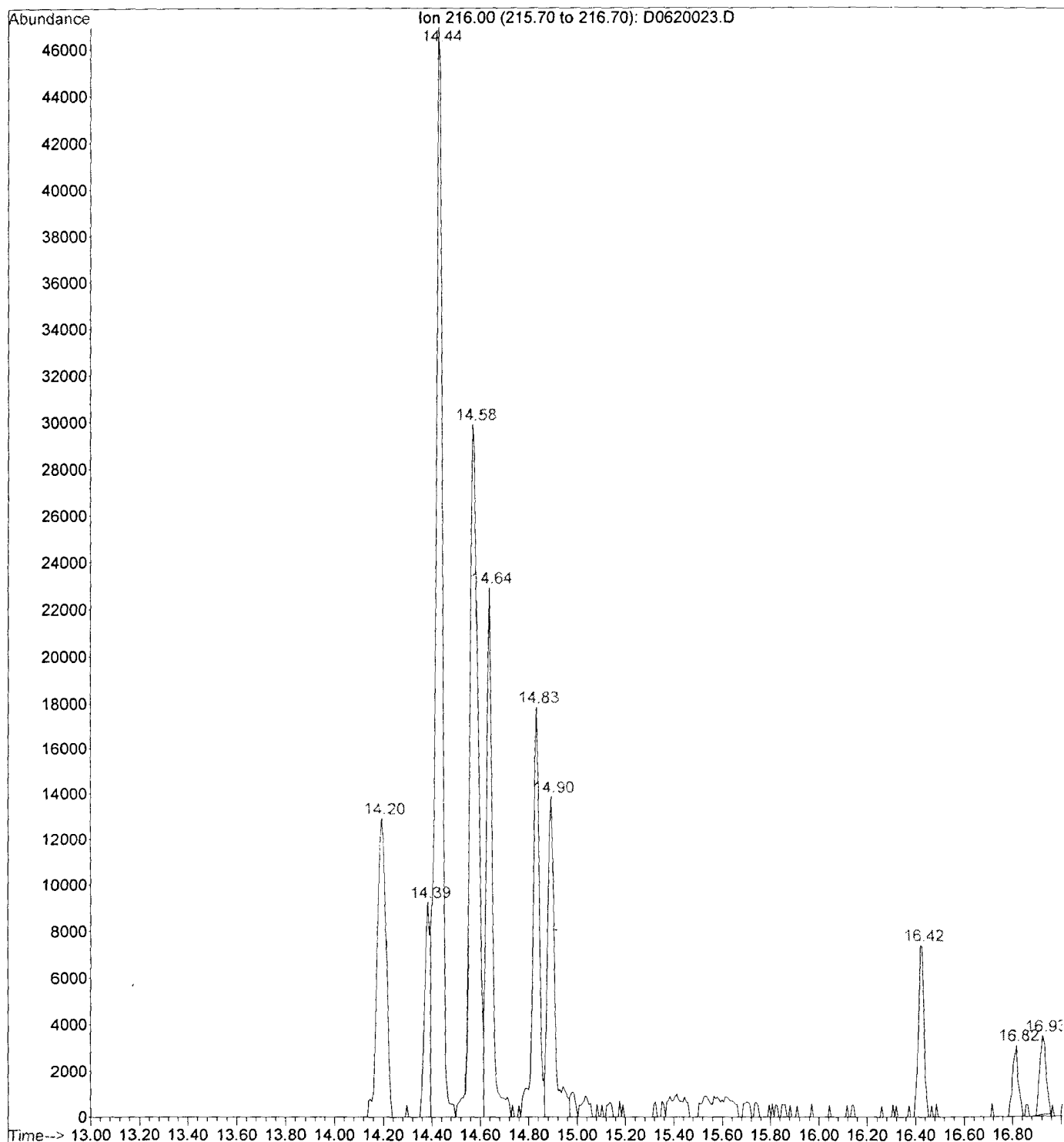
File : D:\NYACK\1NYACK\C1F070229\D0620022.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 11:17 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-014 soil 6/11/01 clp3.2  
Misc Info : eeh4jl1ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 24

SD 23 (0.2)



File : D:\NYACK\1NYACK\C1F070229\D0620023.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 11:46 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-015 2x soil 6/11/01 clp3.2  
Misc Info : eeh411ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 25

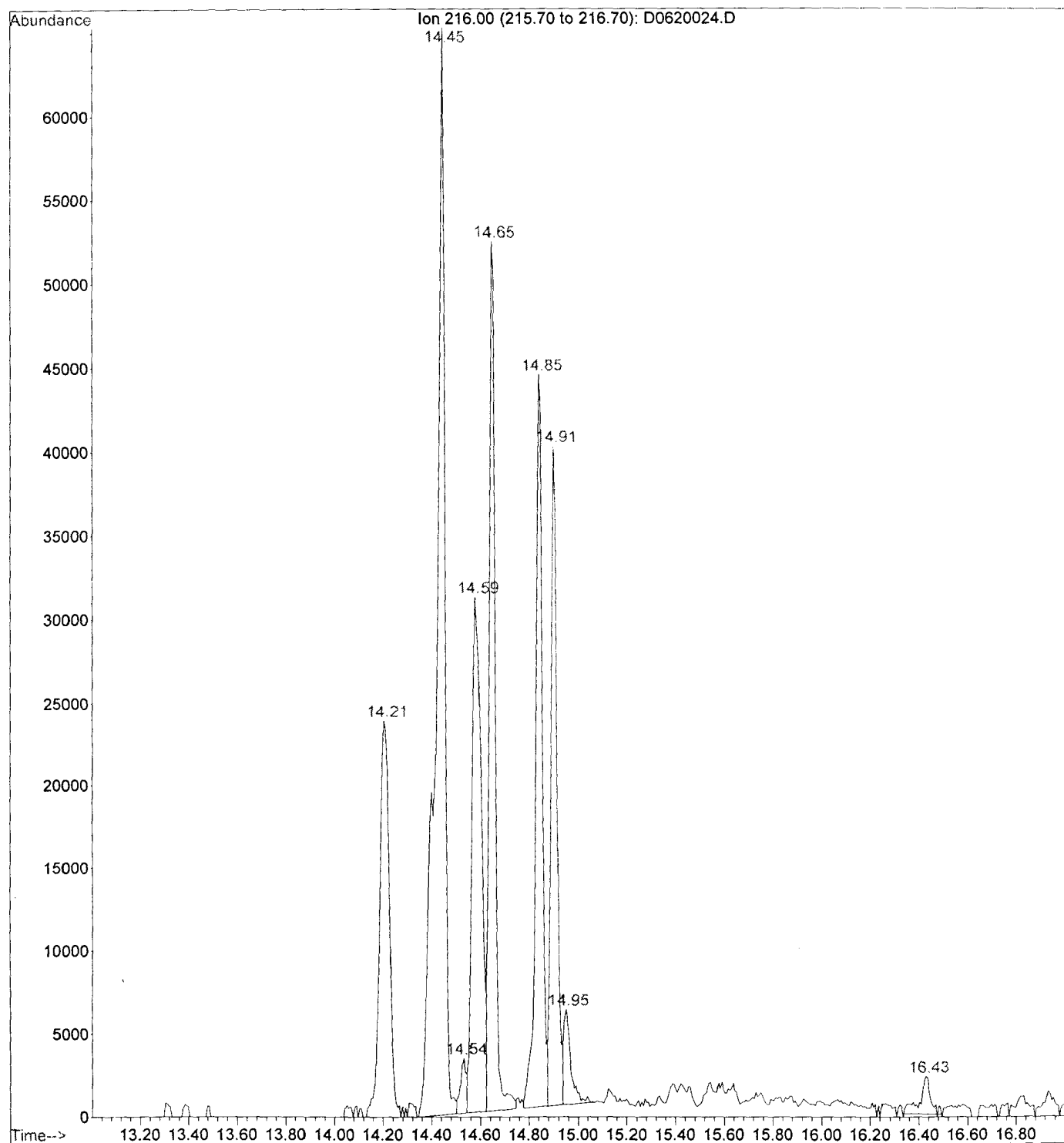
SD 23(3-4)





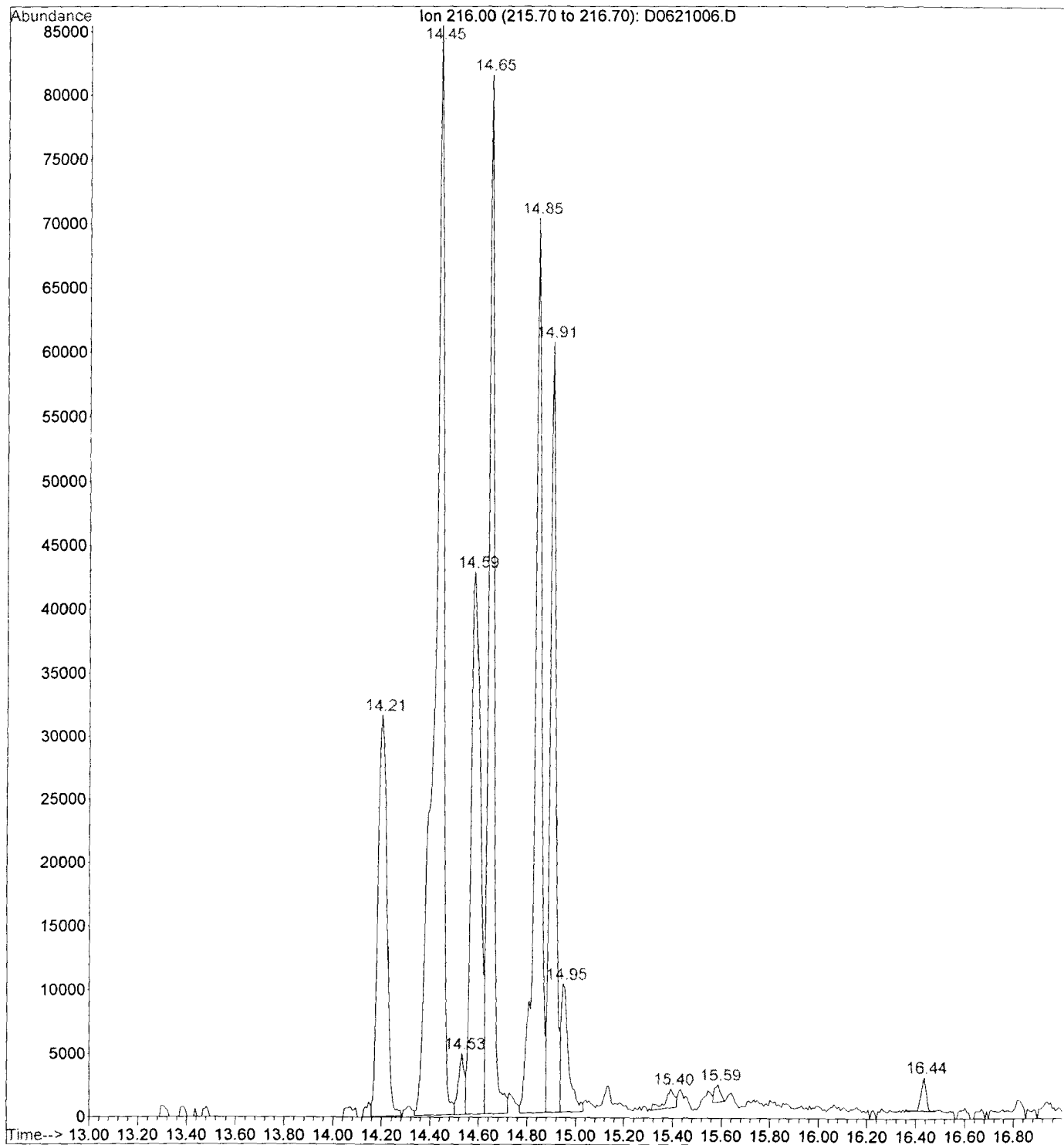
File : D:\NYACK\1NYACK\C1F070229\D0620024.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 12:15 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-016 soil 6/11/01 clp3.2  
Misc Info : eeh4mlad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 26

SD24 (C-2)



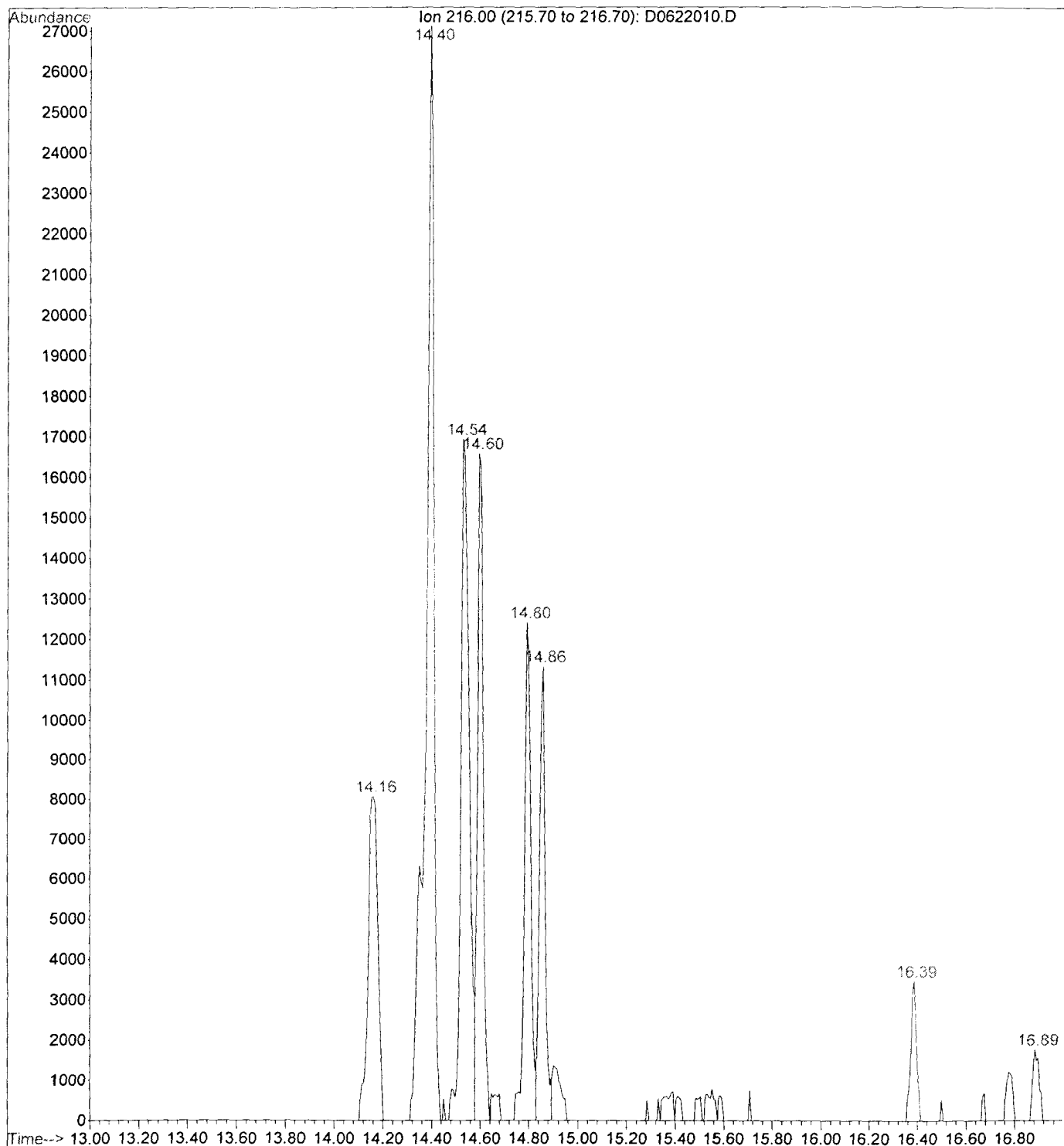
File : D:\NYACK\1NYACK\C1F070229\D0621006.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 4:12 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-018 2x soil 6/11/01 clp3.2  
Misc Info : eeh4r1ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 8

SD 25 (0-2)



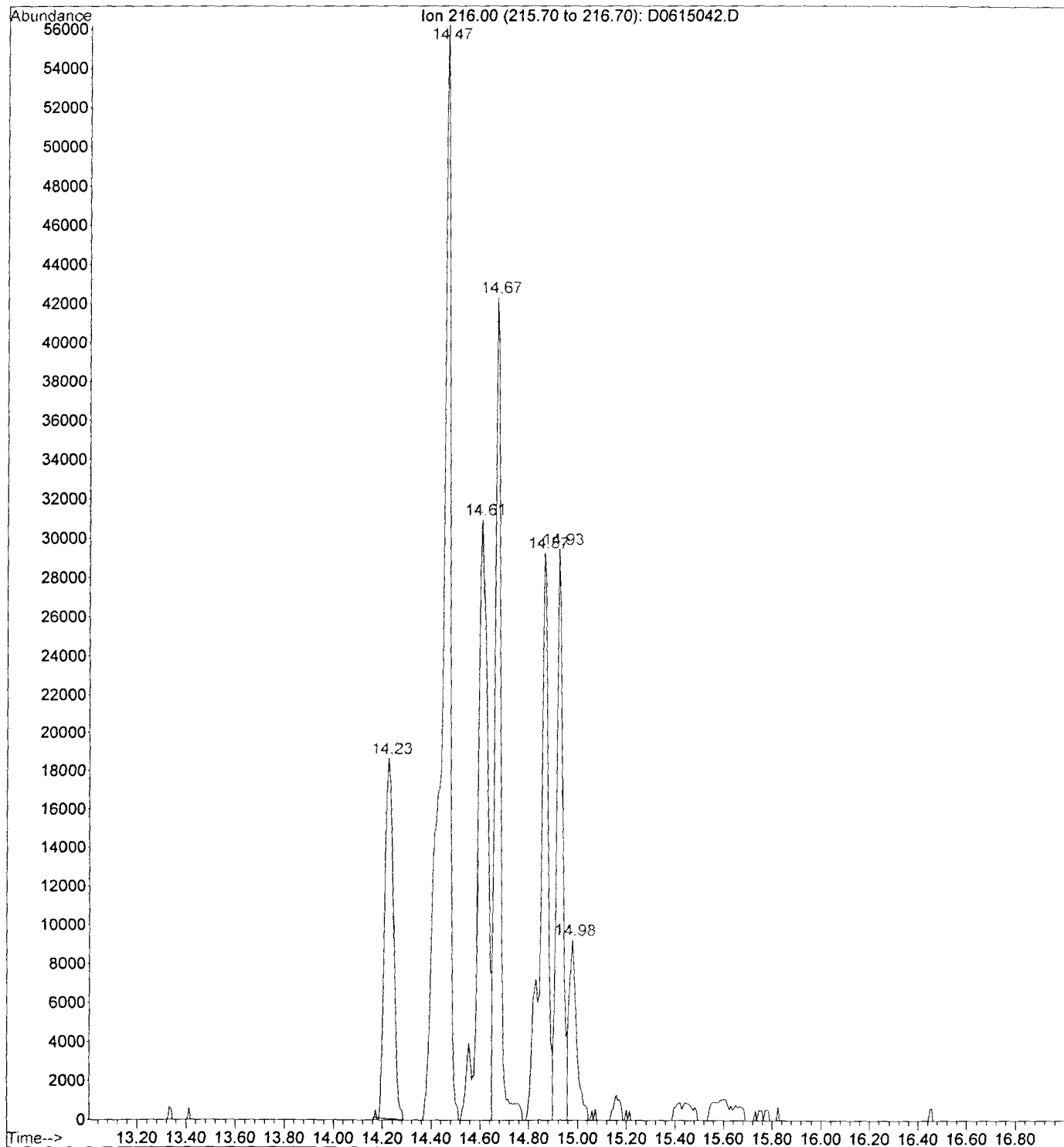
File : D:\NYACK\1NYACK\C1F070248\D0622010.D  
Operator : 001562, DLF  
Acquired : 22 Jun 2001 4:12 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: c1f070248-002 soil 6/12/01 clp3.2  
Misc Info : eeh7j1ad,d062201p.b,clp.m,1-3.1.sub  
Vial Number: 12

SD 27 (0-2)



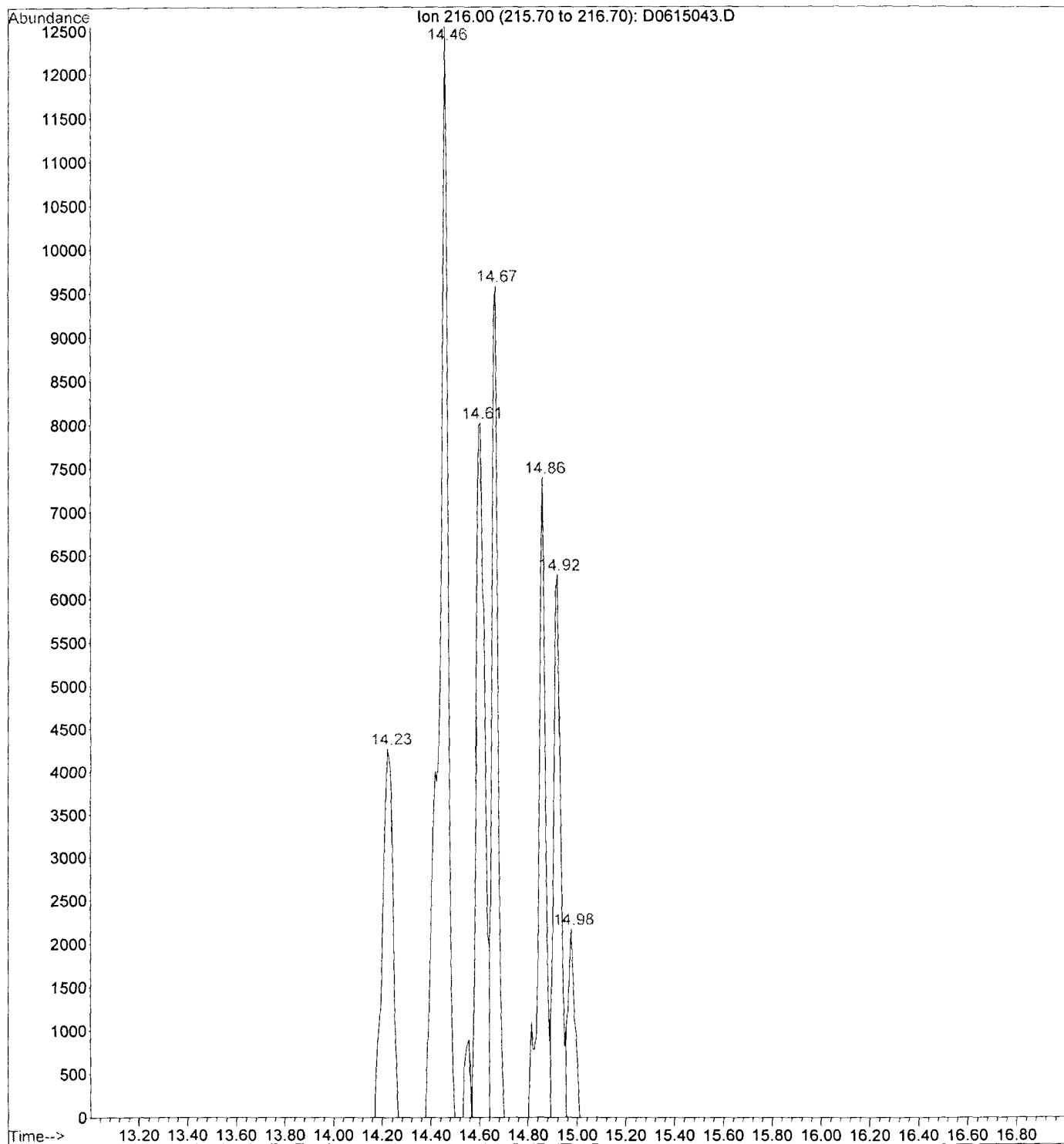
File : D:\NYACK\1NYACK\C1F070211\D0615042.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 10:03 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-001 20x soil 6/9/11 clp3.2  
Misc Info : eehermlad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 44

SD27 (5.1-5.8)



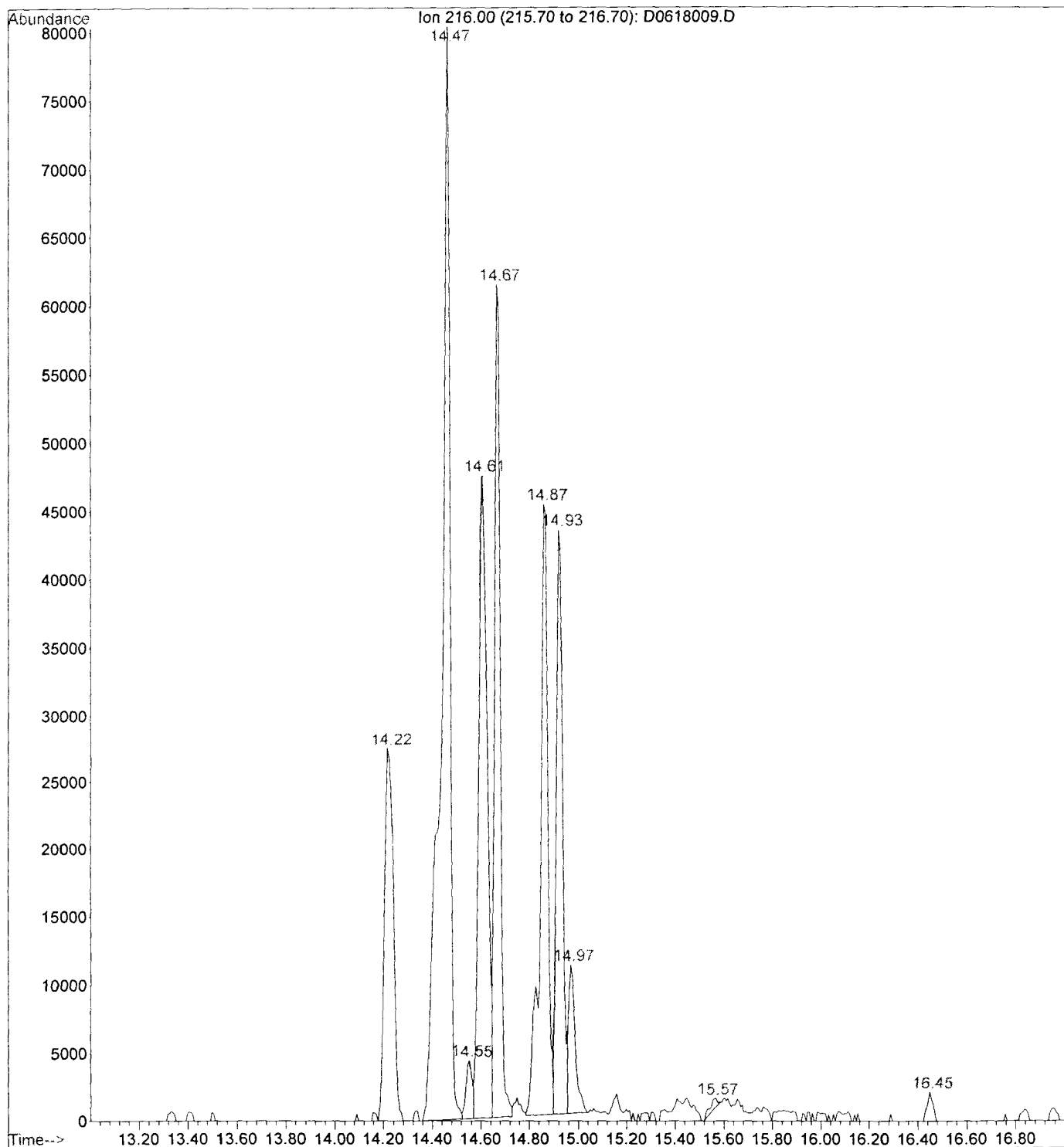
File : D:\NYACK\1NYACK\C1F070211\D0615043.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 10:34 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-002 soil 6/9/11 clp3.2  
Misc Info : eeher21ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 45

SD27(6.4-6.9)



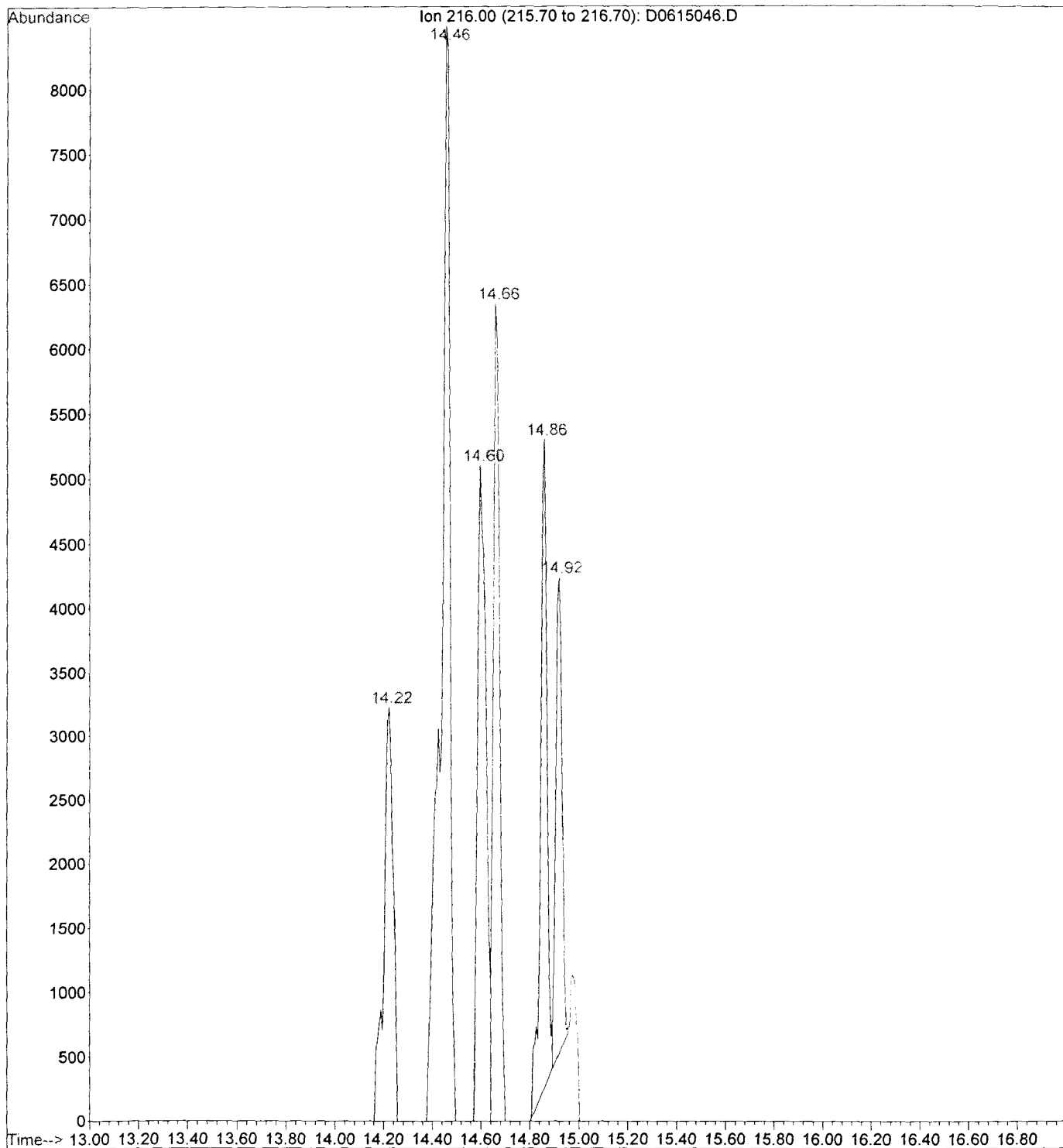
File : D:\NYACK\1NYACK\C1F070211\D0618009.D  
Operator : 001562, DLF  
Acquired : 18 Jun 2001 5:05 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070211-003 5x soil 6/9/11 clp3.2  
Misc Info : ee41ad,d061801p.b,clp.m,1-3.1.sub  
Vial Number: 11

SD28(0-2)



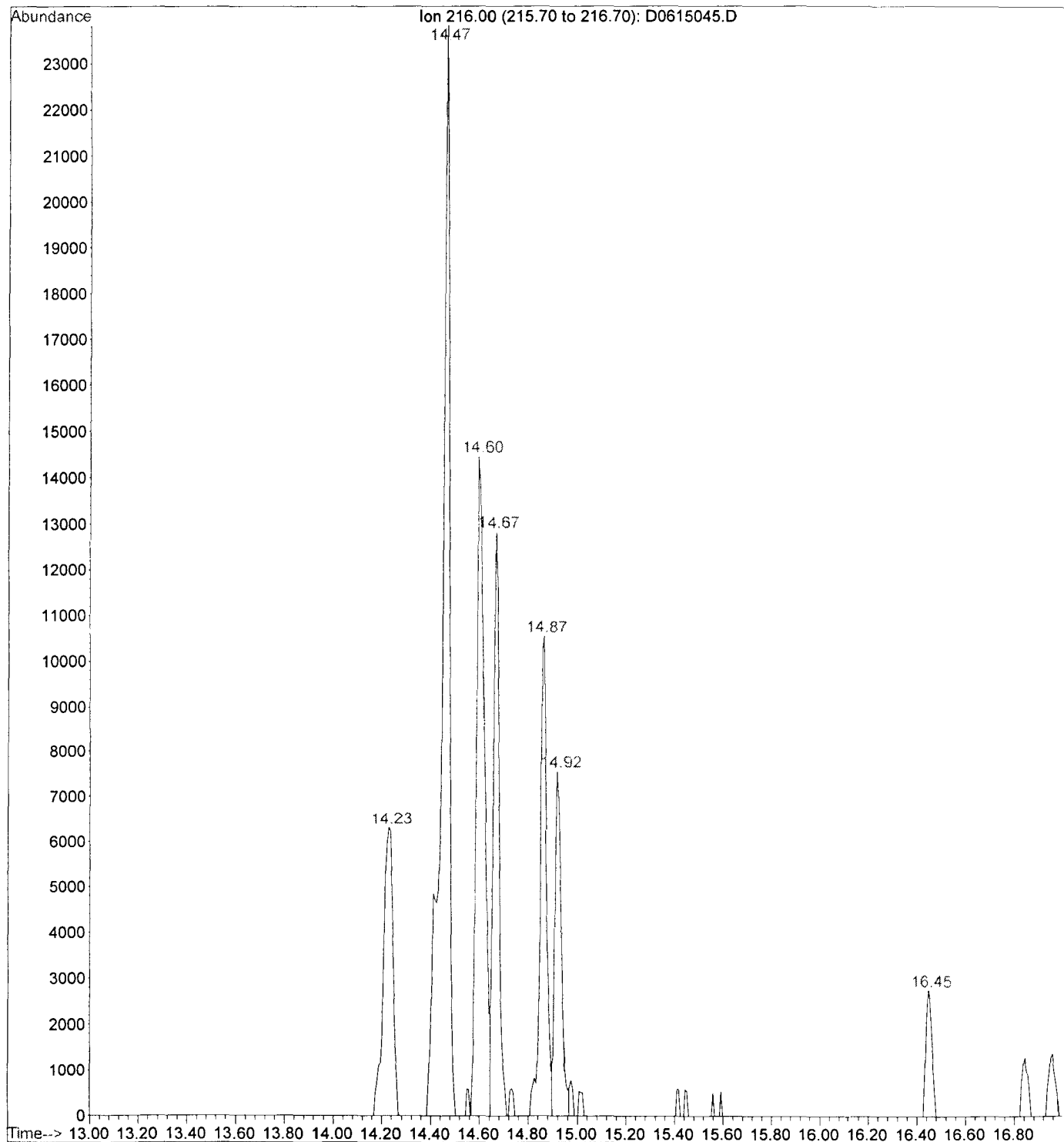
File : D:\NYACK\1NYACK\C1F070211\D0615046.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 12:06 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-005 soil 6/9/11 clp3.2  
Misc Info : eehtelad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 48

SD28(3-4.5)



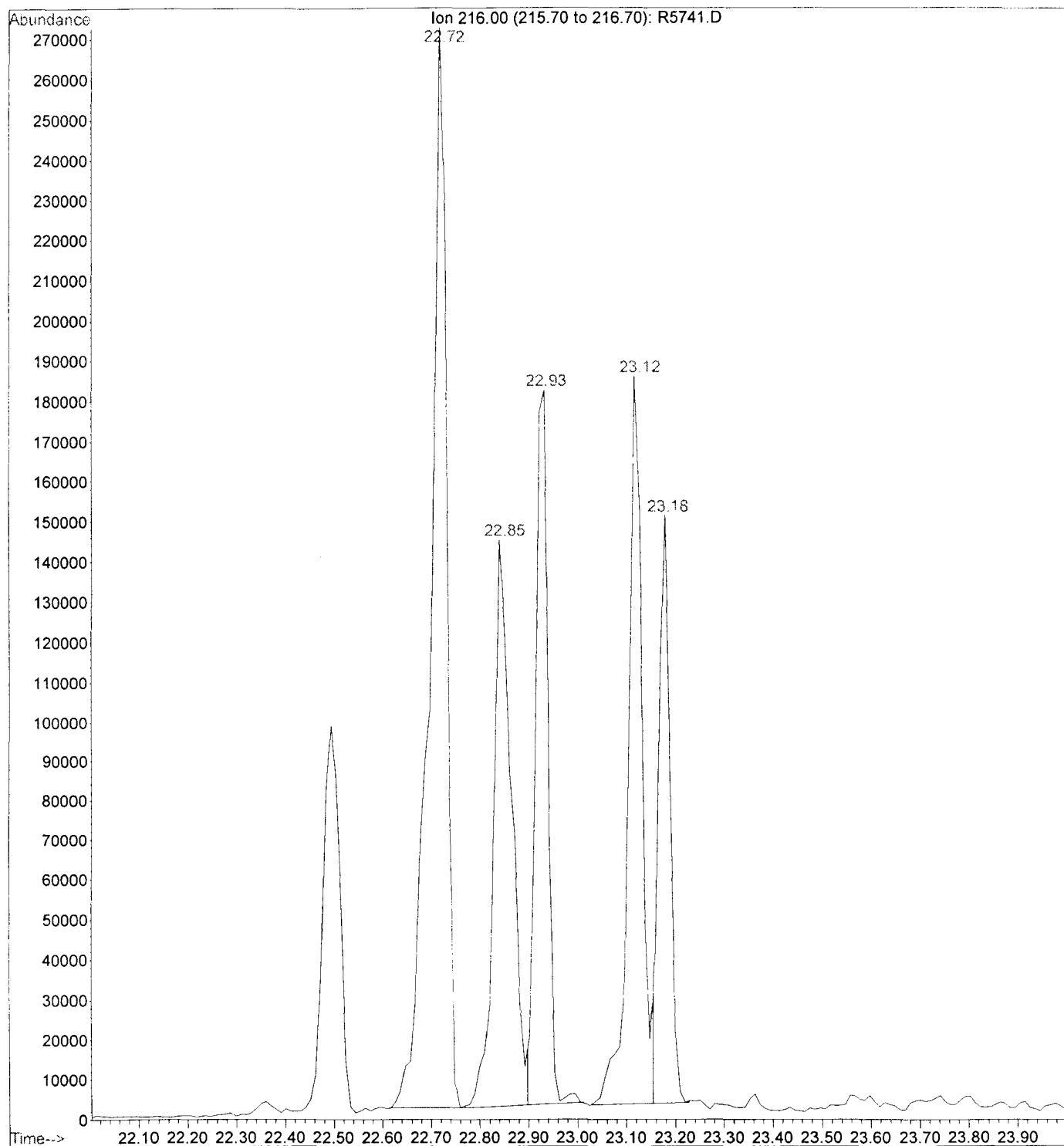
File : D:\NYACK\1NYACK\C1F070211\D0615045.D  
Operator : 001562, DLF  
Acquired : 16 Jun 2001 11:35 am using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1f070211-004 soil 6/9/11 clp3.2  
Misc Info : ee8r81ad,d061501pn.b,clp.m,1-3.1.sub  
Vial Number: 47

5029(0-2)

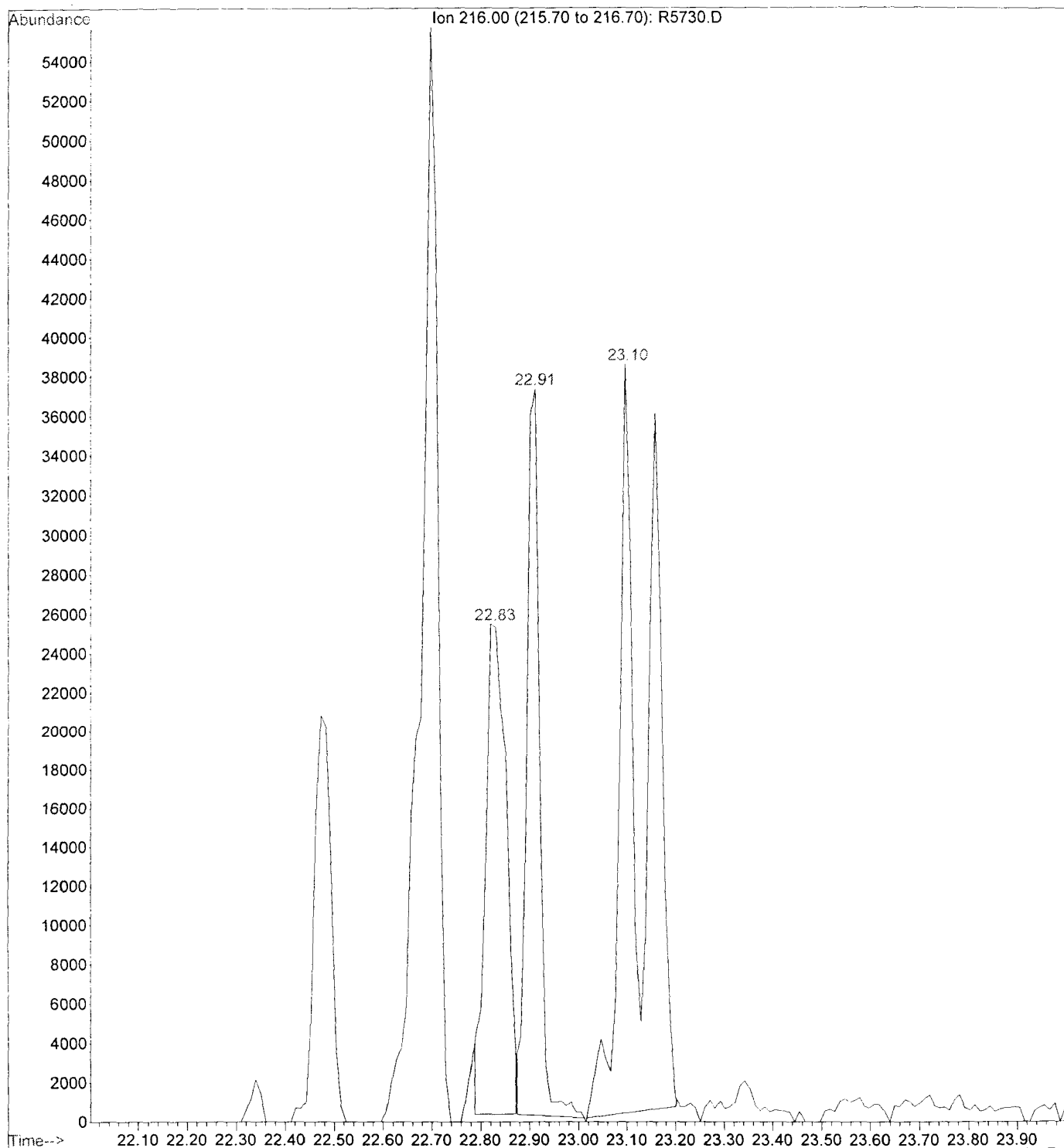




File : D:\HPCHEM\MSR\R5741.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 8:25 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-16  
Misc Info : SD3 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 14

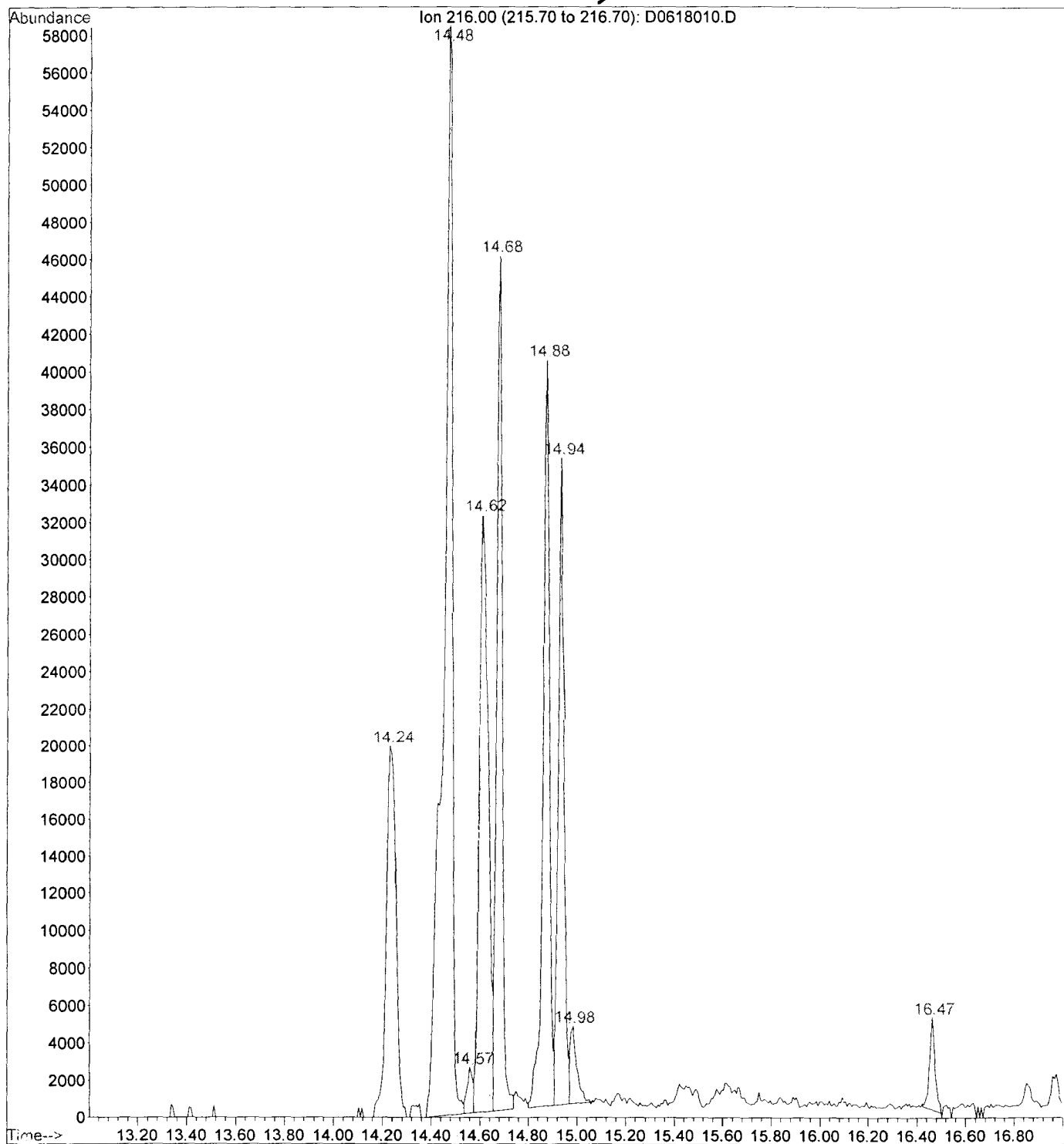


File : D:\HPCHEM\MSR\R5730.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 12:36 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-10  
Misc Info : SD3 (0.2-1.6) ; OLM ; 1; LLS ; SOIL  
Vial Number: 3



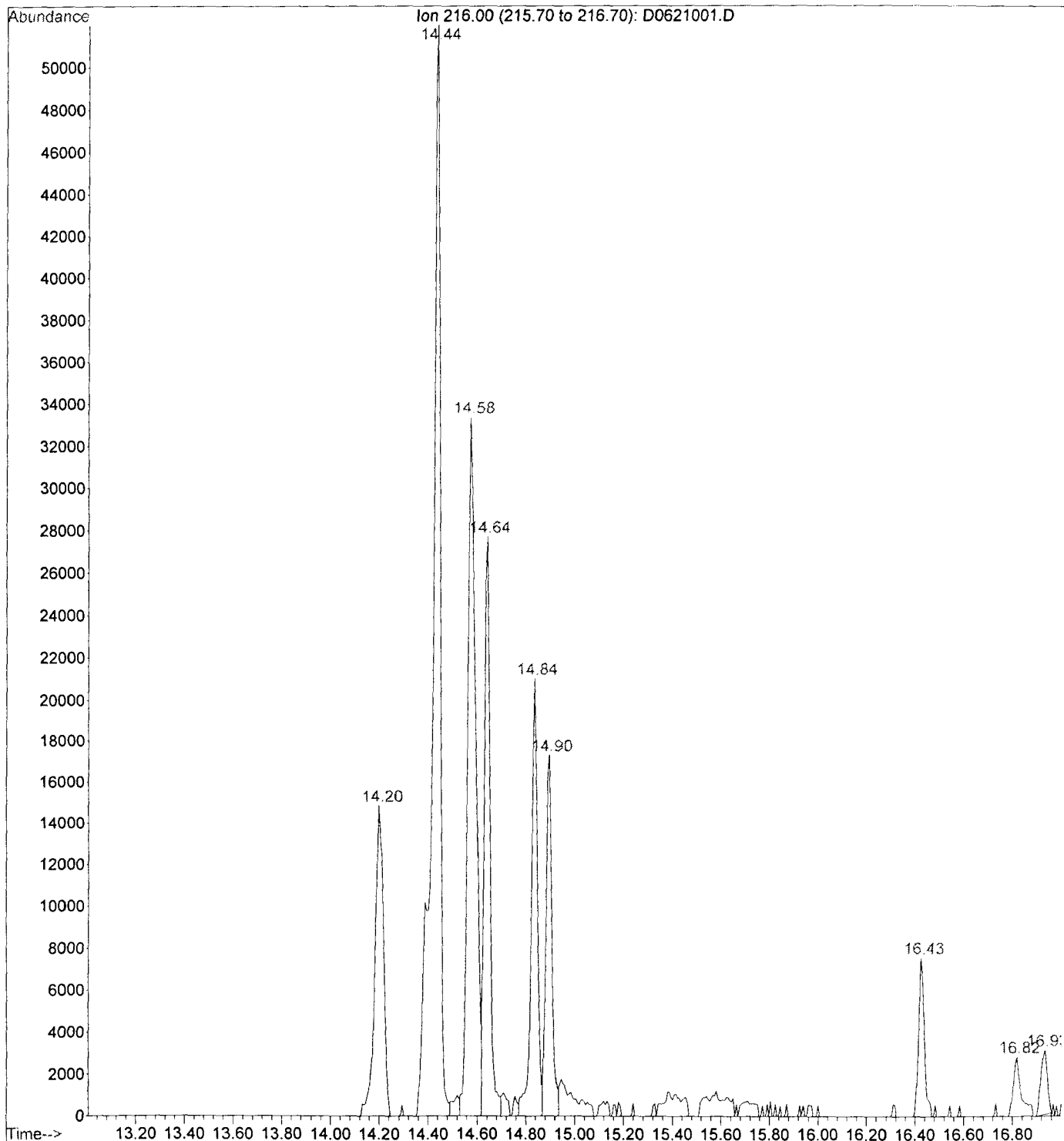
File : D:\NYACK\1NYACK\C1F070211\D0618010.D  
Operator : 001562, DLF  
Acquired : 18 Jun 2001 5:36 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070211-007 soil 6/9/11 clp3.2  
Misc Info : eehtvlad,d061801p.b,clp.m,1-3.1.sub  
Vial Number: 12

SD30(0-2)



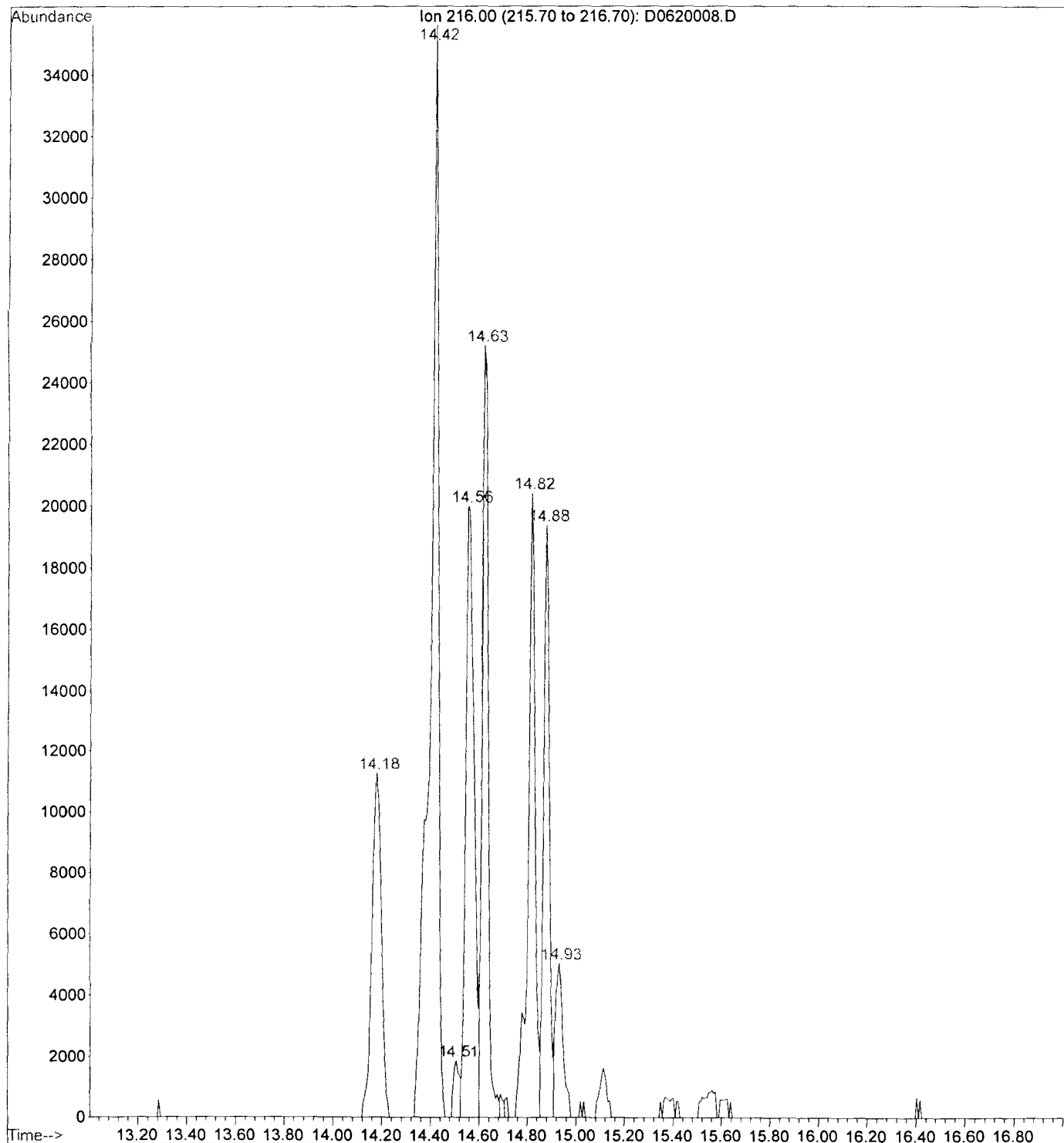
File : D:\NYACK\1NYACK\C1F070229\D0621001.D  
Operator : 001562, DLF  
Acquired : 21 Jun 2001 1:46 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-001 soil 6/11/01 clp3.2  
Misc Info : eeh181ad,d062101p.b,clp.m,1-3.1.sub  
Vial Number: 3

SD 31 (0-2)



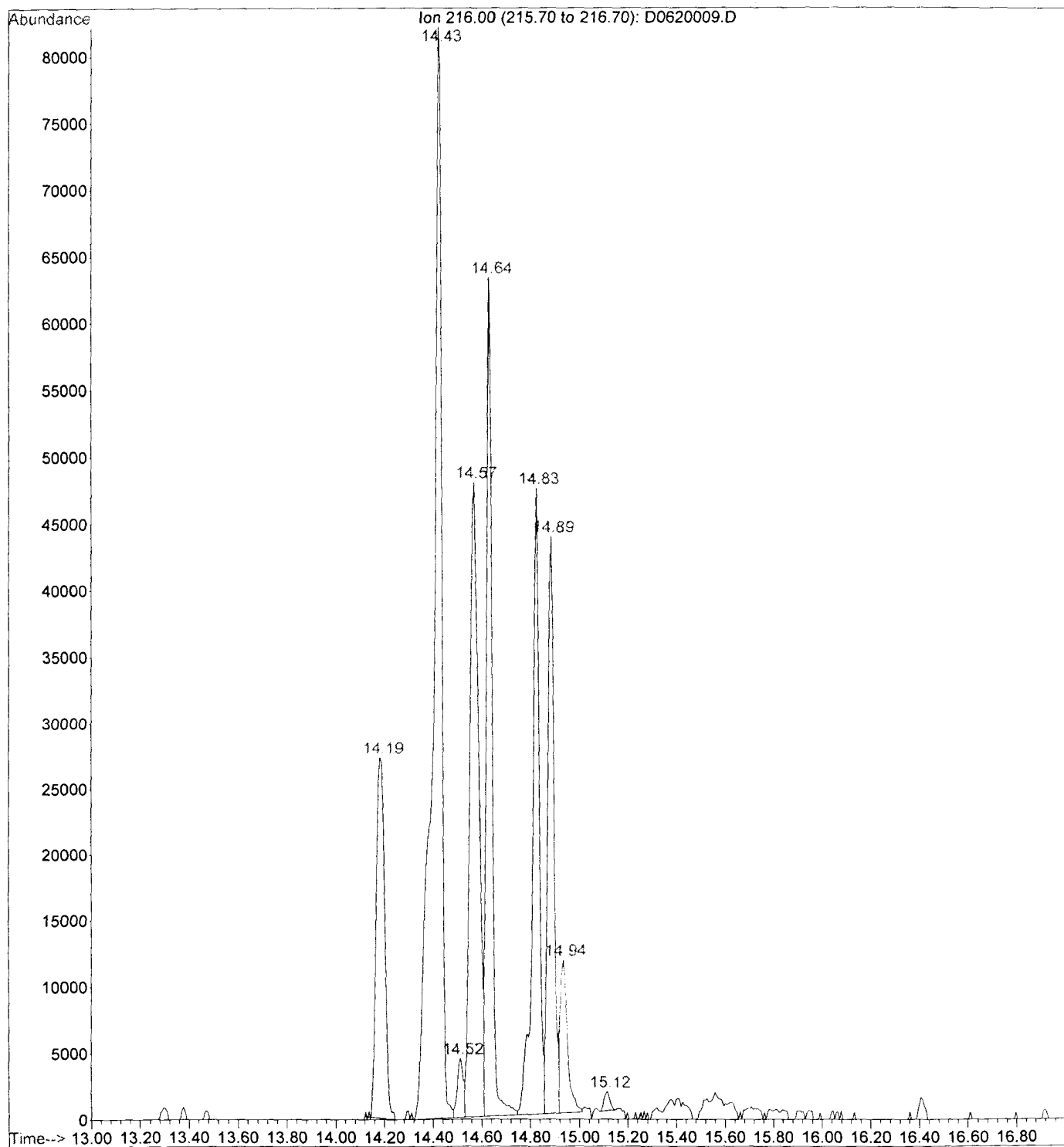
File : D:\NYACK\1NYACK\C1F070229\D0620008.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 4:31 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-002 soil 6/11/01 clp3.2  
Misc Info : eeh2wlad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 10

SD 31 (2.6 - 3.6)



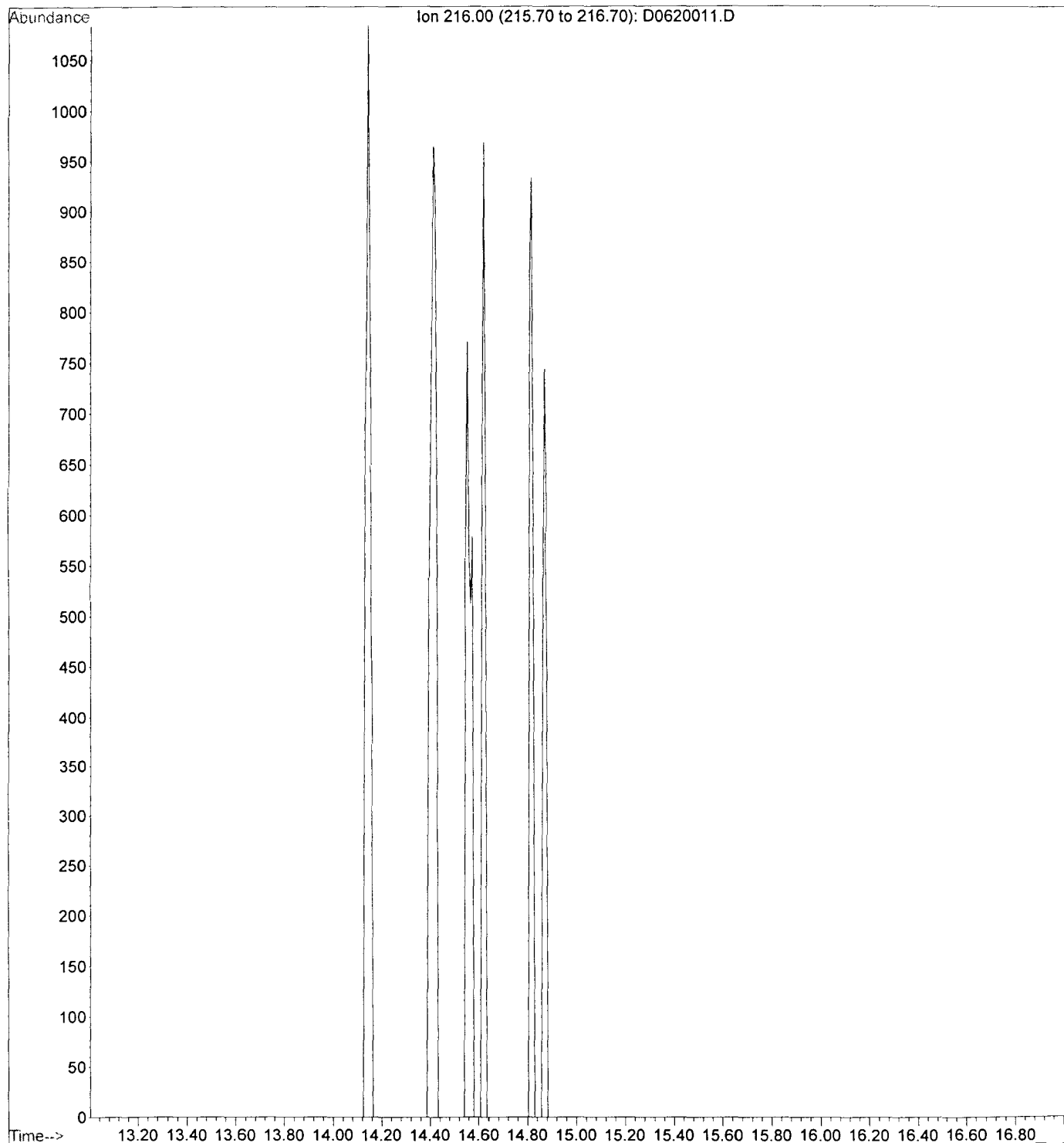
File : D:\NYACK\1NYACK\C1F070229\D0620009.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 5:00 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-003 10x soil 6/11/01 clp3.2  
Misc Info : eeh211ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 11

SD 32(0-2



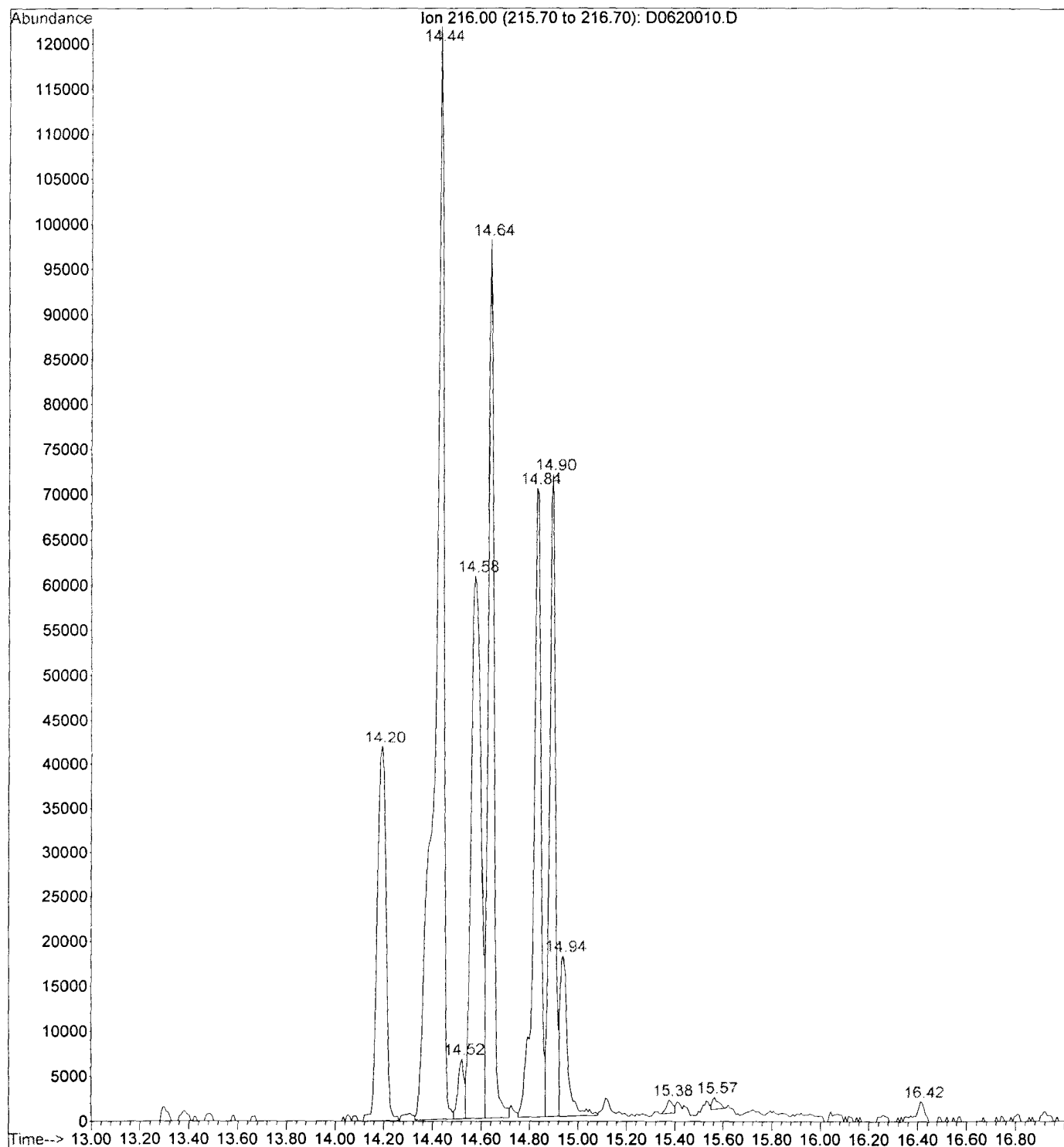
File : D:\NYACK\1NYACK\C1F070229\D0620011.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 5:58 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-005 soil 6/11/01 clp3.2  
Misc Info : eeh3clad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 13

SD32 (3.5-4.2)



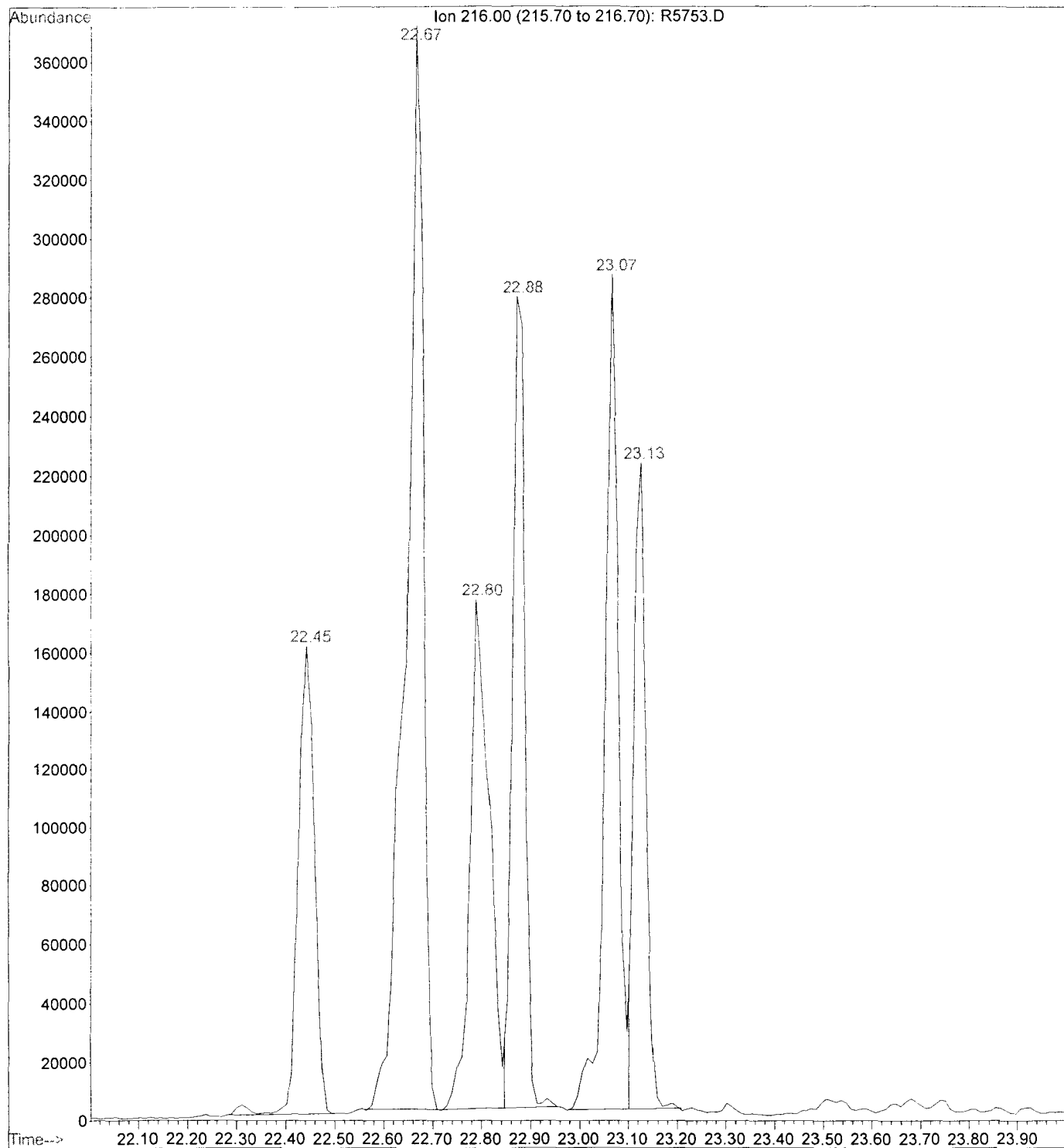
File : D:\NYACK\1NYACK\C1F070229\D0620010.D  
Operator : 001562, DLF  
Acquired : 20 Jun 2001 5:29 pm using AcqMethod CLP  
Instrument : GC/MS Ins  
Sample Name: C1F070229-004 10x soil 6/11/01 clp3.2  
Misc Info : eeh271ad,d062001p.b,clp.m,1-3.1.sub  
Vial Number: 12

SD 320 (0-2)

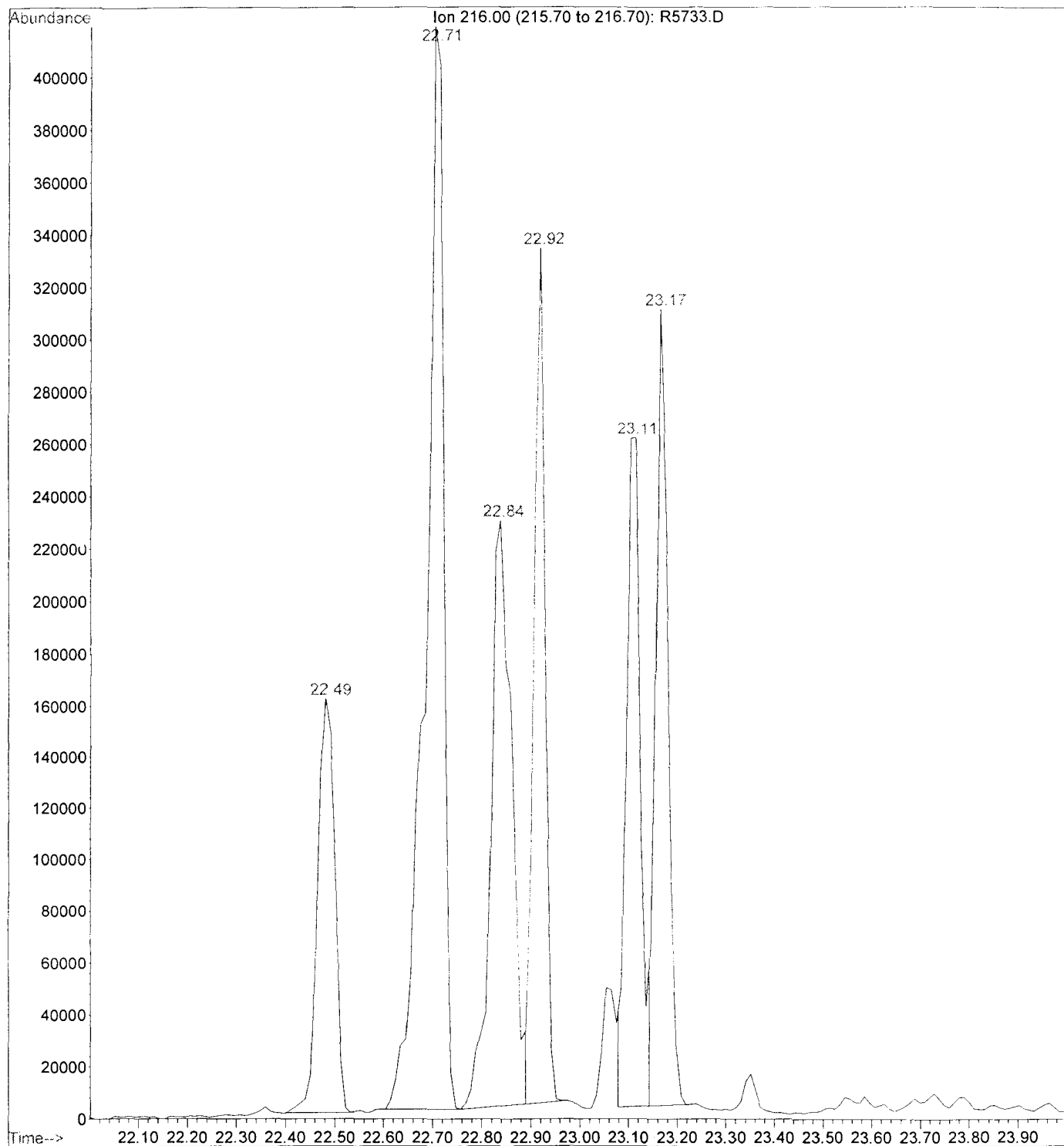




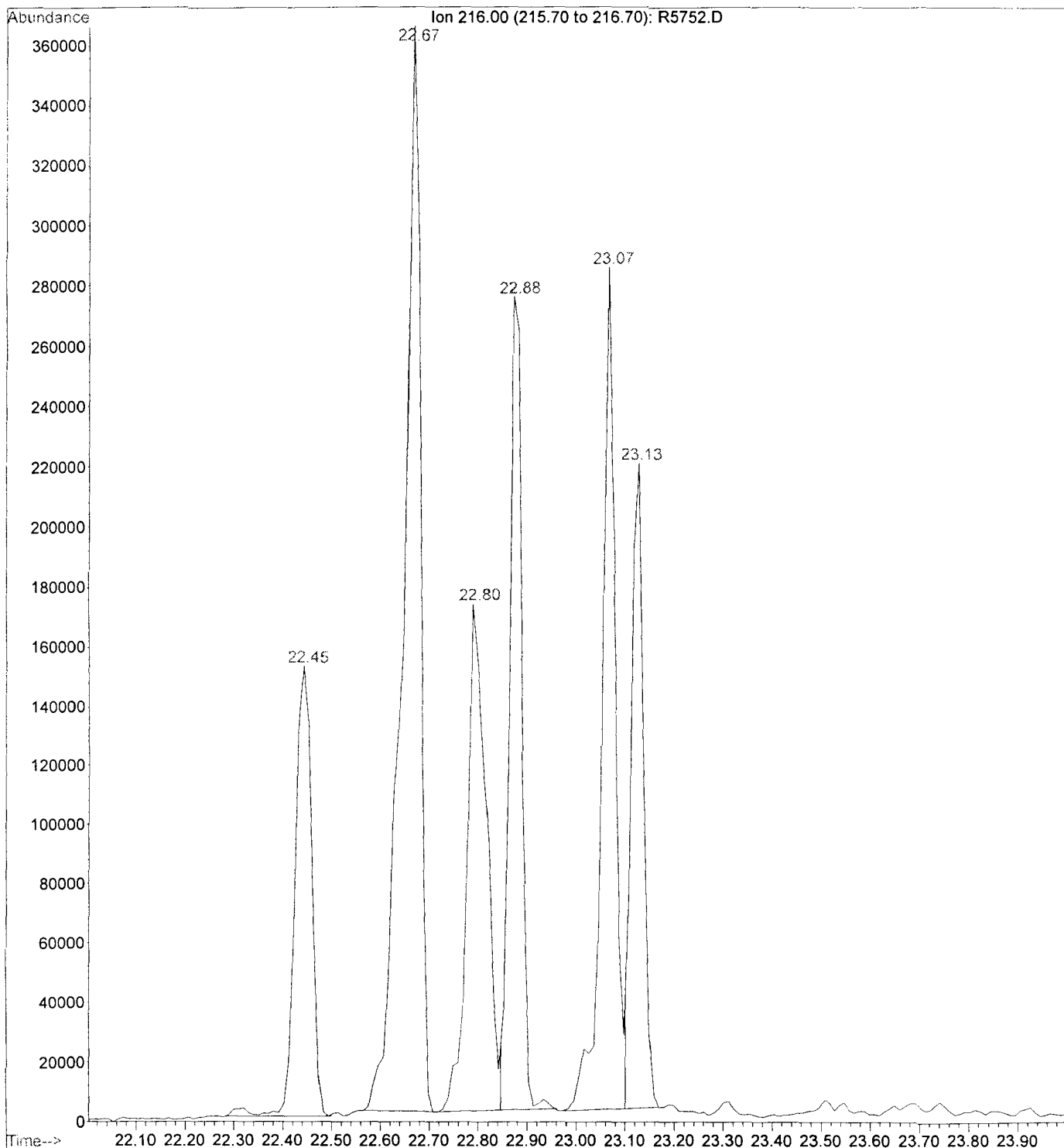
File : D:\HPCHEM\MSR\R5753.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 4:50 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-17  
Misc Info : SD4 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 8



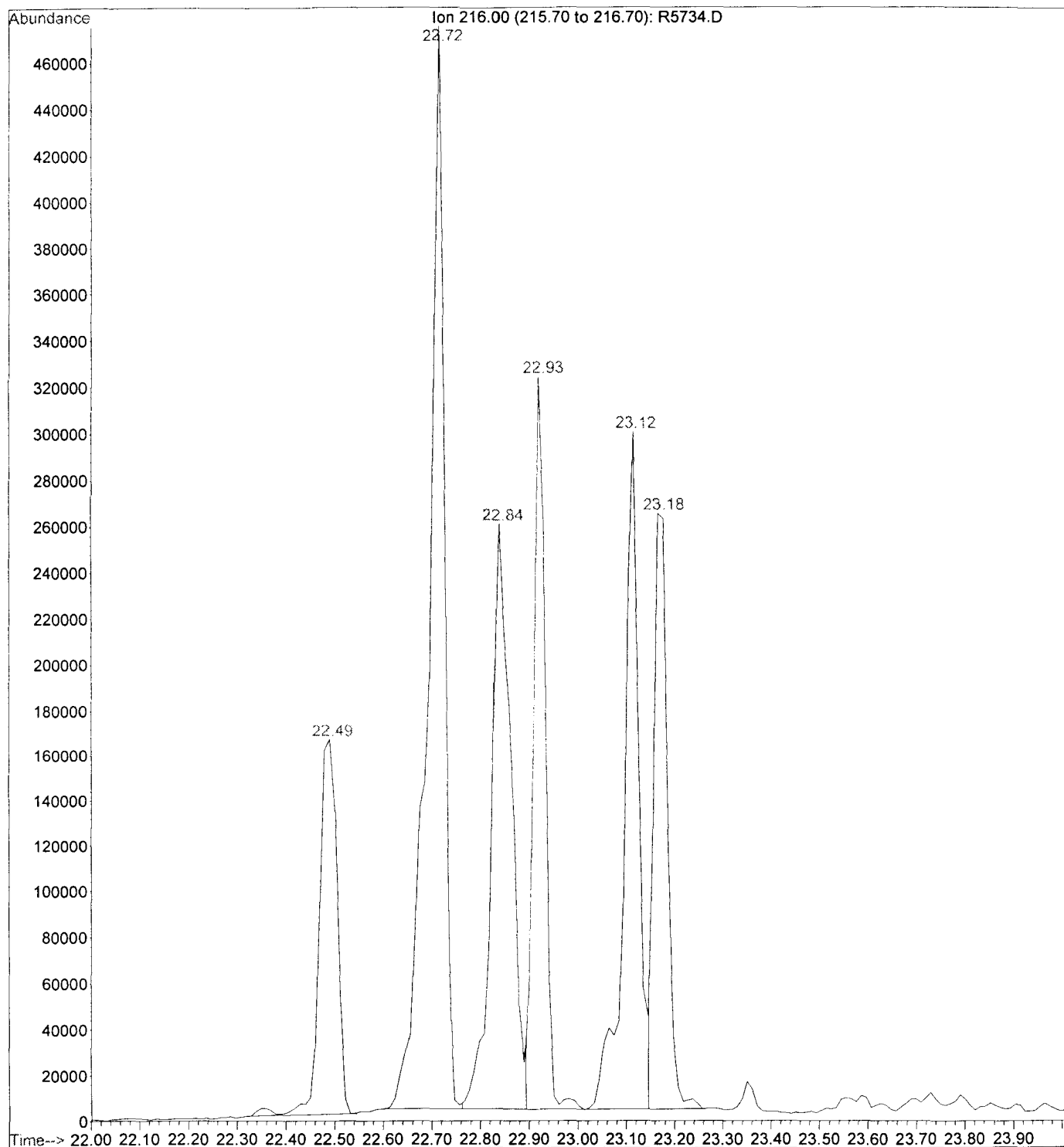
File : D:\HPCHEM\MSR\R5733.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 2:39 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-11  
Misc Info : SD4 (0.4-1.4) ; OLM ; 10 ; LLS ; SOIL  
Vial Number: 6



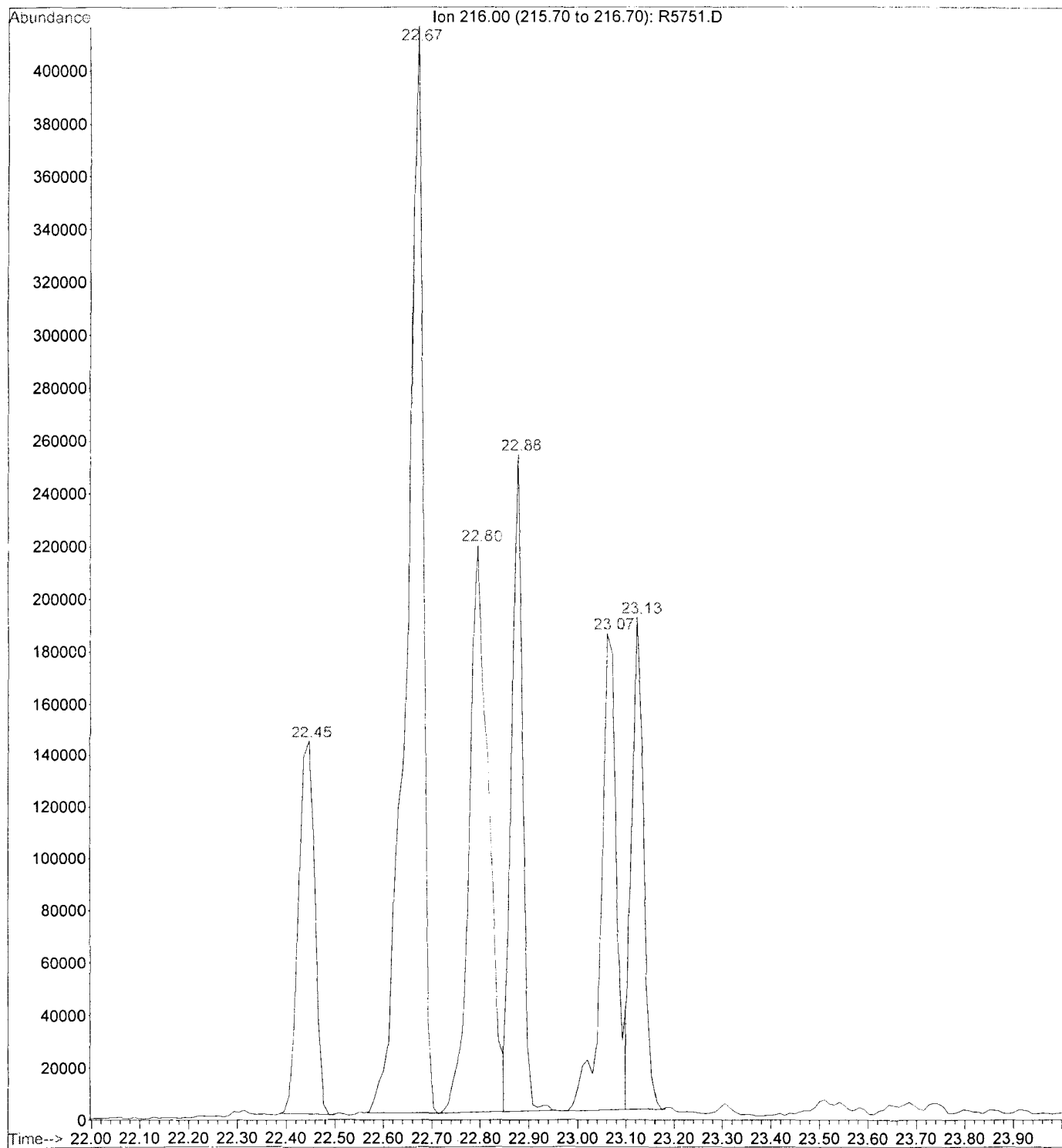
File : D:\HPCHEM\MSR\R5752.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 4:08 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-18  
Misc Info : SD6 (0.0-0.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 7555



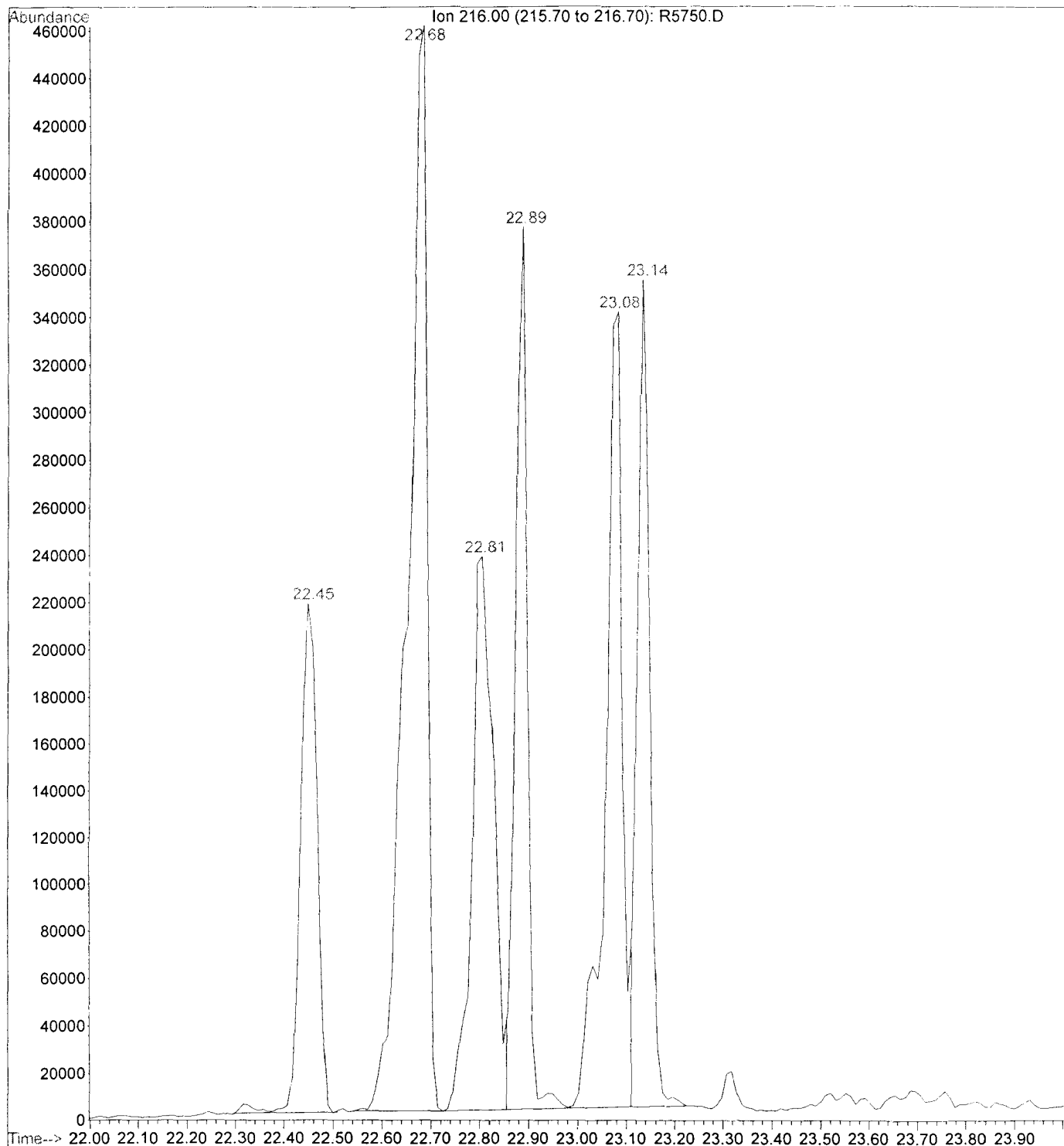
File : D:\HPCHEM\MSR\R5734.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 3:21 pm using AcqMethod MSRSOCONT  
Instrument : HP5971:R  
Sample Name: 993309A-14  
Misc Info : SD5 (0.5-1.3) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 7



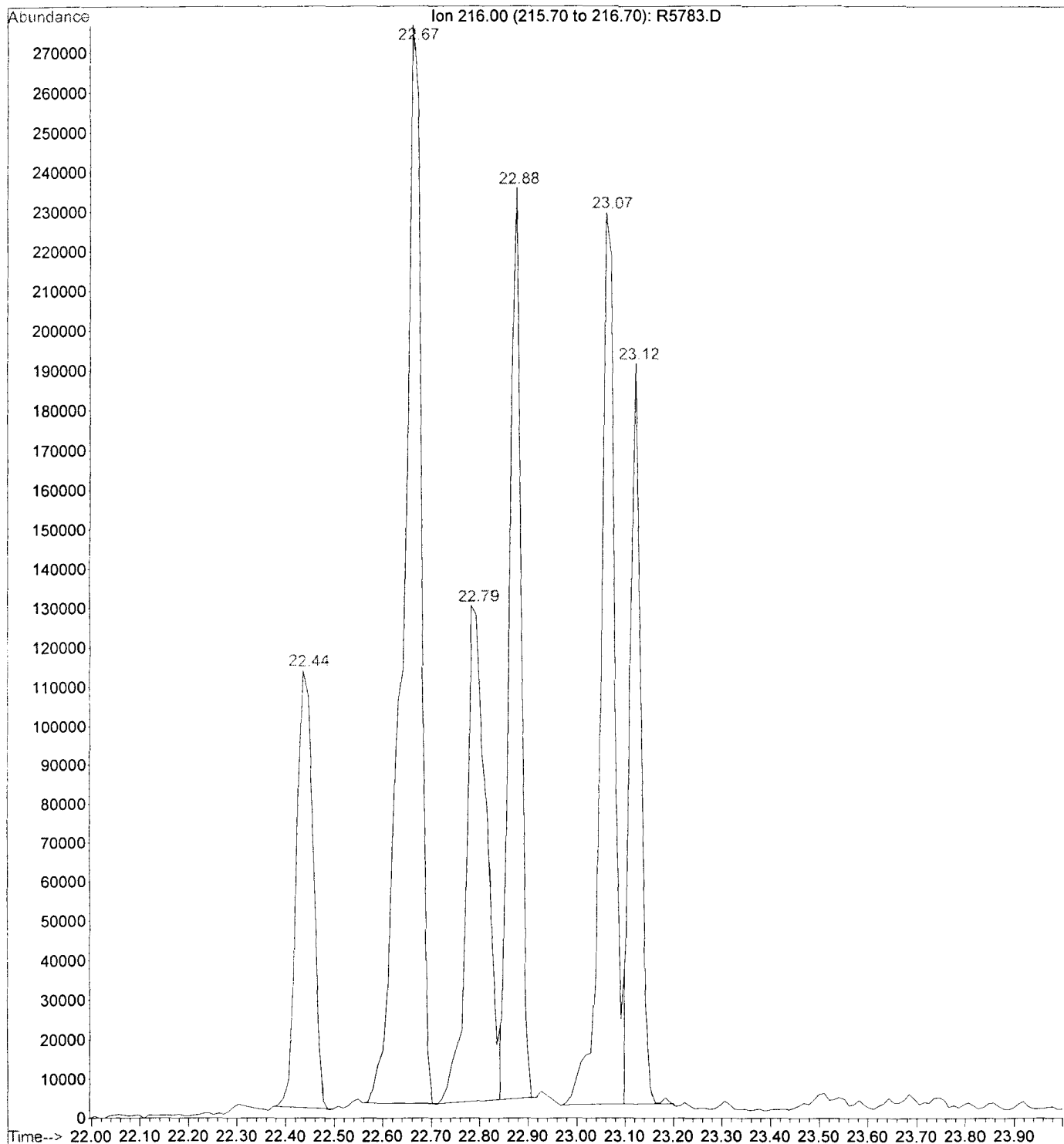
File : D:\HPCHEM\MSR\R5751.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 3:26 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-12  
Misc Info : SD6 (0.0-0.2); OLM ; 2 ; LLS ; SOIL  
Vial Number: 6



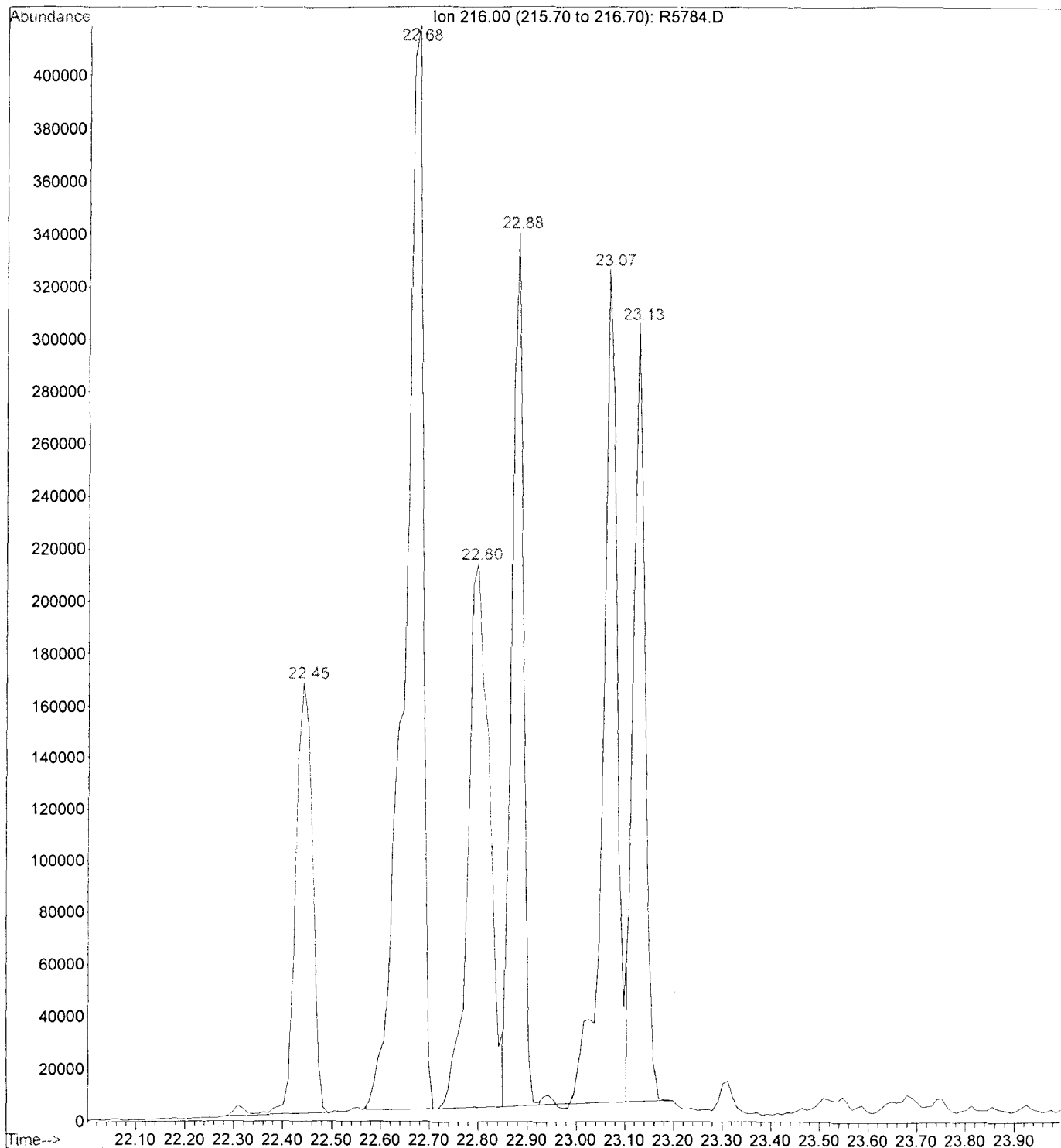
File : D:\HPCHEM\MSR\R5750.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 2:44 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: ~~993309A-13~~  
Misc Info : SD6 (2.1-2.3) ; OLM ; 5 ; LLS ; SOIL  
Vial Number: 5



File : D:\HPCHEM\MSR\R5783.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 4:52 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993337A-01  
Misc Info : SD7 (0.0-0.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 9

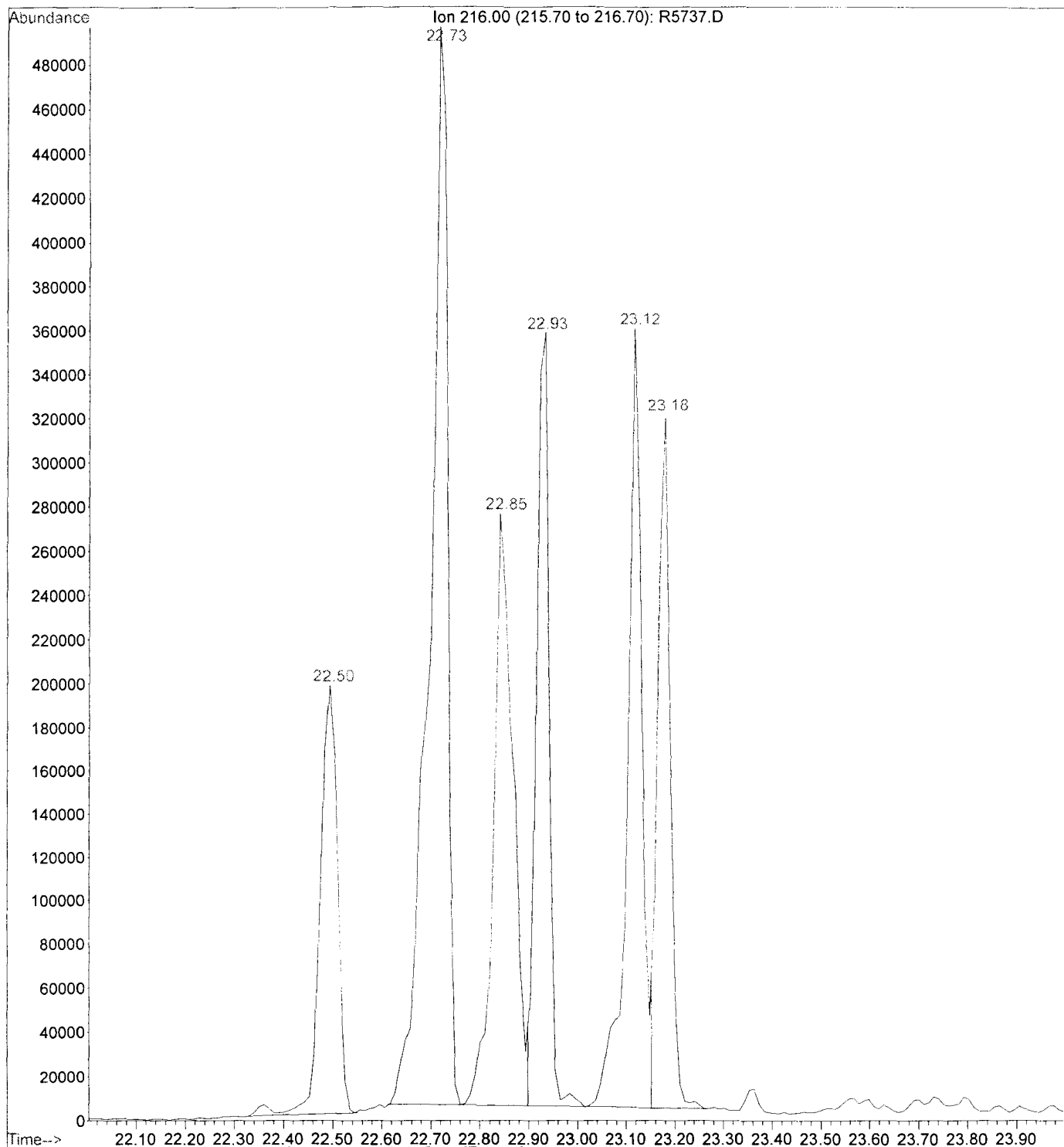


File : D:\HPCHEM\MSR\R5784.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 5:34 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-02  
Misc Info : SD7 (0.2-2.2) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 10

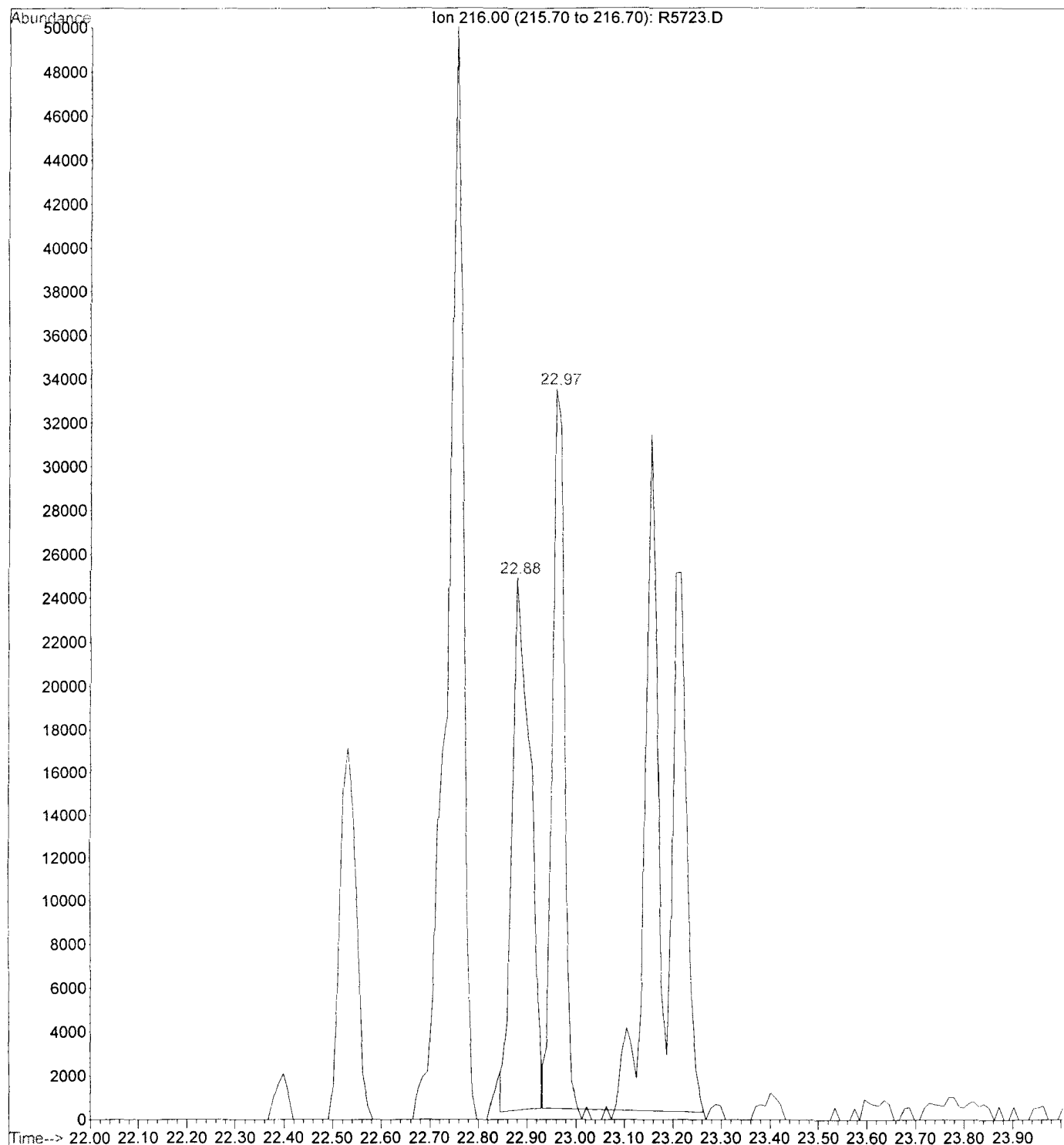




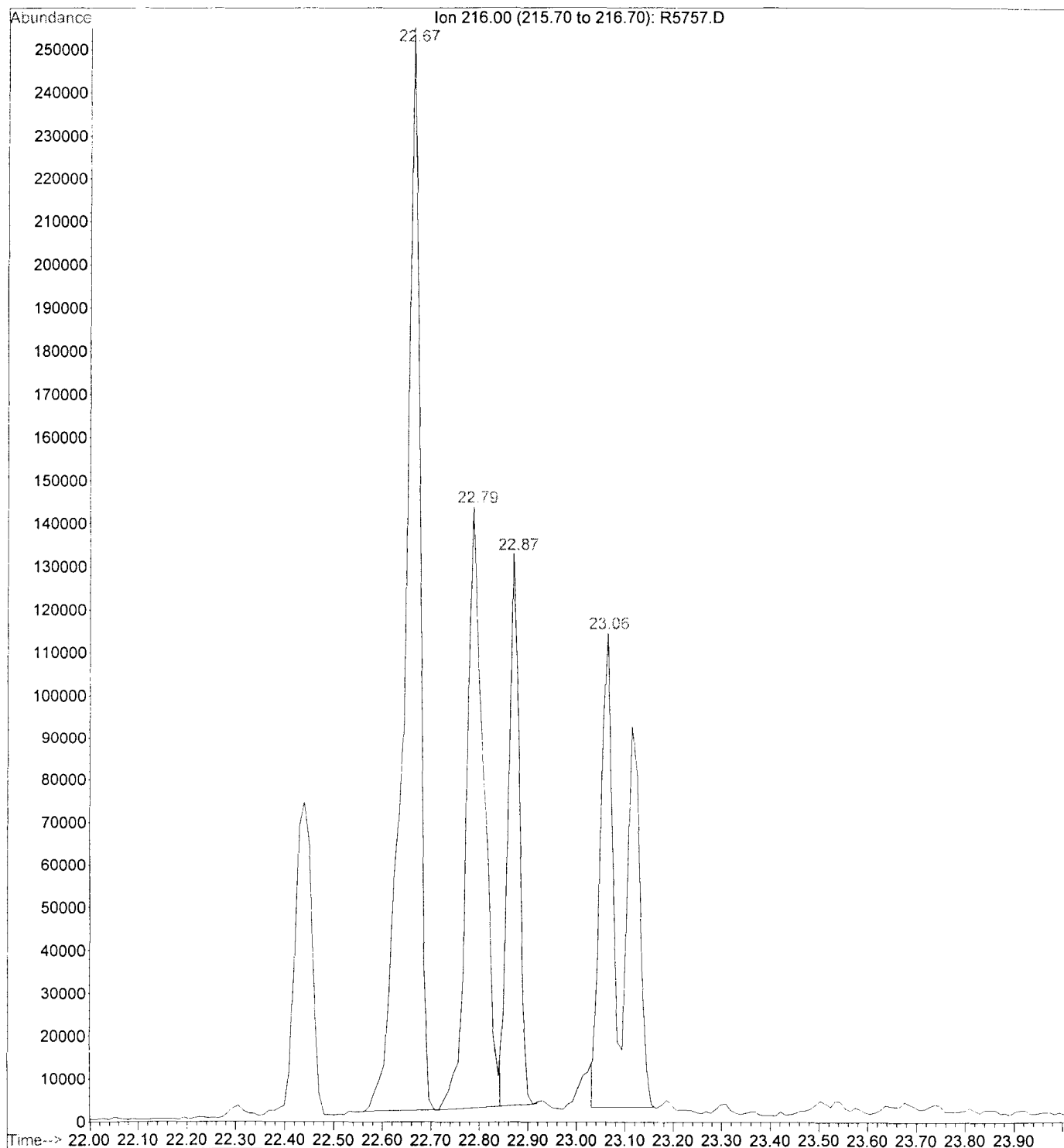
File : D:\HPCHEM\MSR\R5737.D  
Operator : C.LOMBARDI  
Acquired : 6 Jan 2000 5:29 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-03  
Misc Info : SD8 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 10



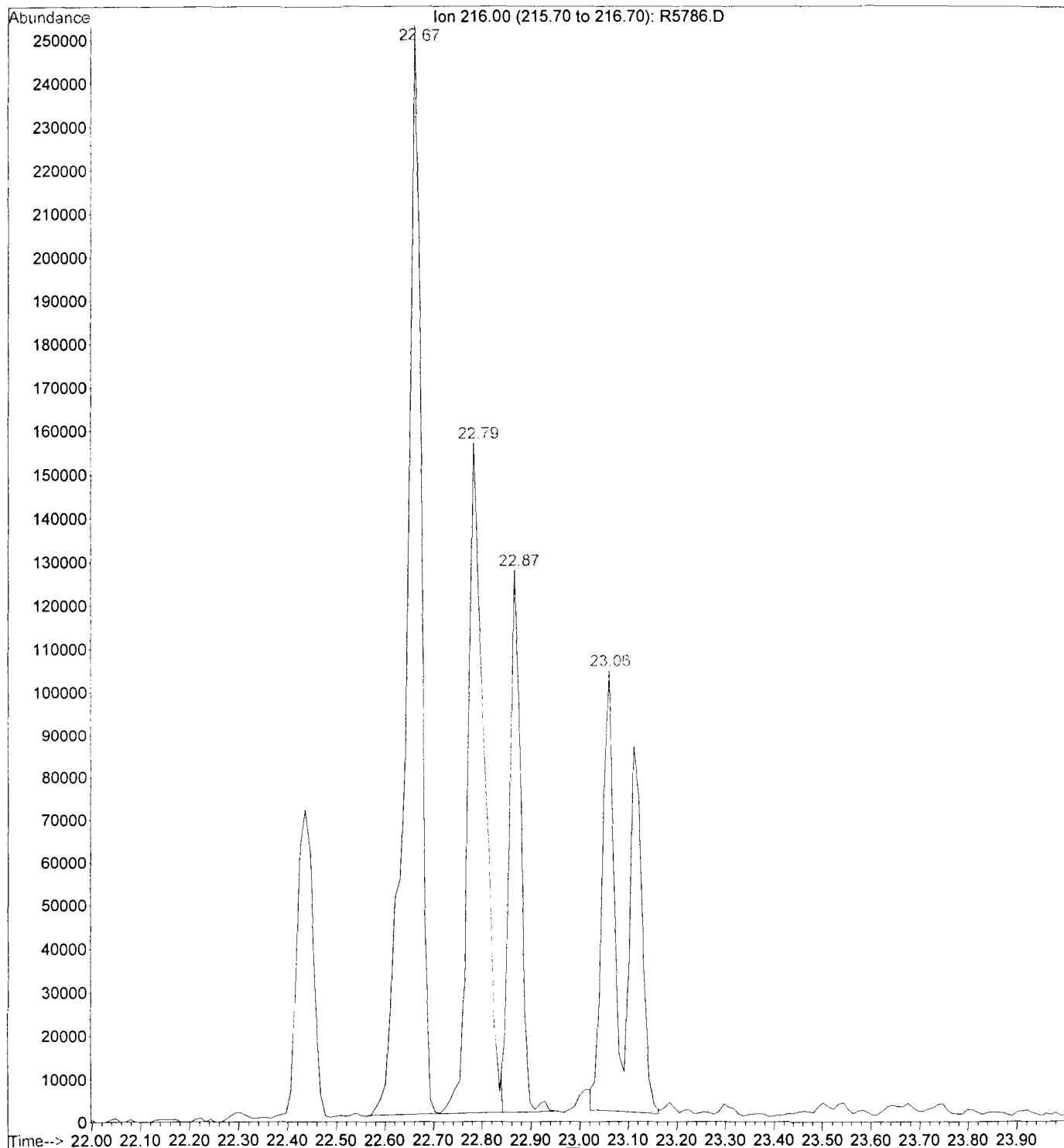
File : D:\HPCHEM\MSR\R5723.D  
Operator : C.LOMBARDI  
Acquired : 5 Jan 2000 9:29 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309A-04  
Misc Info : SD8 (0.5-2.0) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 14



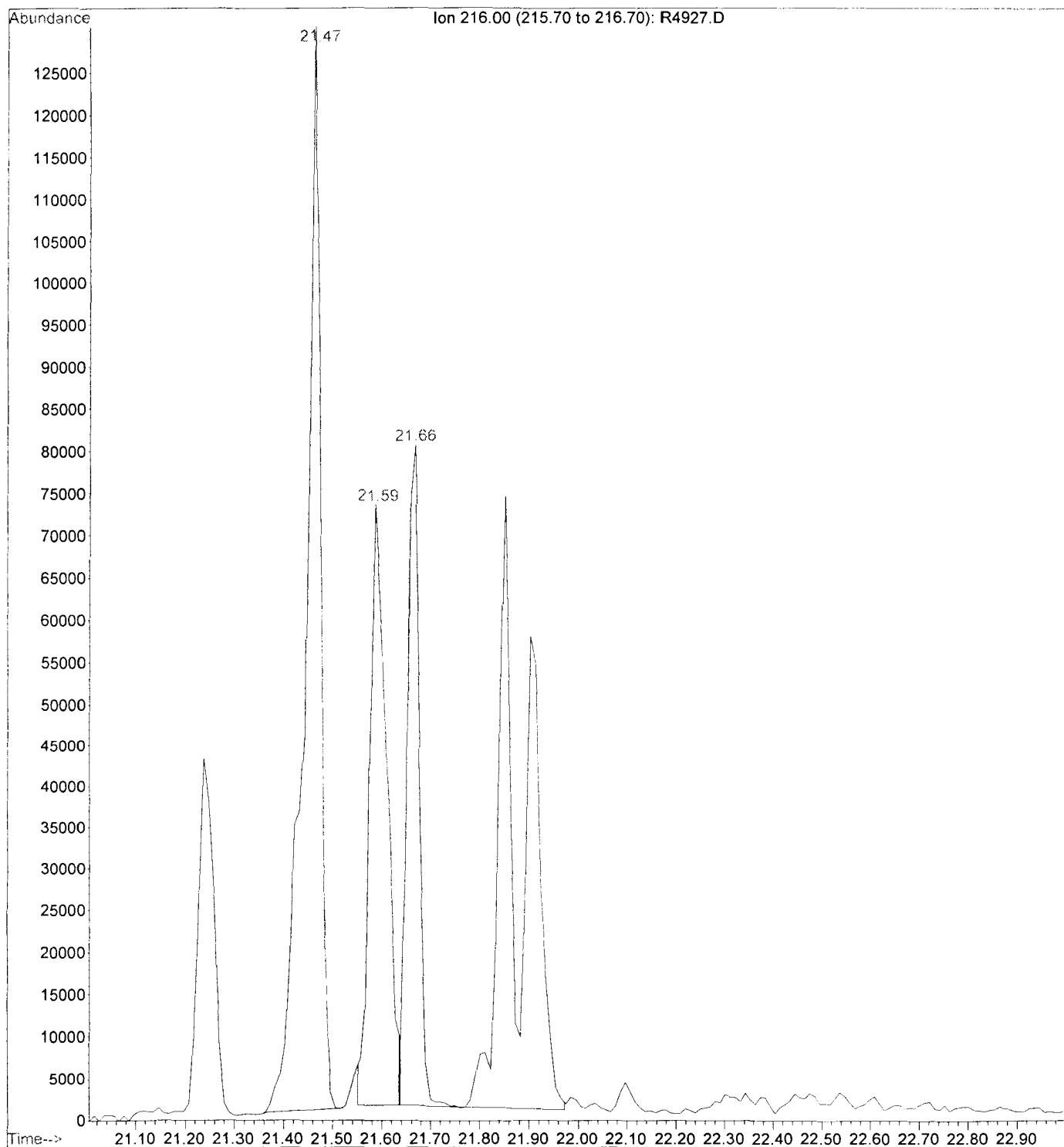
File : D:\HPCHEM\MSR\R5757.D  
Operator : J.Bennett  
Acquired : 7 Jan 2000 7:37 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993337A-02  
Misc Info : SD9 (0.0-0.2) ; OLM ; 1 ; LLS ; SOIL  
Vial Number: 12



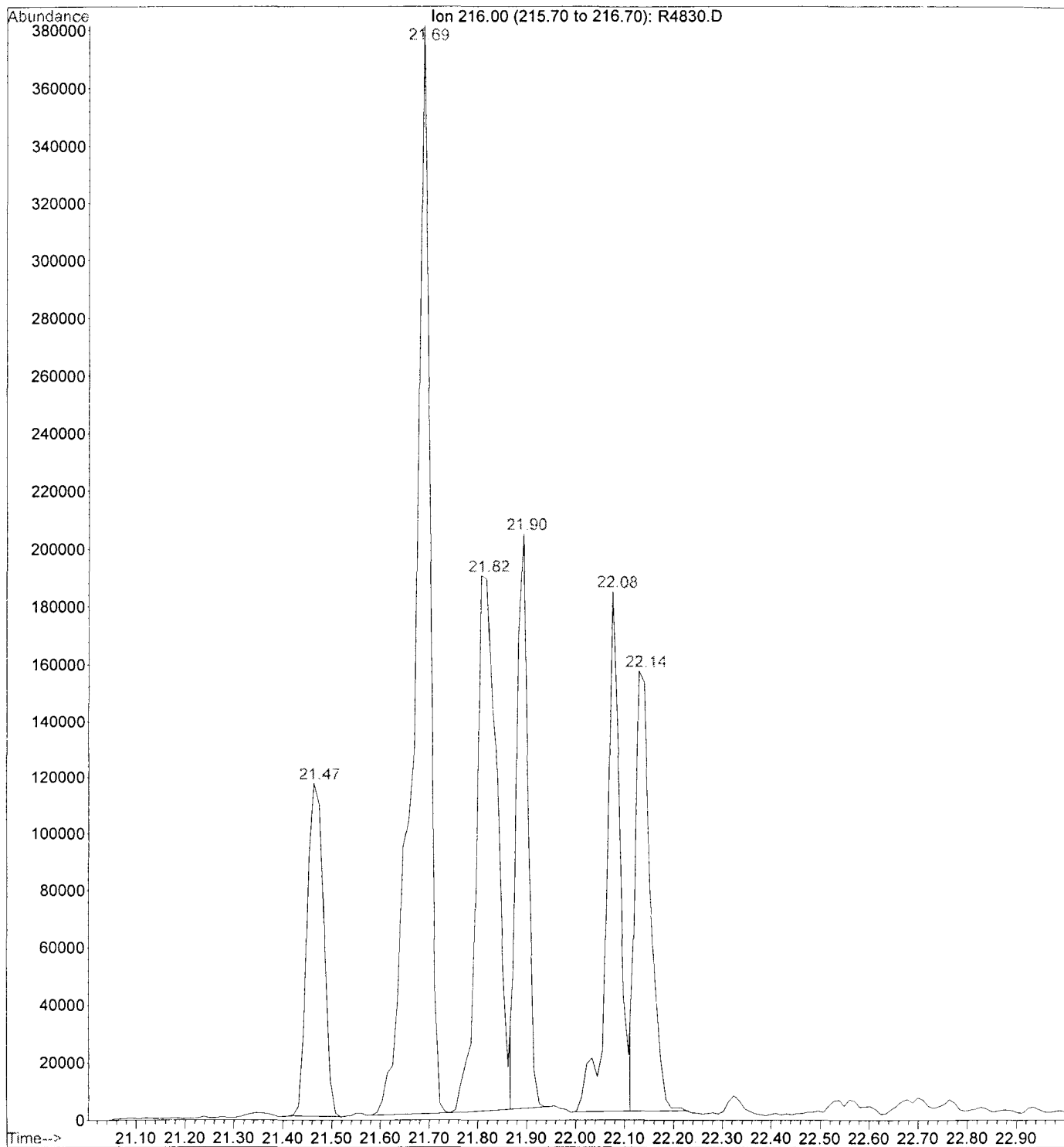
File : D:\HPCHEM\MSR\R5786.D  
Operator : C.LOMBARDI  
Acquired : 10 Jan 2000 6:58 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 993309B-05  
Misc Info : SD9 (0.4-2.4) ; OLM ; 2 ; LLS ; SOIL  
Vial Number: 12



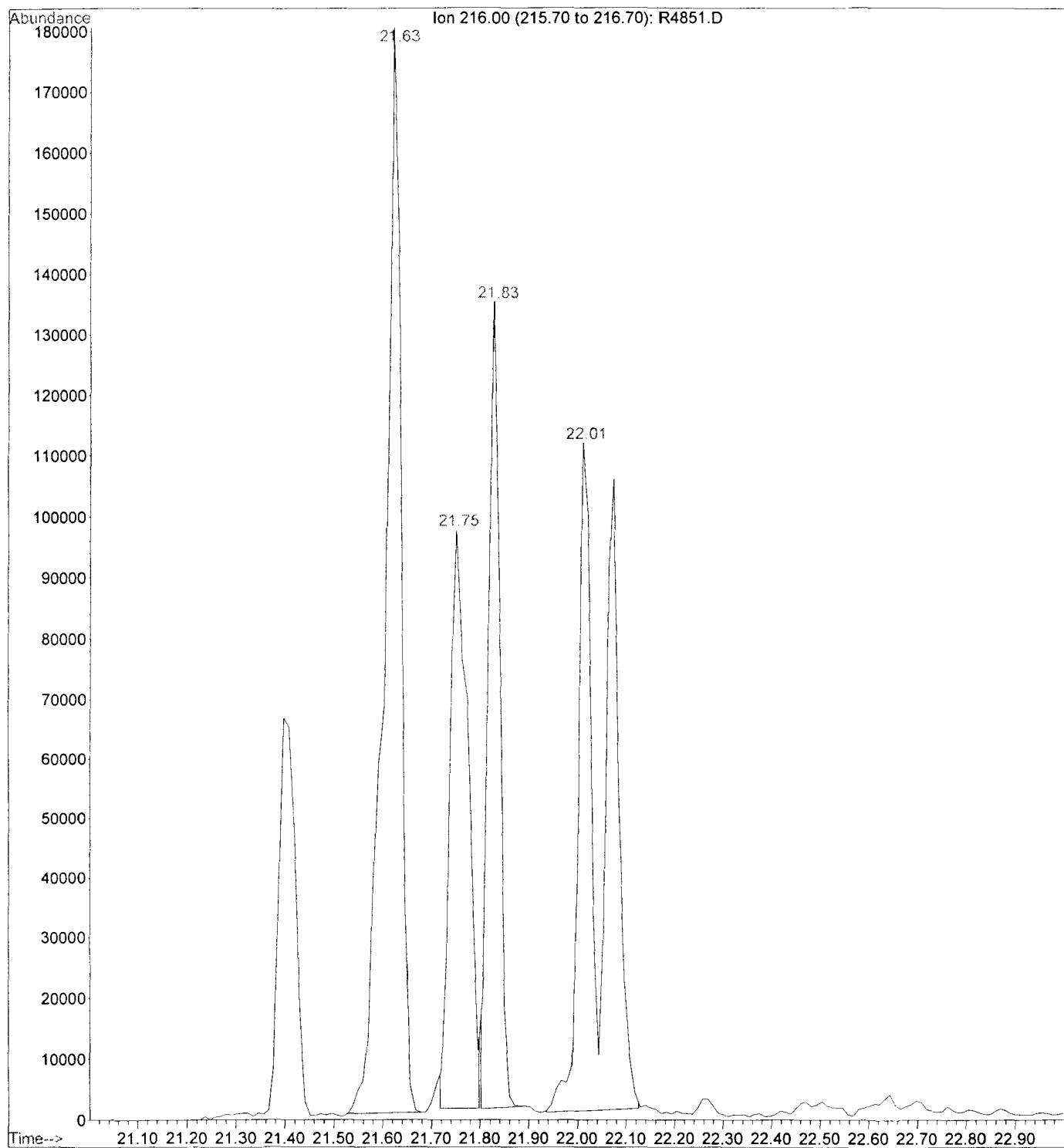
File : D:\HPCHEM\MSR\R4927.D  
Operator : J. Bennett  
Acquired : 3 Nov 1999 9:05 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992477A-01  
Misc Info. : TP1 (8.0-9.0) ; OLM ; 100 ; LLS ; R0340  
Vial Number: 7



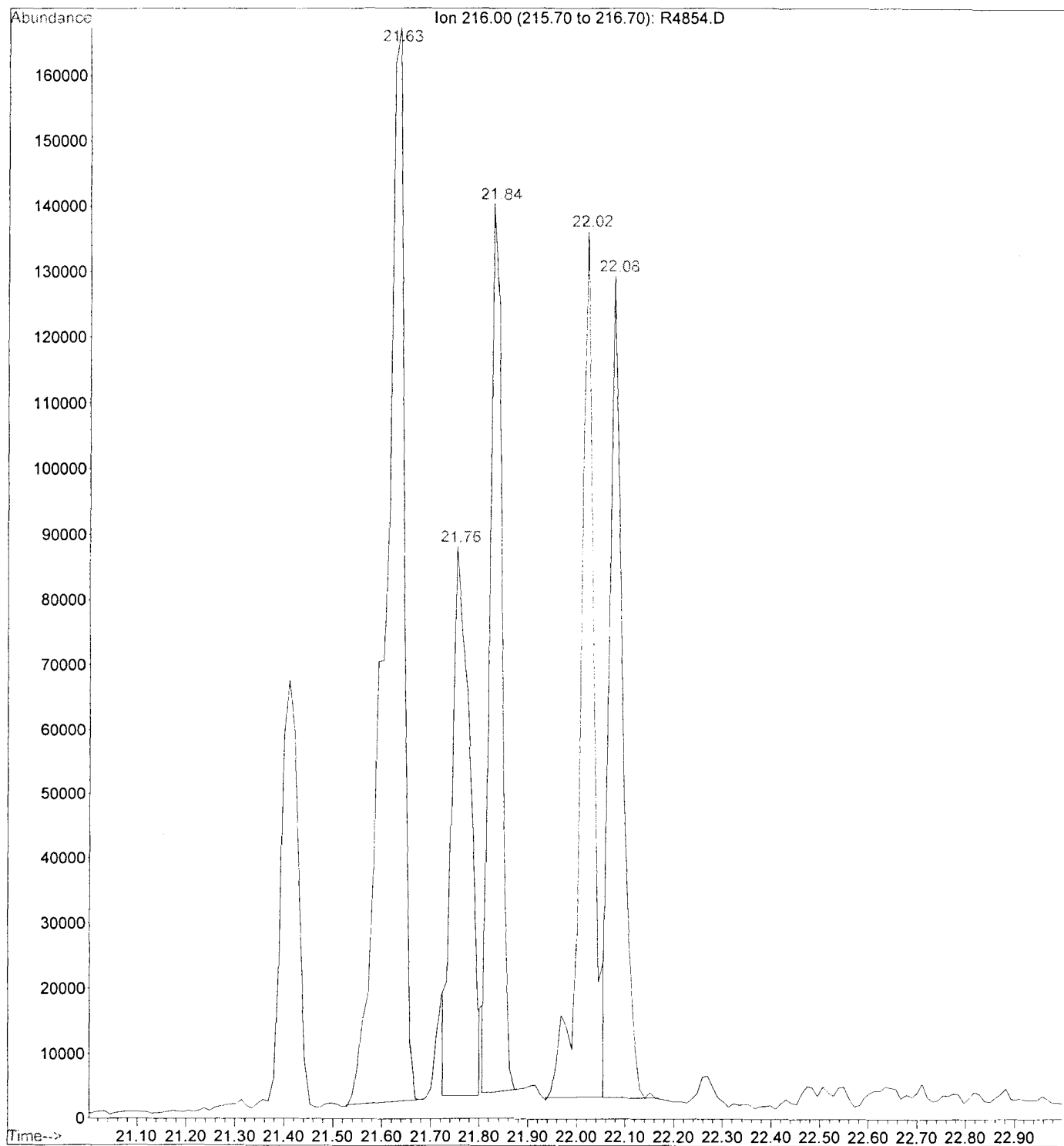
File : D:\HPCHEM\MSR\R4830.D  
Operator : C.LOMBARDI  
Acquired : 28 Oct 1999 1:48 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-03  
Misc Info : TP10 (9.5-10.5) ; OLM ; 50 ; .LLS ; R0334  
Vial Number: 6



File : D:\HPCHEM\MSR\R4851.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 2:01 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-05  
Misc Info : TP13 (8-9) ; OLM ; 50 ; LLS ; R0335  
Vial Number: 6

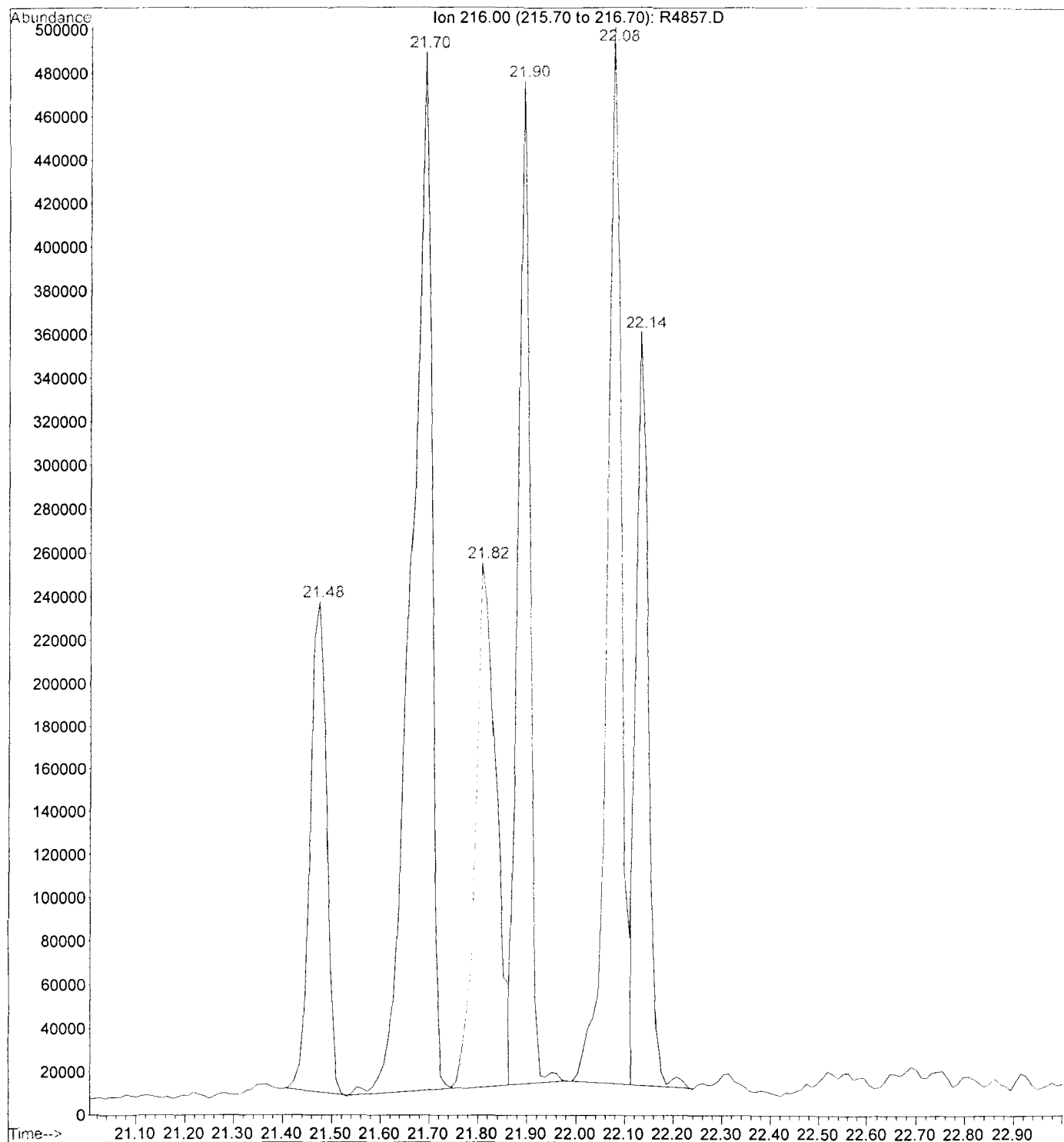


File : D:\HPCHEM\MSR\R4854.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 4:02 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name : 992414A-10  
Misc Info : TP14 (9.0-10.0) ; OLM ; 4 ; LLS ; R0335  
Vial Number: 9

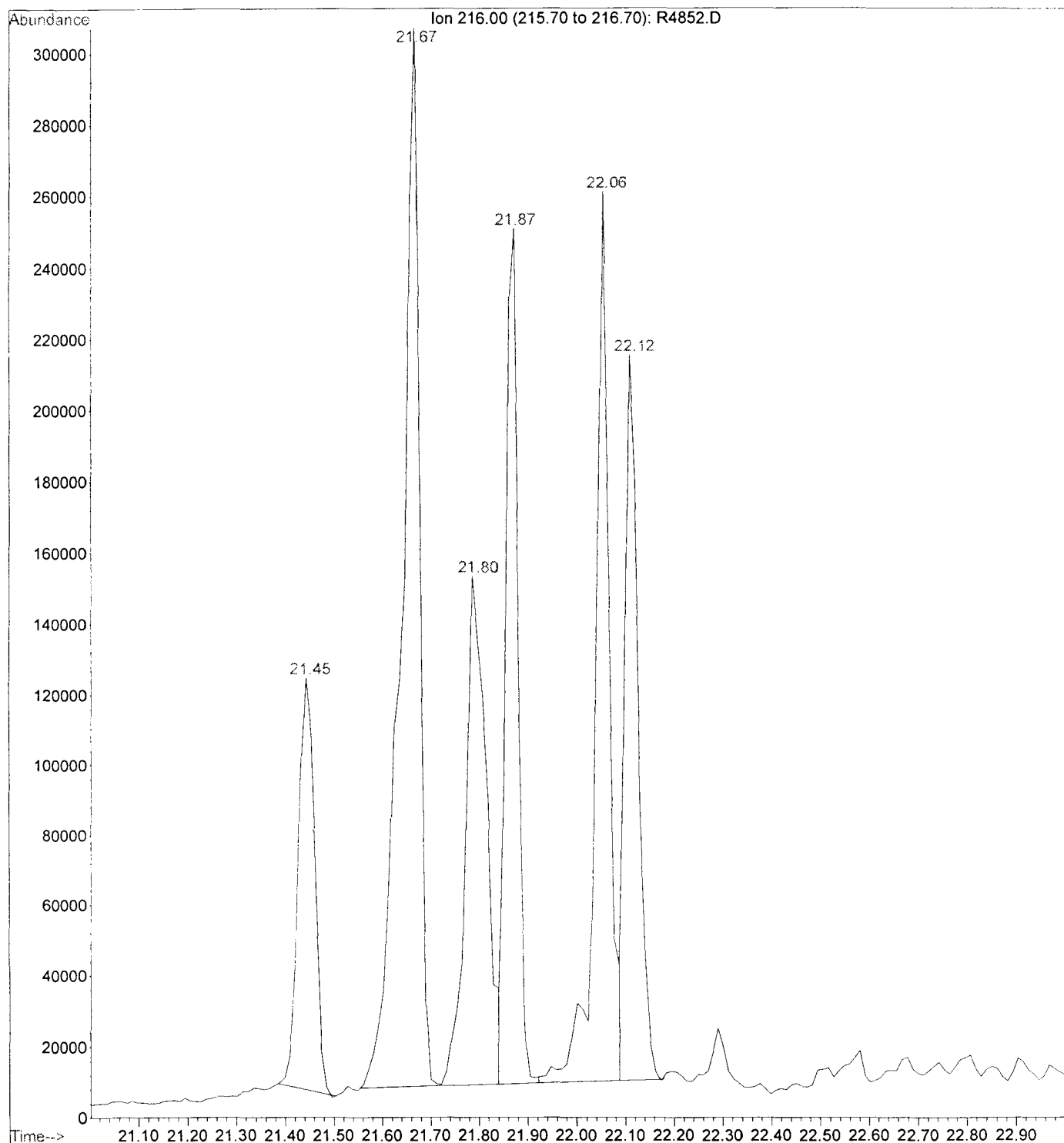




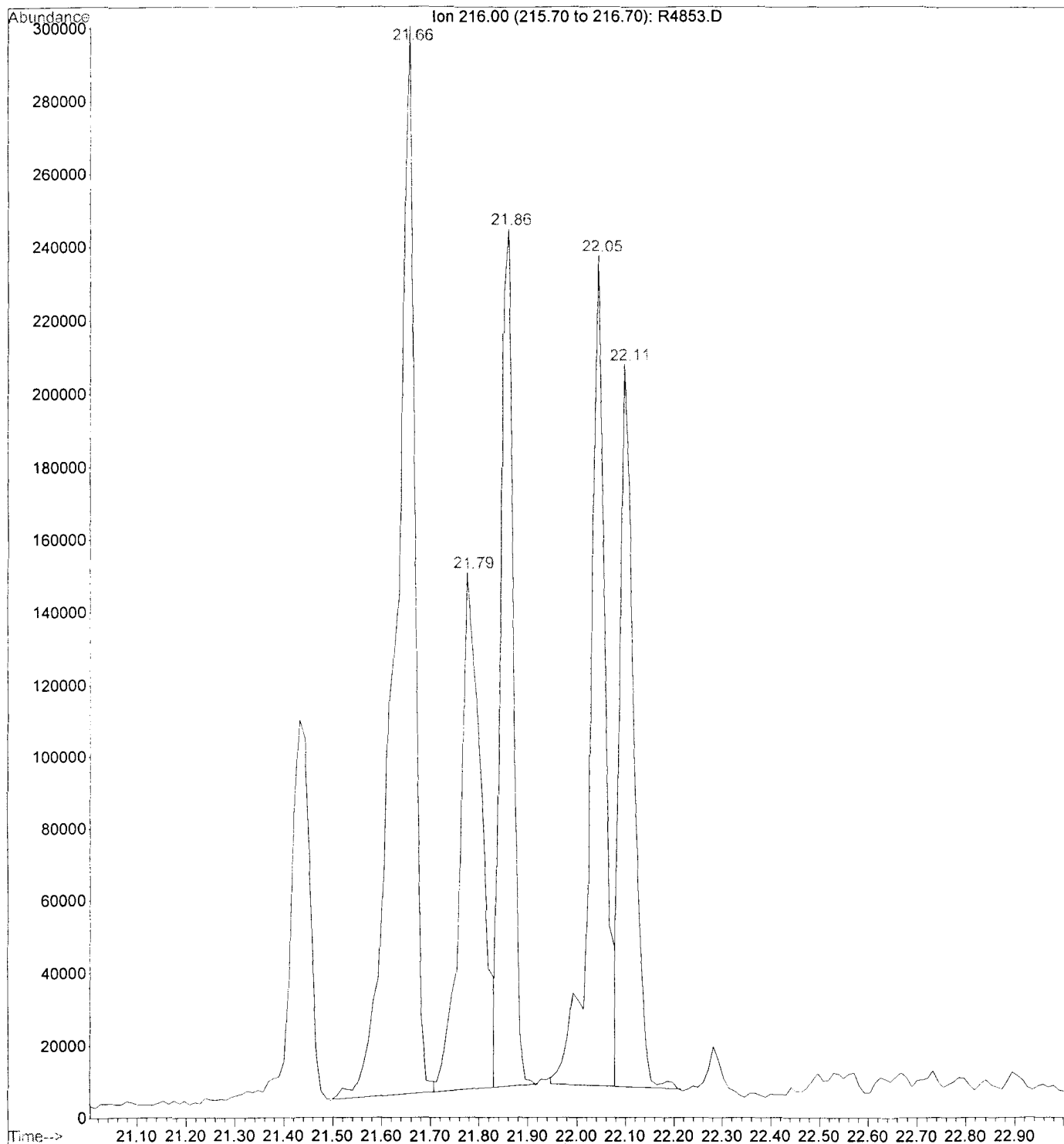
File : D:\HPCHEM\MSR\R4857.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 6:04 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-14  
Misc Info : TP14 HLDR B : OLM ; 5 ; LLS ; R0335  
Vial Number: 12



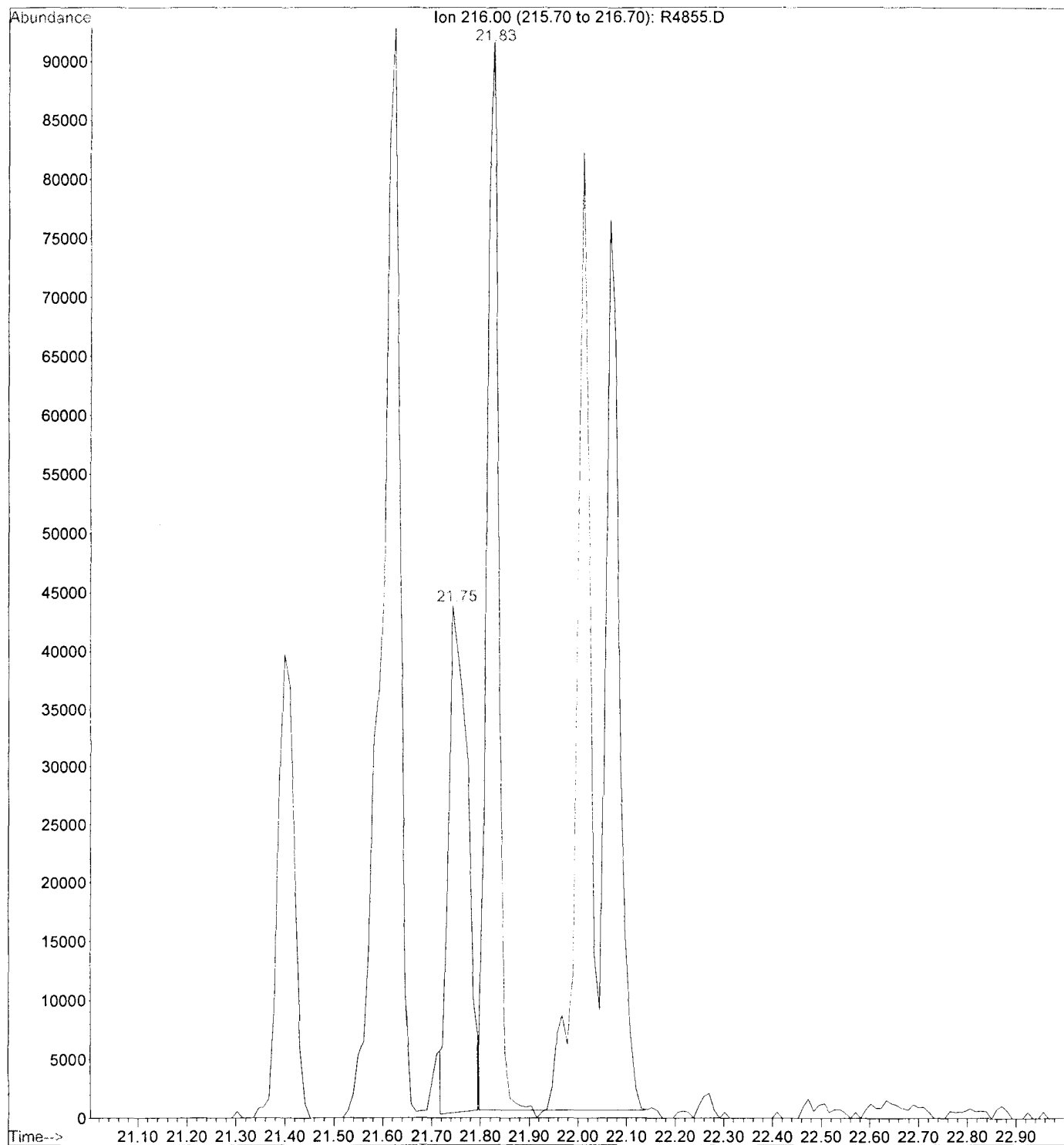
File : D:\HPCHEM\MSR\R4852.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 2:41 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-08  
Misc Info : TP15 (9.0-10.0) ; OLM ; 5 ; LLS ; R0335  
Vial Number: 7



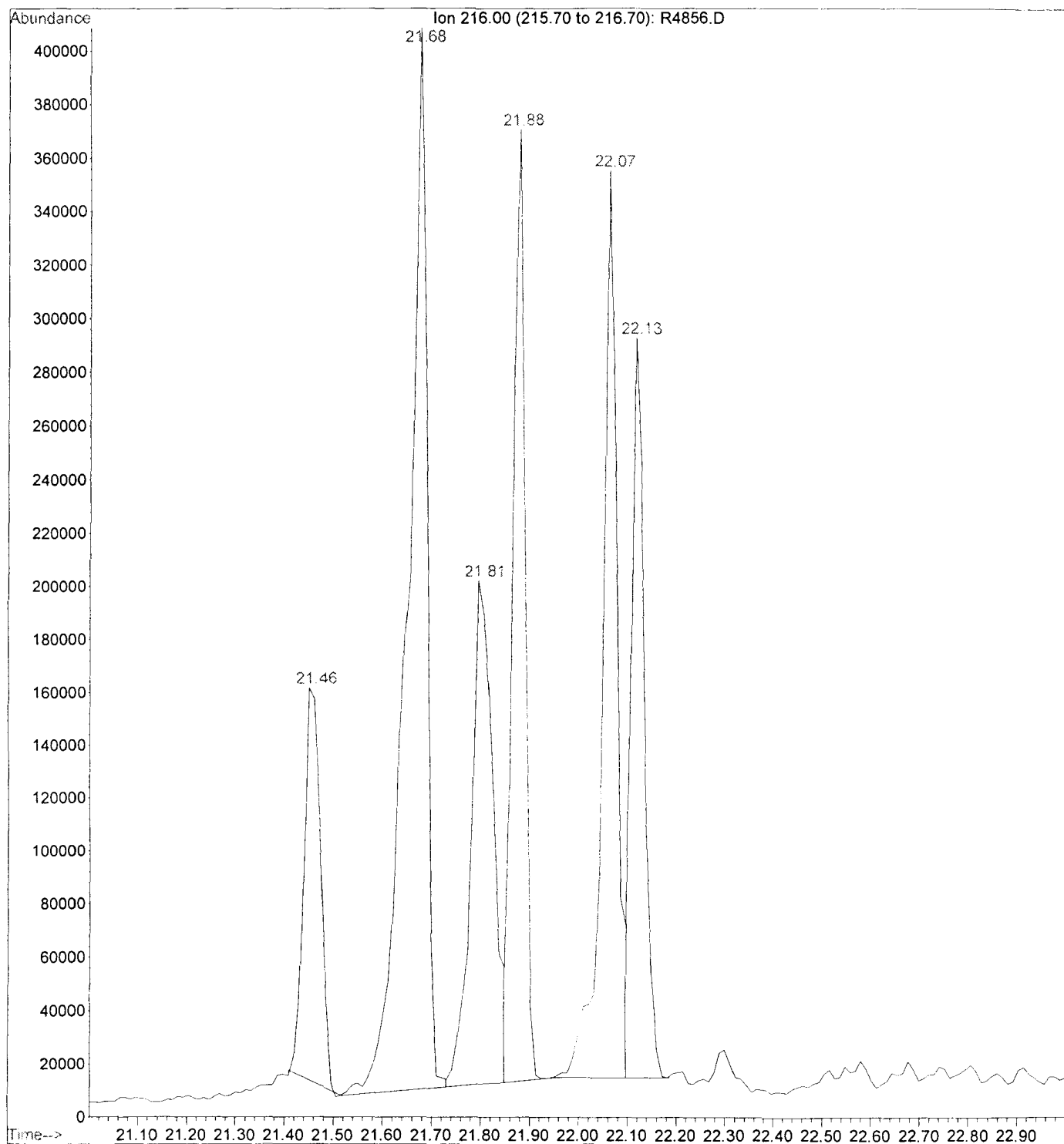
File : D:\HPCHEM\MSR\R4853.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 3:22 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-09  
Misc Info : TP2 (8.0-9.0); OLM ; 10 ; LLS ; R0335  
Vial Number: 8



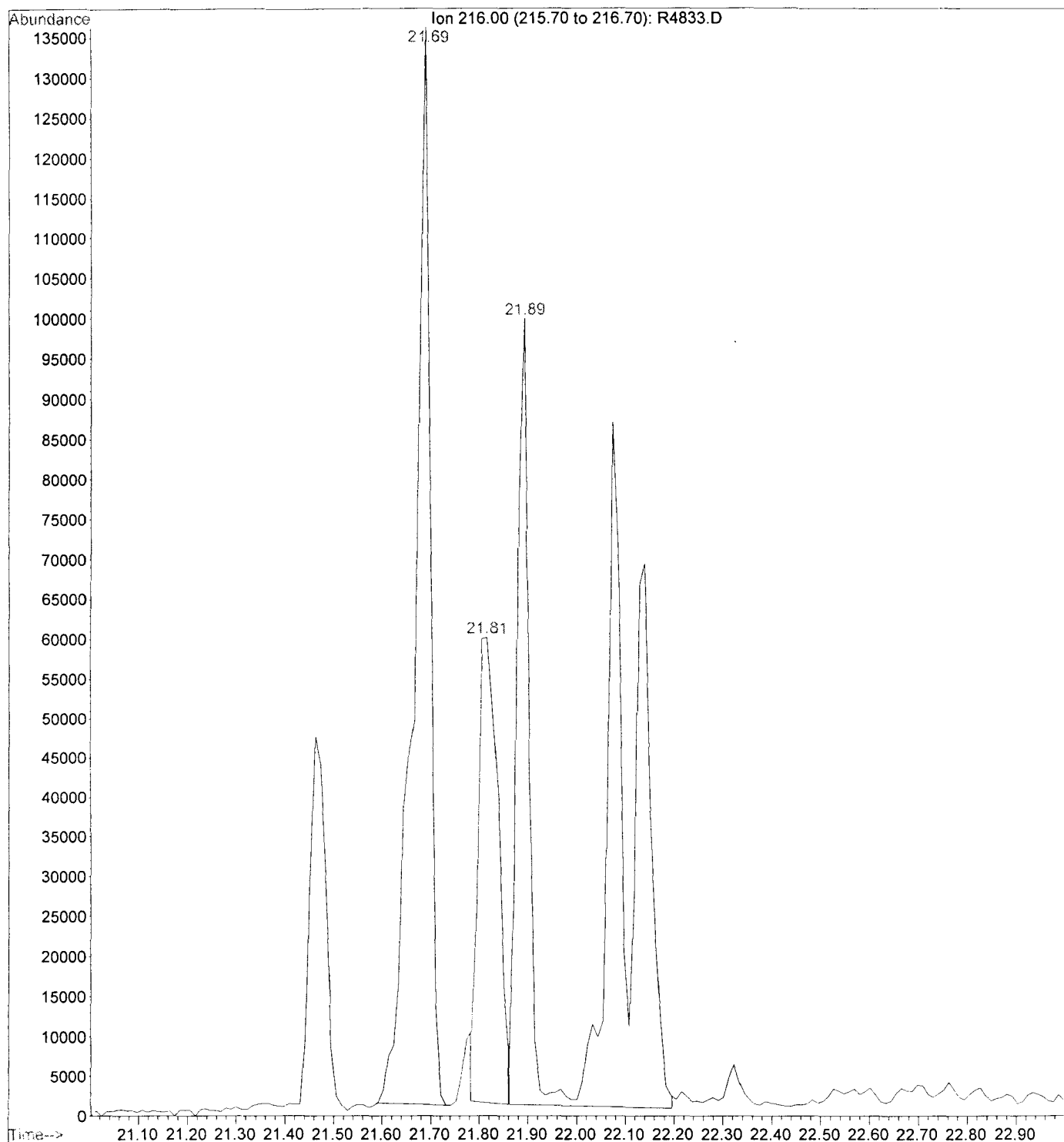
File : D:\HPCHEM\MSR\R4855.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 4:43 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-13  
Misc Info : TP20 (6.5-7.0) ; OLM ; 100 ; LLS ; R0335  
Vial Number: 10



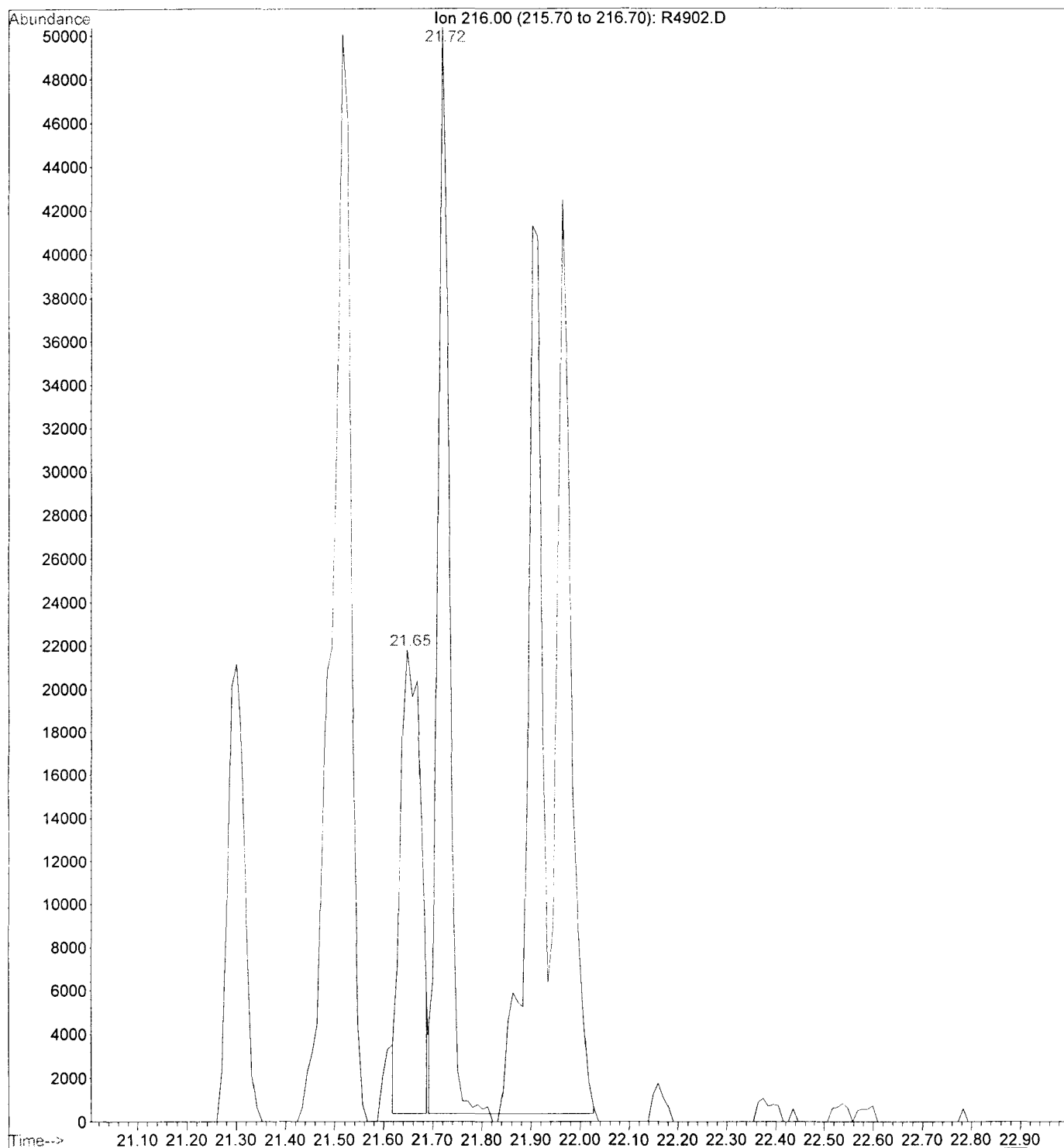
File : D:\HPCHEM\MSR\R4856.D  
Operator : C.LOMBARDI  
Acquired : 29 Oct 1999 5:24 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-04  
Misc Info : TP4 (9.5-10.0); OLM ; 2 ; LLS ; R0335  
Vial Number: 11



File : D:\HPCHEM\MSR\R4833.D  
Operator : C.LOMBARDI  
Acquired : 28 Oct 1999 3:49 pm using AcqMethod MSRSOC  
Instrument : HP5971:R  
Sample Name: 992414A-07  
Misc Info : TP5 (8.5-9.5); OLM ; 25 ; LLS ; R0334  
Vial Number: 9



File : D:\HPCHEM\MSR\R4902.D  
Operator : J. Bennett  
Acquired : 2 Nov 1999 5:20 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414A-02  
Misc Info : TP6 (9.5-10.5) ; OLM ; 500 ; LLS ; R0338  
Vial Number: 10



File : D:\HPCHEM\MSR\R4879.D  
Operator : J. Bennett  
Acquired : 1 Nov 1999 7:57 pm using AcqMethod MSRSOCNT  
Instrument : HP5971:R  
Sample Name: 992414A-01  
Misc Info : TP9 (11-11.5) ; OLM ; 5 ; LLS ; R0337  
Vial Number: 6

