

# **SAXO-1**

Saxo-1 well: Petroleum geochemistry . A study  
carried out for Amerada Hess

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**Petroleum geochemistry**  
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## **Introduction**

This report presents the results of an organic geochemical study carried out on samples from the Saxo-1 well, Outer Rough Basin, Danish North Sea sector.

For the purpose of correlation, a few data from the nearby Tordenskjold-1 well are included.

The progress of the study was severely hampered by very poor sample quality. Hence, the study did not reach the extent originally planned.

The objectives of the study were to assess the quality of potential petroleum source rocks present within the drilled sequence, and to assess the nature and origin of oil-shows in the Zechstein succession

The study was carried out for Amerada Hess a/s, Denmark

## Samples and methods

A total of eighteen drill cutting samples and two conventional core samples covering the Upper Jurassic (app. 3022m - 3097m, claystones 3022m-3032m), the Triassic (app. 3097m-3129m), and the Permian (Zechstein) (app. 3129m- ) portions of the drilled sequence, were subjected to Rock-Eval/ TOC screening analyses. In addition, due to poor sample quality (see below) three samples were reanalysed after additional preparative steps. Biomarker analysis was carried out on two samples.

Drill cutting samples (bagged samples) were rinsed in cold water to remove drilling mud, and the 1-4 mm fraction was selected for analysis.

Rock-Eval pyrolysis was carried out using a Delsi Rock-Eval 5 instrument.

Total Organic Carbon (TOC) analysis was carried out by combustion of carbonate-free sample, using a LECO IR212 inductions furnace, followed by recalculation to compensate for loss of weight due to removal of carbonate minerals. Carbonates were removed by prolonged treatment with hot (60°C) 2N HCl, followed by several stages of rinsing.

Solvent extraction was carried out using a Soxtec® apparatus with dichloromethane/methanol (DCM/MeOH, 93+7 vol./vol.) as solvent. Asphaltenes were precipitated by *n*-pentane, and maltene fractions were separated into saturated, aromatic and polar compounds by Medium Pressure Liquid Chromatography (MPLC), using a method modified from Radke *et al.* (1980).

Details of gas chromatography (GC) and coupled gas chromatography - mass spectrometry (GC-MS) operation conditions are listed in **Appendix 1**. GC-MS analyses were run in SIM-mode (Selected Ion Monitoring). One sample was checked by running a full-scan analysis.

The overall sample quality is very poor. Cuttings are generally small, and the proportion of sample relative to drilling mud is low. The presence of cavings also causes problems, in particular in the uppermost part of the Upper Jurassic succession (3022m-3034m), where the proportion of cavings from the overlying chalk succession amounts to 70-90% of the samples. Hence, standard screening data from this part of the succession are perfectly useless. Hand picking of the shale lithology was not feasible due to the very small cutting-size. Hence, in order to overcome the problem of cavings, these (chalk lithology) were removed from three samples by prolonged treatment with sulphurous acid (H<sub>2</sub>SO<sub>3</sub>). These samples were subsequently reanalysed. However, this procedure also partly eliminates carbonate minerals present within the shale lithology, and may thus lead to slight overestimation of the source rock potential. However, results obtained using the procedure described above can still be regarded as being far closer to "true values" than samples prepared using standard techniques. Unfortunately it was not possible to collect sufficient indigenous sample material to allow biomarker or isotopic analysis to be carried out.

The poor sample quality also precluded preparation of extracts of samples from the Zechstein succession for stable carbon isotopic analysis, since was simply not possible to obtain sufficient amounts of indigenous sample.

## Results and discussion

### Rock-Eval-TOC screening

Results of Rock-Eval/TOC screening are listed in **Table 1**, and a crossplot of Tmax vs. Hydrogen Index for samples containing >0.3% TOC is shown in **Fig. 1**.

Based on acid-treated samples (see "Samples and Methods" section), the "Kimmeridge Clay"/Farsund Formation shales present in the interval 3022m - 3034m, are good petroleum source rocks, although the potential is lower than often observed. Based on Tmax, the rock are immature with respect to petroleum generation.

The Triassic mudstones collected from core #3 (3101.4m and 3102.9m) are largely devoid of organic matter, and do not possess any petroleum generation potential.

The Zechstein Z2 dolomites (3184m-3193m) possess minor petroleum generation potential, and may be rated fair to good source rocks. Based on Tmax, the deposits are immature, but relatively high values of S1 and thus of PI ( $= S1/(S1+S2)$ ), may indicate the presence of staining or active generation. Carbonate source rocks are generally known to generate and expel petroleum at somewhat lower levels of thermal maturity than do shale source rocks, and the occurrence of staining due to active generation is not unlikely. Furthermore, suppression of Tmax in the presence of elevated proportions of bitumen-compounds is well known.

Data are available from only one sample of this interval in the Tordenskjold-1 well (3642m: TOC= 0.50; Tmax=439; S2=1.17; HI=234).

In the remaining part of the Zechstein succession from which samples have been analysed, staining is evident in several samples, but no potential source rocks can be identified.

### Biomarker analysis

Two samples from the Saxo-1 well were subjected to solvent extraction and biomarker analysis. The samples were collected from the potential (and apparently oil-stained) source rocks in the Z2 succession (3190m), and from the oil-stained carbonates in the Z1 succession (3208m).

In addition, data from oil-shows in the Triassic (3531.5m), and the Zechstein Z2 (3648m) successions of the Tordenskjold-1 well are included.

Extraction and separation data, and various ratios calculated from GC and GC-MS data are shown in **Tables 2 - 5**, and original GC and GC-MS data are included in **Appendix 3**.



**Saxo-1 well, 3190m, Z2, source rock/oil stain:**

The sample shows a very high extract yield (Table 2).

The gas chromatogram of the saturated fractions shows a smooth, light-end skewed, *n*-alkane distribution, with apex at *n*C<sub>17</sub>, and more or less linearly decreasing abundance of *n*-alkanes with increasing carbon number (Appendix 3). A very slight odd-number predominance among the *n*-alkanes is observed in the *n*C<sub>22+</sub> range. The proportion of "Unresolved Complex Mixture" (UCM) is low, and the sample shows some light end-evaporation, leading to truncation of the *n*-alkane distribution in the shorter chain length range (*i.e.* shorter than *n*C<sub>17</sub>). The pristane/phytane ratio is low (0.57, Table 2), and the proportion of acyclic isoprenoids relative to *n*-alkanes is low.

Triterpane biomarkers show a moderate abundance of tricyclic triterpanes relative to pentacyclic compounds, dominance of norhopane, appreciable proportions of 30-norhopanes (both C<sub>28</sub>, C<sub>29</sub> and C<sub>30</sub>) relative to hopane, presence of gammacerane, and high relative proportions of homohopanes with H35>H34 (Table 3, Fig. 2). The sterane distribution shows a dominance of C<sub>29</sub> regular steranes, and subordinate proportions of C<sub>27</sub> and C<sub>28</sub> regular steranes, which all show high proportions of the  $\alpha\beta\beta$ -epimers, relative to total regular steranes (Table 4).

Biomarker maturity parameters indicate generation from an early mature source rock (Table 5).

**Interpretation:** *high extract yield indicates notable staining. Hence, the extract probably represents both source rock bitumen and migrated/expelled oil. A number of biomarker characteristics indicate an origin from an early mature carbonate/marl source rock, which was deposited under conditions of high salinity, and which received very minor contributions to the kerogen from higher land plants. These characteristics include pristane/phytane ratio <<1, abundant 30-norhopanes, high proportions of homohopanes (in particular H35), high proportions of  $\alpha\beta\beta$ -steranes, and the presence of notable amounts of gammacerane, which is held to be specific of hypersaline environments (Peters & Moldowan 1993).*

*This conclusion is conformable with generation from sources within the Zechstein succession.*

**Saxo-1 well, 3208m, Z1, oil stain:**

The sample shows a very high extract yield (Table 2).

The gas chromatogram of the saturated fractions shows a rather irregular, light-end skewed, *n*-alkane distribution, with apex at *n*C<sub>18</sub>, and slightly concave-up decreasing trend in abundance of *n*-alkanes with increasing carbon number (Appendix 3). A clear even-number predominance among the *n*-alkanes is observed in the *n*C<sub>15-24</sub> range. The proportion of "Unresolved Complex Mixture" (UCM) is moderate, and the sample shows some light end-evaporation, leading to truncation of the *n*-alkane distribution in the shorter chain length range (*i.e.* shorter than *n*C<sub>17</sub>). The pristane/phytane ratio is low (0.64, Table 2), and the proportion of acyclic isoprenoids relative to *n*-alkanes is high.

Triterpane biomarkers show a comparatively low abundance of tricyclic triterpanes relative to pentacyclic compounds, dominance of hopane, presence of 30-norhopanes,

abundant gammacerane, and high relative proportions of homohopanes, in particular H34 and H35 (Table 3, Fig. 2). The sterane distribution shows a dominance of C<sub>29</sub> regular steranes, and subordinate proportions of C<sub>27</sub> and C<sub>28</sub> regular steranes, which all show high proportions of the  $\alpha\beta\beta$ -epimers, relative to total regular steranes (Table 4). Biomarker maturity parameters indicate generation from an early mature source rock (Table 5).

**Interpretation:** *high extract yield is conformable with an oil stain. Although the biomarker distribution is somewhat unusual, a number of biomarker characteristics indicate an origin from an early mature carbonate/marl source rock, which was deposited under conditions of high salinity, and which received virtually no terrigenous organic matter contributions to the kerogen. These characteristics include even carbon-number n-alkane predominance in the lower carbon number range, pristane/phytane ratio  $\ll 1$ , presence of 30-norhopanes, high proportions of homohopanes, high proportions of  $\alpha\beta\beta$ -steranes, and the presence of large amounts of gammacerane, which is held to be specific of hypersaline environments (Peters & Moldowan 1993).*

*This conclusion is conformable with generation from sources within the Zechstein succession.*

*Tordenskjold-1 well, 3531.5m, Triassic, oil stain:*

Extract yield data are not available.

The gas chromatogram of the saturated fractions shows a rather smooth, slightly light-end skewed, n-alkane distribution, with apex at nC<sub>20</sub>, and a slightly concave-up decreasing trend in abundance of n-alkanes with increasing carbon number (Appendix 3). No even- or odd-number predominance among the n-alkanes is observed. The proportion of "Unresolved Complex Mixture" (UCM) is low, and the sample shows minor light end-evaporation, leading to truncation of the n-alkane distribution in the shorter chain length range (i.e. shorter than nC<sub>17</sub>). The pristane/phytane ratio is low (0.66, Table 2), and the proportion of acyclic isoprenoids relative to n-alkanes is very high.

Triterpane biomarkers show a moderate abundance of tricyclic triterpanes relative to pentacyclic compounds, dominance of hopane, traces of 30-norhopanes, presence gammacerane, and rather high relative proportions of homohopanes, with H35>H34 (Table 3, Fig. 2). The sterane distribution shows a dominance of C<sub>27</sub> regular steranes, and subordinate proportions of C<sub>28</sub> and C<sub>29</sub> regular steranes, which all show moderate proportions of the  $\alpha\beta\beta$ -epimers, relative to total regular steranes (Table 4). Biomarker maturity parameters indicate generation from an early mature to mature source rock (Table 5).

**Interpretation:** *The biomarker distribution does not provide unambiguous evidence regarding the origin of the oil-show analysed. A number of biomarker characteristics indicate an origin from an early mature carbonate/marl type source rock, which was deposited under conditions of high salinity. These characteristics include pristane/phytane ratio  $\ll 1$ , presence of (traces of) 30-norhopanes, high proportions of homohopanes, and the presence of gammacerane. However, not all of these characteristics are very pronounced, and the sterane distribution closely resembles distributions often observed in*

*marine shales. But the overall biomarker distribution does not seem conformable with generation from an Upper Jurassic Farsund Formation/"Kimmeridge Clay" source rock, since the basal part of the Farsund formation generally shows evidence of the presence of terrigenous kerogen and pristane/phytane ratios close to 1.6, while the highly prolific source rocks of the "hot unit" of the uppermost portion of the Upper Jurassic succession invariably contains 28,30-bisnorhopane. Neither of these characteristics are observed. Hence, generation from a marly shale, deposited under conditions of increased salinity is favoured. This conclusion appear conformable with generation from sources within the Zechstein succession.*

*Tordenskjold-1 well, 3648m, Z2, oil stain:*

The sample shows a very high extract yield (Table 2).

The gas chromatogram of the saturated fractions shows a smooth, light-end skewed, *n*-alkane distribution, with apex at *n*C<sub>17</sub>, and a slightly concave-up decreasing trend in abundance of *n*-alkanes with increasing carbon number (Appendix 3). No appreciable odd- or even-number predominance among the *n*-alkanes is observed. The proportion of "Unresolved Complex Mixture" (UCM) is low. The pristane/phytane ratio is low (0.56, Table 2), and the proportion of acyclic isoprenoids relative to *n*-alkanes is low.

Triterpane biomarkers show a moderate abundance of tricyclic triterpanes relative to pentacyclic compounds, dominance of norhopane, appreciable proportions of 30-norhopanes (both C<sub>28</sub>, C<sub>29</sub> and C<sub>30</sub>) relative to hopane, presence of gammacerane, and high relative proportions of homohopanes with H35>H34 (Table 3, Fig. 2). The sterane distribution shows a dominance of C<sub>29</sub> regular steranes, and subordinate proportions of C<sub>27</sub> and C<sub>28</sub> regular steranes, which all show high proportions of the  $\alpha\beta\beta$ -epimers, relative to total regular steranes (Table 4).

Biomarker maturity parameters indicate generation from an early mature to mature source rock (Table 5).

**Interpretation:** *high extract yield is conformable with an oil-stain. A number of biomarker characteristics indicate an origin from an early mature carbonate/marl source rock, which was deposited under conditions of high salinity, and which received very minor contributions to the kerogen from higher land plants. These characteristics include pristane/phytane ratio  $\ll 1$ , abundant 30-norhopanes, high proportions of homohopanes (in particular H35), high proportions of  $\alpha\beta\beta$ -steranes, and the presence gammacerane. This conclusion is conformable with generation from sources within the Zechstein succession.*

## **Summary and conclusions**

Poor sample quality severely hampered the progress of the present study. However, based on the data available a number of conclusion can be made:

Good potential, but immature source rock are present in the Upper Jurassic succession of the Saxo-1 well.

Active petroleum generation probably takes place from early mature dolomites/marls/shales within the Zechstein succession in both the Saxo-1 and the Tordenskjold-1 wells, but it has not been possible to identify individual source beds.

These generative units are the likely sources for oil-shows in the Zechstein succession of the Saxo-1 well and the Tordenskjold-1 wells, and probably also for an oil show in the Triassic successssion of the Tordenskjold-1 well.

## References

Peters, K. E. and Moldowan J. M. 1993. The biomarker guide. Prentice Hall, Englewood Cliffs, New Jersey, 363pp.

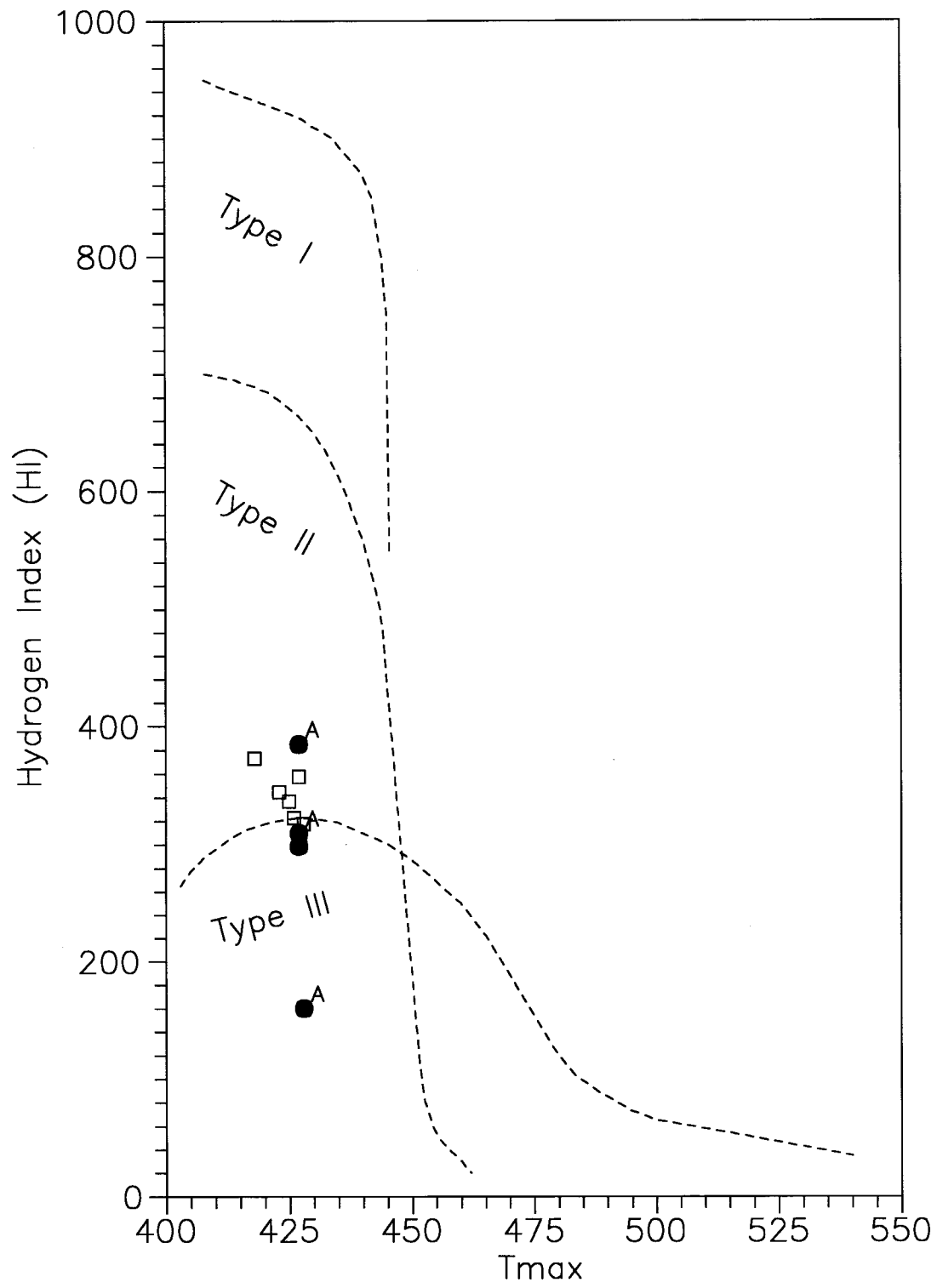
Radke, M., Willsch, H. and Welte, D. H., 1980. Preparative hydrocarbon group type determination by automated Medium Pressure Liquid Chromatography. Analytical Chemistry 52, 406-411

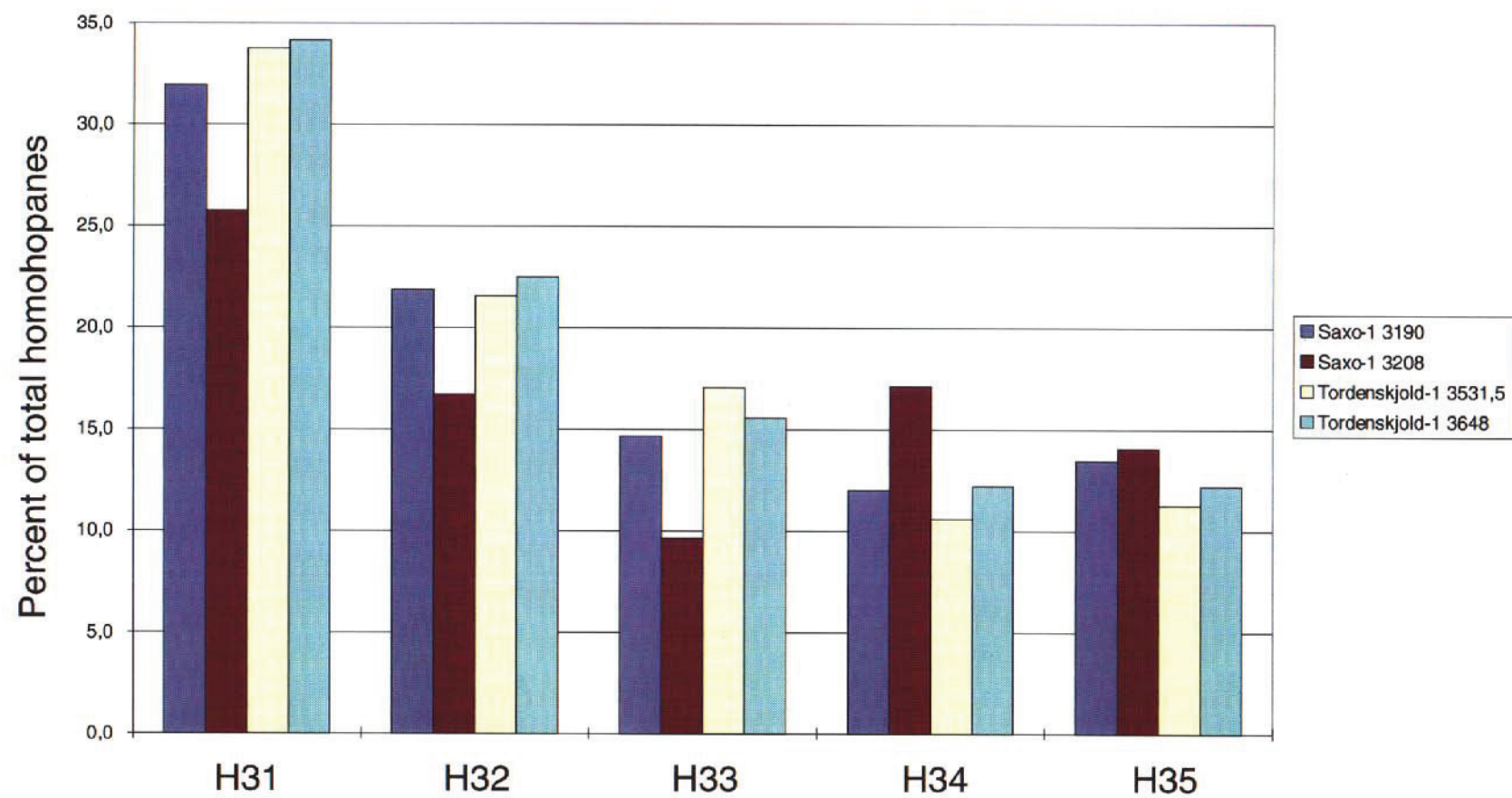
## Figures

**Fig. 1.** Tmax versus Hydrogen Index for samples containing >0.3% TOC. Filled circles: Upper Jurassic samples (A: cavings removed by acid, see "Samples and Methods" section). Open squares: Zechstein samples.

**Fig. 2.** Normalized distribution of extended hopanes Saxo-1 and Tordenskjold-1 wells.

**Fig. 1**





**Fig. 2**



## Tables

Table 1. Rock-Eval/TOC screening data, Saxo-1 well.

Table 2. Extraction, fractionation and GC-data, Saxo-1 and Tordenskjold-1 wells.

Table 3. Triterpane biomarker ratios, Saxo-1 and Tordenskjold-1 wells.

Table 4. Sterane biomarker ratios, Saxo-1 and Tordenskjold-1 wells.

Table 5. Triterpane and sterane maturity indicator ratios, Saxo-1 and Tordenskjold-1 wells.

**TABLE 1.**

Depth (m)		TOC (wt-%)	Tmax (°C)	S1 (mg/g)	S2 (mg/g)	PI	PC	HI
3022	*	0,06	329	0,19	0,38	0,33	0,05	615
3025	*	0,07	331	0,13	0,08	0,62	0,02	114
3028	*	0,16	377	0,34	0,82	0,29	0,10	525
3031	*	0,19	381	0,44	1,14	0,28	0,13	594
3025	**	3,99	427	0,61	12,36	0,05	1,08	310
3028	**	3,02	427	0,43	11,62	0,04	1,00	385
3031	**	3,60	428	0,25	5,76	0,04	0,50	160
3034		1,44	427	3,68	4,32	0,46	0,66	299
3101.4	cc	0,15	349	0,07	0,42	0,14	0,04	276
3102.9	cc	0,13	345	0,07	0,24	0,23	0,03	187
3184		0,34	428	0,48	1,08	0,31	0,13	318
3187		1,80	425	2,74	6,08	0,31	0,73	337
3190		1,85	423	2,86	6,40	0,31	0,77	345
3193		0,80	427	1,28	2,88	0,31	0,35	358
3196		0,30	426	0,44	0,96	0,31	0,12	323
3199		0,08	374	0,27	0,58	0,32	0,07	691
3202		0,11	342	0,23	0,46	0,33	0,06	414
3205		0,11	417	0,29	0,48	0,38	0,06	429
3208		0,31	418	0,60	1,16	0,34	0,15	373
3211		0,22	418	0,40	0,78	0,34	0,10	356
3214		0,15	422	0,16	0,36	0,31	0,04	244
3217		0,24	368	0,25	0,56	0,31	0,07	232
3220		0,22	374	0,29	0,62	0,32	0,08	277

\* samples contain up to 90% cavings from the overlying chalk-succession

\*\* cavings removed by acid-treatment

cc conventional core sample, core #3

**Table 2.**

Well	Depth (m)	Ext. yield (mg/g OC)	Asphaltenes (%)	Sat (%)	Aro (%)	Polars (%)	Pr/ph	Pr/nC17	CPI
Saxo-1	3190	698	37,4	15,2	15,2	69,6	0,57	0,31	0,96
Saxo-1	3208	806	16,1	13,7	13,7	72,6	0,64	2,12	1,14
Tordenskjold-1	3531,5*	n.a.	n.a.	48,6	25,7	25,7**	0,66	5,24	0,98
Tordenskjold-1	3648	961	8,7	41,5	27,8	30,7	0,56	0,27	0,96

\* SWC sample

\*\* includes asphaltenes

**Table 3**

Well	Depth (m)	T23/H30	H29/H30	G/H30	H30N/H30	H35/H34
Saxo-1	3190	0,70	1,25	0,20	0,16	1,12
Saxo-1	3208	0,10	0,57	0,55	0,07	0,82
Tordenskjold-1	3531,5	0,15	0,48	0,12	0,03	1,06
Tordenskjold-1	3648	0,54	1,19	0,10	0,13	1,00

T23/H30 = C<sub>23</sub> tricyclic triterpane to C<sub>30</sub> hopane ratio

H29/H30 = norhopane to hopane ratio

G/H30 = gammacerane to hopane ratio

H30N/H30 = C<sub>30</sub> -30-norhopane to hopane ratio

H35/H34 = Pentakishomohopane to tetrakishomohopane ratio

**Table 4**

Well	Depth (m)	D27/S27	S27 (%)	S28 (%)	S29 (%)	S27/S29
Saxo-1	3190	0,00	41,5	17,7	40,8	1,02
Saxo-1	3208	0,55	30,1	18,8	51,1	0,59
Tordenskjold-1	3531,5	0,57	49,3	21,2	29,5	1,67
Tordenskjold-1	3648	0,65	44,5	16,4	39,1	1,14

D27/S27 = Ratio of C<sub>27</sub> diasteranes to C<sub>27</sub> regular steranes

S27 (%), S28 (%), S29 (%) = Relative distribution of C<sub>27-29</sub> regular steranes based on  $\alpha\alpha\alpha$ R isomers in m/z 217

S27/S29 = Ratio of C<sub>27</sub> to C<sub>29</sub> regular steranes

**Table 5**

Well	Depth (m)	S29 S/(S+R)	S29 bb/(bb+aa)	H31 S/(S+R)	H32 S/(S+R)	Ts/(Ts+Tm)
Saxo-1	3190	0,42	0,73	0,58	0,62	0,37
Saxo-1	3208	0,39	0,50	0,58	0,59	0,31
Tordenskjold-1	3531,5	0,46	0,43	0,60	0,61	0,43
Tordenskjold-1	3648	0,43	0,57	0,58	0,62	0,42

S29 S/(S+R) = C<sub>29</sub> sterane 20S/(20S+20R)

S29 bb/(bb+aa) = C<sub>29</sub> sterane abb/(abb+aaa)

H31 S/(S+R) = homohopane 22S/(22S+22R)

H32 S/(S+R) = bishomohopane 22S/(22S+22R)

# Appendix 1

## **Gas Chromatograph operation conditions:**

*Gas Chromatograph:* Hewlett-Packard 5890 Series II plus, splitless injection, flame ionization detector (FID)

*Column:* 25m HP-1 WCOT

*Temperature program:* 80 - 300 °C at 5 °C/min, isothermal 300 °C for 15 min.

## **Gas Chromatograph - Mass Spectrometer operation conditions:**

*Gas Chromatograph:* Hewlett-Packard 5890A Series II, splitless injection

*Mass Spectrometer:* Hewlett-Packard 5971A quadropole mass selective detector (MSD)

*Column:* 25m HP-5 WCOT

*Temperature program:* 70 - 100 °C at 30 °C/min, 100 - 300 °C at 4 °C/min, isothermal 300 °C for 12 min.

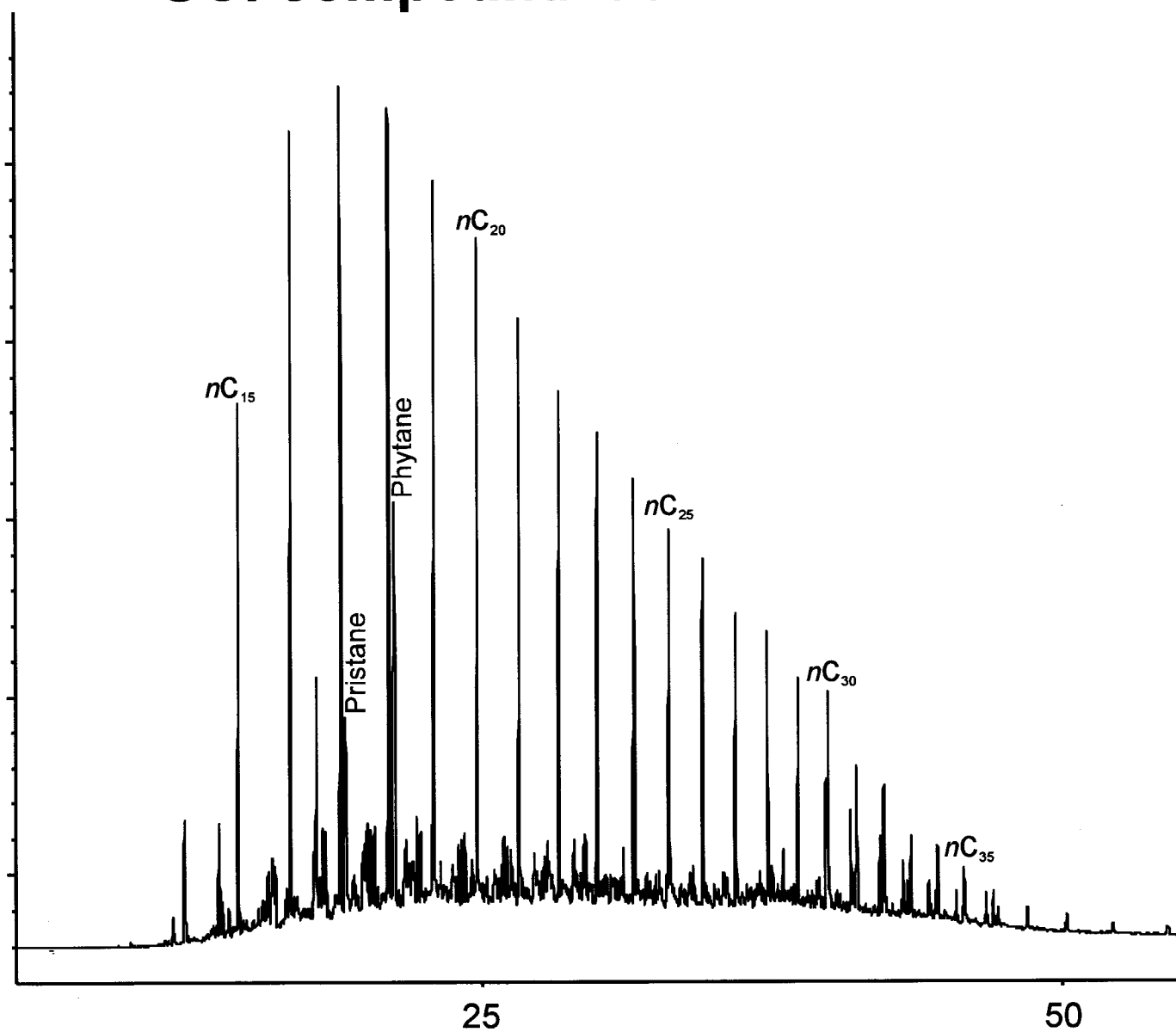
# Appendix 2

GC compound identification

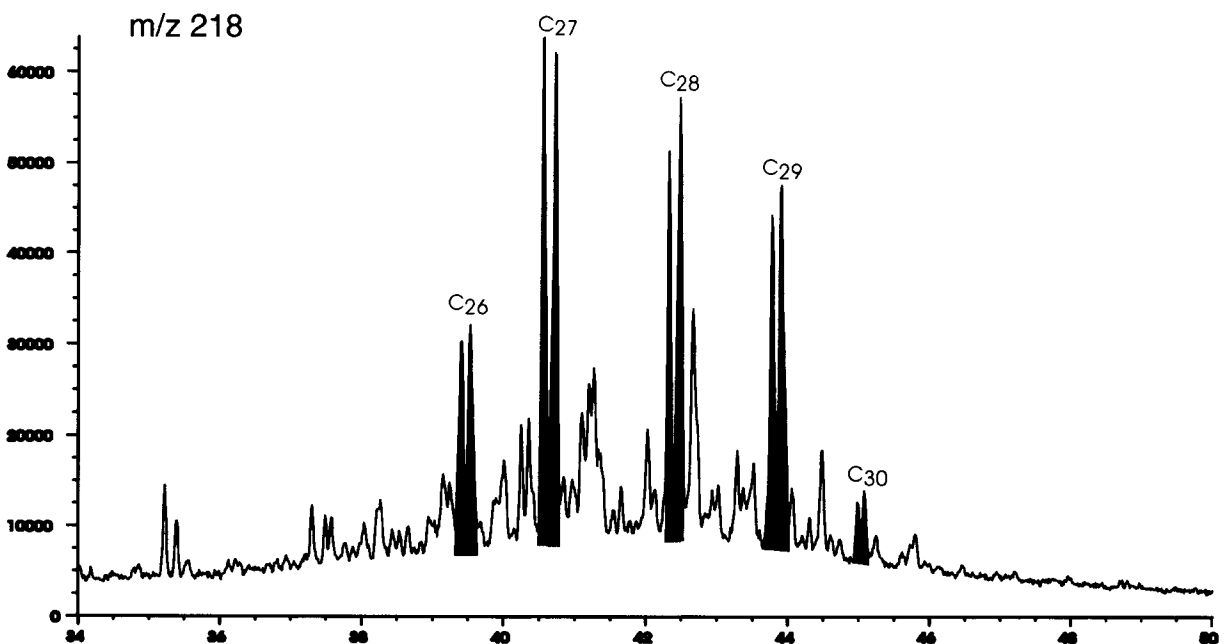
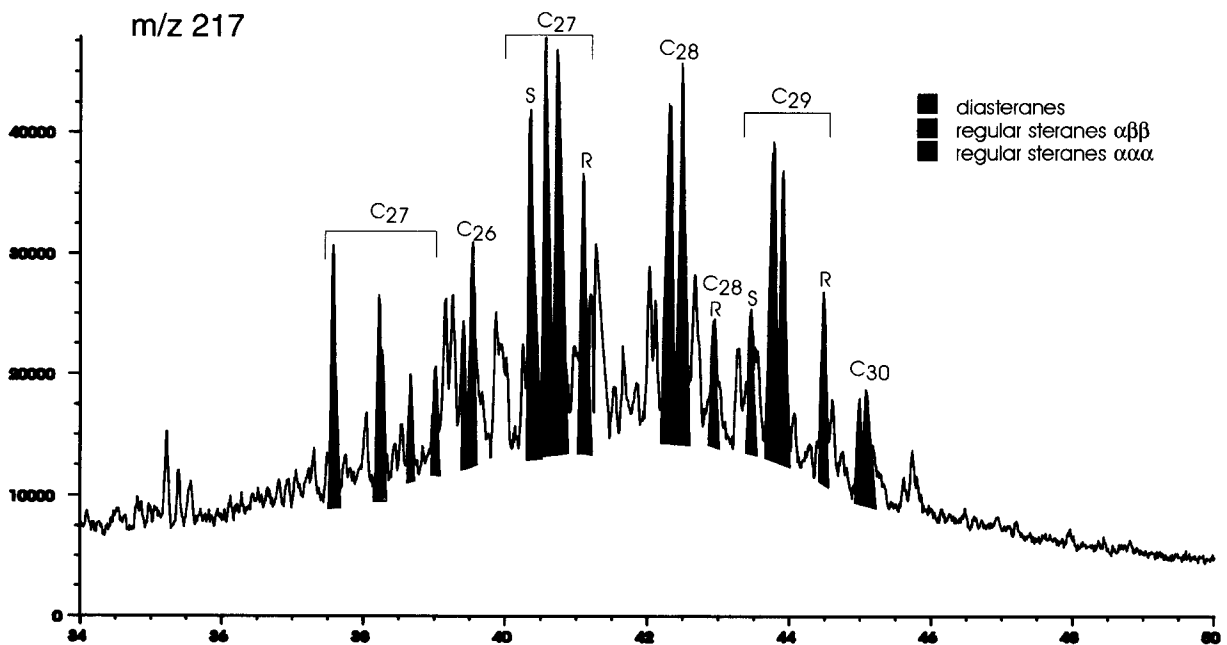
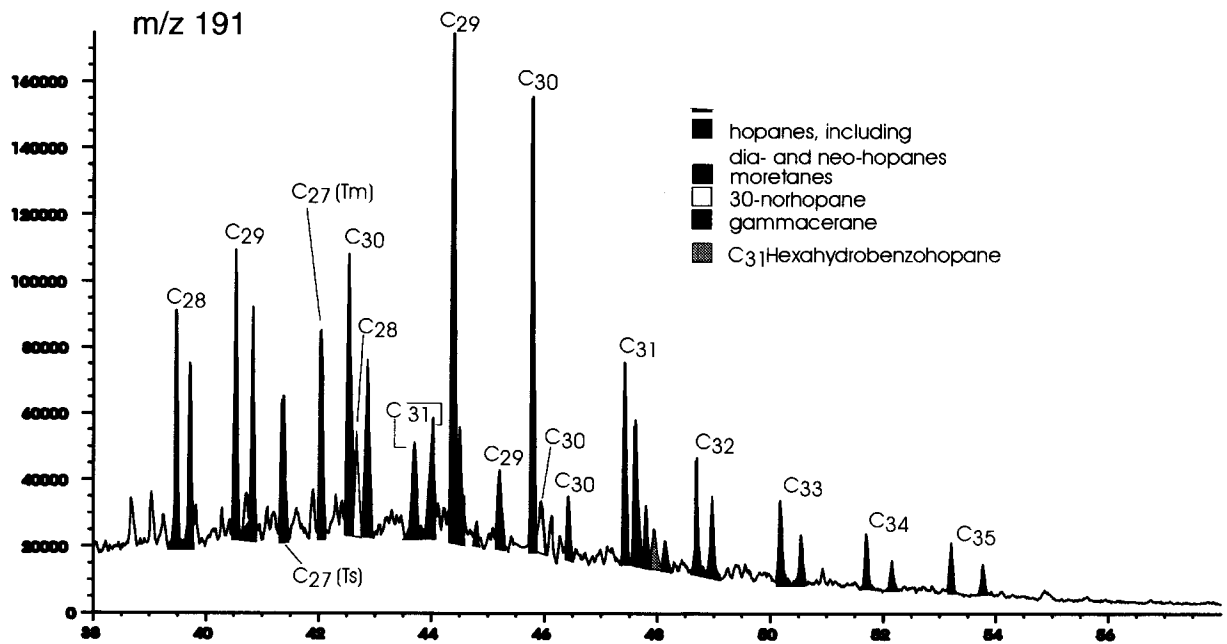
Biomarker identification key



## GC: compound identification



# Biomarker ic



# Appendix 3

GC and GC-MS data:

Saxo-1 well 3190m (Cuttings)

Saxo-1 well 3208m (Cuttings)

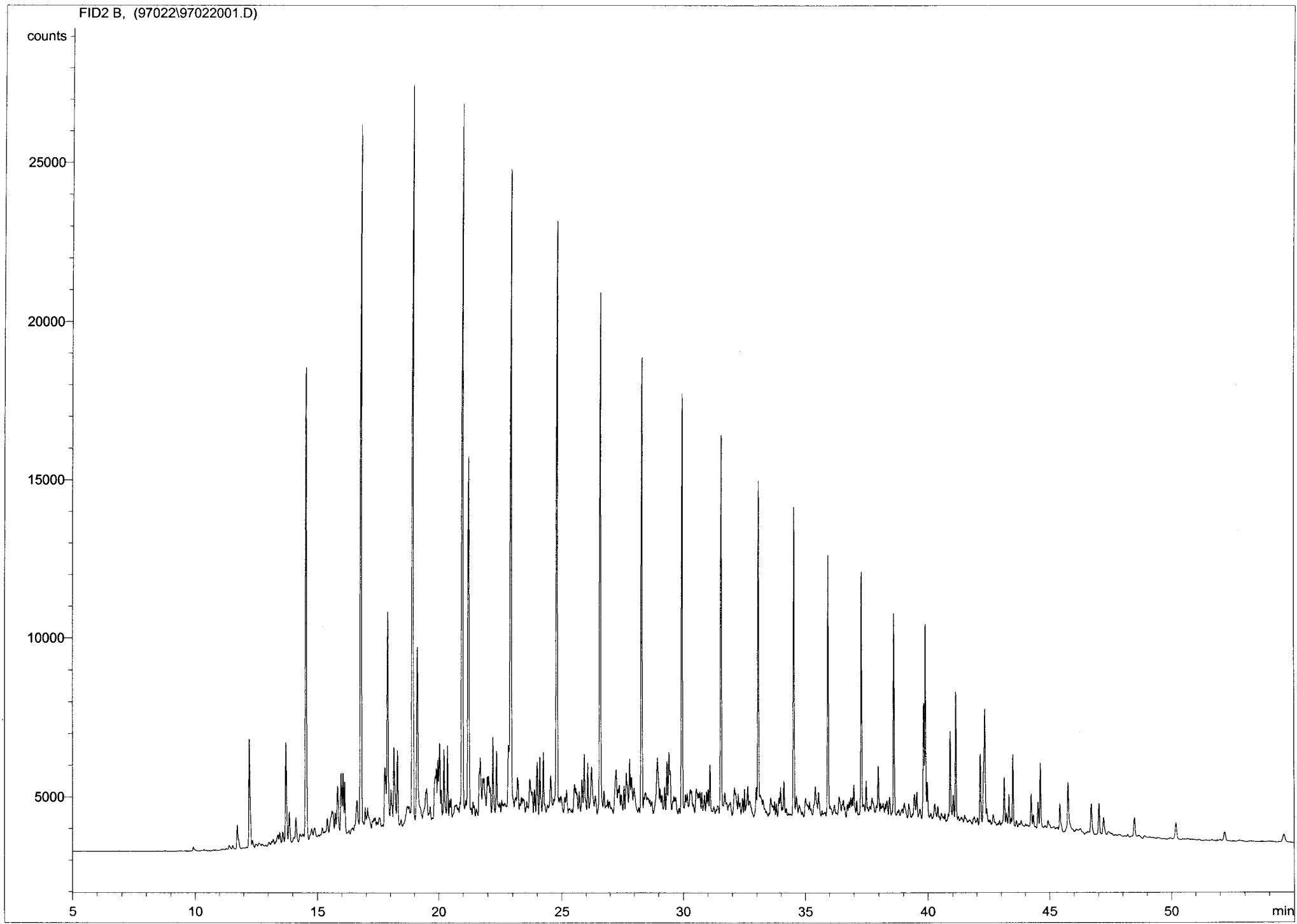
Tordenskjold-1 well 3531.5m (SWC)

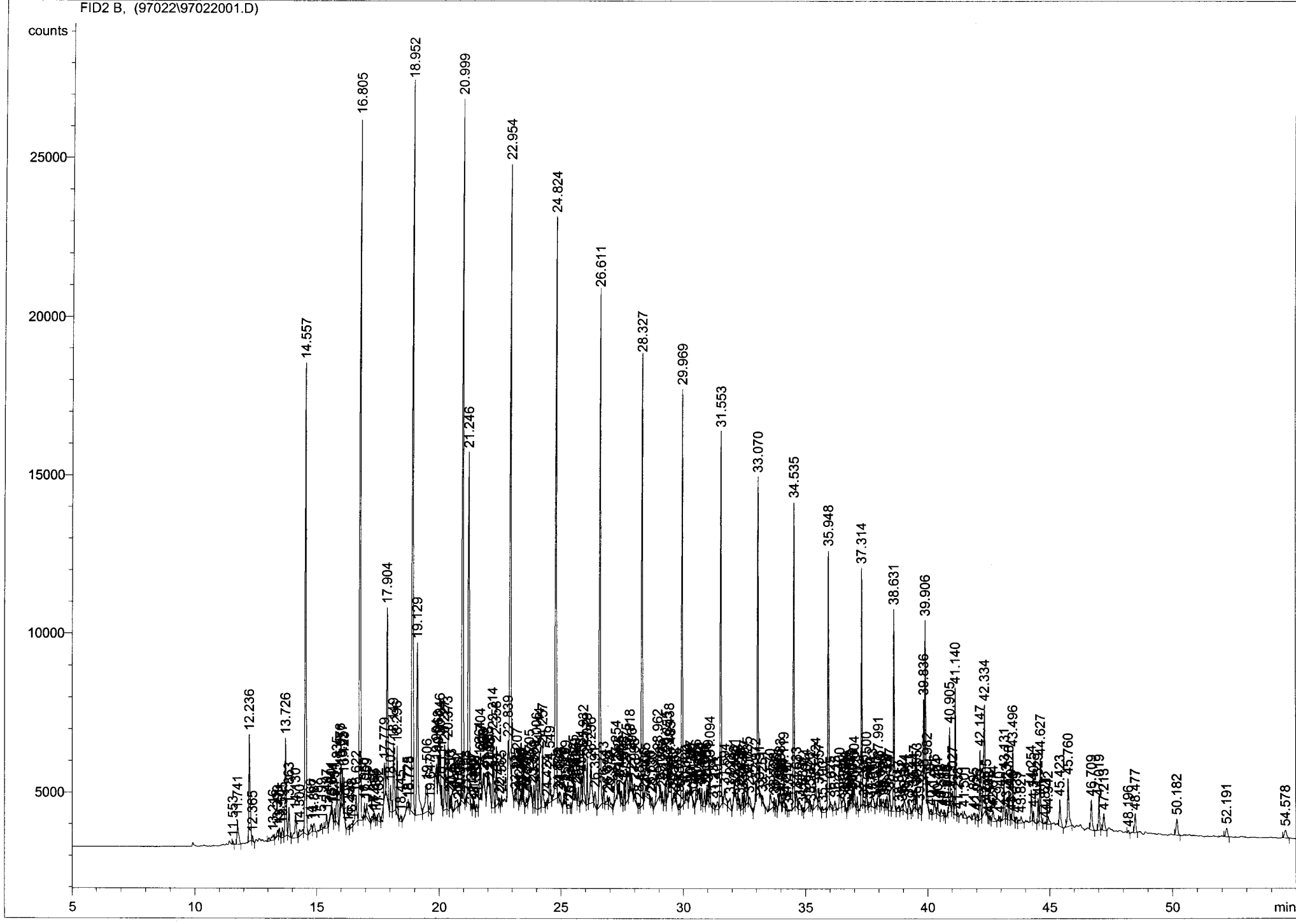
Tordenskjold-1 well 3648m (Cuttings)

97022-10, Saxo-1, 3190m, cuttings, ali: 1.4 mg, kørt d  
. 13. juni 1997.

```
=====
Injection Date   : 13-06-97 10:46:28           Seq. Line :    1
Sample Name      : 3190m                       Vial       :    1
Acq. Operator    : DD                          Inj         :    1
                                           Inj Volume  : 1 µl

Acq. Method      : C:\HPCHEM\1\METHODS\GCN(1A).M
Last changed     : 17-04-97 15:04:07 by DD
Analysis Method  : C:\HPCHEM\1\METHODS\GCN(1A).M
Last changed     : 24-06-97 11:42:48 by PN
                  (modified after loading)
Metode baseret på Norsk Industristandard
```





=====  
Normalized Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000  
Uncalibrated Peaks : not reported

=====  
Area Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000

Signal 1: FID2 B,  
Results obtained with enhanced integrator!

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
1	11.553	PBA	0.1084	948.43756	109.08790	0.07940
2	11.741	PBA	0.0689	3782.25293	761.79590	0.31664
3	12.236	PB	0.0516	1.17528e4	3379.63965	0.98391
4	12.365	VB	0.0425	449.02271	161.24945	0.03759
5	13.216	PB	0.0968	1366.00793	171.70990	0.11436
6	13.399	VB	0.0533	709.57587	178.65826	0.05940
7	13.471	VB	0.0397	682.75604	251.25185	0.05716
8	13.595	VB	0.0472	1075.61707	328.57999	0.09005
9	13.726	VB	0.0493	1.01470e4	3094.46558	0.84948
10	13.863	VB	0.0512	3064.59058	912.25116	0.25656
11	14.130	VB	0.0671	3648.59131	787.44409	0.30545
12	14.300	VB	0.0808	1428.93018	220.05550	0.11963
13	14.557	VB	0.0447	4.41806e4	1.48610e4	3.69866
14	14.766	VB	0.0651	1202.15393	264.03931	0.10064
15	14.887	VBA	0.0912	1833.23254	253.99806	0.15347
16	15.199	PBA	0.0822	1361.04663	200.42282	0.11394
17	15.407	BB	0.0513	1566.09204	453.57095	0.13111
18	15.601	VB	0.0664	961.80872	185.88243	0.08052
19	15.641	VB	0.0318	307.29254	164.72682	0.02573
20	15.731	VB	0.0399	1008.32648	438.01620	0.08441
21	15.835	VB	0.0603	4925.16162	1297.70325	0.41232
22	15.976	VB	0.0385	3218.75269	1365.21704	0.26946
23	16.057	VB	0.0331	2379.92847	1151.94446	0.19924
24	16.123	VB	0.0317	2285.68579	1172.67371	0.19135
25	16.298	VB	0.0518	425.37662	113.21015	0.03561
26	16.448	VB	0.0652	643.44843	122.72761	0.05387
27	16.622	VB	0.0696	4193.64844	835.34021	0.35108
28	16.805	VB	0.0460	6.83670e4	2.21482e4	5.72347
29	16.960	VB	0.0330	980.62195	458.32611	0.08209
30	17.059	VB	0.0653	2171.90015	442.03183	0.18182
31	17.313	VB	0.0652	702.07013	131.74944	0.05878
32	17.367	VB	0.0349	358.35614	161.13568	0.03000

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
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33	17.434	VB	0.0245	190.85596	103.37524	0.01598
34	17.532	VB	0.0585	1170.54602	246.21049	0.09799
35	17.779	VB	0.0355	2357.61011	1123.95947	0.19737
36	17.904	VB	0.0499	1.86538e4	6054.43945	1.56164
37	18.027	VB	0.0451	2684.21216	844.73431	0.22471
38	18.149	VB	0.0493	7256.46924	2153.49414	0.60749
39	18.296	VB	0.0424	5802.00195	2155.95288	0.48573
40	18.445	VB	0.0406	618.87024	208.65584	0.05181
41	18.725	VB	0.0637	745.20087	150.58253	0.06239
42	18.778	VB	0.0266	259.45105	154.56097	0.02172
43	18.952	VB	0.0484	7.59756e4	2.30556e4	6.36044
44	19.129	VB	0.0668	2.32233e4	5436.45361	1.94418
45	19.506	VB	0.0873	5675.11230	879.04272	0.47510
46	19.647	VB	0.0498	1221.60901	376.72299	0.10227
47	19.904	VB	0.0271	966.14008	535.37122	0.08088
48	19.968	VB	0.0326	1645.37646	847.63342	0.13775
49	20.046	VB	0.0416	4175.22559	1592.86780	0.34954
50	20.111	VB	0.0263	947.28906	573.44244	0.07930
51	20.227	VB	0.0421	5826.76270	2051.72632	0.48780
52	20.373	VB	0.0370	5224.91357	2173.44067	0.43741
53	20.456	VB	0.0293	654.62677	341.83047	0.05480
54	20.513	VB	0.0291	758.63983	400.11252	0.06351
55	20.741	VB	0.1040	1762.07886	209.73128	0.14752
56	20.806	VB	0.0298	193.74348	98.97984	0.01622
57	20.884	VB	0.0285	261.86246	156.40627	0.02192
58	20.999	VB	0.0443	6.91426e4	2.22011e4	5.78840
59	21.108	VB	0.0324	413.12418	206.39278	0.03459
60	21.246	VB	0.0486	4.05836e4	1.11053e4	3.39753
61	21.330	VB	0.0317	301.62567	136.85507	0.02525
62	21.407	VB	0.0305	546.51373	283.28787	0.04575
63	21.452	VB	0.0328	349.68213	164.47040	0.02927
64	21.537	VB	0.0390	726.40198	235.42131	0.06081
65	21.664	VB	0.0201	361.70258	299.67450	0.03028
66	21.704	VB	0.0335	1583.02502	752.30945	0.13253
67	21.808	VB	0.0278	581.17017	326.28391	0.04865
68	21.850	VB	0.0312	566.39319	284.21777	0.04742
69	21.983	VB	0.0315	883.49451	479.38324	0.07396
70	22.035	VB	0.0371	938.76532	389.20834	0.07859
71	22.098	VB	0.0260	526.35175	341.25476	0.04406
72	22.214	VB	0.0403	6384.74805	2378.36523	0.53451
73	22.358	VB	0.0403	4862.57520	1872.78967	0.40708
74	22.482	VB	0.0308	472.86768	222.71973	0.03959
75	22.565	VB	0.0265	487.51236	264.10236	0.04081
76	22.839	PB	0.0324	1378.18811	686.97687	0.11538
77	22.954	VB	0.0401	5.43462e4	1.91617e4	4.54970
78	23.135	VB	0.0535	631.17389	148.68341	0.05284
79	23.207	VB	0.0479	3025.58423	863.25696	0.25329
80	23.295	VB	0.0247	206.22389	128.31784	0.01726
81	23.356	VB	0.0267	443.01489	228.04694	0.03709
82	23.415	VB	0.0175	126.63149	109.56633	0.01060
83	23.459	VB	0.0331	439.37521	164.91647	0.03678
84	23.578	VB	0.0387	859.16095	288.61453	0.07193
85	23.705	VB	0.0508	2564.18994	733.74469	0.21467



Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
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86	23.803	VB	0.0257	511.64005	319.99973	0.04283
87	23.889	VB	0.0428	1956.25549	716.69226	0.16377
88	24.006	VB	0.0483	5452.82422	1618.92102	0.45649
89	24.114	VB	0.0418	5001.12207	1778.15454	0.41868
90	24.257	VB	0.0437	5408.20557	1871.35339	0.45276
91	24.424	VB	0.0337	433.56152	164.75453	0.03630
92	24.549	VB	0.0511	3634.07690	984.65143	0.30423
93	24.824	VB	0.0464	5.88672e4	1.83464e4	4.92818
94	24.898	VB	0.0314	269.48660	123.73152	0.02256
95	24.963	VB	0.0473	996.20178	262.19458	0.08340
96	25.129	VB	0.0384	738.62158	283.04590	0.06184
97	25.199	VB	0.0447	1531.55334	545.72083	0.12822
98	25.333	VB	0.0561	591.97144	135.10312	0.04956
99	25.418	VB	0.0240	166.33899	102.08246	0.01393
100	25.525	VB	0.0469	1350.79688	464.92120	0.11308
101	25.579	VB	0.0208	261.46545	193.03853	0.02189
102	25.625	VB	0.0246	259.08771	182.54991	0.02169
103	25.721	VB	0.0390	1514.67859	588.61389	0.12680
104	25.834	VB	0.0452	2354.00806	853.72614	0.19707
105	25.932	VB	0.0429	4684.39307	1613.80786	0.39216
106	26.078	VB	0.0359	3241.31299	1459.53052	0.27135
107	26.236	VB	0.0595	5983.65479	1279.92712	0.50093
108	26.391	VB	0.0479	1685.46948	447.44489	0.14110
109	26.611	VB	0.0452	5.03662e4	1.62322e4	4.21650
110	26.743	VB	0.0420	1489.74902	527.23792	0.12472
111	26.898	VB	0.0388	839.38971	281.12265	0.07027
112	26.979	VB	0.0632	1394.48694	270.46213	0.11674
113	27.254	VB	0.0633	5092.74316	1036.89783	0.42635
114	27.342	VB	0.0275	286.31644	171.02184	0.02397
115	27.386	VB	0.0360	802.65991	389.57953	0.06720
116	27.467	VB	0.0439	1159.17041	398.60019	0.09704
117	27.578	VB	0.0364	1780.32690	756.71307	0.14904
118	27.675	VB	0.0571	4409.14551	1070.43713	0.36912
119	27.818	VB	0.0339	2533.42627	1140.91138	0.21209
120	27.896	VB	0.0449	1492.37720	529.65955	0.12494
121	27.998	VB	0.0590	2096.92700	479.97815	0.17555
122	28.189	VB	0.0307	368.05103	161.01381	0.03081
123	28.327	VB	0.0462	4.39007e4	1.41667e4	3.67523
124	28.405	VB	0.0299	287.94690	161.05128	0.02411
125	28.465	VB	0.0732	1554.13049	254.77231	0.13011
126	28.650	VB	0.0207	238.14629	156.65636	0.01994
127	28.730	VB	0.0355	753.36328	270.38492	0.06307
128	28.962	VB	0.0714	7743.47070	1424.64246	0.64826
129	29.065	VB	0.0267	759.75037	373.89001	0.06360
130	29.147	VB	0.0335	647.99390	321.92761	0.05425
131	29.260	VB	0.0352	1717.51123	709.58734	0.14378
132	29.355	VB	0.0391	3059.02368	1270.46313	0.25609
133	29.438	VB	0.0338	2080.65356	977.51740	0.17419
134	29.485	VB	0.0223	441.98135	359.67163	0.03700
135	29.586	VB	0.0265	147.29720	92.94530	0.01233
136	29.632	VB	0.0279	329.81940	184.00455	0.02761
137	29.703	VB	0.0334	584.23584	248.89012	0.04891
138	29.834	VB	0.0353	407.65463	180.80258	0.03413

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
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139	29.969	VB	0.0415	3.76952e4	1.31414e4	3.15573
140	30.092	VB	0.0286	543.29852	293.37625	0.04548
141	30.169	VB	0.0358	837.87622	339.40625	0.07014
142	30.297	VB	0.0285	488.61856	232.99203	0.04091
143	30.341	VB	0.0273	398.22479	208.31650	0.03334
144	30.414	VB	0.0275	251.85680	115.35312	0.02108
145	30.536	VB	0.0536	2047.94556	523.88153	0.17145
146	30.632	VB	0.0258	248.72264	154.42776	0.02082
147	30.680	VB	0.0321	618.46582	326.04239	0.05178
148	30.759	VB	0.0364	1200.68140	550.62836	0.10052
149	30.870	VB	0.0399	1407.96411	498.61438	0.11787
150	30.956	VB	0.0345	924.16888	459.24103	0.07737
151	31.019	VB	0.0307	939.77618	483.37659	0.07868
152	31.094	VB	0.0361	3140.51099	1350.64807	0.26291
153	31.234	VB	0.0397	625.14069	193.65710	0.05233
154	31.403	VB	0.0631	1245.68298	250.08971	0.10428
155	31.553	VB	0.0418	3.41590e4	1.17970e4	2.85968
156	31.694	VB	0.0697	2380.98804	481.42328	0.19933
157	31.923	VB	0.0639	1877.92114	359.58392	0.15721
158	32.081	VB	0.0356	876.76495	415.92856	0.07340
159	32.132	VB	0.0311	303.03629	130.26958	0.02537
160	32.238	VB	0.0297	903.45587	444.21112	0.07563
161	32.313	VB	0.0288	503.65829	246.90495	0.04216
162	32.421	VB	0.0404	1333.44788	479.98959	0.11163
163	32.497	VB	0.0350	1532.50159	714.37811	0.12830
164	32.635	VB	0.0410	2015.48438	653.00031	0.16873
165	32.707	VB	0.0699	1293.80579	222.31033	0.10831
166	32.972	VB	0.0287	931.07111	499.76154	0.07795
167	33.070	VB	0.0397	2.63142e4	1.00061e4	2.20294
168	33.131	VB	0.0622	508.97507	100.27200	0.04261
169	33.251	VBA	0.1005	1668.64697	203.83247	0.13969
170	33.570	PB	0.0630	2545.43555	495.17902	0.21310
171	33.728	VB	0.0329	699.68329	342.13306	0.05858
172	33.806	VB	0.0349	863.03186	374.22244	0.07225
173	33.915	VB	0.0302	615.33057	296.90491	0.05151
174	33.983	VB	0.0352	1368.53906	609.20459	0.11457
175	34.054	VB	0.0148	86.90604	86.02091	0.00728
176	34.119	VB	0.0373	2264.44165	934.42041	0.18957
177	34.217	VB	0.0320	409.19260	177.01535	0.03426
178	34.314	VBA	0.2506	1008.15967	67.04094	0.08440
179	34.535	PB	0.0397	2.61096e4	9622.52051	2.18581
180	34.633	VB	0.0434	1614.07629	465.91183	0.13513
181	34.754	VB	0.0540	1170.70386	272.97012	0.09801
182	34.885	VB	0.0284	219.46083	109.38522	0.01837
183	35.014	VB	0.0680	2818.93872	514.11322	0.23599
184	35.176	VB	0.0264	507.64191	276.80948	0.04250
185	35.242	VB	0.0286	211.64572	109.07877	0.01772
186	35.424	VB	0.0683	3821.83984	777.83264	0.31995
187	35.557	VB	0.0494	1930.41016	586.32654	0.16161
188	35.700	VB	0.0698	1063.46191	191.47169	0.08903
189	35.948	VB	0.0396	2.19536e4	8096.03857	1.83789
190	36.025	VB	0.0560	613.34882	143.20914	0.05135
191	36.215	VB	0.0471	1090.44702	288.80341	0.09129

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
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192	36.400	VB	0.0553	1934.21252	487.86331	0.16193
193	36.574	VB	0.0569	1409.60962	323.29922	0.11801
194	36.636	VB	0.0204	192.16927	156.15657	0.01609
195	36.740	VB	0.0405	700.56415	277.14655	0.05865
196	36.807	VB	0.0273	421.98776	231.19193	0.03533
197	36.871	VB	0.0316	648.97986	307.42224	0.05433
198	36.940	VB	0.0273	482.68549	277.75000	0.04041
199	37.004	VB	0.0398	1917.26929	727.24323	0.16051
200	37.122	VB	0.0338	940.09650	424.37445	0.07870
201	37.314	VB	0.0383	1.87175e4	7464.62793	1.56697
202	37.396	VB	0.0379	438.81924	150.95242	0.03674
203	37.500	VB	0.0406	2399.51001	913.71381	0.20088
204	37.555	VB	0.0198	99.75487	73.49759	0.00835
205	37.660	VB	0.0373	411.41006	139.73317	0.03444
206	37.743	VB	0.0677	1970.87085	405.86435	0.16500
207	37.920	VB	0.0279	218.38847	116.20631	0.01828
208	37.991	VB	0.0434	3731.48096	1386.56409	0.31239
209	38.080	VB	0.0292	435.16003	218.57913	0.03643
210	38.190	VB	0.0410	829.61060	254.92615	0.06945
211	38.275	VB	0.0223	360.44003	217.68503	0.03017
212	38.337	VB	0.0391	986.41077	337.90958	0.08258
213	38.447	VB	0.0461	1897.16980	565.61609	0.15883
214	38.631	VB	0.0387	1.73238e4	6375.18604	1.45029
215	38.817	VB	0.0538	775.06226	185.28314	0.06489
216	38.952	VB	0.0512	657.44501	165.94513	0.05504
217	39.044	VB	0.0604	1774.42139	367.27151	0.14855
218	39.221	VB	0.0551	1762.76929	446.40555	0.14757
219	39.373	VB	0.0203	86.47638	70.51441	0.00724
220	39.447	VB	0.0406	1806.57324	575.59479	0.15124
221	39.553	VB	0.0430	1805.32336	680.20557	0.15114
222	39.676	VB	0.0533	1202.43762	290.17017	0.10066
223	39.836	VB	0.0357	5002.21484	2358.65576	0.41877
224	39.906	VB	0.0354	1.09260e4	5026.83740	0.91469
225	39.982	VB	0.0373	1694.91125	782.79926	0.14189
226	40.120	VB	0.0366	456.11057	158.20593	0.03818
227	40.276	VB	0.0517	1793.65002	447.74030	0.15016
228	40.404	VB	0.0476	1188.39465	378.68463	0.09949
229	40.546	VB	0.0515	945.66858	223.04102	0.07917
230	40.686	VB	0.0329	447.23053	209.96674	0.03744
231	40.816	VB	0.0229	168.00632	116.29723	0.01406
232	40.905	VB	0.0422	7371.46143	2674.19092	0.61712
233	41.027	VB	0.0435	1801.12207	666.08551	0.15078
234	41.140	VB	0.0414	1.00806e4	3995.98584	0.84391
235	41.238	VB	0.0373	342.12555	123.76475	0.02864
236	41.501	BBA	0.0980	1845.35974	231.59235	0.15449
237	41.895	PB	0.0522	855.72803	202.71500	0.07164
238	42.026	VB	0.0421	644.85626	202.57693	0.05399
239	42.147	VB	0.0470	6572.65479	2193.70801	0.55024
240	42.334	VB	0.0561	1.36637e4	3384.89062	1.14388
241	42.405	VB	0.0365	597.13916	253.75618	0.04999
242	42.492	VB	0.0255	118.53390	70.78936	0.00992
243	42.548	VB	0.0285	232.13872	115.40516	0.01943
244	42.674	VBA	0.0945	2496.13745	336.71805	0.20897

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
245	42.940	BB	0.0344	365.38873	150.27417	0.03059
246	43.131	VB	0.0464	4423.15283	1458.53723	0.37029
247	43.223	VB	0.0328	786.46973	308.33652	0.06584
248	43.328	VB	0.0397	2517.90991	925.80023	0.21079
249	43.419	VB	0.0299	278.63626	141.88538	0.02333
250	43.496	VBA	0.0438	6355.12354	2195.07275	0.53203
251	43.639	BB	0.0439	580.15289	199.45155	0.04857
252	43.827	VBA	0.1182	2057.64771	208.34726	0.17226
253	44.254	PB	0.0433	2861.73047	972.70197	0.23958
254	44.340	VB	0.0349	789.85663	329.98727	0.06612
255	44.529	VB	0.0395	1900.67664	751.56055	0.15912
256	44.627	VB	0.0425	5318.35693	1970.00610	0.44524
257	44.821	VB	0.0452	254.56462	75.67319	0.02131
258	44.942	VBA	0.0962	1989.34656	248.95721	0.16654
259	45.423	BBA	0.0632	3822.86377	837.57788	0.32004
260	45.760	BBA	0.0697	7378.46631	1519.41748	0.61770
261	46.709	BBA	0.0696	4518.13916	947.70667	0.37824
262	47.019	BBA	0.0605	3943.39526	969.18079	0.33013
263	47.213	PBA	0.0797	3054.62964	526.61853	0.25572
264	48.196	PBA	0.1510	1014.40906	79.93986	0.08492
265	48.477	BBA	0.0697	3115.73511	599.00854	0.26084
266	50.182	BBA	0.0825	3162.86353	508.98627	0.26479
267	52.191	PBA	0.0970	2151.94214	275.97333	0.18015
268	54.578	PBA	0.1173	2305.65527	248.32701	0.19302

Totals : 1.19450e6 3.87828e5

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Calibration Curves  
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\*\*\* End of Report \*\*\*

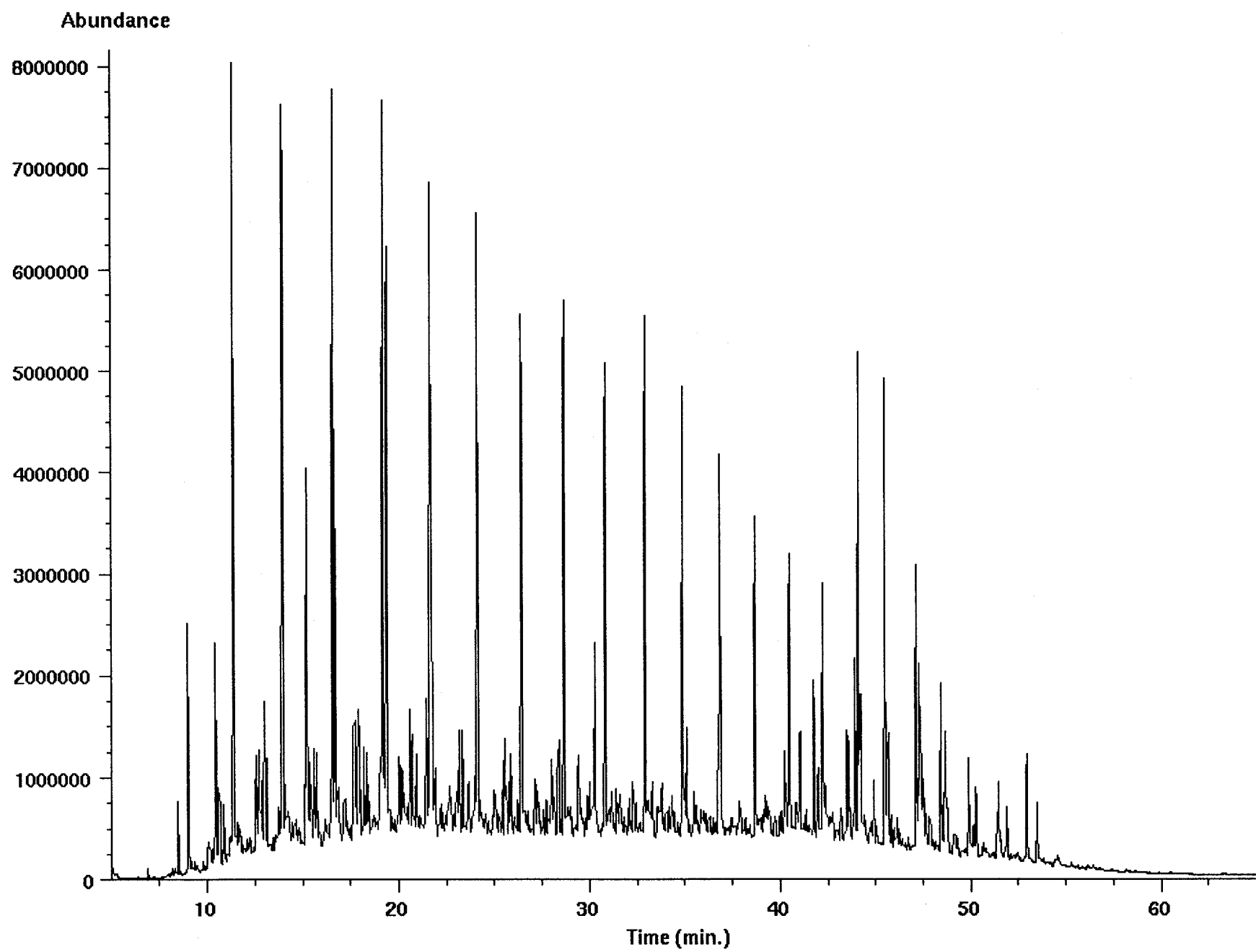
Data file: /chem/hp/A-Hess/Saxo-1-3190m.d  
File type: GC / MS DATA FILE

Name Info: Saxo-1 3190m ali  
Misc Info:  
Operator : PN

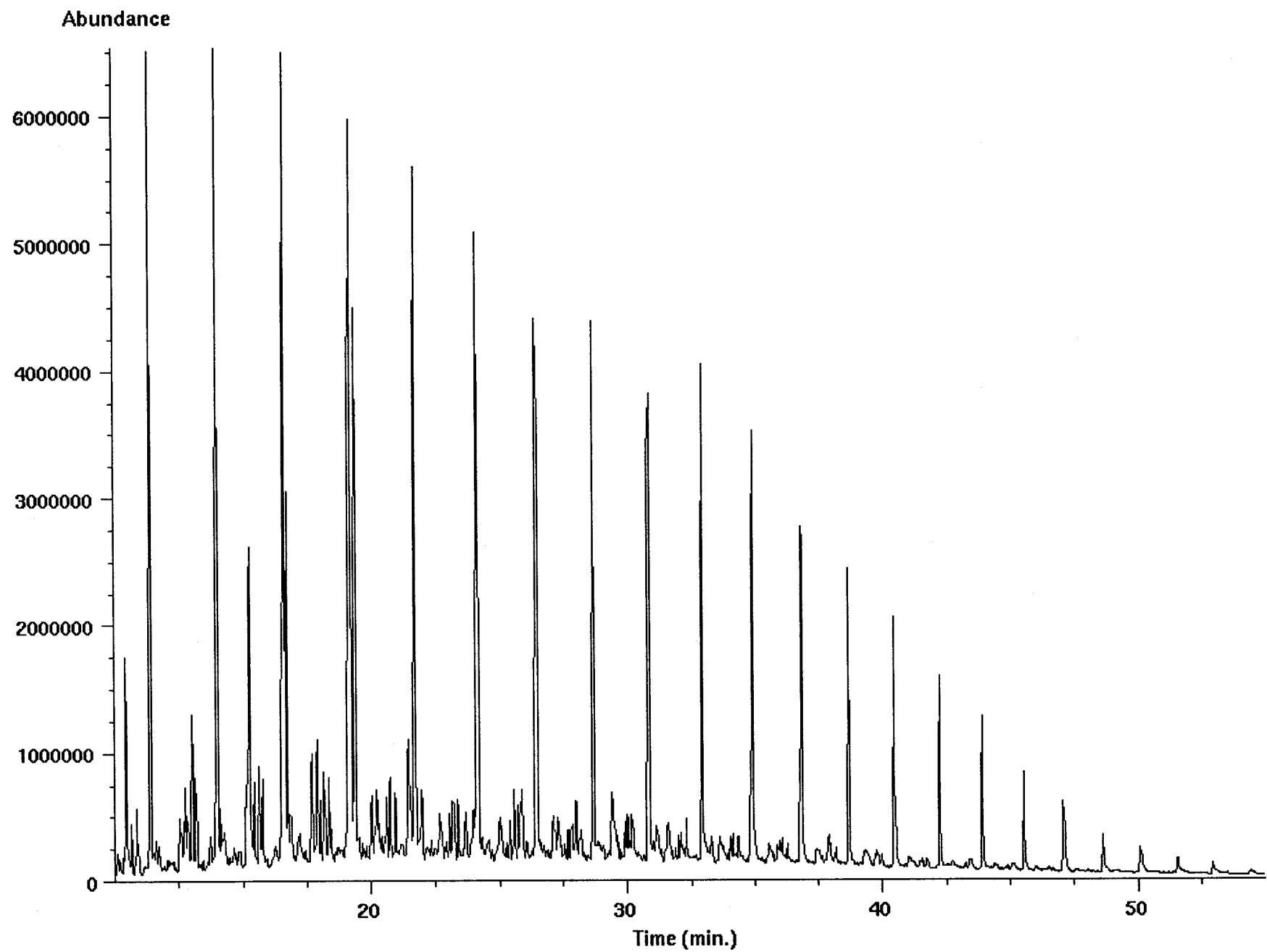
Date : Tue Jun 17 97 06:34:27 PM  
Instrment: HP5971  
Inlet : GC

Sequence index : 0  
Als bottle num : 1  
Replicate num : 1

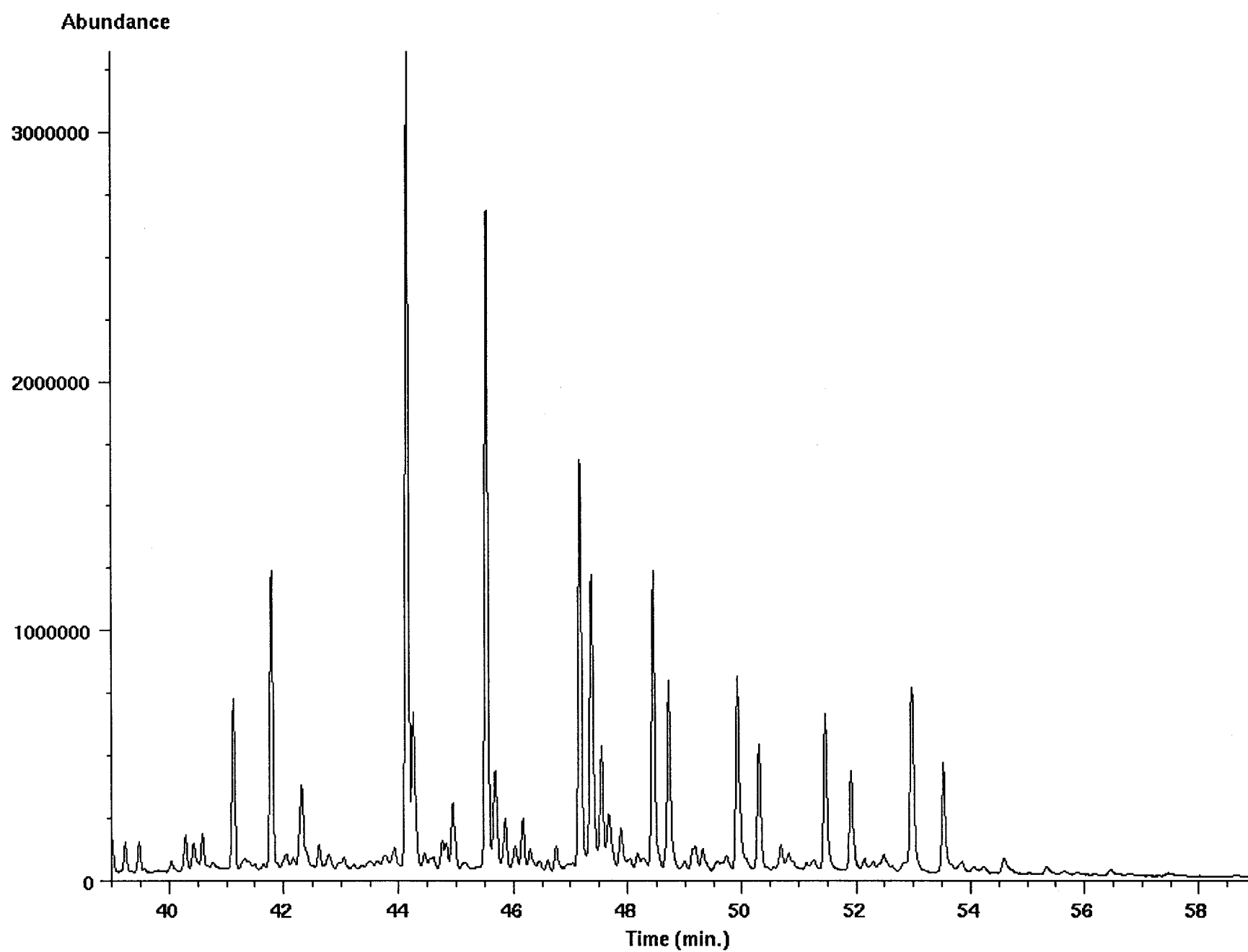
TIC of Saxo-1-3190m.d



Ion 71.20 amu from Saxo-1-3190m.d

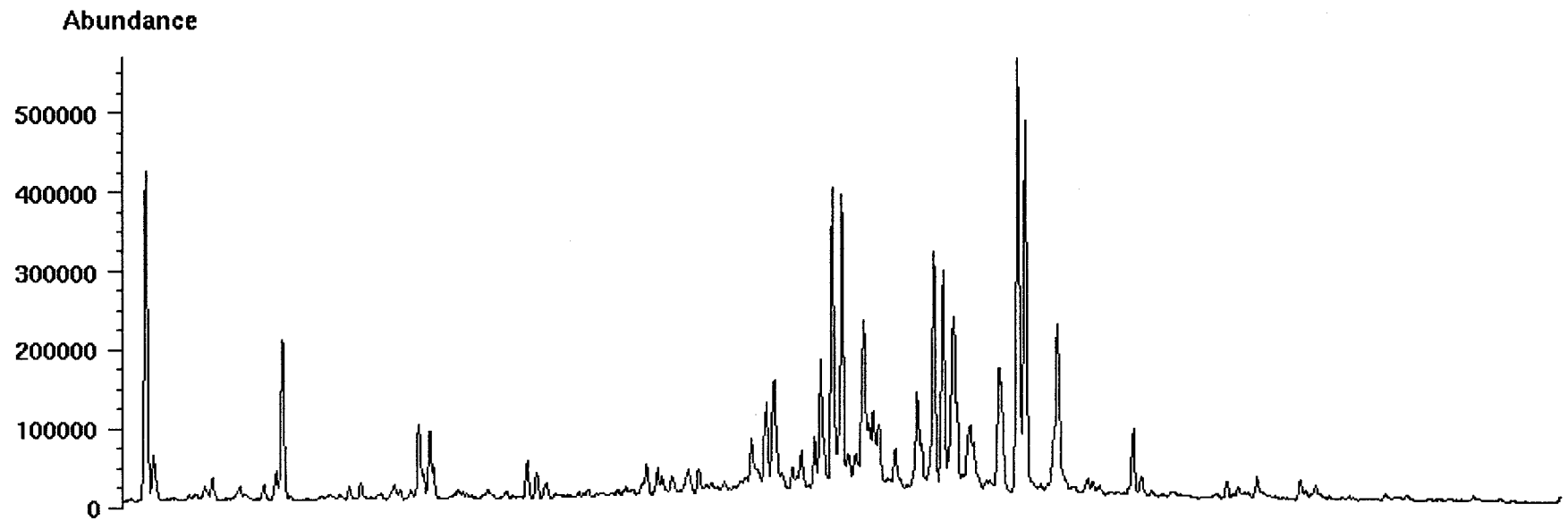


Ion 191.20 amu from Saxo-1-3190m.d

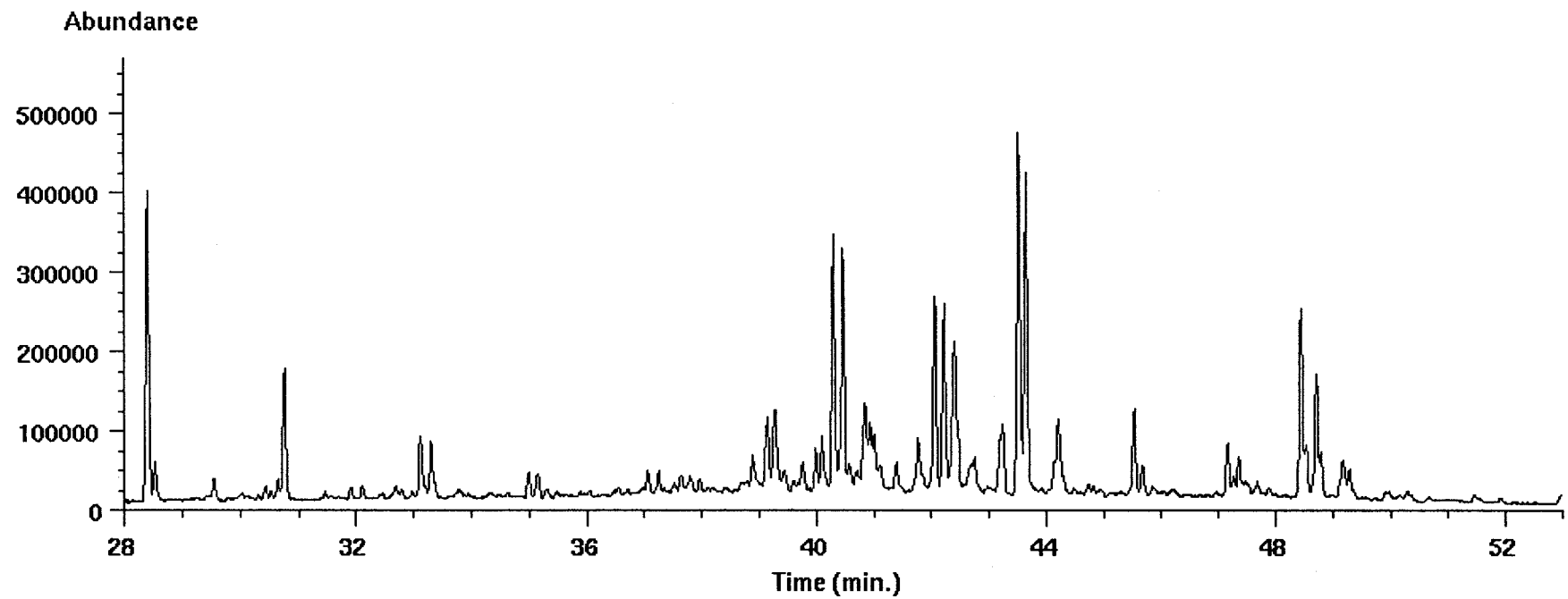




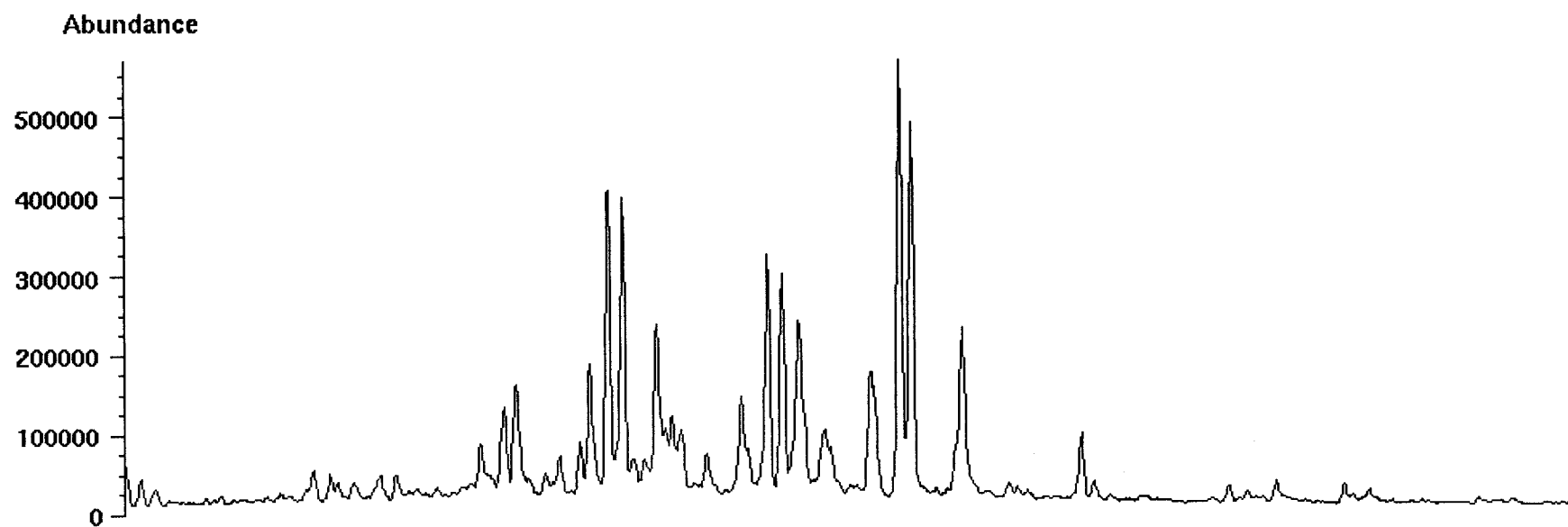
Ion 217.20 amu from Saxo-1-3190m.d



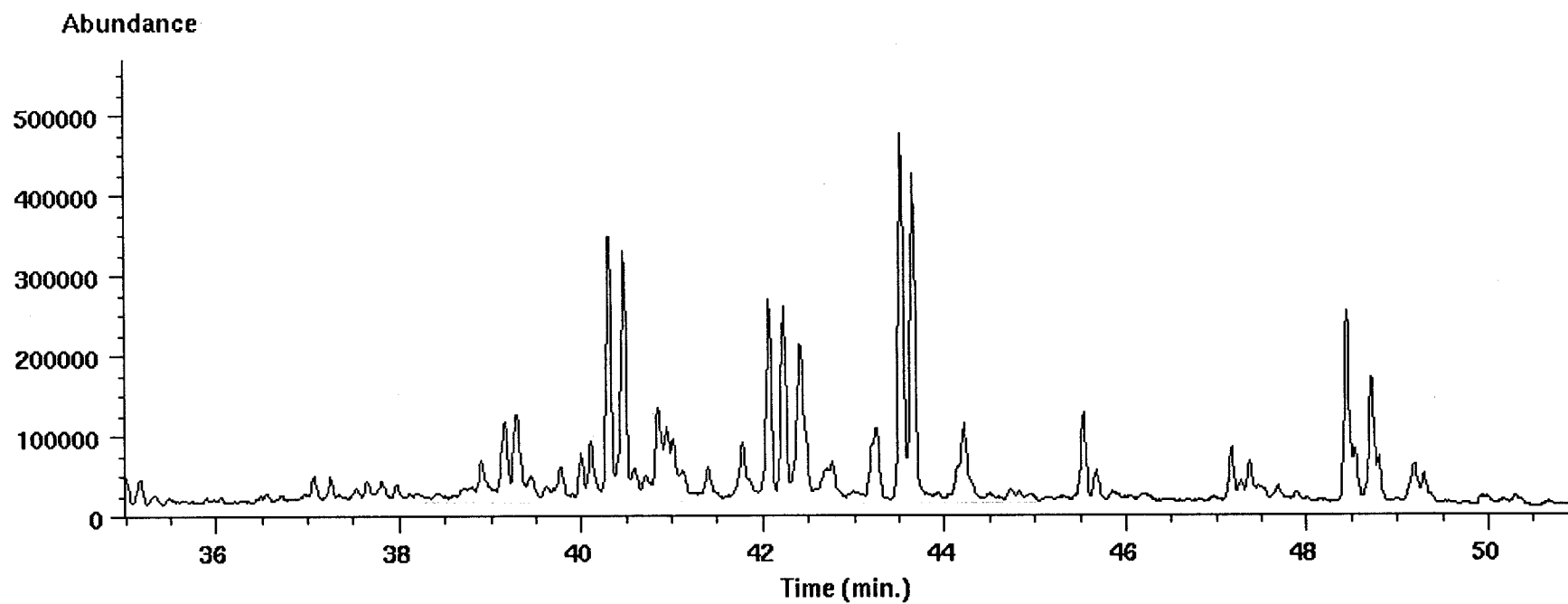
Ion 218.20 amu from Saxo-1-3190m.d



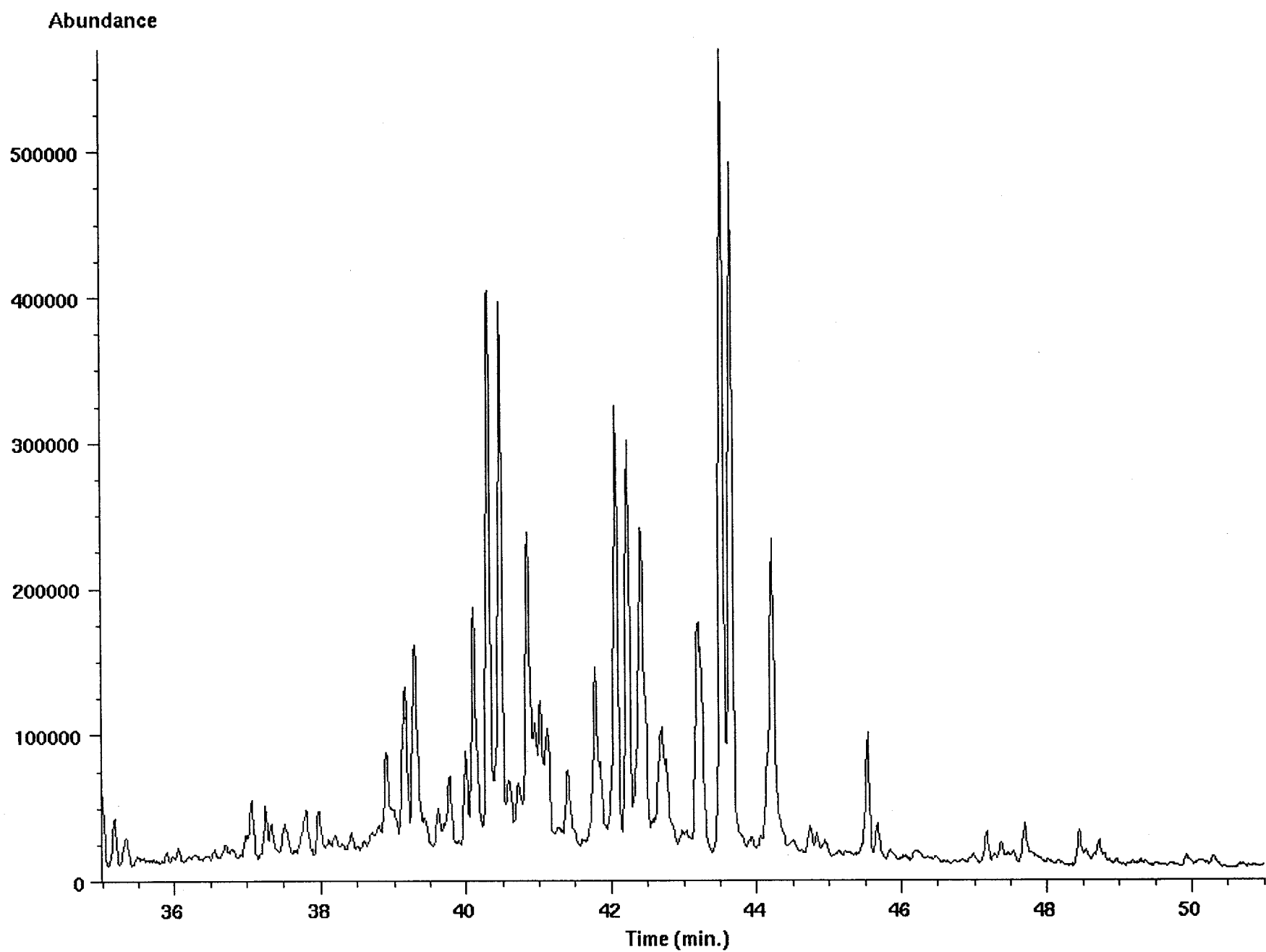
Ion 217.20 amu from Saxo-1-3190m.d



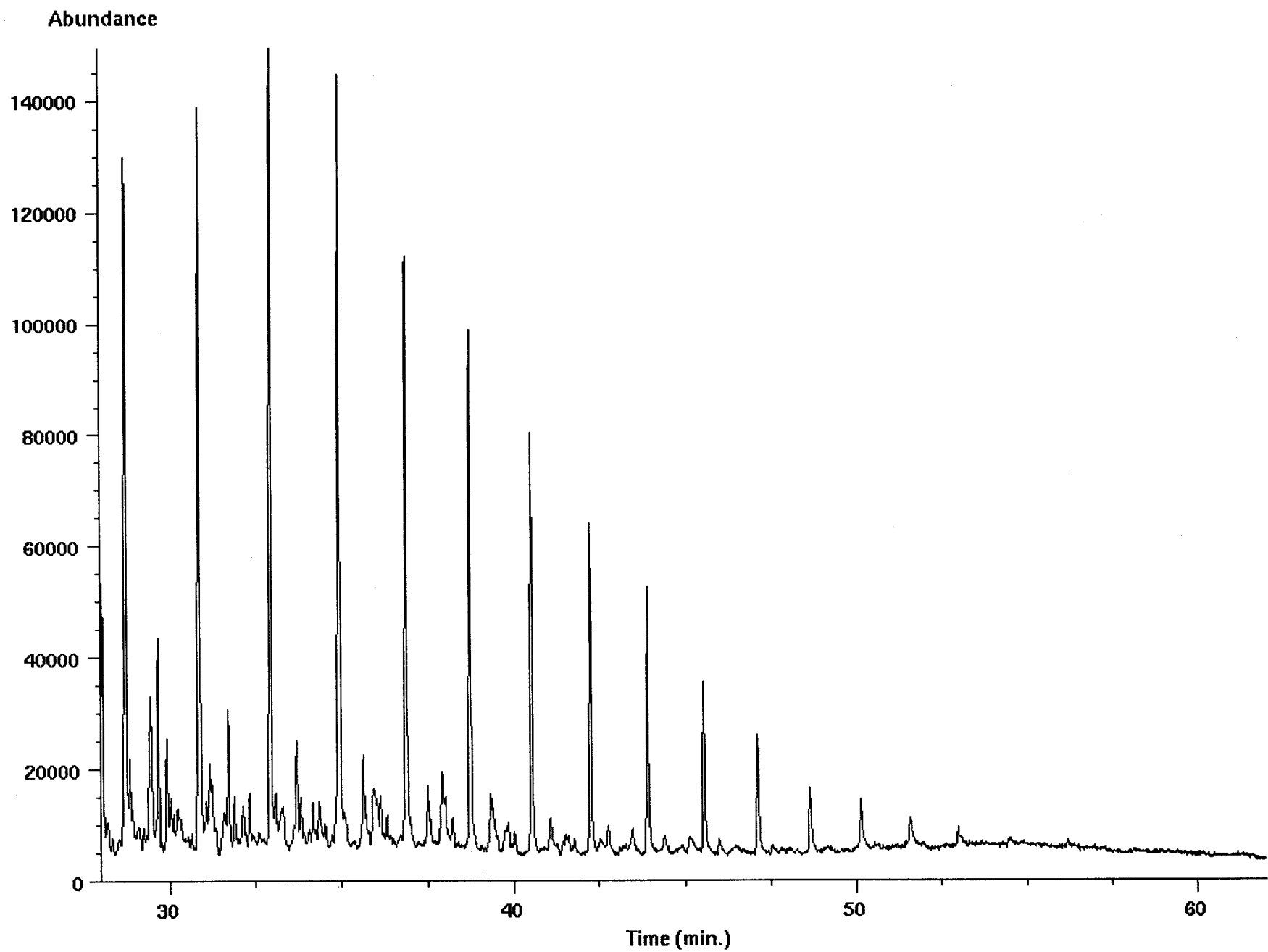
Ion 218.20 amu from Saxo-1-3190m.d



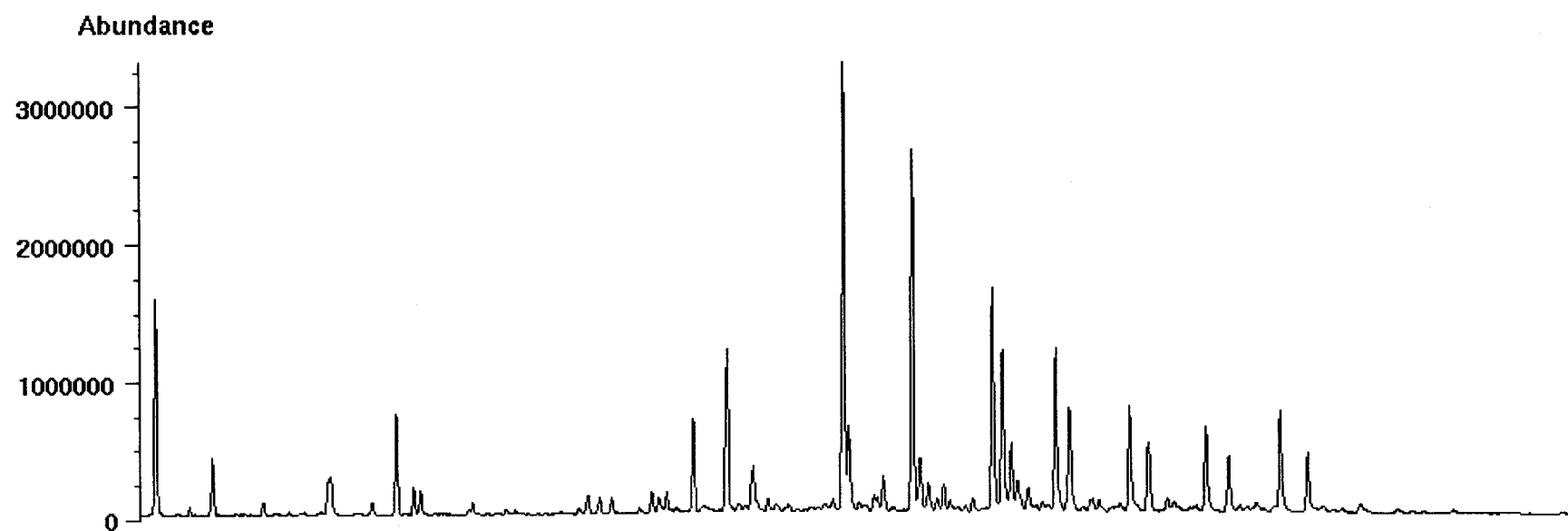
Ion 217.20 amu from Saxo-1-3190m.d



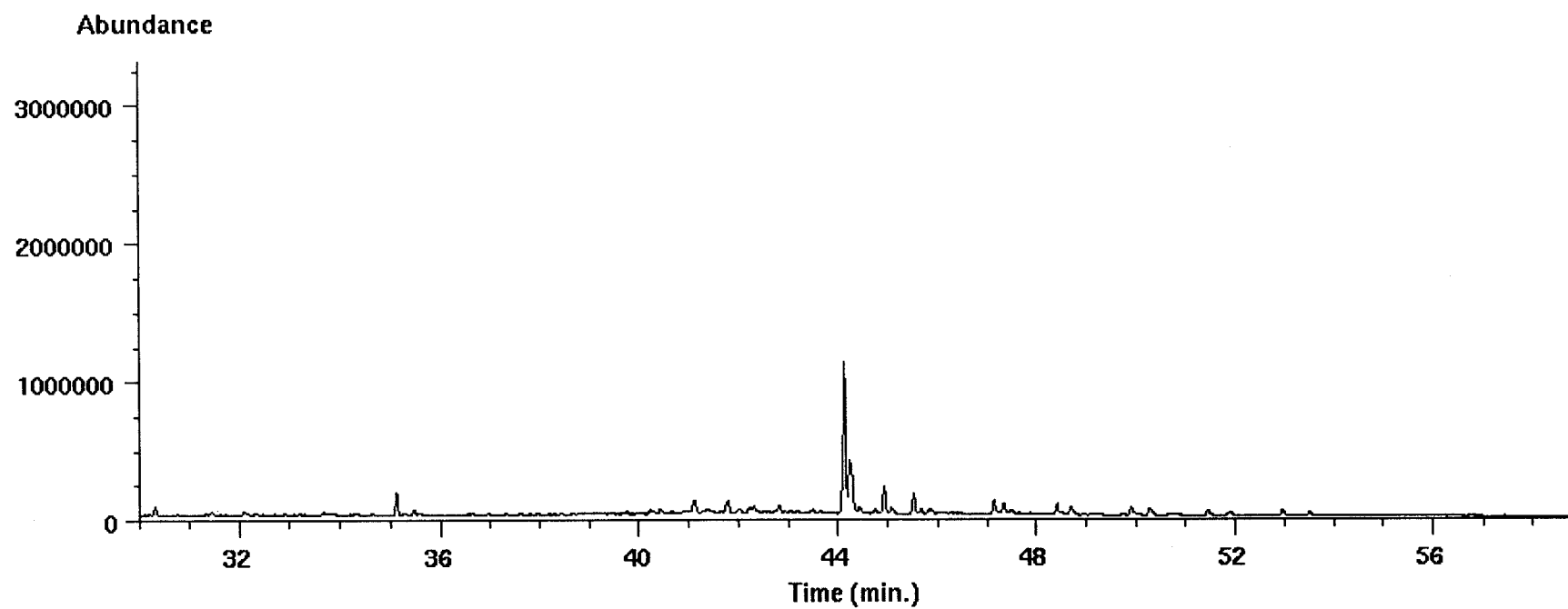
Ion 253.10 amu from Saxo-1-3190m.d



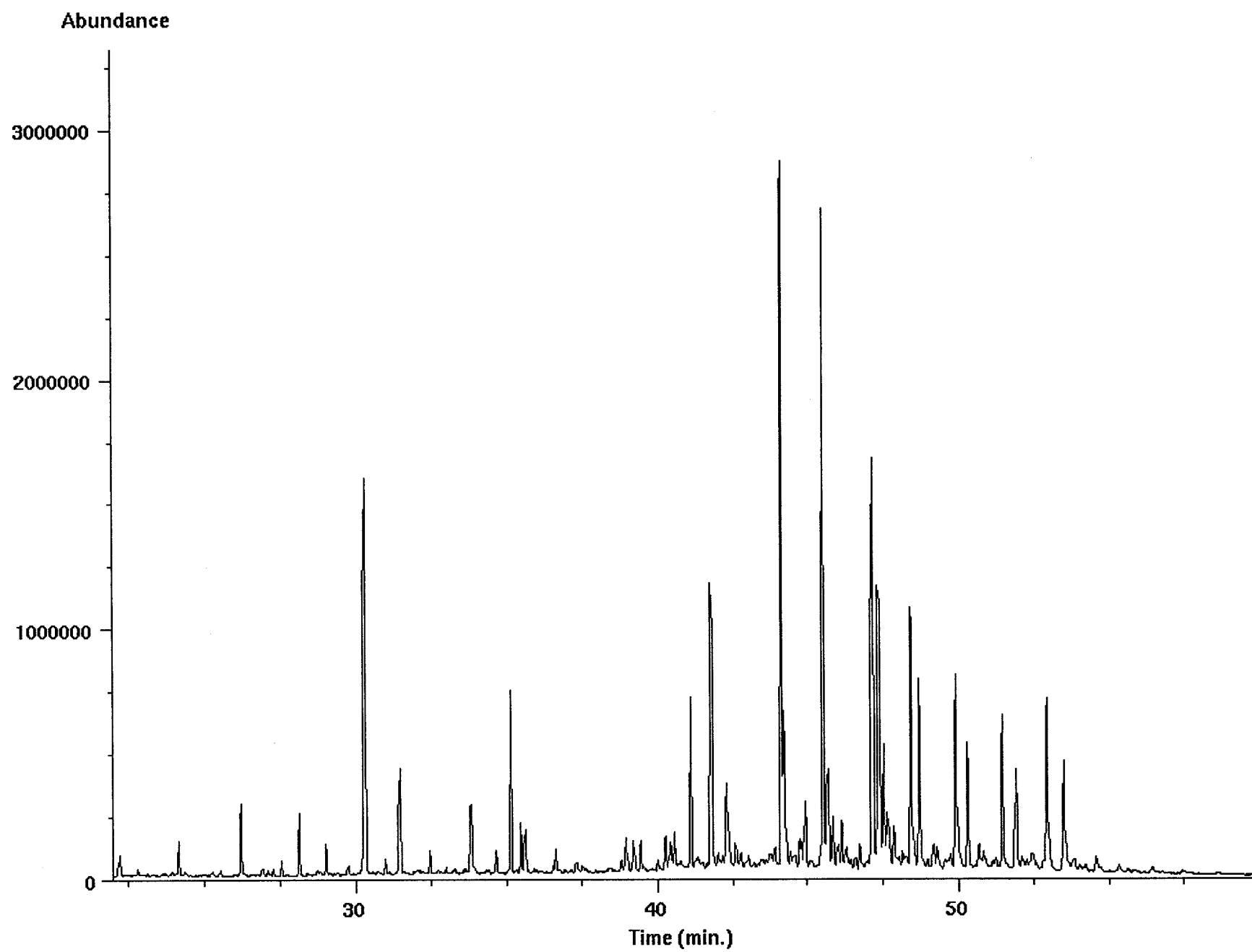
Ion 191.20 amu from Saxo-1-3190m.d



Ion 177.20 amu from Saxo-1-3190m.d



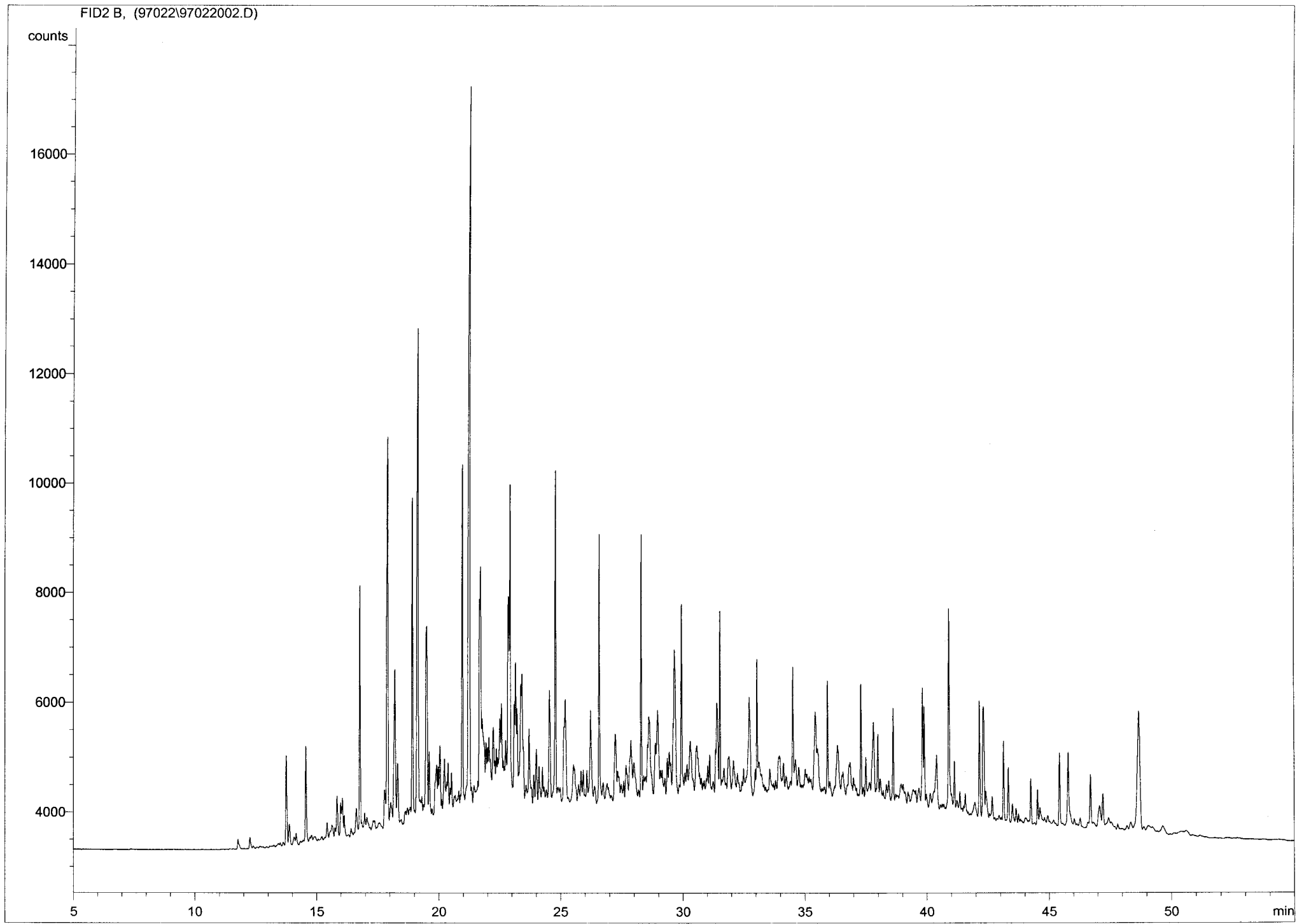
Ion 191.20 amu from Saxo-1-3190m.d



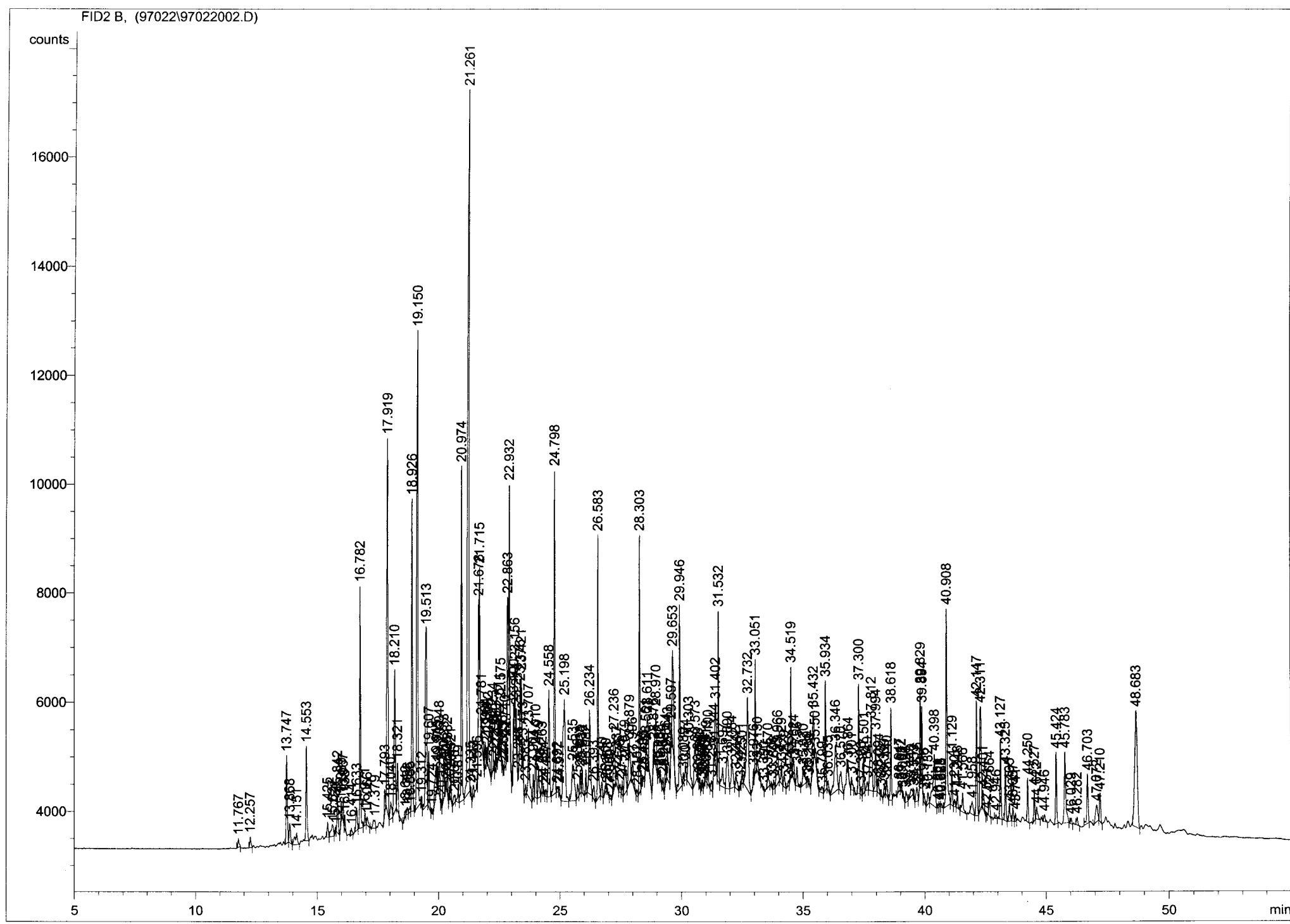
97022-16, Saxo-1, 3208m, cuttings, ali: 1.0 mg, kørt d.  
13. juni 1997.

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=====
Injection Date   : 13-06-97 11:53:20           Seq. Line :    2
Sample Name     : 3208m                       Vial       :    2
Acq. Operator   : DD                          Inj        :    1
                                           Inj Volume : 1 µl

Acq. Method     : C:\HPCHEM\1\METHODS\GCN(1A).M
Last changed    : 17-04-97 15:04:07 by DD
Analysis Method : C:\HPCHEM\1\METHODS\GCN(1A).M
Last changed    : 24-06-97 11:44:12 by PN
                  (modified after loading)
Metode baseret på Norsk Industristandard
```







=====  
Normalized Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000  
Uncalibrated Peaks : not reported

=====  
Area Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000

Signal 1: FID2 B,  
Results obtained with enhanced integrator!

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
1	11.767	PBA	0.0966	1193.22400	160.69846	0.18469
2	12.257	PBA	0.0885	1335.92615	201.03342	0.20678
3	13.747	PB	0.0484	5040.11475	1614.04041	0.78012
4	13.868	VB	0.0531	1307.71912	353.80087	0.20241
5	14.151	VBA	0.1284	2203.70459	215.35526	0.34109
6	14.553	BBA	0.0506	5886.00293	1733.95605	0.91105
7	15.425	BB	0.0499	902.68805	278.21814	0.13972
8	15.627	VB	0.0844	1493.09375	219.43758	0.23110
9	15.751	VB	0.0358	242.46332	109.47173	0.03753
10	15.842	VBA	0.0639	2995.96045	686.66943	0.46372
11	15.989	BB	0.0337	713.32391	350.91965	0.11041
12	16.067	VB	0.0377	1043.64868	423.62317	0.16154
13	16.138	VBA	0.0678	1302.16736	262.97098	0.20155
14	16.414	PBA	0.1080	1145.36169	132.30269	0.17728
15	16.633	BB	0.0567	1572.62585	410.61902	0.24341
16	16.782	VB	0.0400	1.14209e4	4438.10742	1.76775
17	16.971	VB	0.0406	631.74731	240.93526	0.09778
18	17.066	VBA	0.1200	1416.56348	151.58867	0.21926
19	17.379	PBA	0.1354	1712.52246	150.88077	0.26507
20	17.793	PB	0.0446	1287.07300	434.52151	0.19922
21	17.919	VB	0.0499	2.23521e4	6886.22754	3.45970
22	18.040	VB	0.0593	1388.58081	310.02527	0.21493
23	18.210	VB	0.0579	1.01976e4	2594.37158	1.57840
24	18.321	VBA	0.0590	3326.41504	882.97937	0.51487
25	18.642	BB	0.0444	377.10382	109.01379	0.05837
26	18.728	VB	0.0451	399.27847	125.59676	0.06180
27	18.835	VB	0.0420	346.23560	106.28046	0.05359
28	18.926	VBA	0.0430	1.57384e4	5730.01270	2.43602
29	19.150	BBA	0.0634	3.32891e4	8749.38965	5.15255
30	19.312	BB	0.0303	347.63480	182.17609	0.05381
31	19.513	VB	0.0635	1.51611e4	3246.33765	2.34667
32	19.607	VB	0.0430	2814.11816	1025.39502	0.43557

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
----	-----	----	-----	-----	-----	-----
33	19.724	VB	0.0313	197.84853	99.21923	0.03062
34	19.915	VB	0.0729	3009.04565	532.79681	0.46575
35	19.975	VB	0.0294	662.45050	378.32953	0.10254
36	20.048	VB	0.0510	2660.73291	886.59650	0.41183
37	20.122	VB	0.0232	211.63358	143.17570	0.03276
38	20.233	VB	0.0462	2438.67773	725.75159	0.37746
39	20.326	VB	0.0290	218.24138	121.12374	0.03378
40	20.382	VB	0.0350	1219.24219	568.15088	0.18872
41	20.464	VB	0.0301	372.05084	196.78897	0.05759
42	20.521	VB	0.0355	1061.49231	486.19543	0.16430
43	20.670	VB	0.0629	728.28479	144.20404	0.11273
44	20.819	VB	0.0442	717.22687	219.22691	0.11101
45	20.974	VB	0.0430	1.68600e4	6144.16016	2.60962
46	21.261	VB	0.0551	5.20666e4	1.28926e4	8.05897
47	21.335	VB	0.0337	387.88538	142.65953	0.06004
48	21.443	VBA	0.0900	1594.61243	213.90077	0.24682
49	21.596	PB	0.0220	190.77431	130.67183	0.02953
50	21.678	VB	0.0252	1140.54797	822.84894	0.17654
51	21.715	VB	0.0279	2528.24365	1564.60205	0.39133
52	21.781	VB	0.0748	1807.38342	320.24265	0.27975
53	21.934	VB	0.0358	1049.40869	456.95532	0.16243
54	21.994	VB	0.0222	379.41681	273.58939	0.05873
55	22.052	VB	0.0474	1798.09668	519.41309	0.27831
56	22.234	VB	0.0600	2843.55566	808.83972	0.44013
57	22.298	VB	0.0197	195.76656	155.28777	0.03030
58	22.360	VB	0.0336	769.52960	397.32965	0.11911
59	22.411	VB	0.0184	191.64648	155.40498	0.02966
60	22.511	VB	0.0363	1297.77087	553.64935	0.20087
61	22.575	VB	0.0350	1976.56885	923.03357	0.30594
62	22.636	VB	0.0214	219.29723	155.78619	0.03394
63	22.683	VB	0.0159	80.47990	72.92989	0.01246
64	22.740	VB	0.0329	1073.65393	502.41391	0.16618
65	22.863	VB	0.0428	4784.07764	1605.97095	0.74049
66	22.932	VB	0.0260	5519.89160	3799.16235	0.85438
67	23.100	VB	0.0142	275.34137	622.66205	0.04262
68	23.156	VB	0.0302	2316.18359	1216.98328	0.35850
69	23.214	VB	0.0355	1499.78174	713.58826	0.23214
70	23.283	VB	0.0136	43.98433	53.42430	0.00681
71	23.376	VB	0.0239	657.43762	482.17355	0.10176
72	23.421	VB	0.0282	1354.84546	783.96136	0.20971
73	23.473	VB	0.0231	324.10580	235.51434	0.05017
74	23.585	VB	0.0420	535.19183	178.18259	0.08284
75	23.707	VB	0.0579	5102.00879	1243.80505	0.78970
76	23.904	VB	0.0424	1270.06140	457.76178	0.19658
77	24.010	VB	0.0484	2932.80933	891.03699	0.45395
78	24.119	VB	0.0443	1794.96606	593.03168	0.27783
79	24.263	VB	0.0355	1140.39551	484.64618	0.17651
80	24.324	VBA	0.1135	1081.63733	118.46481	0.16742
81	24.427	BB	0.0395	378.13004	135.91431	0.05853
82	24.558	VB	0.0616	7486.04541	1958.33459	1.15870
83	24.798	VB	0.0410	1.57699e4	5935.59814	2.44089
84	24.892	VB	0.0426	322.31528	105.59503	0.04989
85	24.977	VB	0.0389	374.13312	136.82224	0.05791

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
----	-----	----	-----	-----	-----	-----
86	25.198	VBA	0.0919	1.30011e4	1875.14465	2.01234
87	25.535	BB	0.0941	5000.01660	669.39288	0.77391
88	25.736	VB	0.0481	865.59009	258.48990	0.13398
89	25.838	VB	0.0411	1136.76770	425.91180	0.17595
90	25.932	VB	0.0375	1106.01721	437.93460	0.17119
91	26.082	VB	0.0352	1030.63464	441.31058	0.15952
92	26.234	VB	0.0560	6485.56689	1544.03210	1.00385
93	26.393	VB	0.0537	1027.91443	246.38654	0.15910
94	26.583	VB	0.0414	1.25944e4	4833.24463	1.94939
95	26.740	VB	0.0450	946.97644	269.52188	0.14657
96	26.900	VB	0.0499	620.46246	161.27182	0.09604
97	26.958	VBA	0.1691	964.25464	67.74297	0.14925
98	27.069	BB	0.0384	229.61227	73.64194	0.03554
99	27.236	VB	0.0599	4788.80566	1018.48022	0.74122
100	27.337	VB	0.0582	1132.46960	239.54272	0.17529
101	27.478	VB	0.0371	471.76611	156.89703	0.07302
102	27.578	VB	0.0335	591.83130	260.73563	0.09160
103	27.679	VB	0.0635	2571.17432	540.14545	0.39797
104	27.879	VB	0.0645	3779.82422	780.37500	0.58505
105	27.996	VB	0.0668	1949.34583	356.53632	0.30172
106	28.182	VB	0.0372	372.71027	127.18810	0.05769
107	28.303	VB	0.0390	1.13258e4	4723.71094	1.75302
108	28.403	VB	0.0346	323.12756	159.85361	0.05001
109	28.480	VB	0.0341	224.64920	93.17693	0.03477
110	28.561	VB	0.0225	306.04498	216.94704	0.04737
111	28.611	VB	0.0556	3059.87573	691.67120	0.47361
112	28.876	VB	0.0415	1168.54285	383.72809	0.18087
113	28.970	VB	0.0572	4192.14697	1014.91632	0.64887
114	29.082	VB	0.0255	283.85504	147.22316	0.04394
115	29.150	VB	0.0342	466.55057	193.18565	0.07221
116	29.268	VB	0.0353	572.94745	236.12074	0.08868
117	29.364	VB	0.0336	1130.86072	477.62567	0.17504
118	29.443	VB	0.0597	2136.21924	501.31470	0.33065
119	29.597	VB	0.0188	293.15091	267.79590	0.04537
120	29.653	VB	0.0559	6679.41260	1698.21948	1.03385
121	29.946	VB	0.0431	9543.53906	3362.36890	1.47717
122	30.089	VB	0.0308	440.91055	185.34079	0.06824
123	30.174	VB	0.0382	832.21655	301.23782	0.12881
124	30.303	VB	0.0790	4637.99512	762.35315	0.71788
125	30.573	VB	0.0762	4360.85205	685.56378	0.67498
126	30.683	VB	0.0265	188.53479	102.21534	0.02918
127	30.759	VB	0.0275	348.69775	166.25783	0.05397
128	30.826	VB	0.0266	154.73289	87.66583	0.02395
129	30.874	VB	0.0247	198.50665	124.06474	0.03073
130	30.964	VB	0.0232	99.82144	81.81504	0.01545
131	31.019	VB	0.0307	615.58734	302.45700	0.09528
132	31.100	VB	0.0405	1352.89502	554.55707	0.20940
133	31.238	VB	0.0452	638.26514	176.38774	0.09879
134	31.344	VB	0.0214	306.39822	266.86099	0.04742
135	31.402	VB	0.0551	4355.32617	1102.47339	0.67413
136	31.532	VB	0.0406	7690.68701	3141.48242	1.19038
137	31.697	VB	0.0682	1805.46606	349.93793	0.27945
138	31.890	VB	0.0742	3635.92920	595.43585	0.56278

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
----	-----	----	-----	-----	-----	-----
139	32.084	VB	0.0682	2593.38354	510.72717	0.40141
140	32.242	VB	0.0537	1155.57422	276.94611	0.17886
141	32.429	VB	0.0201	151.56985	109.70090	0.02346
142	32.501	VB	0.0351	665.15503	286.51013	0.10295
143	32.732	VB	0.0751	9860.49902	1688.35999	1.52623
144	32.976	VB	0.0303	501.52747	250.97090	0.07763
145	33.051	VB	0.0349	4628.41309	2081.95166	0.71639
146	33.130	VBA	0.1332	1841.84741	166.27168	0.28508
147	33.390	PBA	0.1670	1014.39001	71.74049	0.15701
148	33.570	PBA	0.0743	2137.13403	354.69965	0.33079
149	33.728	PB	0.0205	147.09758	92.84112	0.02277
150	33.808	VB	0.0363	421.56760	162.36703	0.06525
151	33.966	VB	0.0768	3312.95068	523.87805	0.51278
152	34.129	VB	0.0449	1167.14746	379.23065	0.18065
153	34.229	VB	0.0471	786.47620	208.17963	0.12173
154	34.433	VB	0.0600	334.60205	86.70107	0.05179
155	34.519	VB	0.0409	5338.65820	2018.11267	0.82633
156	34.624	VB	0.0517	1360.18262	355.18628	0.21053
157	34.755	VB	0.0562	1380.20142	341.26190	0.21363
158	35.020	VB	0.0726	1761.49243	304.15454	0.27265
159	35.180	VB	0.0237	202.45883	109.05476	0.03134
160	35.259	VB	0.0360	311.15015	109.89441	0.04816
161	35.432	VB	0.0549	4420.80469	974.51508	0.68426
162	35.501	VB	0.0378	360.07718	120.69872	0.05573
163	35.799	VB	0.0697	661.39575	115.64133	0.10237
164	35.934	VB	0.0400	5328.00977	2003.16077	0.82468
165	36.035	VB	0.0459	664.52094	180.83733	0.10286
166	36.346	VB	0.0927	6329.60400	851.98016	0.97971
167	36.570	VB	0.0715	2115.35352	365.44504	0.32742
168	36.864	VB	0.0213	248.51498	167.57817	0.03847
169	37.001	VBA	0.0970	1745.82300	228.73959	0.27022
170	37.300	BB	0.0407	5103.72705	2002.00012	0.78996
171	37.396	VB	0.0361	406.89603	152.67261	0.06298
172	37.501	VB	0.0416	1873.13281	670.94812	0.28993
173	37.649	VB	0.0488	609.03644	155.08527	0.09427
174	37.812	VB	0.0680	6583.85205	1259.79553	1.01906
175	37.994	VB	0.0430	2973.81836	1052.69861	0.46029
176	38.094	VB	0.0509	937.46210	267.50510	0.14510
177	38.213	VBA	0.1121	1102.02917	120.00763	0.17057
178	38.339	BB	0.0352	584.51849	212.06944	0.09047
179	38.440	VB	0.0423	872.60645	273.26263	0.13506
180	38.618	VB	0.0397	4462.52441	1698.22583	0.69072
181	38.947	PB	0.0479	523.22455	149.17725	0.08099
182	39.032	VB	0.0315	308.81760	130.84435	0.04780
183	39.097	VB	0.0396	223.40396	71.29909	0.03458
184	39.226	VBA	0.0988	1651.85876	205.45824	0.25568
185	39.440	BB	0.0739	829.33008	138.32285	0.12837
186	39.553	VB	0.0263	259.27341	142.29845	0.04013
187	39.676	VB	0.0630	1232.18848	252.23981	0.19072
188	39.829	VB	0.0419	4173.03516	1629.51660	0.64591
189	39.894	VB	0.0339	2743.86328	1341.45178	0.42470
190	39.976	VB	0.0419	491.69965	155.43364	0.07611
191	40.132	VB	0.0515	872.89563	219.18030	0.13511

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
192	40.398	VB	0.0774	6081.74902	953.73163	0.94134
193	40.551	VB	0.0332	158.87936	70.87817	0.02459
194	40.628	VB	0.0294	145.54630	64.29757	0.02253
195	40.688	VB	0.0382	186.08687	67.43764	0.02880
196	40.908	VB	0.0515	1.25798e4	3624.95312	1.94713
197	41.129	VB	0.0386	2080.33984	821.13361	0.32200
198	41.230	VB	0.0396	410.83414	127.31010	0.06359
199	41.348	VB	0.0377	944.51855	317.81277	0.14619
200	41.566	VBA	0.0826	2268.46265	349.89273	0.35112
201	41.958	BBA	0.1128	2130.03149	230.46315	0.32969
202	42.147	BB	0.0432	6184.41504	2108.44287	0.95724
203	42.311	VB	0.0720	8219.38965	1880.74170	1.27221
204	42.401	VB	0.0565	1247.01709	306.38910	0.19302
205	42.551	VBA	0.1593	892.41339	67.05021	0.13813
206	42.664	BBA	0.0706	1936.57263	379.25916	0.29975
207	42.946	PBA	0.1575	962.49158	72.68749	0.14898
208	43.127	BBA	0.0493	4731.33887	1440.56848	0.73233
209	43.325	BBA	0.0555	3689.10327	989.29041	0.57101
210	43.495	PB	0.0514	1206.44666	332.28845	0.18674
211	43.637	VB	0.0453	761.70465	244.78264	0.11790
212	43.741	VBA	0.0926	1114.56677	151.99332	0.17251
213	44.250	BBA	0.0524	3005.07935	808.69281	0.46513
214	44.527	PB	0.0413	1575.42395	587.89471	0.24385
215	44.622	VBA	0.0941	1657.05957	222.01712	0.25648
216	44.946	PBA	0.1245	1266.48560	124.69437	0.19603
217	45.424	PBA	0.0536	4686.89600	1313.96692	0.72545
218	45.783	BBA	0.0721	6393.68555	1307.27612	0.98963
219	46.029	PBA	0.1185	1105.83923	111.67846	0.17116
220	46.282	BBA	0.1006	1222.38733	146.07864	0.18920
221	46.703	BBA	0.0626	4024.56226	910.17645	0.62293
222	47.072	PB	0.0743	1827.21118	311.94421	0.28282
223	47.210	VB	0.0483	1774.44666	527.43530	0.27465
224	48.683	BBA	0.0957	1.62999e4	2143.02588	2.52293

Totals : 6.46070e5 1.84828e5

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=====  
Calibration Curves  
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\*\*\* End of Report \*\*\*

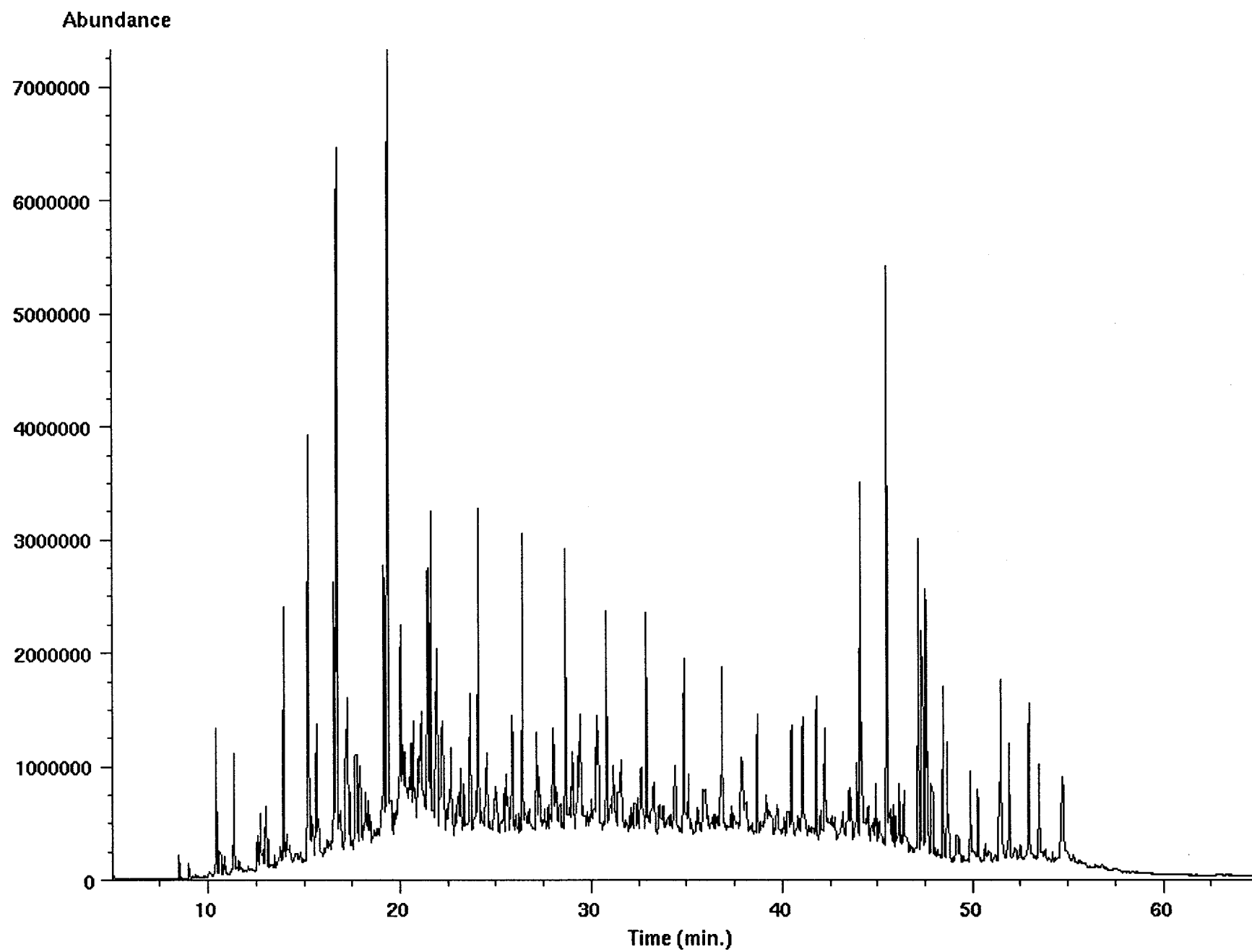
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File type: GC / MS DATA FILE

Name Info: Saxo-1 3208 ali  
Misc Info:  
Operator : PN

Date : Tue Jun 17 97 08:16:36 PM  
Instrment: HP5971  
Inlet : GC

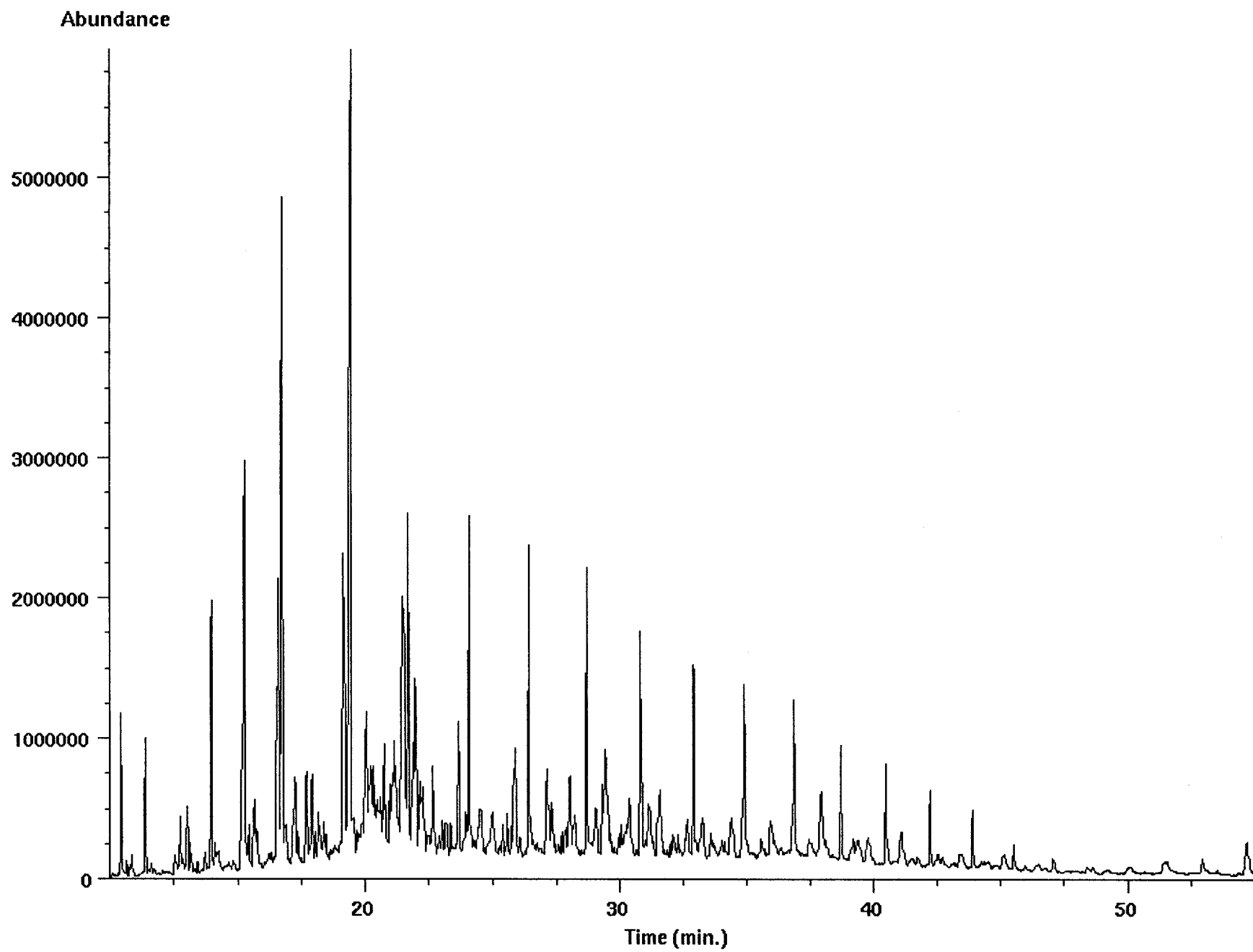
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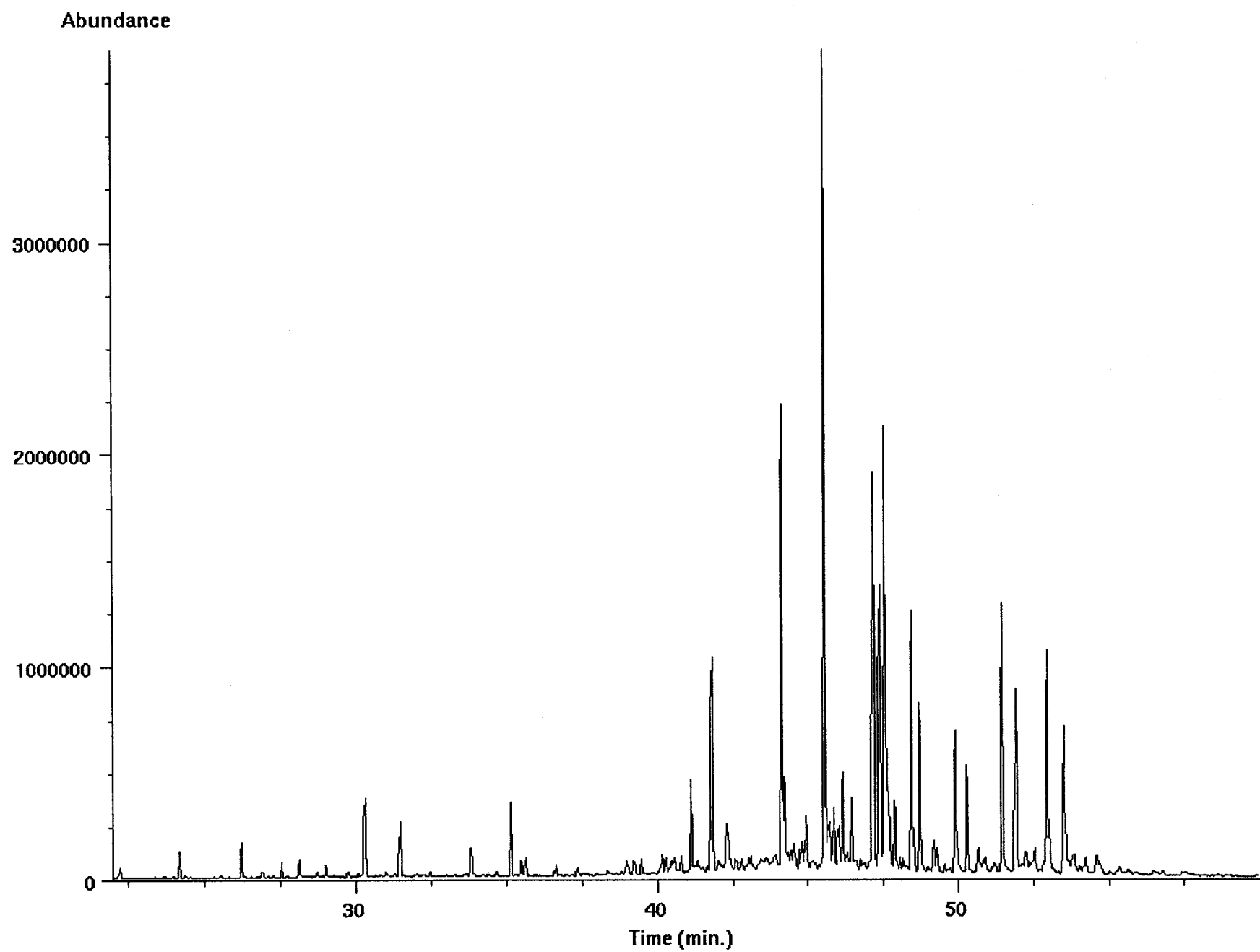




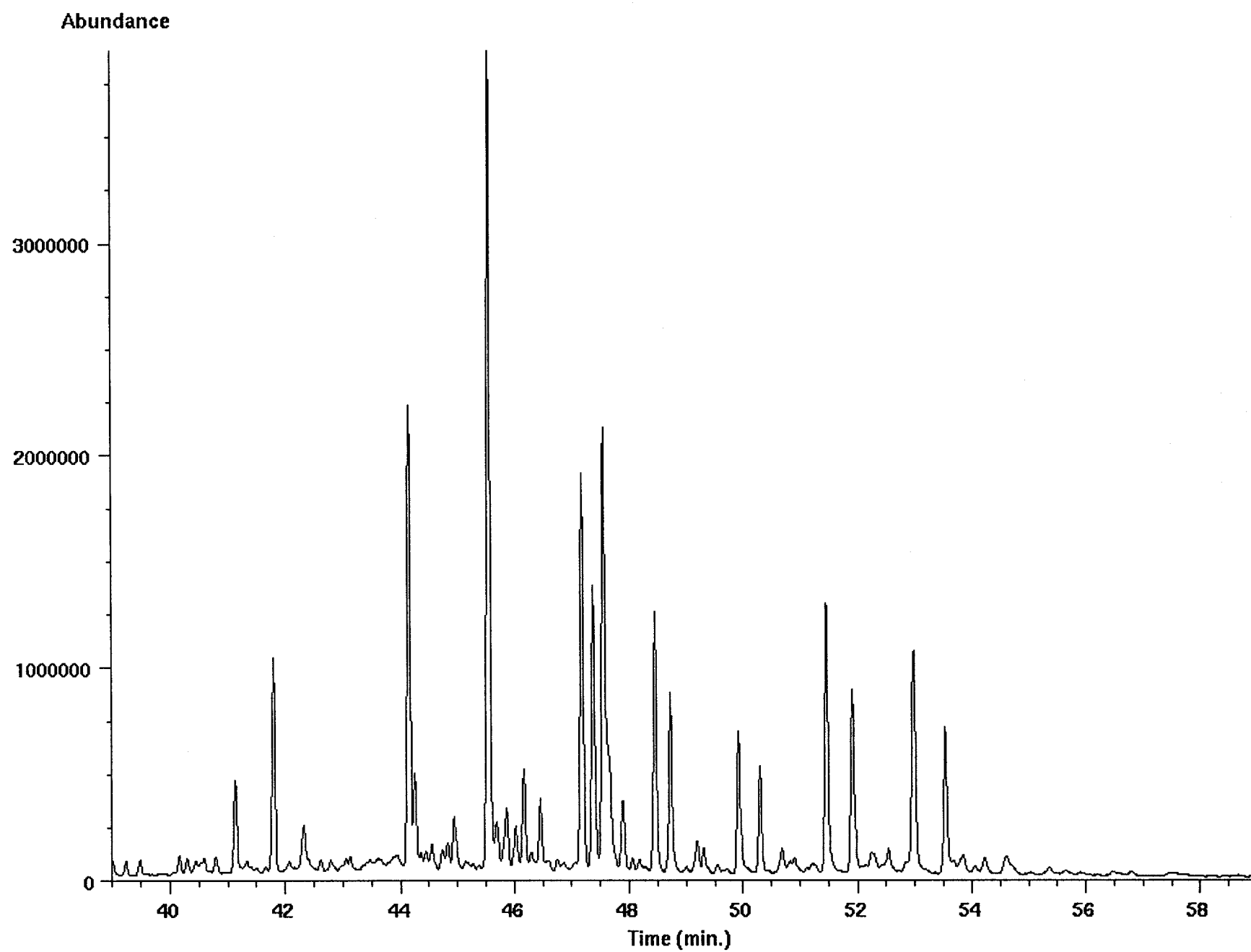
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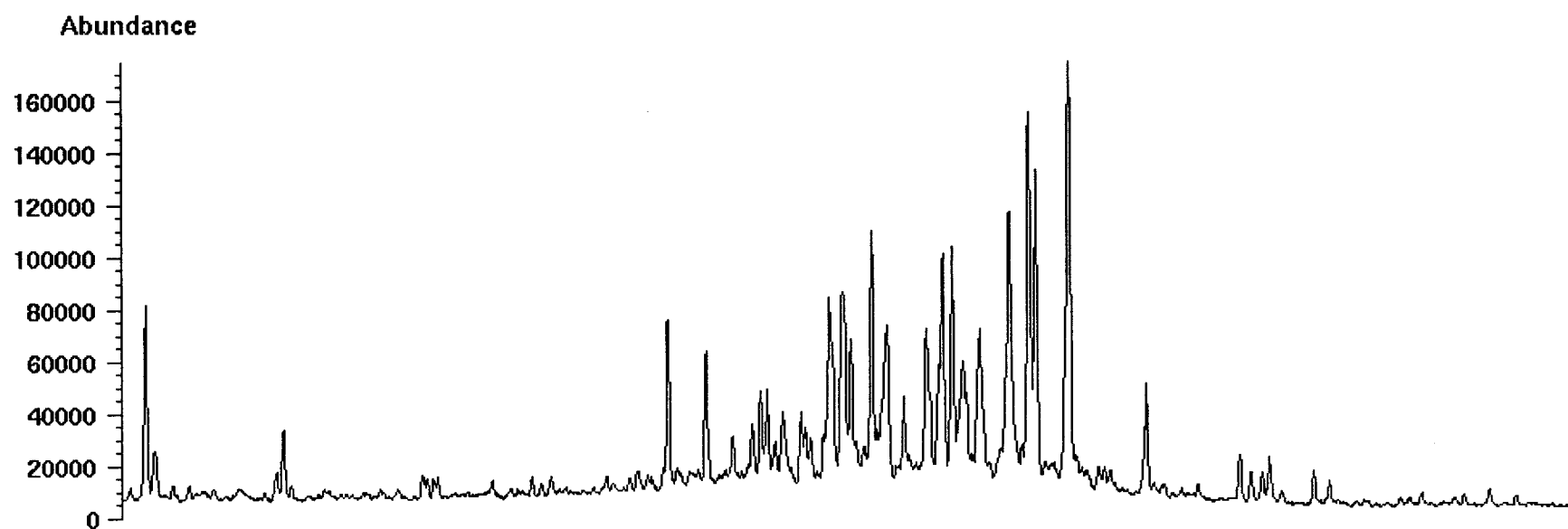
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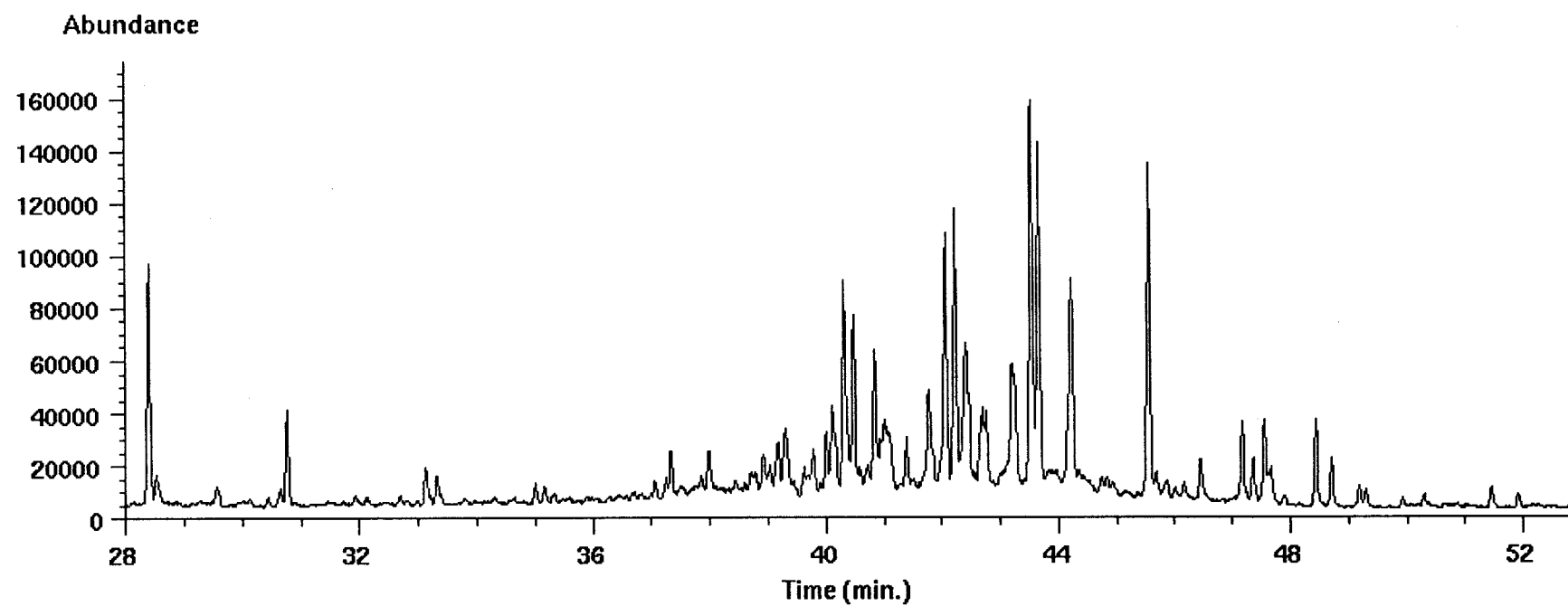
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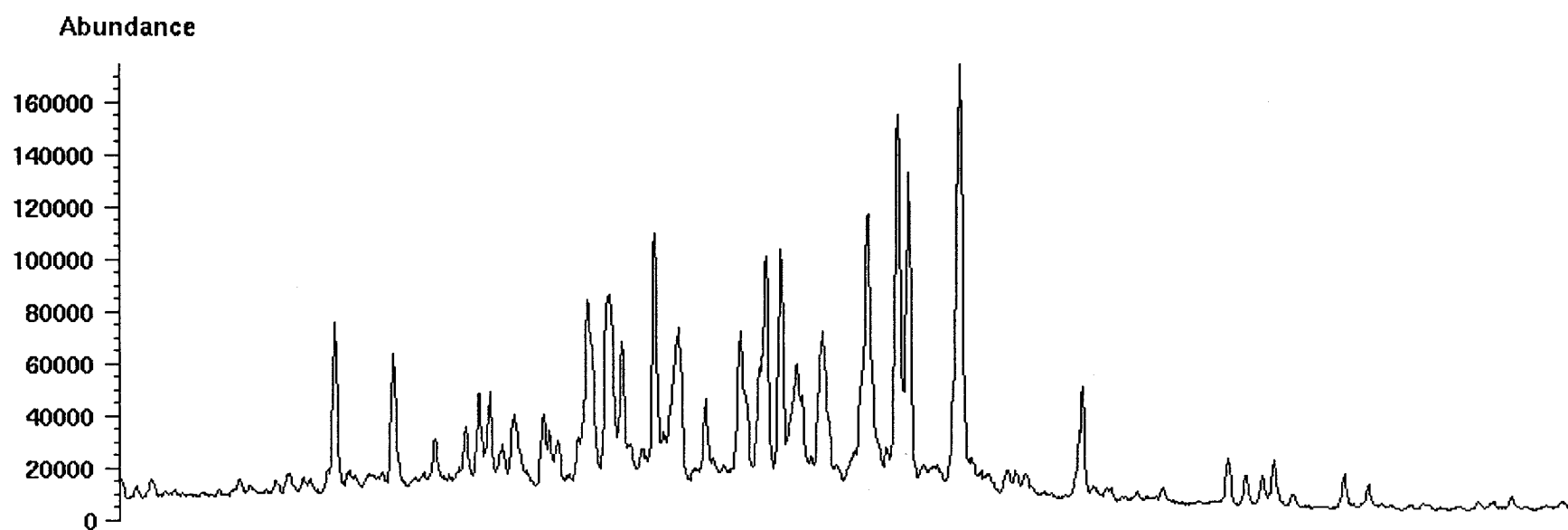
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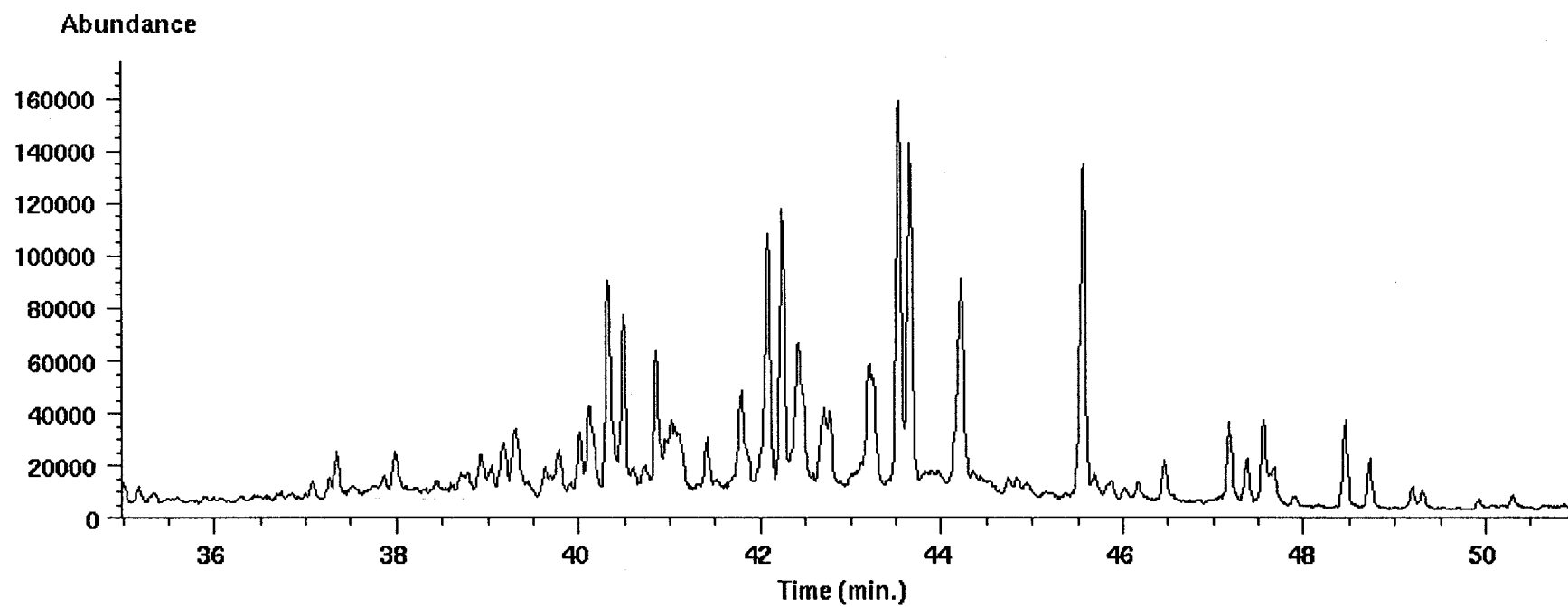
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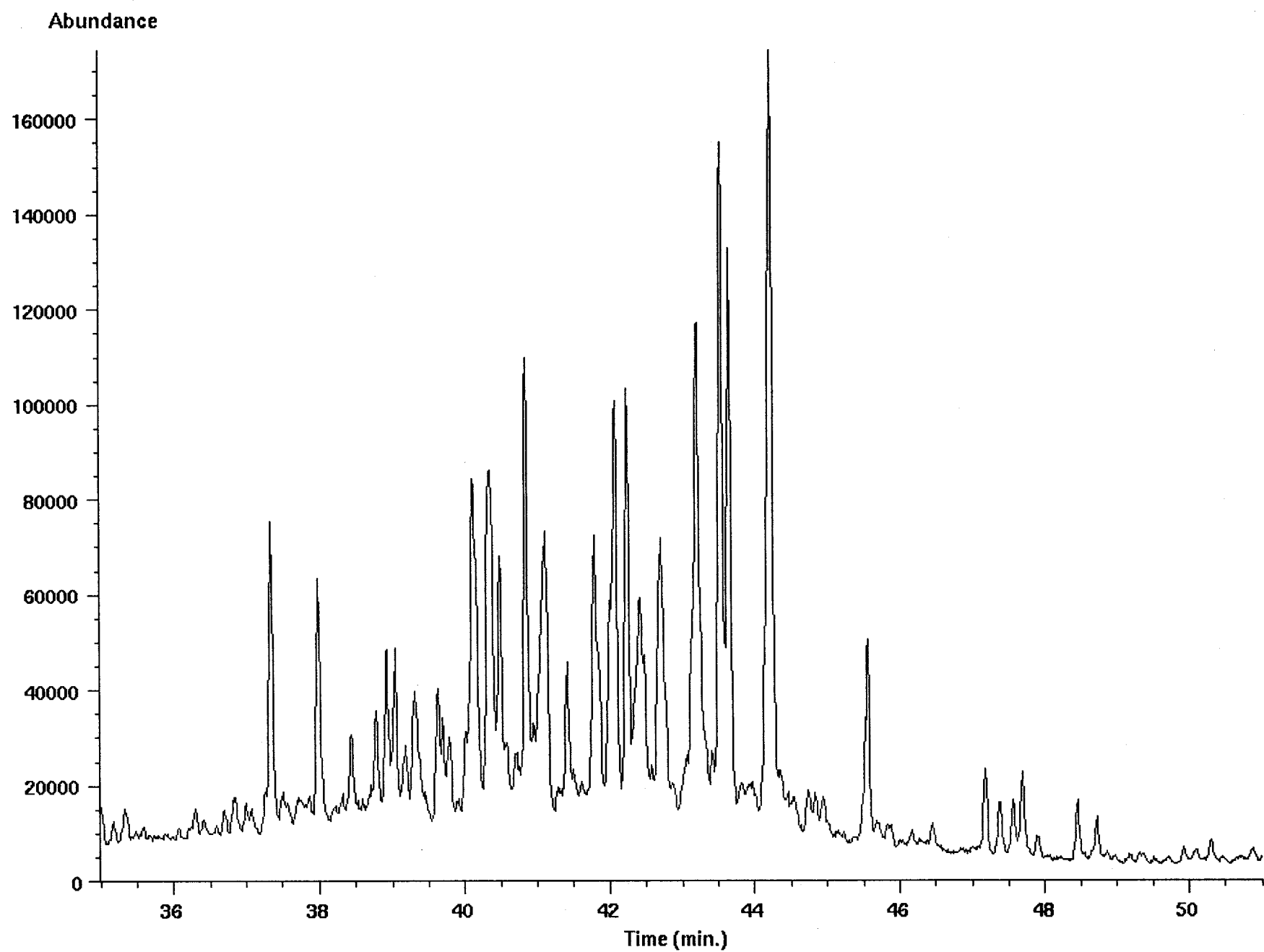
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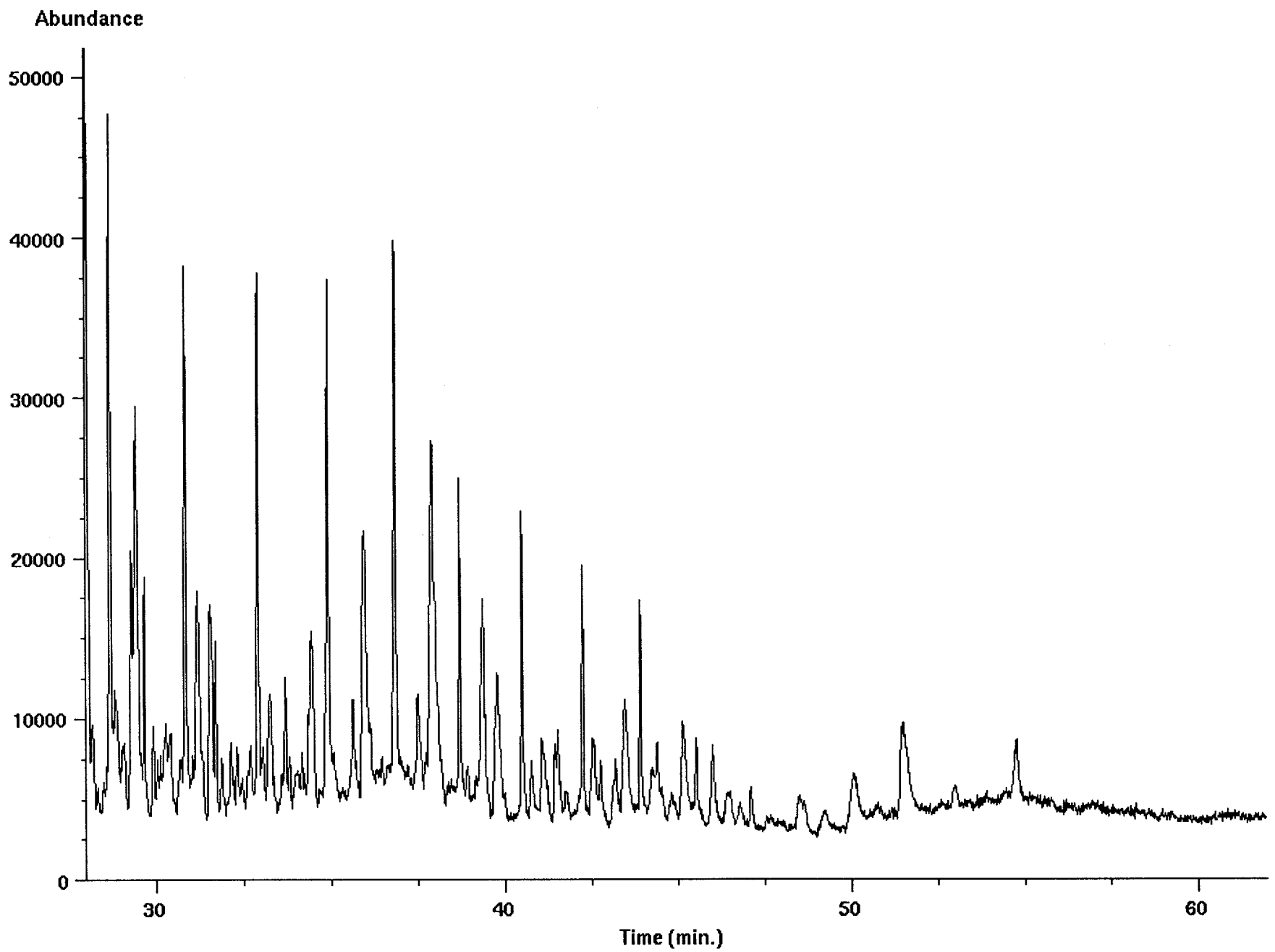
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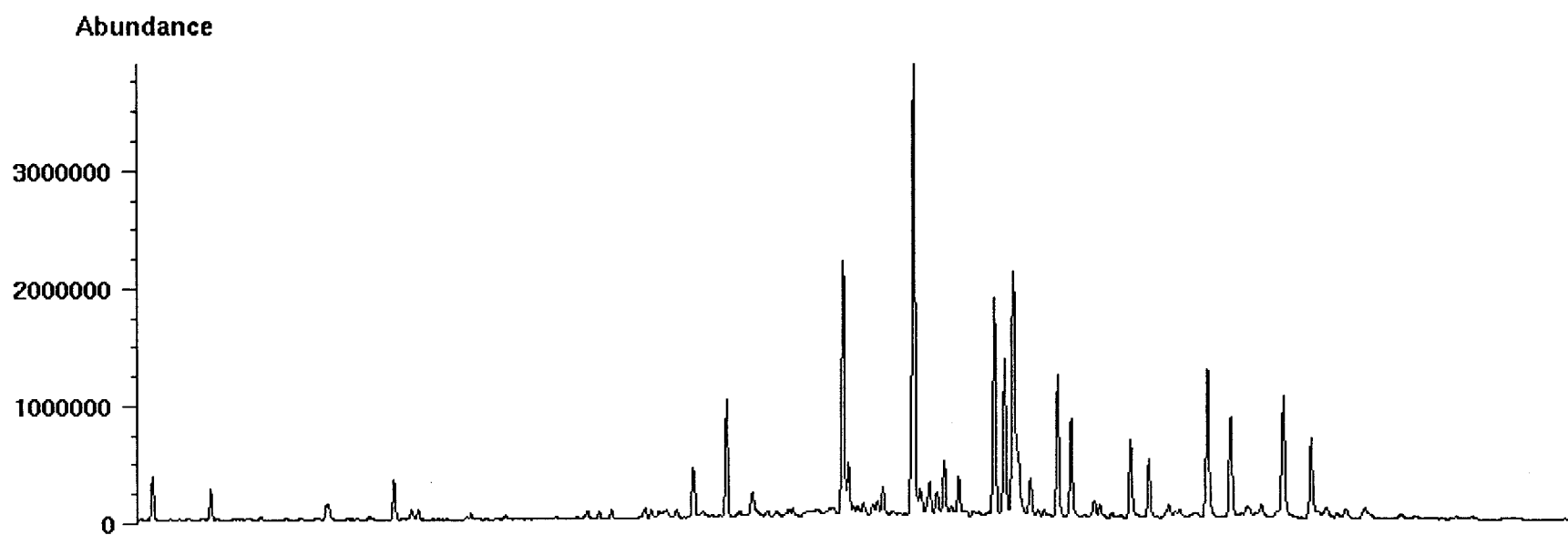
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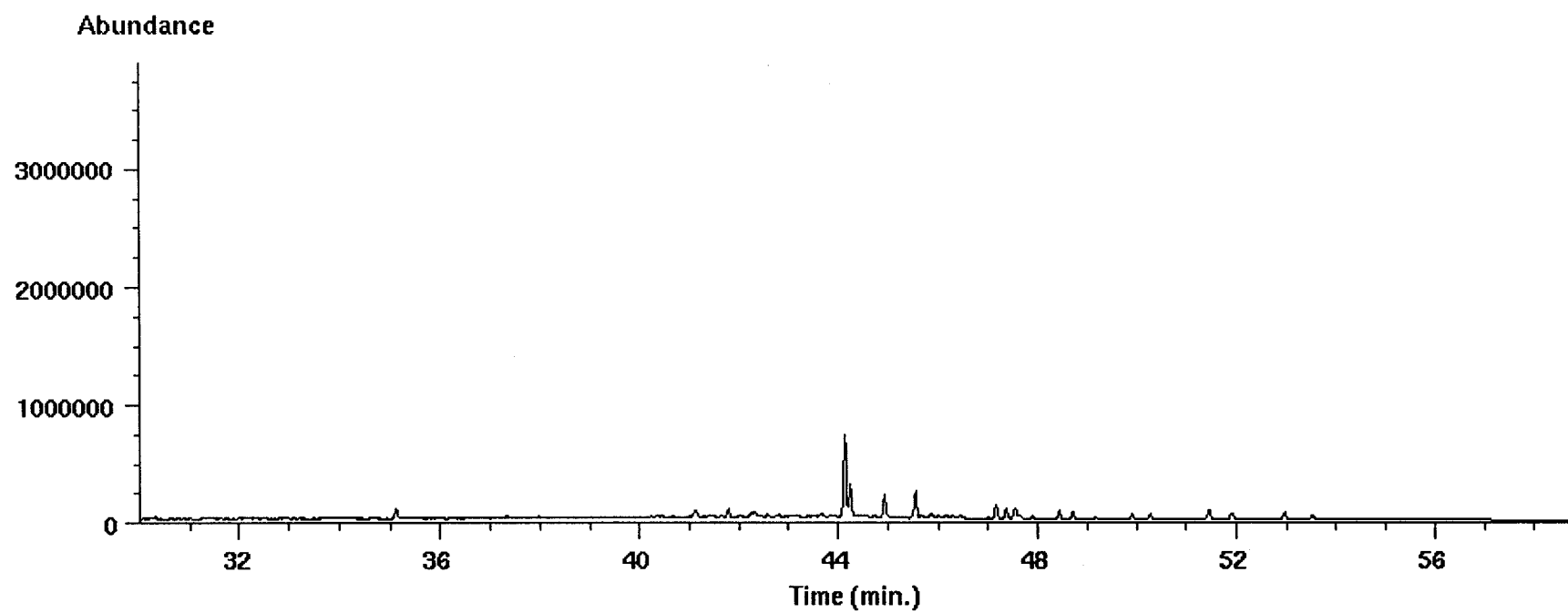
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Ion 191.20 amu from Saxo-1-3208m.d



Ion 177.20 amu from Saxo-1-3208m.d





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Area Percent Report  
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Data File Name : A:\T03531\_5.D

Operator : sk

Instrument : GC 5890A

Sample Name : Tordenskjold-1

Run Time Bar Code:

Acquired on : 06 Mar 94 10:25 AM

Report Created on: 24 Jun 97 10:11 AM

Page Number : 1

Vial Number :

Injection Number :

Sequence Line :

Instrument Method: GCN(1A).MT

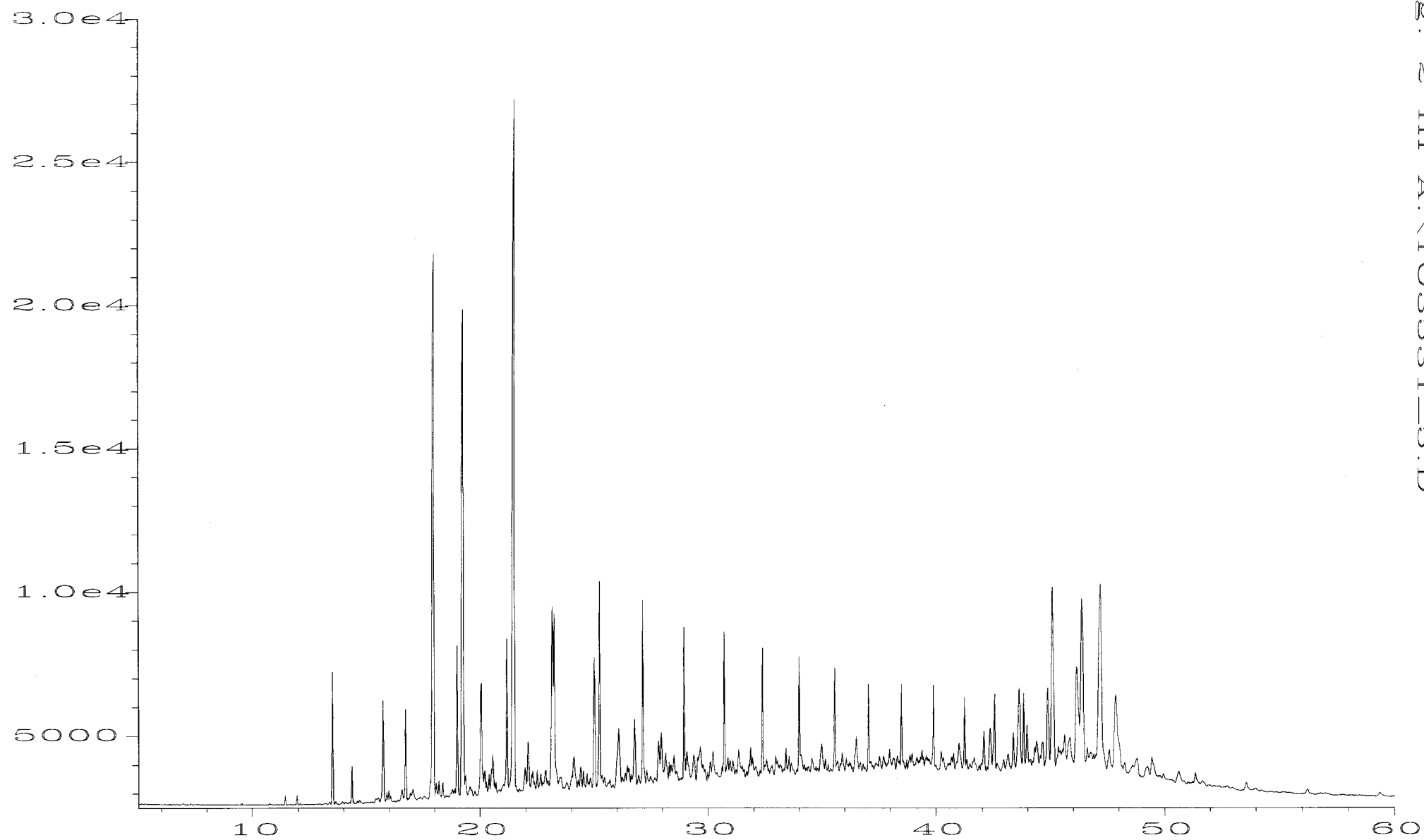
Analysis Method : DEFAULT.MT

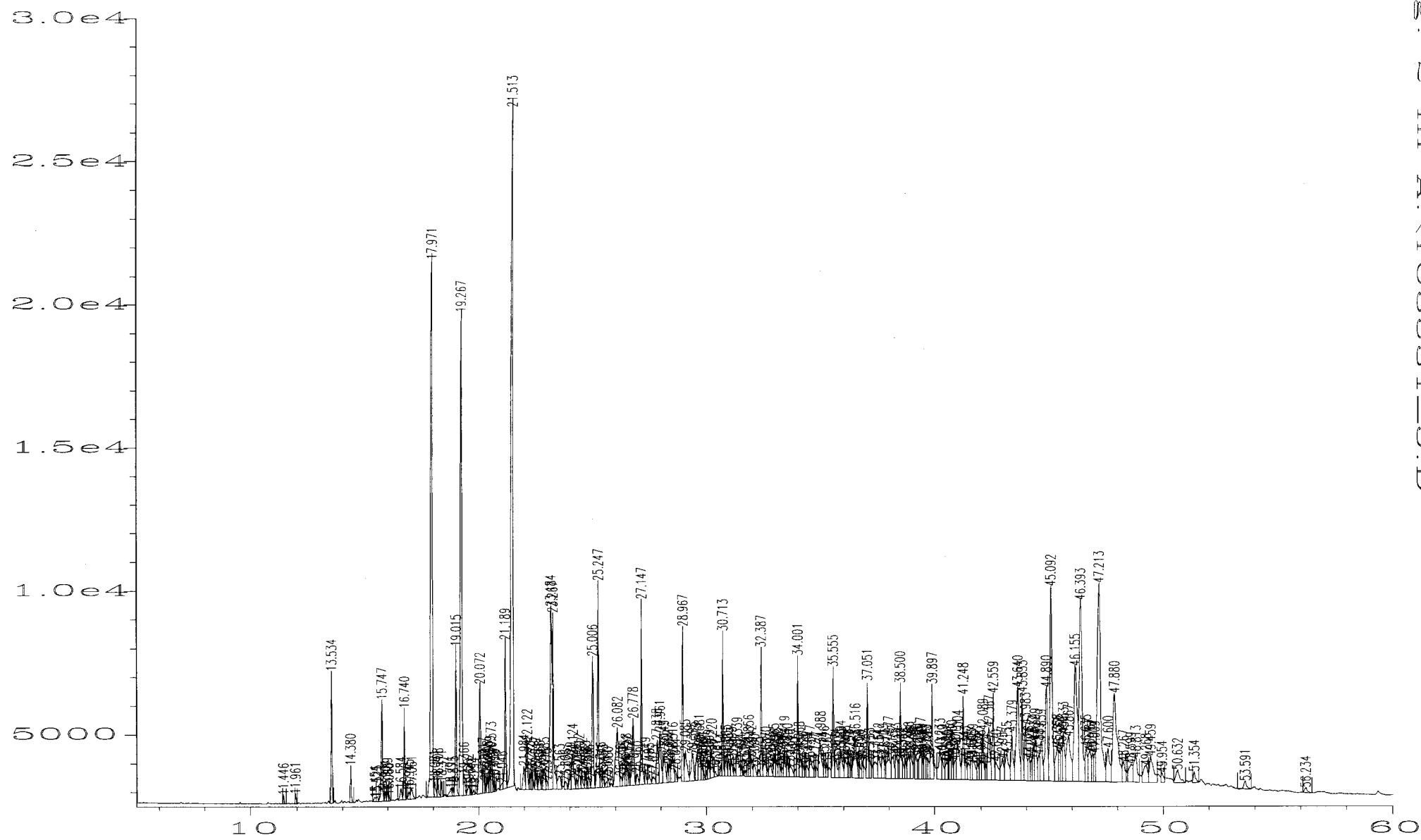
Sig. 2 in A:\T03531\_5.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
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No results to report

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Area Percent Report

Data File Name : A:\T03531\_5.D

Operator : sk

Instrument : GC 5890A

Sample Name : Tordenskjold-1

Run Time Bar Code:

Acquired on : 06 Mar 94 10:25 AM

Report Created on: 24 Jun 97 10:12 AM

Page Number : 1

Vial Number :

Injection Number :

Sequence Line :

Instrument Method: GCN(1A).MT

Analysis Method : DEFAULT.MT

Sig. 2 in A:\T03531\_5.D

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3	2.069	2.59404E+008	6.85783E+007	VV	0.063	13.8166
4	2.108	4.79343E+008	6.86938E+007	VV	0.089	25.5312
5	2.562	5552	3968	VV	0.023	0.0003
6	2.605	7718	4389	VV	0.037	0.0004
7	2.741	1907	1824	VB	0.025	0.0001
8	2.848	269	304	BB	0.022	0.0000
9	2.964	556	529	BB	0.025	0.0000
10	3.133	308	252	BV	0.027	0.0000
11	3.209	571	509	PV	0.030	0.0000
12	3.351	577	503	BB	0.027	0.0000
13	3.774	193	134	BV	0.028	0.0000
14	11.446	728	319	BB	0.036	0.0000
15	11.961	795	349	BB	0.036	0.0000
16	13.534	12728	4607	PV	0.044	0.0007
17	14.380	3644	1294	PB	0.044	0.0002
18	15.454	783	143	PV	0.094	0.0000
19	15.525	787	150	VV	0.081	0.0000
20	15.747	13131	3523	VV	0.058	0.0007
21	15.901	987	329	VV	0.046	0.0001
22	15.989	1271	412	VV	0.047	0.0001
23	16.060	623	212	VV	0.044	0.0000
24	16.584	2052	395	PV	0.075	0.0001
25	16.740	9049	3189	VV	0.044	0.0005
26	16.945	1038	286	VV	0.053	0.0001
27	17.061	2581	396	VV	0.094	0.0001
28	17.971	95264	18810	BV	0.068	0.0051
29	18.081	2412	516	VV	0.065	0.0001
30	18.208	2083	600	VV	0.051	0.0001
31	18.371	1831	528	VV	0.055	0.0001
32	18.791	1980	292	VV	0.093	0.0001
33	18.875	903	278	VV	0.047	0.0000
34	19.015	16261	5290	VV	0.046	0.0009
35	19.267	81904	16898	VV	0.077	0.0044
36	19.366	3273	742	VV	0.067	0.0002
37	19.562	2034	339	VV	0.088	0.0001
38	19.641	628	227	VV	0.046	0.0000
39	19.794	672	181	PV	0.055	0.0000
40	20.072	19966	3899	VV	0.068	0.0011

41	20.217	3481	834	VV	0.065	0.0002
42	20.289	1142	449	VV	0.038	0.0001
43	20.408	2309	705	VV	0.048	0.0001
44	20.509	3014	846	VV	0.053	0.0002
45	20.573	4907	1338	VV	0.057	0.0003
46	20.656	959	389	VV	0.037	0.0001
47	20.715	882	365	VV	0.038	0.0000
48	21.046	1256	224	VV	0.081	0.0001
49	21.189	16174	5252	VV	0.047	0.0009
50	21.513	120602	23820	VV	0.067	0.0064
51	21.984	4129	817	BV	0.074	0.0002
52	22.122	8519	1703	VV	0.078	0.0005
53	22.273	1891	591	VV	0.053	0.0001
54	22.325	2474	717	VV	0.051	0.0001
55	22.517	2367	722	VV	0.049	0.0001
56	22.668	2628	600	VV	0.062	0.0001
57	22.752	964	311	VV	0.052	0.0001
58	22.885	4100	718	VV	0.076	0.0002
59	22.975	1719	343	VV	0.073	0.0001
60	23.184	36498	6348	VV	0.086	0.0019
61	23.267	19860	6156	VV	0.047	0.0011
62	23.563	4449	479	VV	0.136	0.0002
63	23.806	1864	292	VV	0.090	0.0001
64	24.029	2634	526	PV	0.083	0.0001
65	24.124	8046	1166	VV	0.089	0.0004
66	24.298	1381	357	VV	0.058	0.0001
67	24.412	3517	807	VV	0.071	0.0002
68	24.532	2341	675	VV	0.050	0.0001
69	24.683	1811	558	VV	0.048	0.0001
70	24.750	684	245	VV	0.040	0.0000
71	24.836	1884	404	VV	0.072	0.0001
72	25.006	19904	4569	VV	0.071	0.0011
73	25.247	23386	7215	VV	0.048	0.0012
74	25.346	2066	471	VV	0.060	0.0001
75	25.453	1701	386	VV	0.067	0.0001
76	25.611	938	202	VV	0.065	0.0000
77	25.680	1260	303	VV	0.060	0.0001
78	26.082	16522	2036	PV	0.108	0.0009
79	26.236	1673	355	VV	0.070	0.0001
80	26.375	2532	483	VV	0.078	0.0001
81	26.458	2554	731	VV	0.053	0.0001
82	26.522	2658	667	VV	0.059	0.0001
83	26.617	1274	436	VV	0.043	0.0001
84	26.778	11749	2315	VV	0.074	0.0006
85	26.960	2170	412	VV	0.073	0.0001
86	27.147	19835	6451	VV	0.046	0.0011
87	27.319	2242	539	VV	0.062	0.0001
88	27.485	2258	325	VV	0.091	0.0001
89	27.675	1654	244	VV	0.086	0.0001
90	27.838	7806	1504	VV	0.069	0.0004
91	27.961	9945	1797	VV	0.079	0.0005
92	28.149	7232	1065	VV	0.095	0.0004
93	28.302	2107	739	VV	0.044	0.0001
94	28.374	2928	650	VV	0.070	0.0002
95	28.516	6028	995	VV	0.080	0.0003

96	28.644	2350	413	VV	0.085	0.0001
97	28.967	14923	5401	VV	0.043	0.0008
98	29.085	7953	1057	VV	0.099	0.0004
99	29.395	6738	933	VV	0.100	0.0004
100	29.573	3731	866	VV	0.072	0.0002
101	29.681	7954	1200	VV	0.088	0.0004
102	29.784	2582	581	VV	0.063	0.0001
103	29.869	1539	396	VV	0.055	0.0001
104	29.990	858	306	PV	0.044	0.0000
105	30.099	2679	620	VV	0.067	0.0001
106	30.220	5714	967	VV	0.083	0.0003
107	30.387	1048	200	VB	0.071	0.0001
108	30.614	1208	374	BV	0.052	0.0001
109	30.713	13268	5054	VV	0.041	0.0007
110	30.865	3377	667	VV	0.068	0.0002
111	30.965	2912	588	VV	0.077	0.0002
112	31.093	2813	595	VV	0.068	0.0001
113	31.229	1074	266	VV	0.064	0.0001
114	31.339	6250	953	VV	0.091	0.0003
115	31.494	1543	390	VV	0.056	0.0001
116	31.693	741	217	PV	0.048	0.0000
117	31.783	1285	442	VV	0.048	0.0001
118	31.856	3862	1027	VV	0.053	0.0002
119	31.942	3183	691	VV	0.068	0.0002
120	32.090	2741	379	VV	0.101	0.0001
121	32.275	1019	271	VV	0.057	0.0001
122	32.387	11976	4510	VV	0.042	0.0006
123	32.570	4916	627	VV	0.101	0.0003
124	32.652	1066	307	VV	0.050	0.0001
125	32.803	3265	431	VV	0.101	0.0002
126	32.965	3325	763	VV	0.065	0.0002
127	33.038	3114	589	VV	0.068	0.0002
128	33.156	1586	454	VV	0.049	0.0001
129	33.204	1807	419	VV	0.065	0.0001
130	33.335	1375	324	VV	0.071	0.0001
131	33.419	4206	1015	VV	0.059	0.0002
132	33.550	3183	761	VV	0.064	0.0002
133	33.646	4121	550	VV	0.102	0.0002
134	33.890	1366	272	VV	0.074	0.0001
135	34.001	12650	4225	VV	0.045	0.0007
136	34.068	4960	836	VV	0.099	0.0003
137	34.226	1928	490	VV	0.057	0.0001
138	34.399	2645	403	VV	0.084	0.0001
139	34.547	5721	708	VV	0.112	0.0003
140	34.727	1567	425	VV	0.053	0.0001
141	34.988	10152	1202	VV	0.109	0.0005
142	35.146	3063	685	VV	0.066	0.0002
143	35.262	2067	495	VV	0.060	0.0001
144	35.555	12536	3859	VV	0.048	0.0007
145	35.674	4421	616	VV	0.098	0.0002
146	35.802	1976	524	VV	0.063	0.0001
147	35.894	5976	897	VV	0.091	0.0003
148	36.068	4922	714	VV	0.092	0.0003
149	36.198	1861	595	VV	0.046	0.0001
150	36.257	1810	561	VV	0.047	0.0001

151	36.516	11951	1480	VV	0.108	0.0006
152	36.657	1572	550	VV	0.048	0.0001
153	36.700	2551	595	VV	0.060	0.0001
154	36.820	2412	552	VV	0.063	0.0001
155	37.051	10815	3387	VV	0.049	0.0006
156	37.153	3548	641	VV	0.079	0.0002
157	37.372	6118	589	VV	0.133	0.0003
158	37.542	5434	826	VV	0.091	0.0003
159	37.719	5694	809	VV	0.095	0.0003
160	37.810	1526	583	VV	0.044	0.0001
161	37.977	9320	1063	VV	0.111	0.0005
162	38.152	6418	758	VV	0.108	0.0003
163	38.323	5163	835	VV	0.089	0.0003
164	38.412	2277	656	VV	0.049	0.0001
165	38.500	10863	3325	VV	0.049	0.0006
166	38.582	3434	663	VV	0.086	0.0002
167	38.726	3001	687	VV	0.063	0.0002
168	38.866	5385	879	VV	0.080	0.0003
169	38.961	6283	935	VV	0.092	0.0003
170	39.180	5309	791	VV	0.086	0.0003
171	39.268	2440	713	VV	0.051	0.0001
172	39.397	6563	1042	VV	0.084	0.0003
173	39.461	2850	795	VV	0.050	0.0002
174	39.581	4595	852	VV	0.070	0.0002
175	39.643	3188	794	VV	0.054	0.0002
176	39.705	4152	731	VV	0.083	0.0002
177	39.897	13317	3318	VV	0.057	0.0007
178	40.233	7700	1022	VV	0.103	0.0004
179	40.329	5015	794	VV	0.083	0.0003
180	40.530	3893	600	VV	0.085	0.0002
181	40.590	1850	609	VV	0.044	0.0001
182	40.676	4028	838	VV	0.070	0.0002
183	40.760	4297	957	VV	0.067	0.0002
184	40.901	4083	672	VV	0.081	0.0002
185	41.004	11186	1314	VV	0.116	0.0006
186	41.248	11047	2964	VV	0.054	0.0006
187	41.343	3600	769	VV	0.071	0.0002
188	41.481	4358	613	VV	0.097	0.0002
189	41.603	2803	688	VV	0.068	0.0001
190	41.659	6761	841	VV	0.102	0.0004
191	41.884	2934	534	VV	0.070	0.0002
192	41.978	2723	635	VV	0.071	0.0001
193	42.089	9494	1731	VV	0.075	0.0005
194	42.224	2071	507	VV	0.057	0.0001
195	42.367	12582	1853	VV	0.104	0.0007
196	42.559	13904	3028	VV	0.065	0.0007
197	42.670	6219	646	VV	0.125	0.0003
198	42.957	6402	771	VV	0.109	0.0003
199	43.155	10225	947	VV	0.136	0.0005
200	43.379	10432	1710	VV	0.085	0.0006
201	43.640	27371	3248	VV	0.124	0.0015
202	43.833	12040	3077	VV	0.057	0.0006
203	43.983	11325	1961	VV	0.084	0.0006
204	44.126	5192	792	VV	0.093	0.0003
205	44.226	2668	738	VV	0.060	0.0001

206	44.317	6048	1178	VV	0.078	0.0003
207	44.399	10219	1415	VV	0.099	0.0005
208	44.559	4010	906	VV	0.074	0.0002
209	44.659	10479	1388	VV	0.120	0.0006
210	44.890	23403	3270	VV	0.109	0.0012
211	45.092	46895	6802	VV	0.095	0.0025
212	45.358	10051	1235	VV	0.111	0.0005
213	45.437	5863	1105	VV	0.088	0.0003
214	45.552	4769	1164	VV	0.068	0.0003
215	45.633	11423	1667	VV	0.096	0.0006
216	45.867	20240	1573	VV	0.169	0.0011
217	46.155	40114	4024	VV	0.134	0.0021
218	46.393	54473	6310	VV	0.131	0.0029
219	46.635	7791	1216	VV	0.085	0.0004
220	46.787	9192	1079	VV	0.111	0.0005
221	46.917	5444	1007	VV	0.074	0.0003
222	47.009	3999	997	VV	0.067	0.0002
223	47.213	76040	6911	VV	0.152	0.0041
224	47.600	11052	1192	VV	0.118	0.0006
225	47.880	42697	3092	VV	0.171	0.0023
226	48.267	5783	714	VV	0.108	0.0003
227	48.599	7445	637	VV	0.150	0.0004
228	48.813	9947	879	VV	0.147	0.0005
229	49.268	7840	597	VV	0.163	0.0004
230	49.459	11163	935	VV	0.159	0.0006
231	49.954	2401	350	VV	0.094	0.0001
232	50.632	5543	455	VV	0.151	0.0003
233	51.354	2428	379	VV	0.092	0.0001
234	53.591	2005	272	BV	0.111	0.0001
235	56.234	1460	170	VB	0.121	0.0001

Total area = 1.87748E+009

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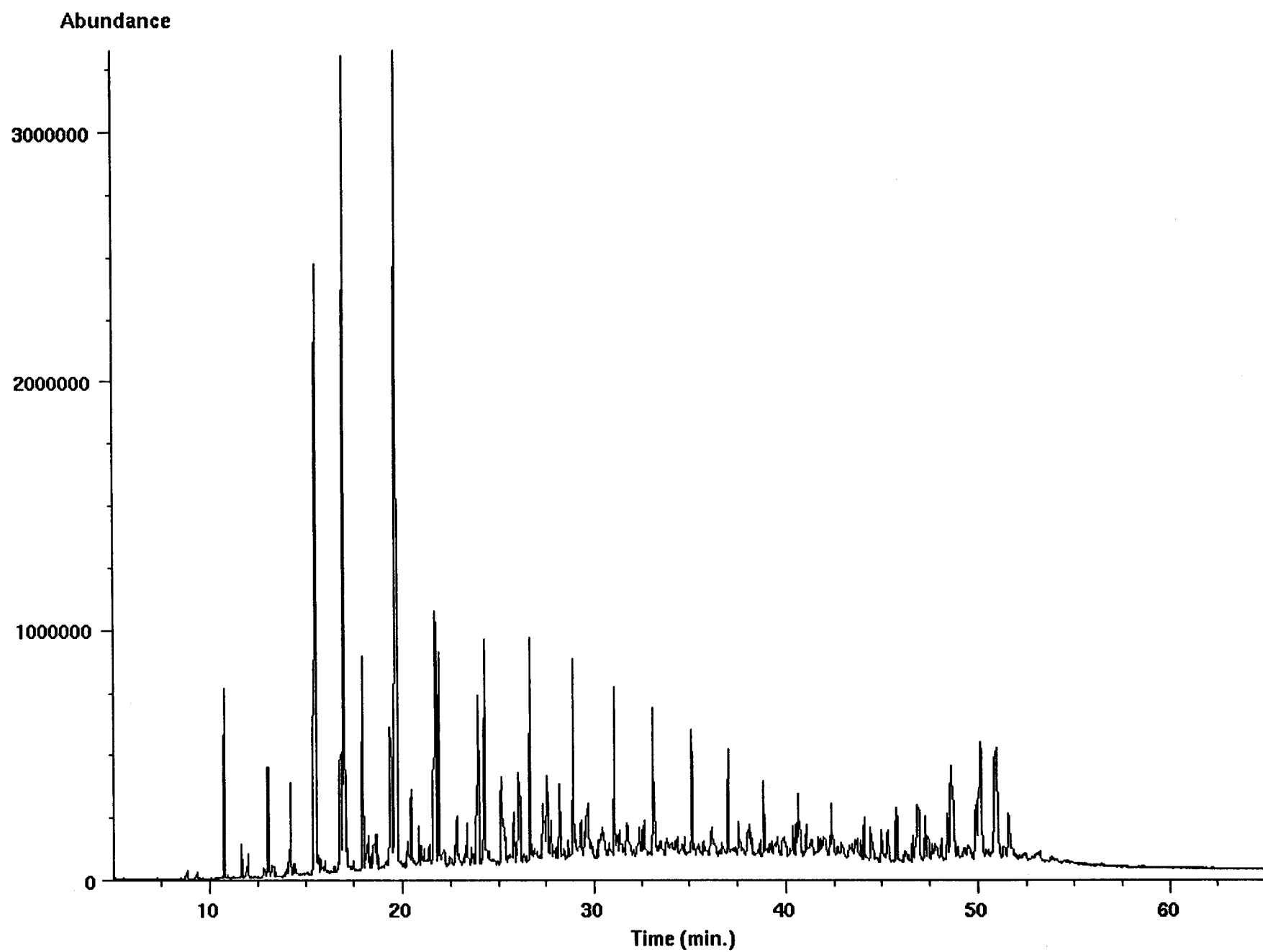
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File type: GC / MS DATA FILE

Name Info: Tordensk-3531.5m  
Misc Info:  
Operator : PN

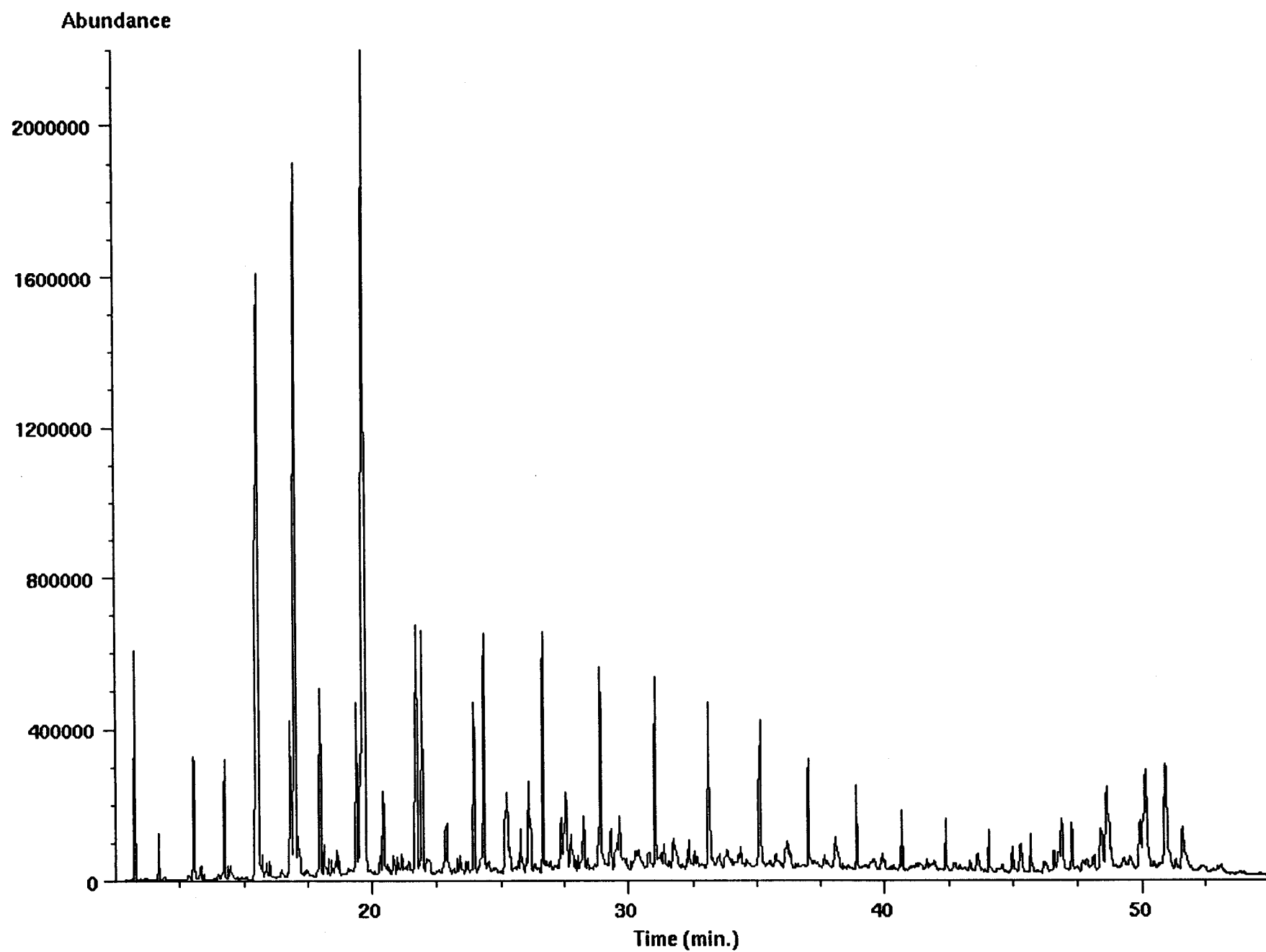
Date : Tue Apr 12 94 07:49:19 AM  
Instrument: HP5971  
Inlet : GC

Sequence index : 1  
Als bottle num : 13  
Replicate num : 1

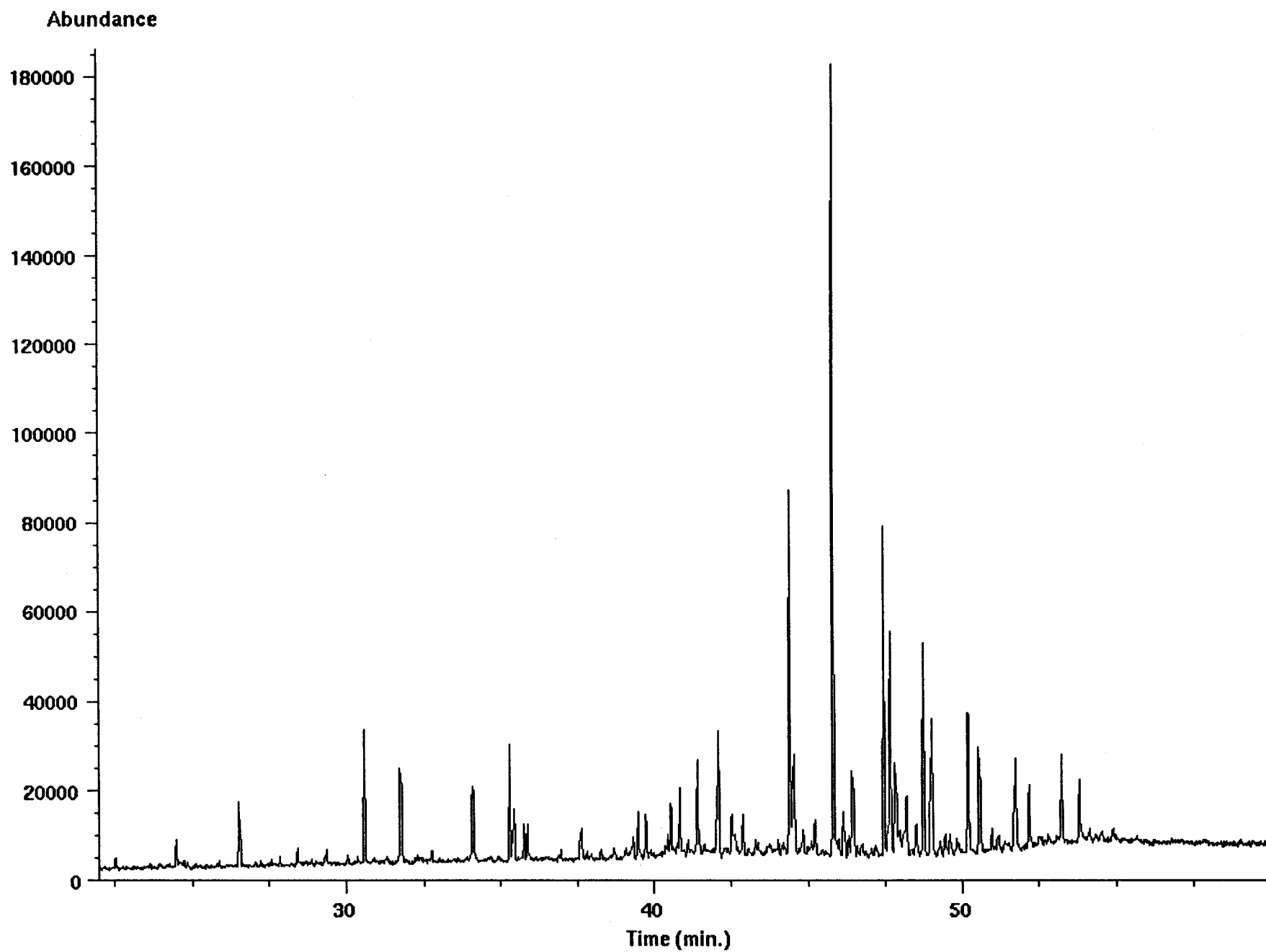
TIC of To-3531.5-al.d



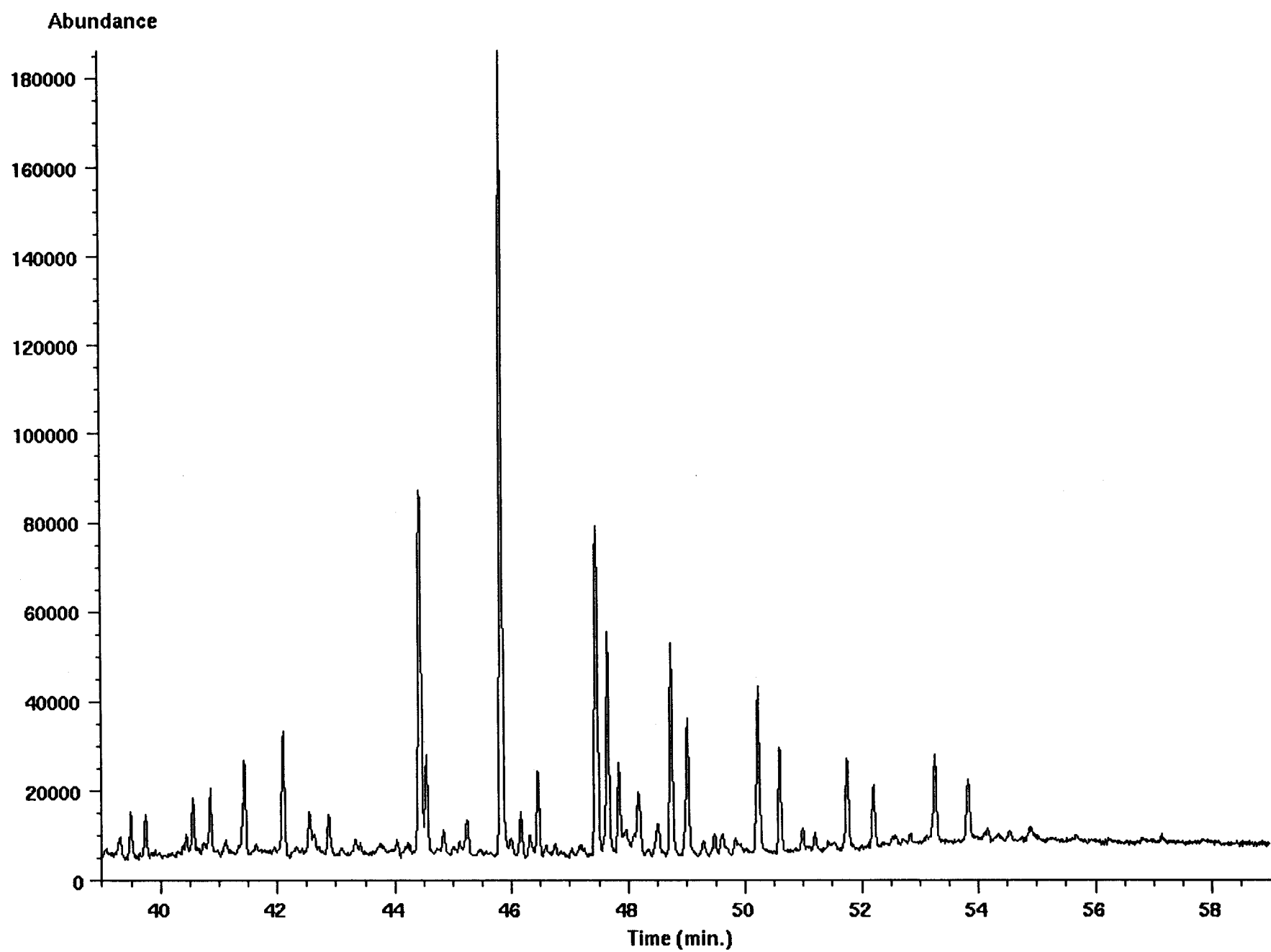
Ion 71.20 amu from To-3531.5-al.d



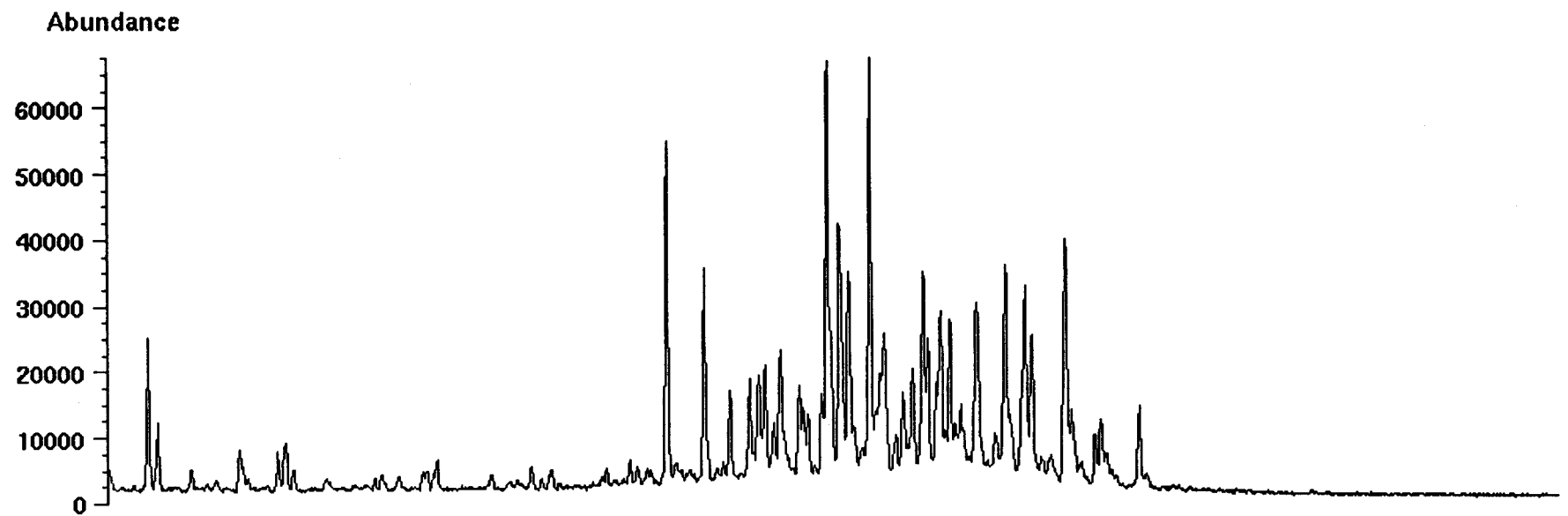
Ion 191.20 amu from To-3531.5-al.d



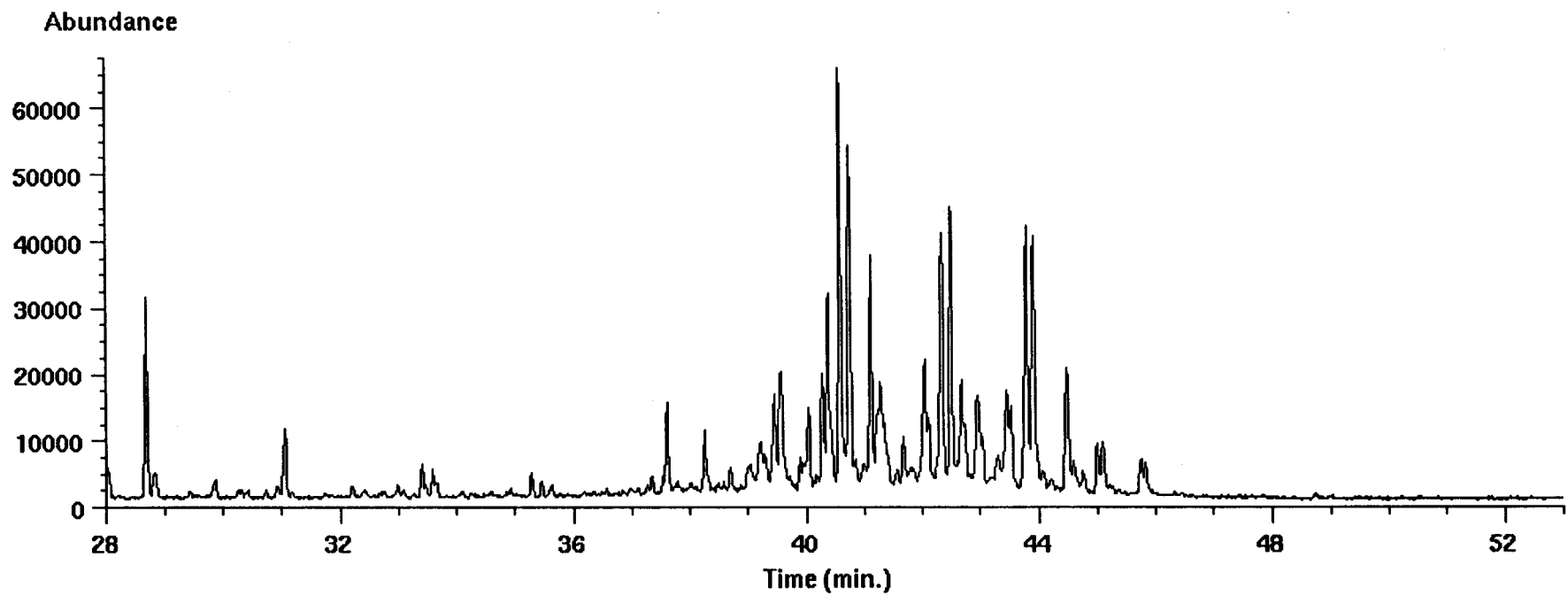
Ion 191.20 amu from To-3531.5-al.d



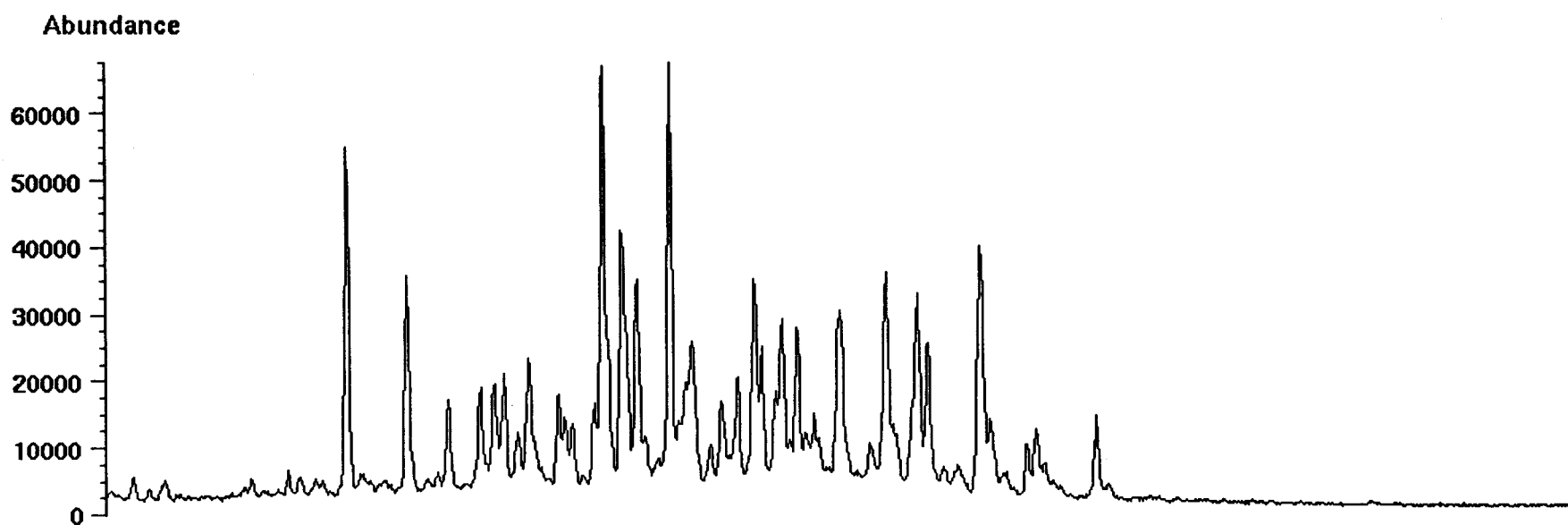
Ion 217.20 amu from To-3531.5-al.d



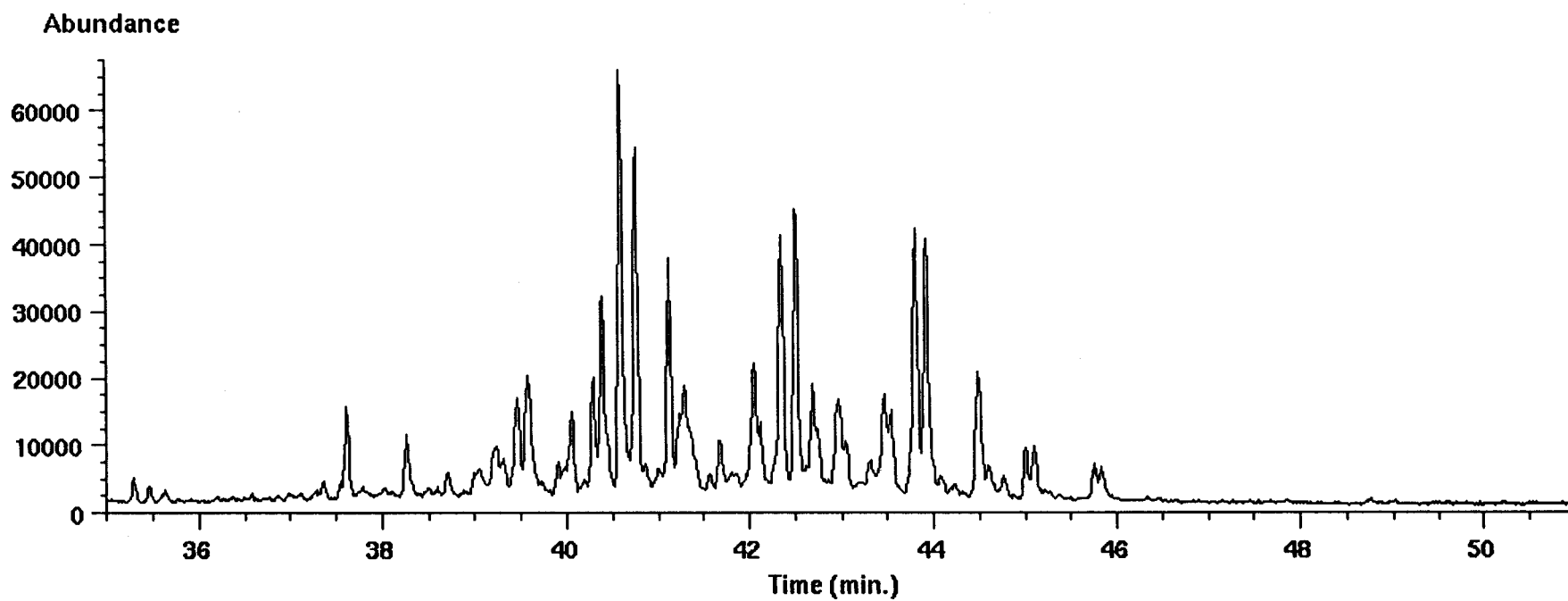
Ion 218.20 amu from To-3531.5-al.d



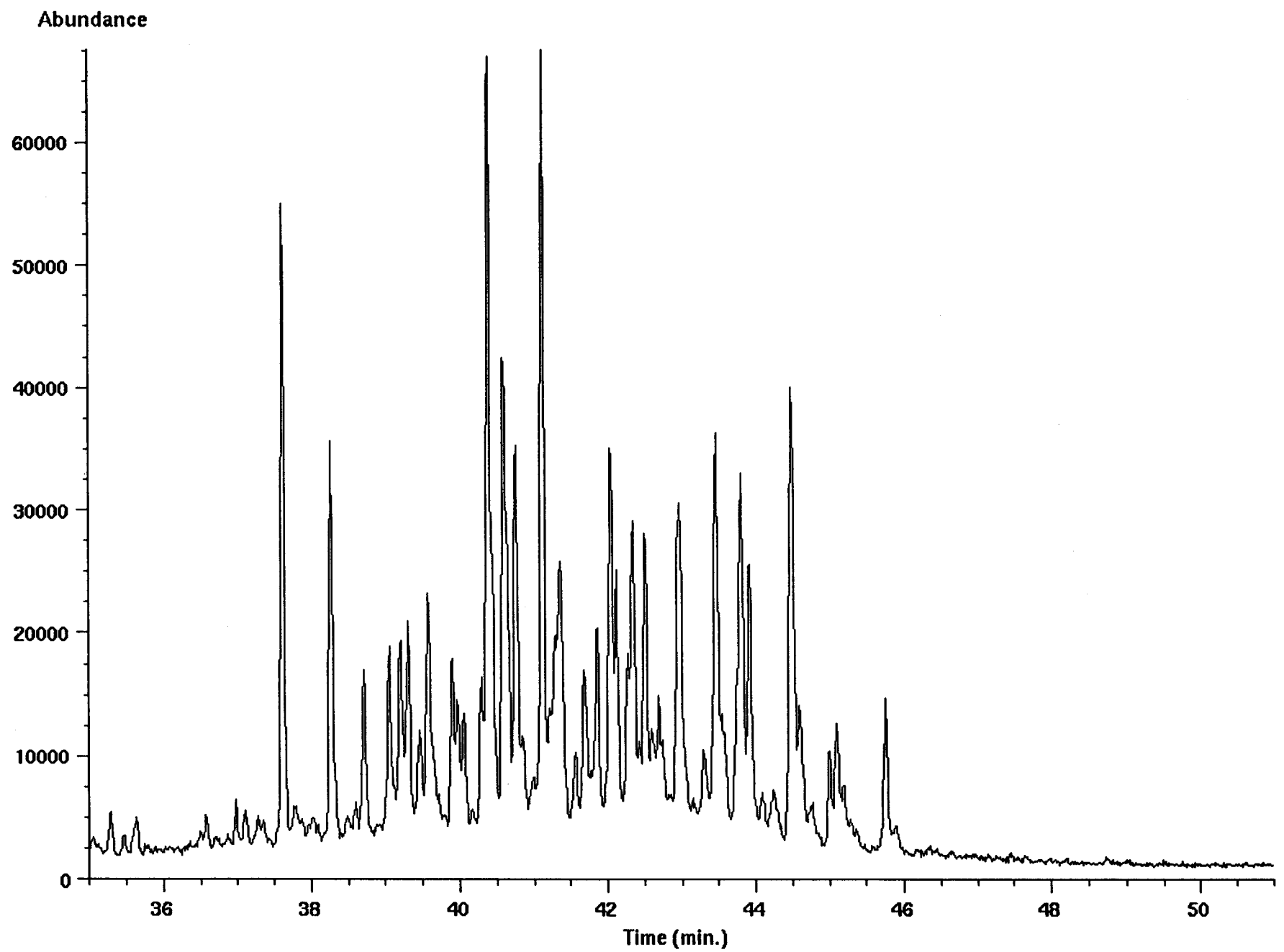
Ion 217.20 amu from To-3531.5-al.d



Ion 218.20 amu from To-3531.5-al.d

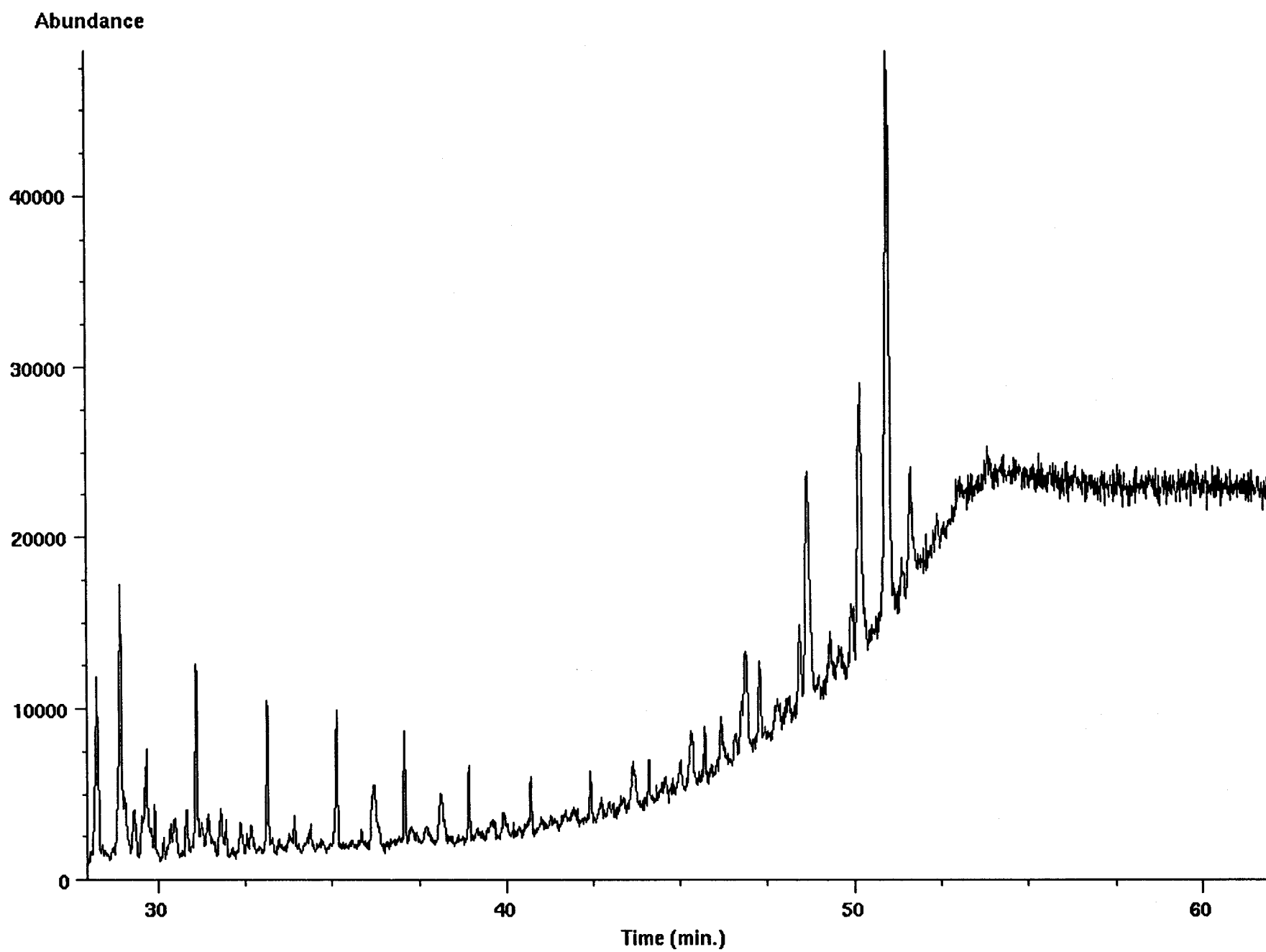


Ion 217.20 amu from To-3531.5-al.d

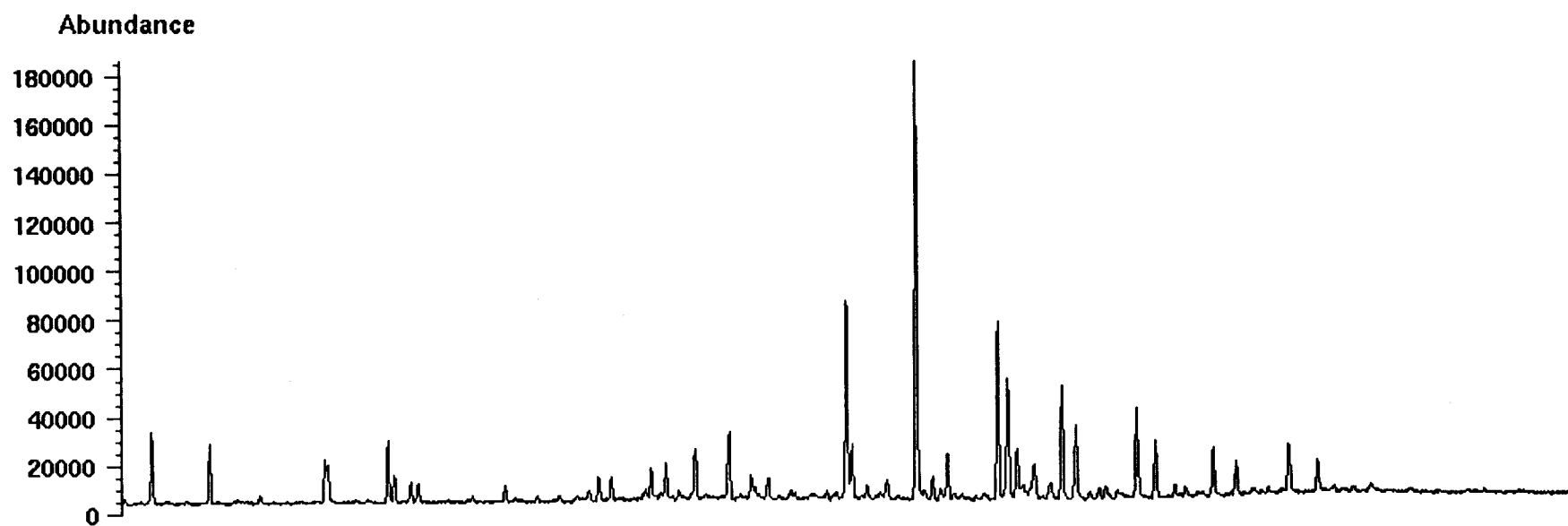




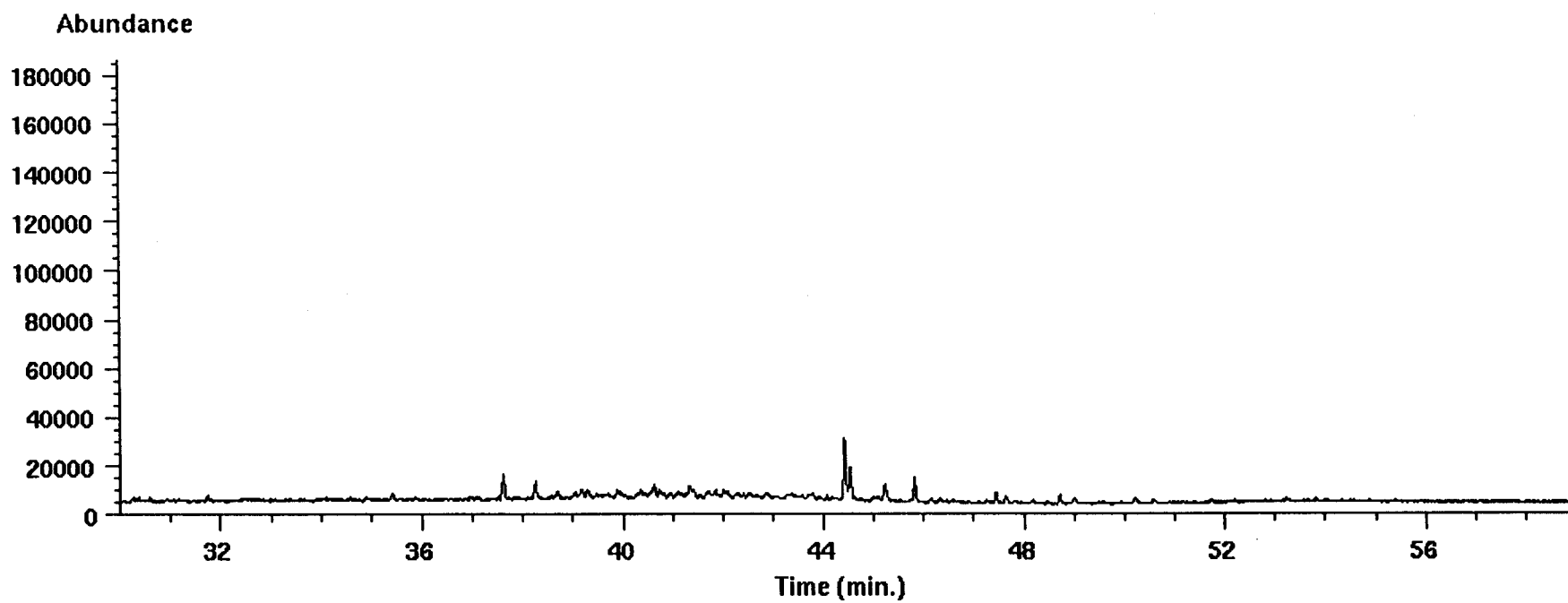
Ion 253.10 amu from To-3531.5-al.d



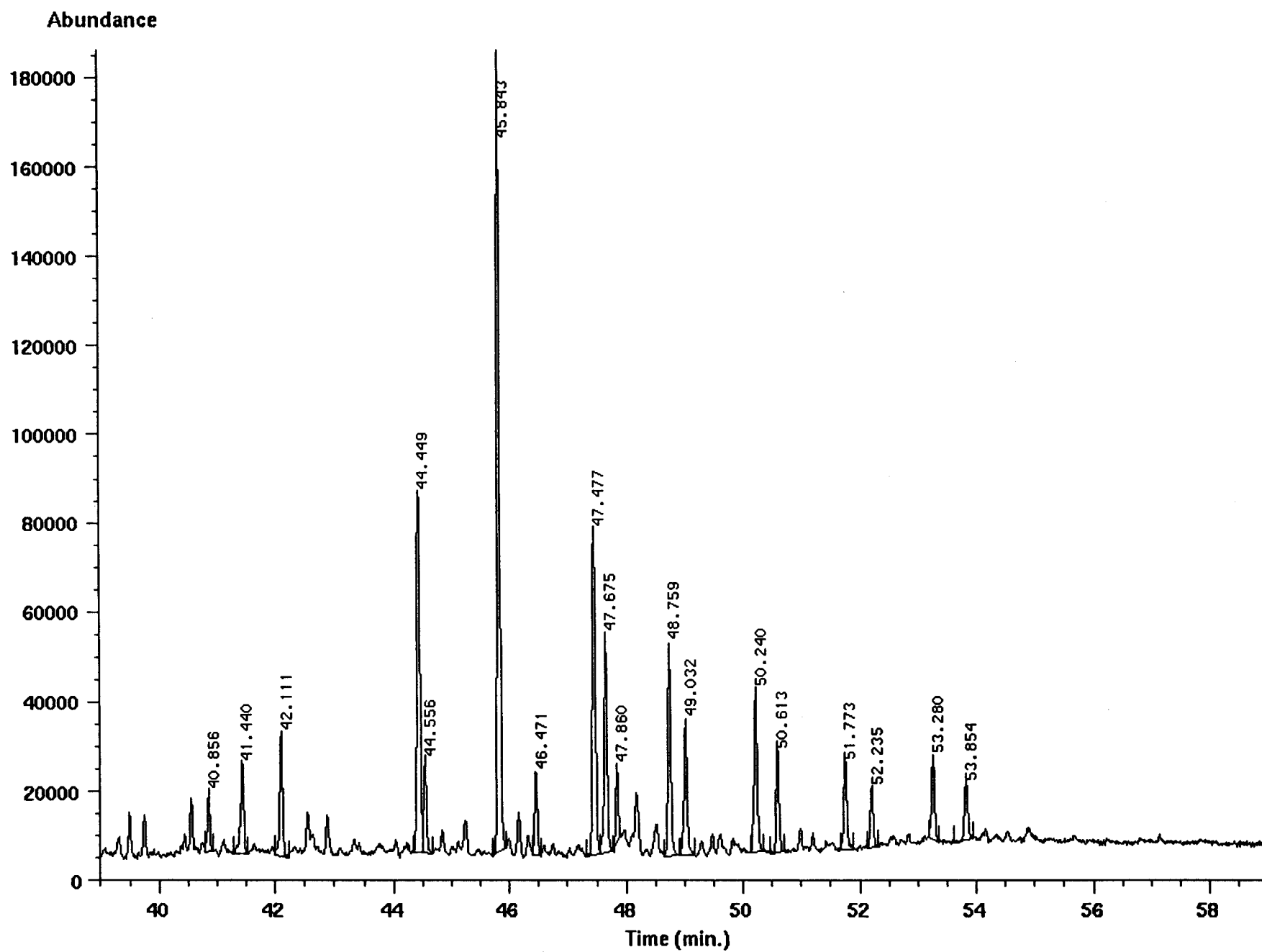
Ion 191.20 amu from To-3531.5-al.d



Ion 177.20 amu from To-3531.5-al.d



Ion 191.00 amu from To-3531.5-al.d



Ion 191.00 amu from To-3531.5-al.d  
Tordensk-3531.5m

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	40.856	VB	0.048	400898	40.796	40.929
2	41.440	BV	0.054	753791	41.286	41.521
3	42.111	VV	0.055	977193	42.002	42.229
4	44.449	BV	0.054	2786459	44.349	44.510
5	44.556	VB	0.054	743087	44.510	44.675
6	45.843	BV	0.050	5945905	45.735	45.960
7	46.471	VV	0.051	641457	46.404	46.553
8	47.477	BV	0.050	2402050	47.325	47.563
9	47.675	VV	0.056	1738721	47.563	47.793
10	47.860	PV	0.050	545754	47.793	47.913
11	48.759	PB	0.056	1689189	48.674	48.915
12	49.032	BV	0.057	1116190	48.945	49.180
13	50.240	BV	0.055	1285512	50.153	50.363
14	50.613	BB	0.052	795999	50.486	50.732
15	51.773	BB	0.061	788413	51.694	51.909
16	52.235	BV	0.056	510351	52.156	52.347
17	53.280	BB	0.056	685129	53.209	53.384
18	53.854	BB	0.055	481291	53.641	53.961

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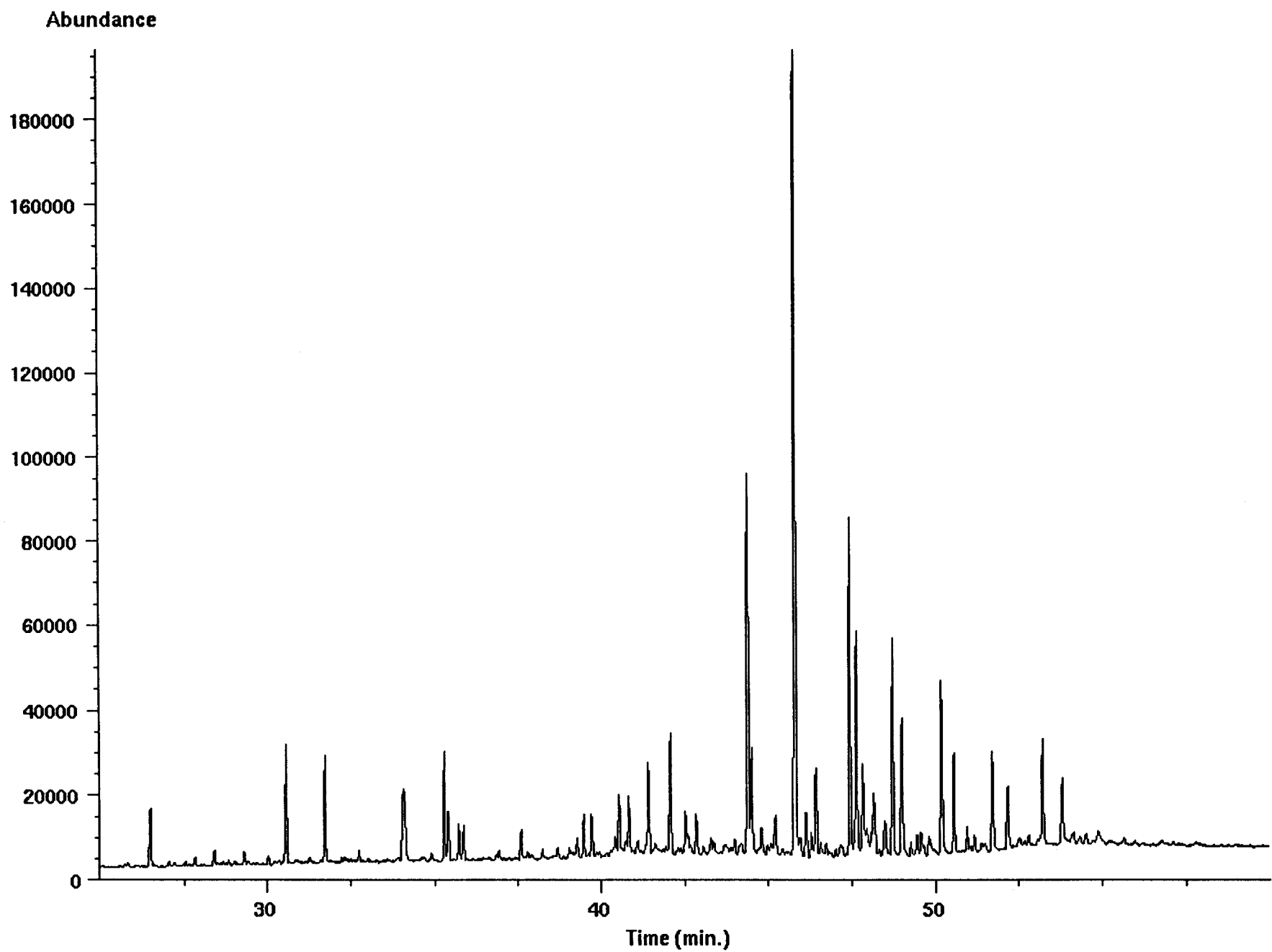
Data file: /chem/hp/94028-HESS/To-3531.5-AL.d  
File type: GC / MS DATA FILE

Name Info: Tordensk-3531.5m  
Misc Info:  
Operator : PN

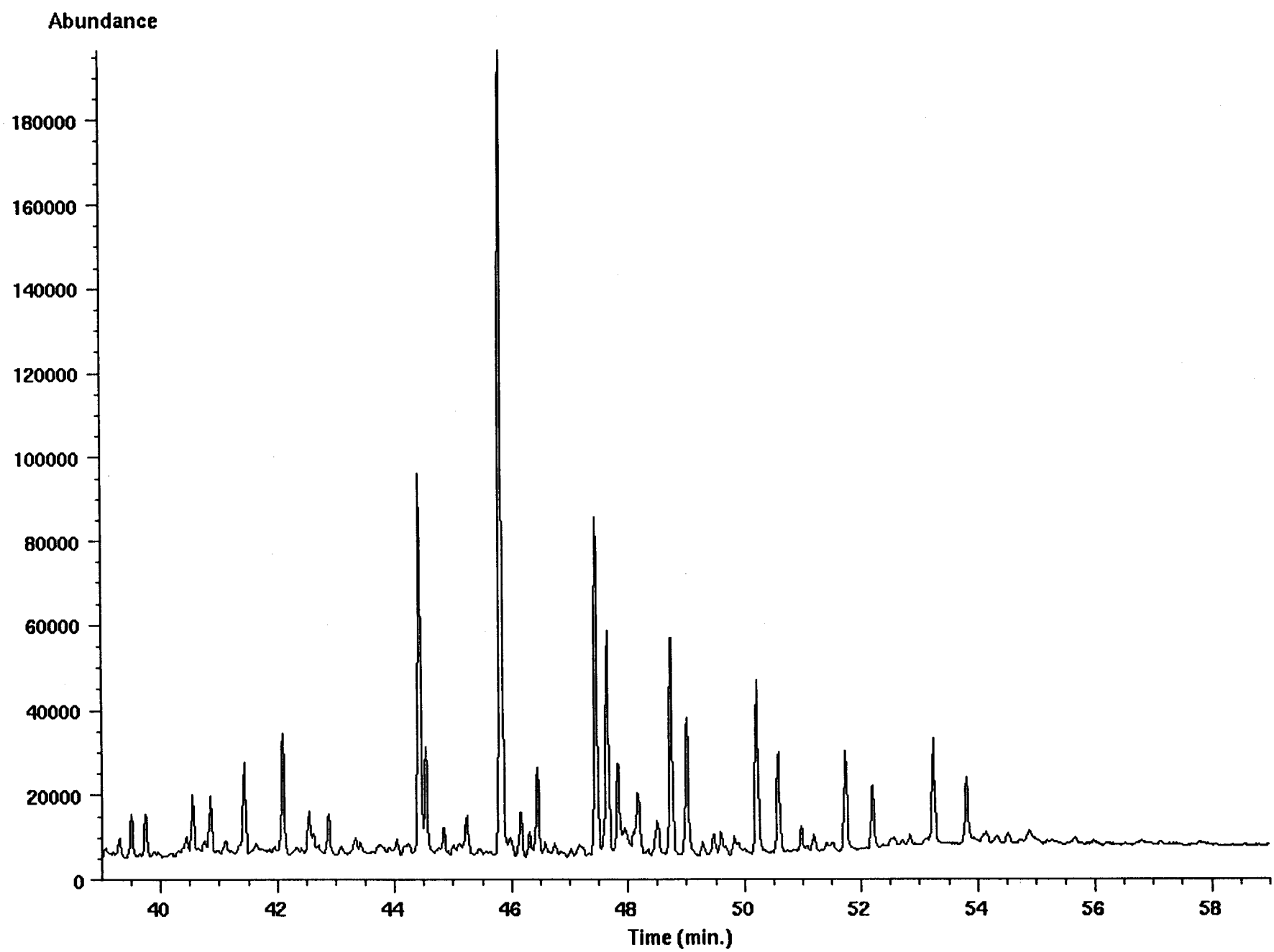
Date : Tue Apr 12 94 11:19:18 AM  
Instrment: HP5971  
Inlet : GC

Sequence index : 2  
Als bottle num : 13  
Replicate num : 1

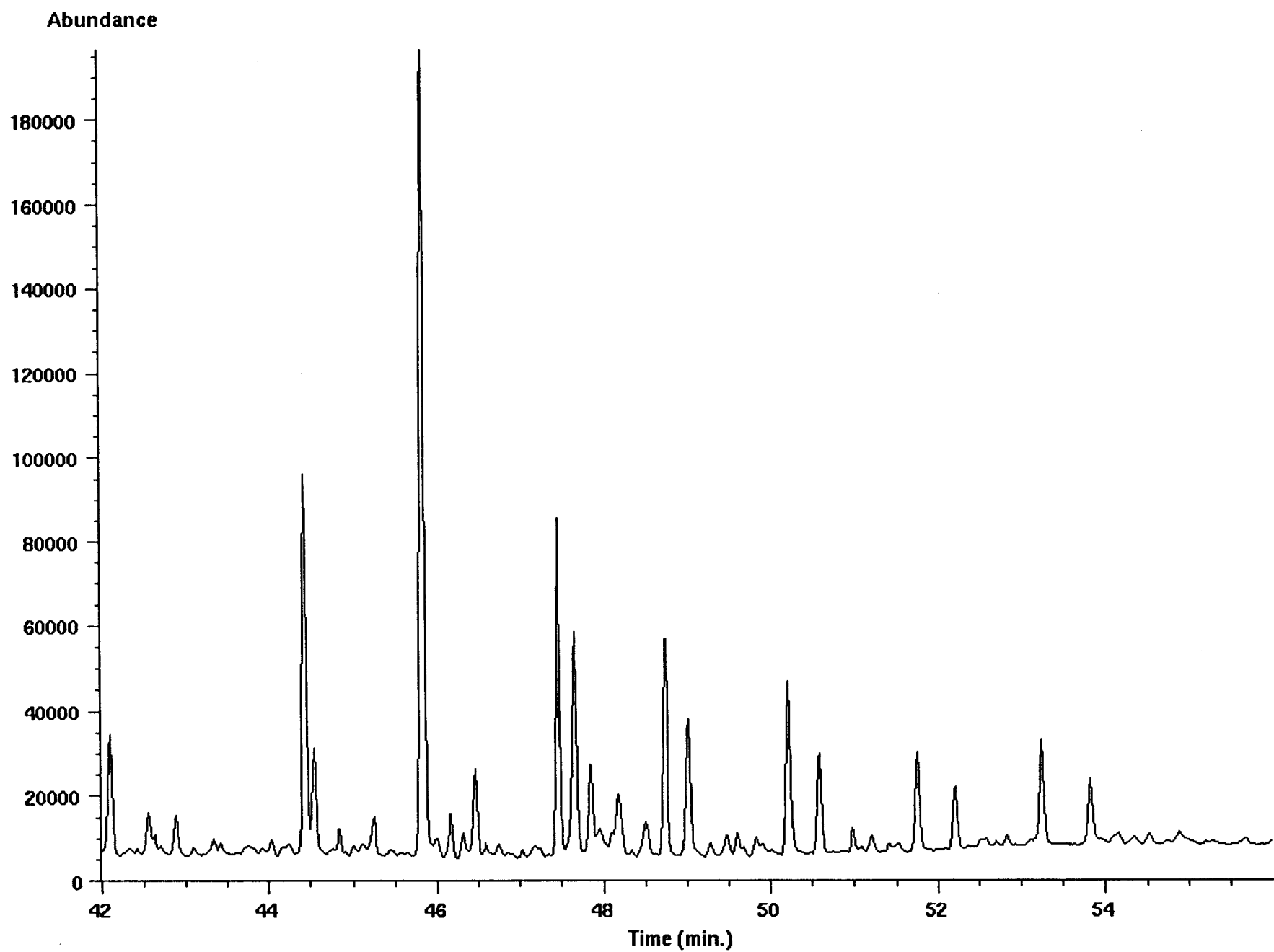
Ion 191.20 amu from To-3531.5-AL.d



Ion 191.20 amu from To-3531.5-AL.d

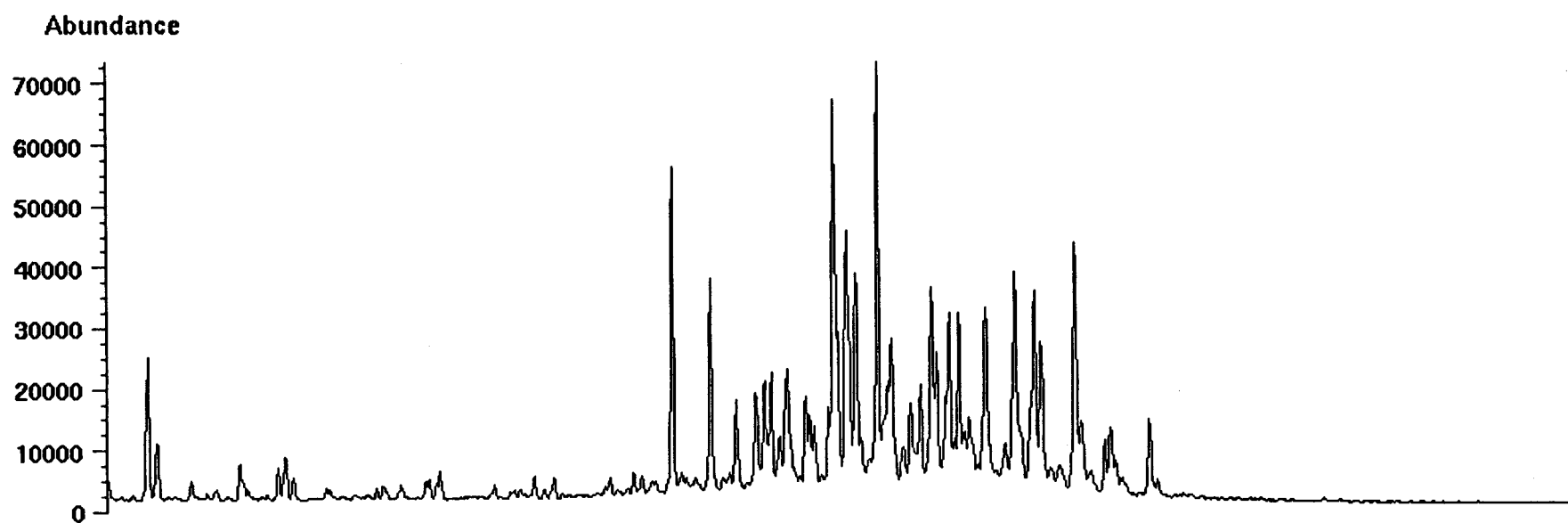


Ion 191.20 amu from To-3531.5-AL.d

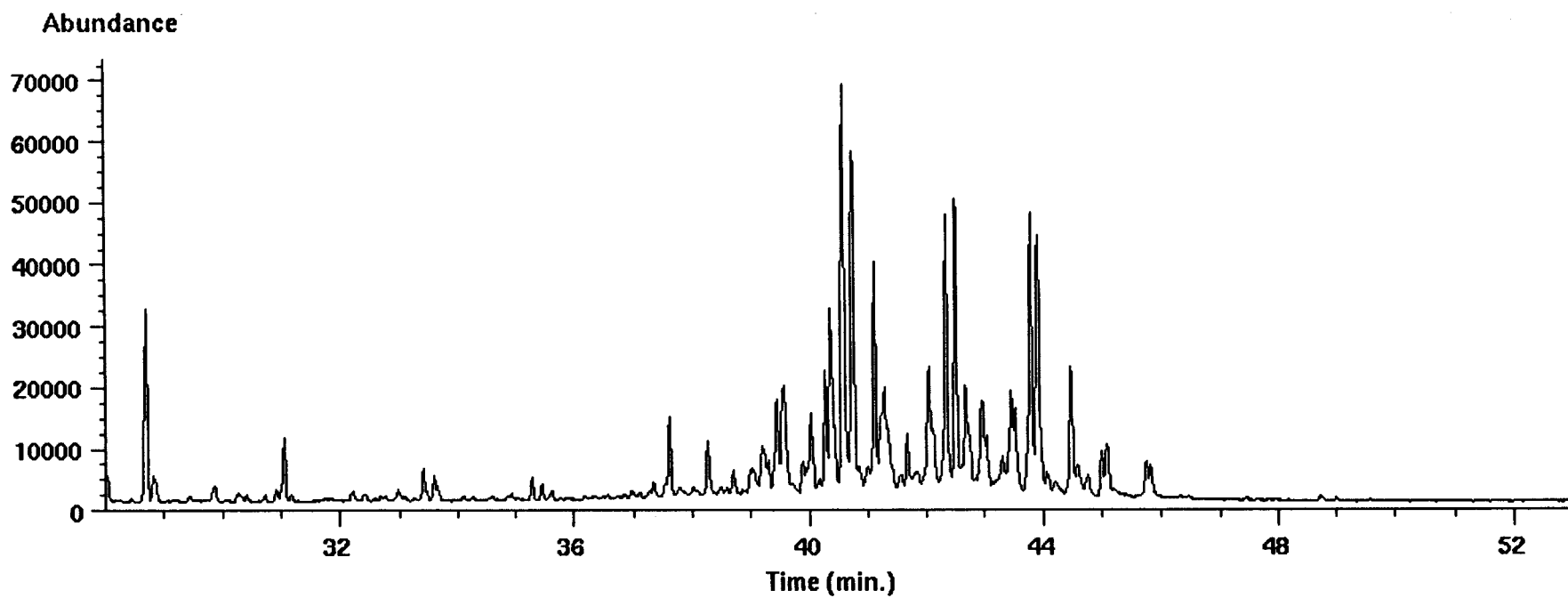




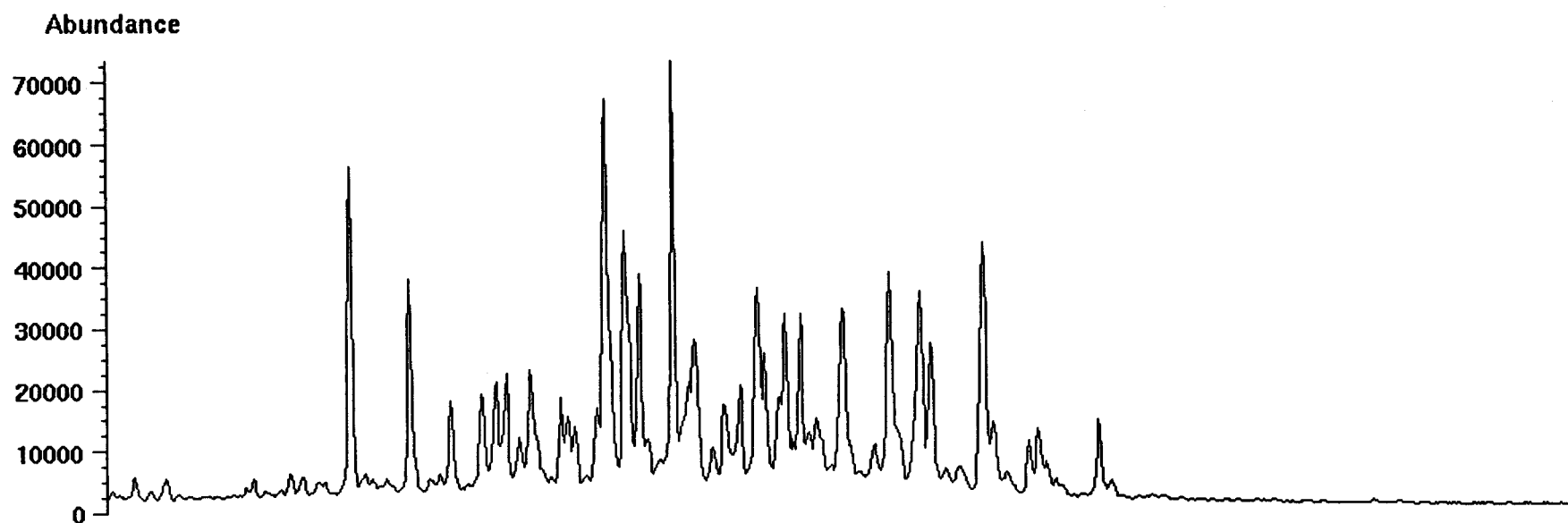
Ion 217.20 amu from To-3531.5-AL.d



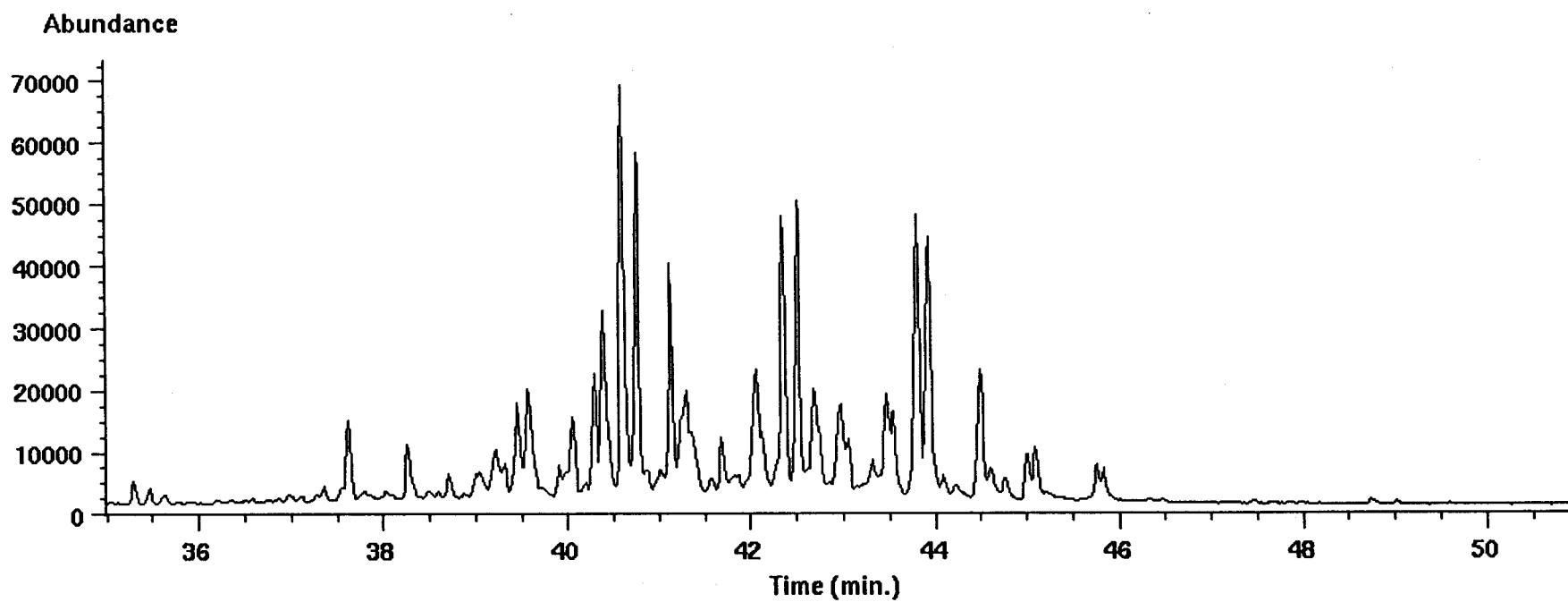
Ion 218.20 amu from To-3531.5-AL.d



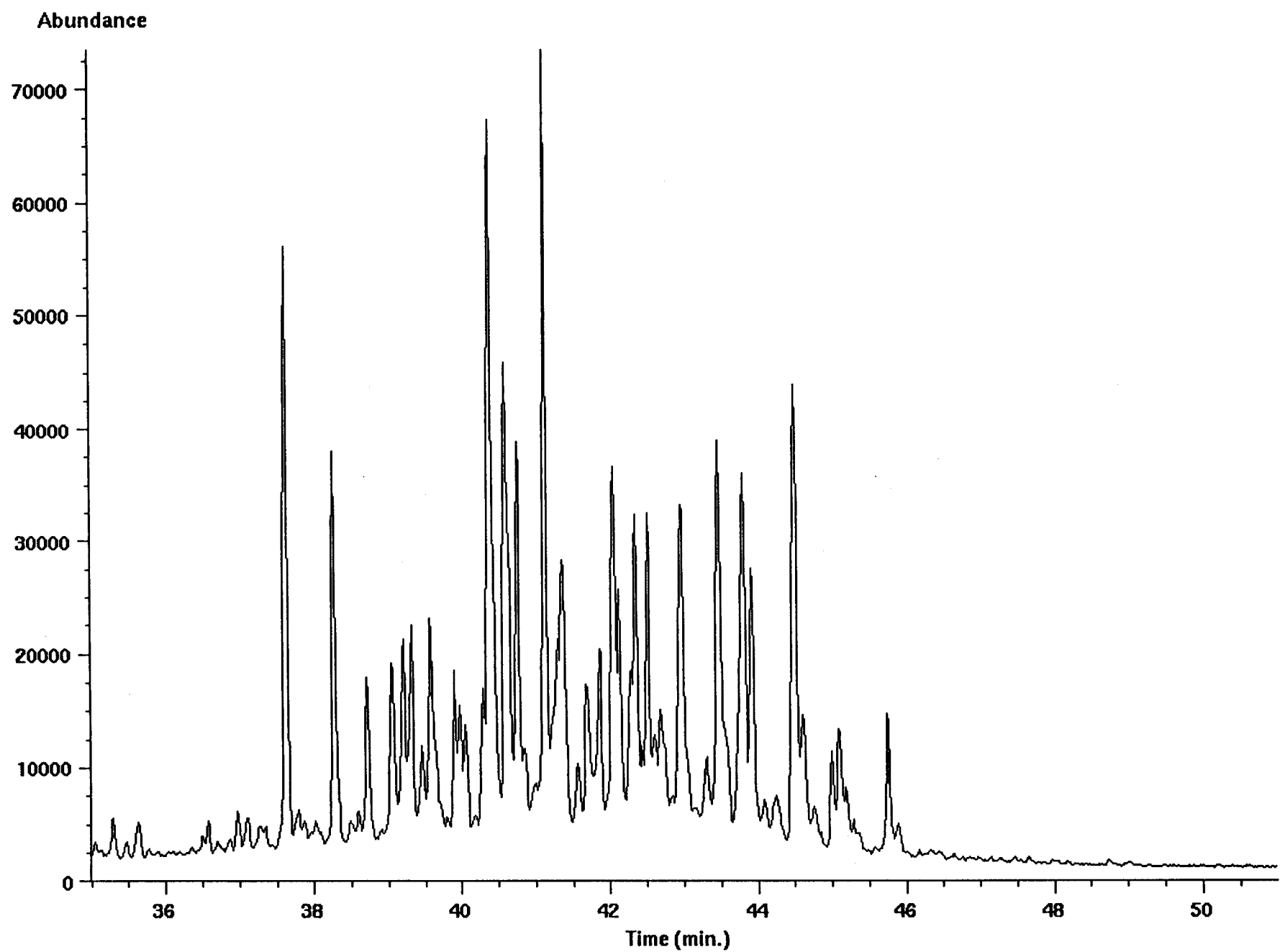
Ion 217.20 amu from To-3531.5-AL.d



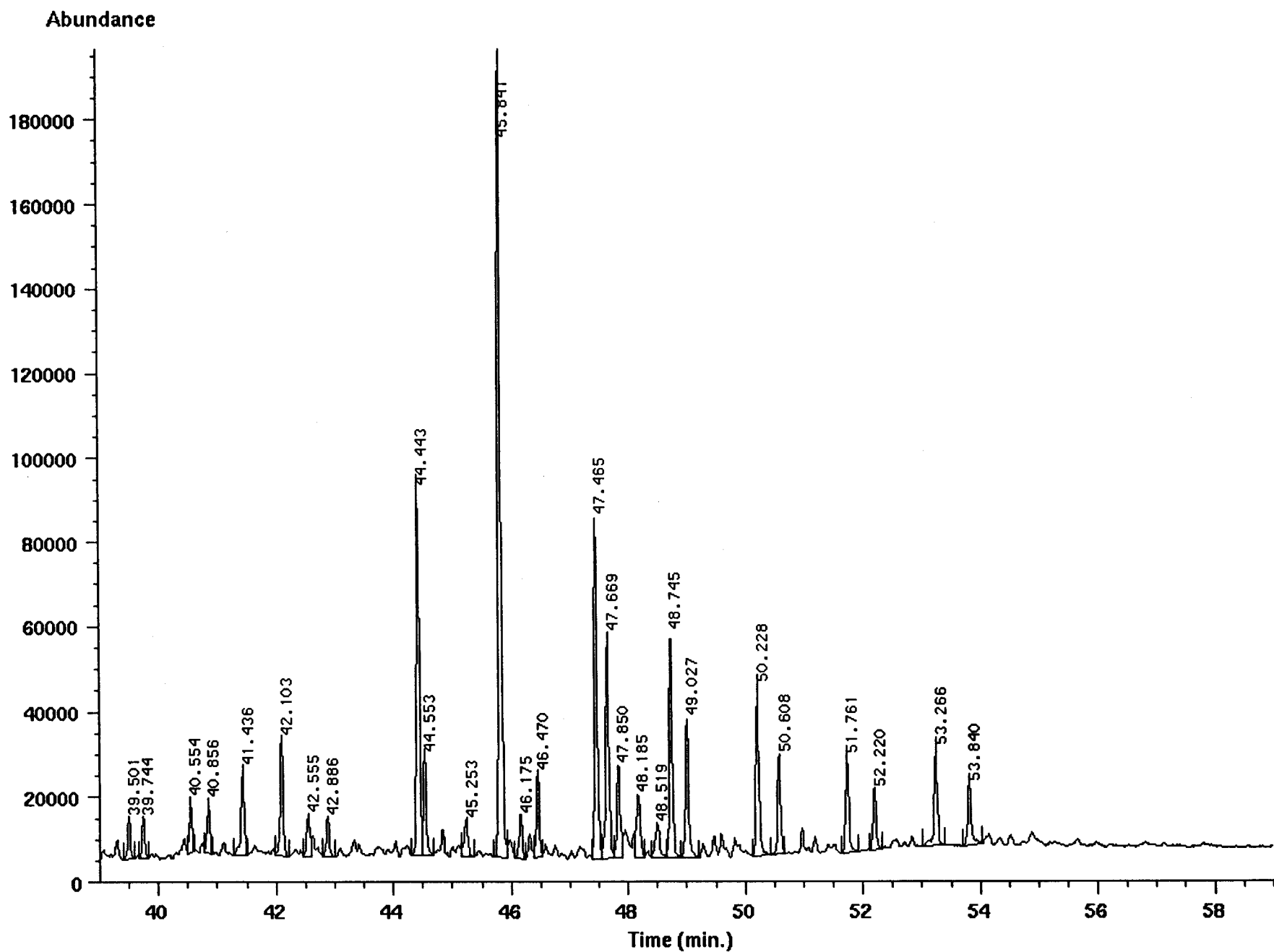
Ion 218.20 amu from To-3531.5-AL.d



Ion 217.20 amu from To-3531.5-AL.d



Ion 191.00 amu from To-3531.5-AL.d



Ion 191.00 amu from To-3531.5-AL.d  
Tordensk-3531.5m

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	39.501	PV	0.051	320585	39.405	39.596
2	39.744	VV	0.054	325099	39.677	39.828
3	40.554	VV	0.049	387834	40.493	40.620
4	40.856	VV	0.052	416970	40.792	40.930
5	41.436	BV	0.057	777794	41.289	41.512
6	42.103	VV	0.057	1015926	41.998	42.218
7	42.555	VV	0.060	400788	42.475	42.606
8	42.886	VB	0.057	347536	42.806	43.015
9	44.443	PV	0.055	3060196	44.316	44.506
10	44.553	VV	0.055	849645	44.506	44.688
11	45.253	VB	0.072	406057	45.166	45.371
12	45.841	BV	0.054	6789861	45.714	45.955
13	46.175	VV	0.059	399146	46.077	46.252
14	46.470	VV	0.056	715403	46.393	46.541
15	47.465	VV	0.050	2702161	47.382	47.556
16	47.669	VV	0.059	2047534	47.556	47.770
17	47.850	VV	0.059	904583	47.770	47.924
18	48.185	VV	0.076	734211	48.131	48.294
19	48.519	VV	0.082	447647	48.408	48.661
20	48.745	VV	0.055	1893098	48.661	48.901
21	49.027	VV	0.060	1287533	48.901	49.228
22	50.228	BB	0.057	1498835	50.147	50.450
23	50.608	BV	0.057	865787	50.458	50.698
24	51.761	PV	0.060	893633	51.649	51.952
25	52.220	BV	0.054	540216	52.144	52.337
26	53.266	BB	0.061	951246	53.038	53.414
27	53.840	BV	0.065	641528	53.709	54.053

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Area Percent Report  
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Data File Name : A:\TORD3648.D  
Operator : sk  
Instrument : GC 5890A  
Sample Name : Tordenskjold-1

Page Number : 1

Vial Number :

Injection Number :

Run Time Bar Code:

Sequence Line :

Acquired on : 05 Mar 94 08:43 AM

Instrument Method: GCN(1A).MT

Report Created on: 24 Jun 97 10:16 AM

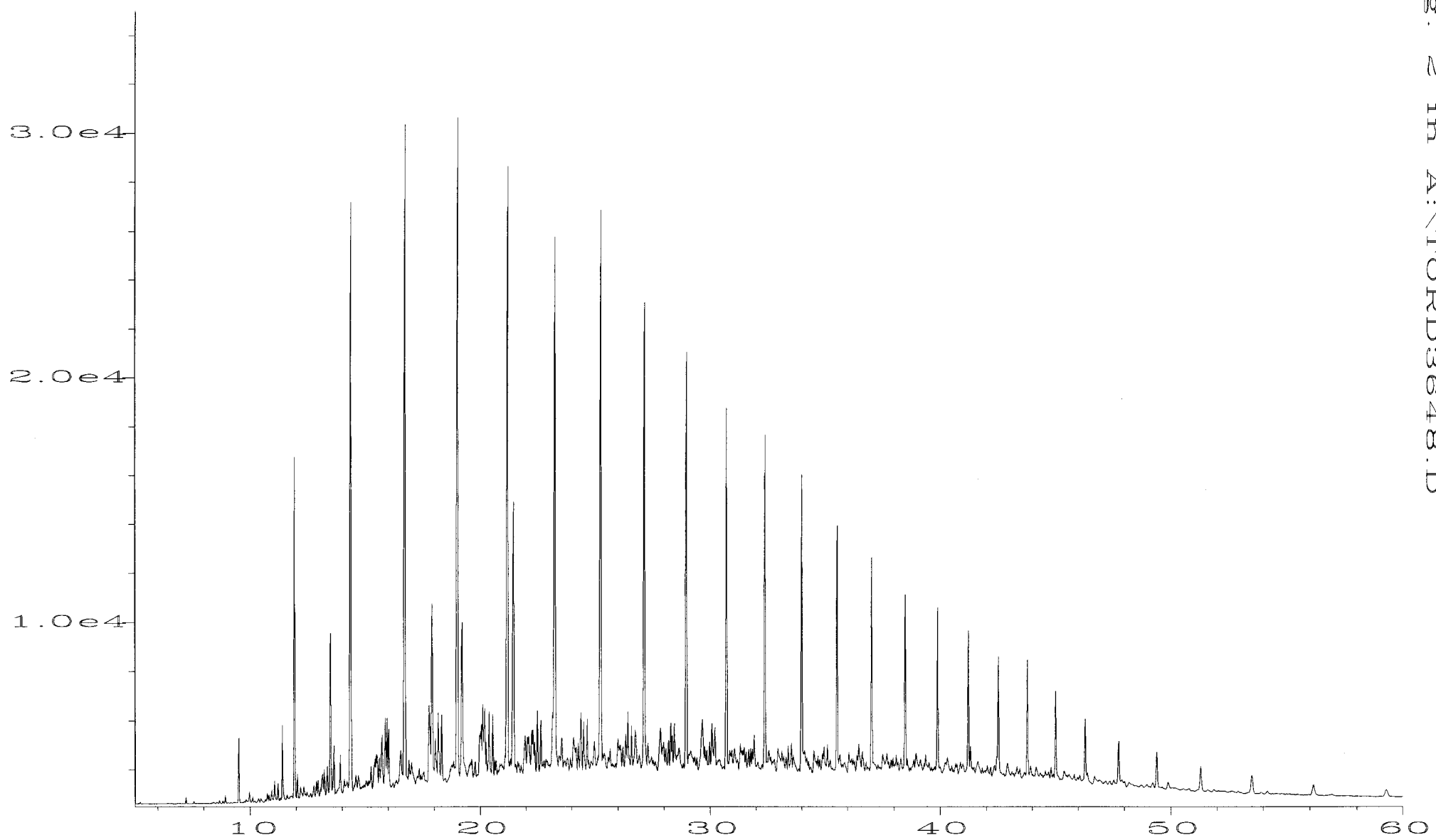
Analysis Method : DEFAULT.MT

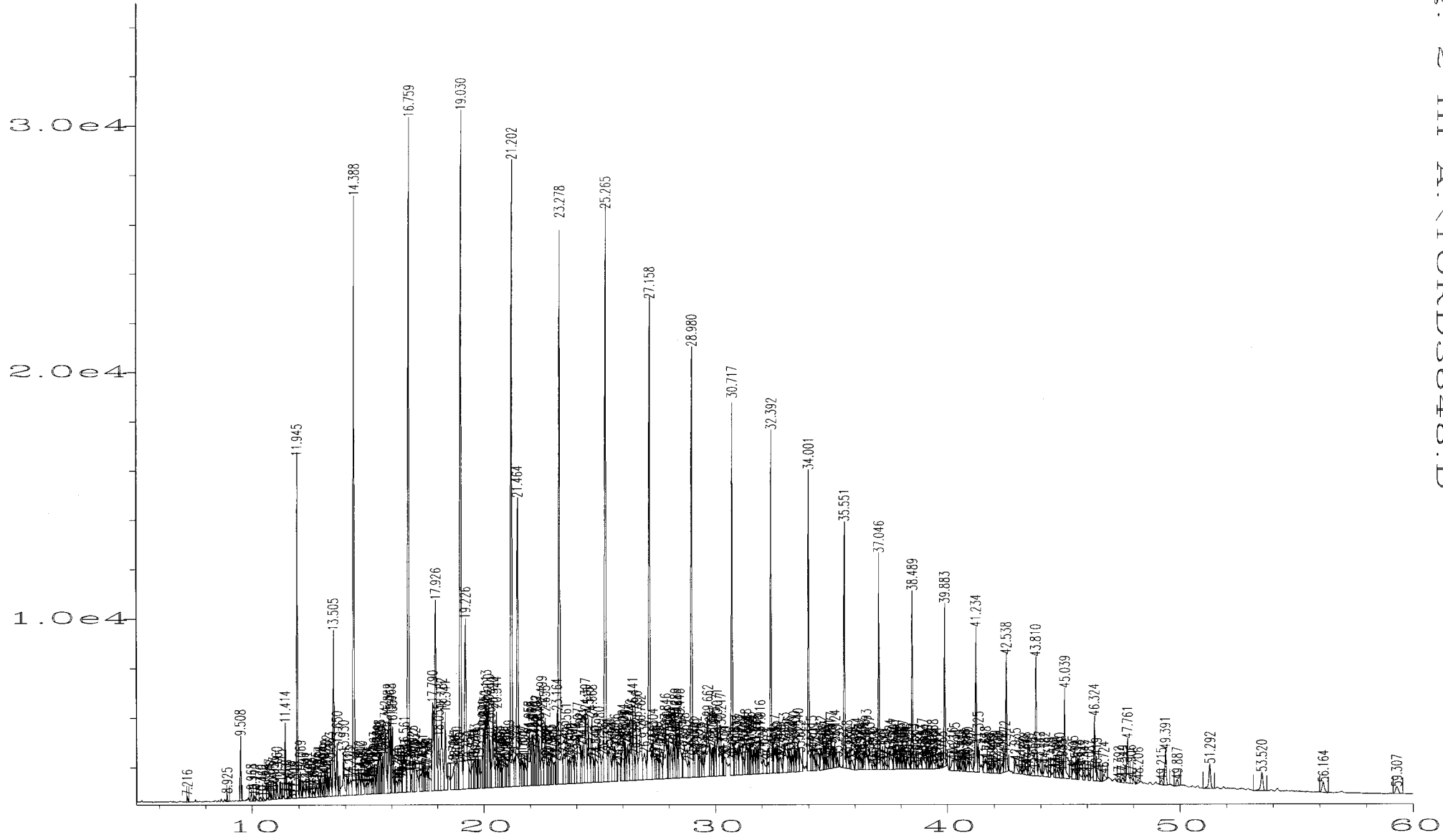
Sig. 2 in A:\TORD3648.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
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No results to report

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Area Percent Report

Data File Name : A:\TORD3648.D

Operator : sk

Instrument : GC 5890A

Sample Name : Tordenskjold-1

Run Time Bar Code:

Acquired on : 05 Mar 94 08:43 AM

Report Created on: 24 Jun 97 10:16 AM

Page Number : 1

Vial Number :

Injection Number :

Sequence Line :

Instrument Method: GCN(1A).MT

Analysis Method : DEFAULT.MT

Sig. 2 in A:\TORD3648.D

Pk#	Ret Time	Area	Height	Type	Width	Area %
---	-----	-----	-----	---	-----	-----
1	1.490	6255	2625	BV	0.040	0.0005
2	1.543	29080	10821	VV	0.044	0.0024
3	1.580	194114	227933	VV	0.014	0.0161
4	1.975	8.79134E+008	6.11152E+007	VV	0.240	72.6996
5	2.059	3.26798E+008	6.16755E+007	VV	0.068	27.0244
6	2.116	754880	222225	VV	0.057	0.0624
7	3.259	185	162	BB	0.018	0.0000
8	7.216	458	261	BB	0.028	0.0000
9	8.925	647	337	BB	0.030	0.0001
10	9.508	5351	2655	BV	0.032	0.0004
11	9.968	1275	447	VV	0.042	0.0001
12	10.111	638	231	VV	0.040	0.0001
13	10.370	729	165	PV	0.064	0.0001
14	10.466	671	156	VB	0.062	0.0001
15	10.747	873	345	VV	0.040	0.0001
16	10.816	586	259	VB	0.036	0.0000
17	10.933	1024	413	BV	0.037	0.0001
18	11.060	2179	808	VV	0.040	0.0002
19	11.215	1561	699	VV	0.034	0.0001
20	11.414	6853	3064	VV	0.036	0.0006
21	11.468	607	258	VV	0.039	0.0001
22	11.618	565	223	VV	0.037	0.0000
23	11.806	1314	174	VV	0.093	0.0001
24	11.945	33011	14085	VV	0.036	0.0027
25	12.069	2628	1053	VV	0.039	0.0002
26	12.206	2471	515	VV	0.065	0.0002
27	12.341	2065	544	VV	0.053	0.0002
28	12.426	500	221	VV	0.032	0.0000
29	12.488	1267	311	VV	0.057	0.0001
30	12.644	1029	245	VV	0.060	0.0001
31	12.775	2302	527	VV	0.060	0.0002
32	12.887	1870	705	VV	0.041	0.0002
33	12.958	2280	744	VV	0.045	0.0002
34	13.070	1138	417	VV	0.042	0.0001
35	13.129	1795	852	VV	0.035	0.0001
36	13.160	2490	1005	VV	0.036	0.0002
37	13.232	3383	1180	VV	0.044	0.0003
38	13.363	4479	1308	VV	0.050	0.0004
39	13.505	19444	6701	VV	0.043	0.0016
40	13.650	6880	2135	VV	0.046	0.0006

41	13.930	8442	1739	VV	0.067	0.0007
42	14.105	2946	732	VV	0.057	0.0002
43	14.223	3974	642	VV	0.084	0.0003
44	14.388	73515	24417	VV	0.041	0.0061
45	14.534	1833	490	VV	0.050	0.0002
46	14.602	4006	893	VV	0.062	0.0003
47	14.710	4833	857	VV	0.076	0.0004
48	14.891	1542	432	VV	0.049	0.0001
49	14.963	1801	481	VV	0.056	0.0001
50	15.055	3236	653	VV	0.067	0.0003
51	15.135	1836	648	VV	0.042	0.0002
52	15.191	1769	617	VV	0.043	0.0001
53	15.263	4309	1206	VV	0.052	0.0004
54	15.386	3800	1241	VV	0.051	0.0003
55	15.429	4014	1502	VV	0.038	0.0003
56	15.488	5287	1682	VV	0.044	0.0004
57	15.533	4402	1621	VV	0.039	0.0004
58	15.621	5434	1528	VV	0.050	0.0004
59	15.742	12435	2439	VV	0.068	0.0010
60	15.882	10587	3156	VV	0.048	0.0009
61	15.968	8949	3143	VV	0.042	0.0007
62	16.037	8063	2678	VV	0.045	0.0007
63	16.223	2512	490	VV	0.068	0.0002
64	16.326	1880	512	VV	0.061	0.0002
65	16.369	2412	622	VV	0.052	0.0002
66	16.461	1649	569	VV	0.040	0.0001
67	16.561	10788	1793	VV	0.078	0.0009
68	16.633	1441	849	VV	0.028	0.0001
69	16.759	92142	27444	VV	0.050	0.0076
70	16.806	1621	779	VV	0.035	0.0001
71	16.923	4887	1377	VV	0.051	0.0004
72	16.976	1164	833	VV	0.023	0.0001
73	17.032	5969	1276	VV	0.065	0.0005
74	17.288	4351	725	VV	0.077	0.0004
75	17.361	4032	1009	VV	0.059	0.0003
76	17.431	2603	778	VV	0.048	0.0002
77	17.530	3310	825	VV	0.058	0.0003
78	17.564	2898	875	VV	0.047	0.0002
79	17.790	18186	3556	VV	0.072	0.0015
80	17.926	31220	7709	VV	0.055	0.0026
81	18.055	10524	2201	VV	0.066	0.0009
82	18.182	13770	3243	VV	0.060	0.0011
83	18.341	12109	3160	VV	0.055	0.0010
84	18.704	6329	950	VV	0.086	0.0005
85	18.763	5091	1117	VV	0.063	0.0004
86	18.850	4778	1251	VV	0.052	0.0004
87	18.905	2405	1025	VV	0.034	0.0002
88	19.030	96025	27536	VV	0.048	0.0079
89	19.226	35550	6880	VV	0.067	0.0029
90	19.350	4690	1036	VV	0.075	0.0004
91	19.530	5494	1052	VV	0.087	0.0005
92	19.574	3315	1140	VV	0.041	0.0003
93	19.633	5327	1311	VV	0.058	0.0004
94	19.779	5253	1185	VV	0.062	0.0004
95	19.971	6309	2243	VV	0.046	0.0005

96	19.999	4961	2306	VV	0.036	0.0004
97	20.052	8034	2686	VV	0.043	0.0007
98	20.113	11562	3467	VV	0.048	0.0010
99	20.200	12554	3295	VV	0.053	0.0010
100	20.266	5455	1955	VV	0.041	0.0005
101	20.390	14468	3182	VV	0.061	0.0012
102	20.544	9722	3196	VV	0.045	0.0008
103	20.635	3778	1203	VV	0.047	0.0003
104	20.694	4112	1191	VV	0.050	0.0003
105	20.770	2275	781	VV	0.042	0.0002
106	20.860	5195	1028	VV	0.066	0.0004
107	20.932	4397	1013	VV	0.060	0.0004
108	20.987	3828	927	VV	0.056	0.0003
109	21.089	3947	1401	VV	0.047	0.0003
110	21.202	88112	25509	VV	0.047	0.0073
111	21.322	5092	1223	VV	0.057	0.0004
112	21.464	50504	11676	VV	0.061	0.0042
113	21.637	3540	1142	VV	0.047	0.0003
114	21.692	3855	1038	VV	0.053	0.0003
115	21.777	4964	922	VV	0.073	0.0004
116	21.958	14200	2121	VV	0.084	0.0012
117	22.068	6885	2061	VV	0.050	0.0006
118	22.116	6385	2092	VV	0.044	0.0005
119	22.163	3817	1487	VV	0.043	0.0003
120	22.252	7764	2328	VV	0.047	0.0006
121	22.307	8799	2344	VV	0.054	0.0007
122	22.381	6299	1842	VV	0.049	0.0005
123	22.499	12158	3111	VV	0.054	0.0010
124	22.653	10293	2717	VV	0.053	0.0009
125	22.726	3113	924	VV	0.045	0.0003
126	22.788	4389	1060	VV	0.056	0.0004
127	22.873	4169	1119	VV	0.053	0.0003
128	22.930	4207	1053	VV	0.051	0.0003
129	23.081	2342	941	VV	0.041	0.0002
130	23.164	10394	2964	VV	0.052	0.0009
131	23.278	86812	22985	VV	0.053	0.0072
132	23.453	7235	1245	VV	0.083	0.0006
133	23.561	9603	1966	VV	0.074	0.0008
134	23.657	3188	979	VV	0.043	0.0003
135	23.711	4150	1052	VV	0.055	0.0003
136	23.808	7732	1135	VV	0.087	0.0006
137	23.947	5080	1142	VV	0.059	0.0004
138	24.077	13814	1947	VV	0.096	0.0011
139	24.192	5852	1542	VV	0.051	0.0005
140	24.281	6790	1701	VV	0.059	0.0006
141	24.397	13208	2933	VV	0.065	0.0011
142	24.515	10905	2569	VV	0.058	0.0009
143	24.668	8999	2675	VV	0.049	0.0007
144	24.733	3608	1000	VV	0.050	0.0003
145	24.840	6679	946	VV	0.094	0.0006
146	24.980	9785	1749	VV	0.077	0.0008
147	25.128	5383	1095	VV	0.065	0.0004
148	25.265	79166	23555	VV	0.048	0.0065
149	25.351	5036	1250	VV	0.053	0.0004
150	25.420	8193	1234	VV	0.083	0.0007

151	25.594	5648	1101	VV	0.067	0.0005
152	25.666	6519	1415	VV	0.064	0.0005
153	25.756	2140	815	VV	0.038	0.0002
154	25.896	2542	804	VV	0.045	0.0002
155	26.004	8969	1814	VV	0.063	0.0007
156	26.074	4164	1552	VV	0.039	0.0003
157	26.123	5113	1535	VV	0.050	0.0004
158	26.217	6999	1455	VV	0.066	0.0006
159	26.342	9093	1981	VV	0.062	0.0008
160	26.441	9469	2881	VV	0.048	0.0008
161	26.498	3275	1050	VV	0.043	0.0003
162	26.596	7923	2297	VV	0.049	0.0007
163	26.762	15255	2142	VV	0.092	0.0013
164	26.930	8559	1086	VV	0.096	0.0007
165	27.158	69540	19488	VV	0.051	0.0058
166	27.304	7224	1563	VV	0.065	0.0006
167	27.418	2871	852	VV	0.044	0.0002
168	27.469	3671	1002	VV	0.051	0.0003
169	27.535	3501	843	VV	0.055	0.0003
170	27.631	5289	804	VV	0.085	0.0004
171	27.846	14905	2144	VV	0.091	0.0012
172	27.930	3394	1399	VV	0.035	0.0003
173	27.984	6087	1566	VV	0.052	0.0005
174	28.069	6034	1290	VV	0.065	0.0005
175	28.191	6059	1620	VV	0.056	0.0005
176	28.289	7349	2344	VV	0.046	0.0006
177	28.346	5742	1830	VV	0.047	0.0005
178	28.446	11171	2305	VV	0.067	0.0009
179	28.571	2838	1017	VV	0.042	0.0002
180	28.648	10692	1300	VV	0.108	0.0009
181	28.838	3010	662	VV	0.064	0.0002
182	28.980	56442	17472	VV	0.045	0.0047
183	29.076	4380	1047	VV	0.056	0.0004
184	29.172	8268	1177	VV	0.091	0.0007
185	29.256	2455	875	VV	0.036	0.0002
186	29.325	4255	910	VV	0.061	0.0004
187	29.423	3724	854	VV	0.060	0.0003
188	29.662	19068	2420	VV	0.098	0.0016
189	29.768	4671	1330	VV	0.050	0.0004
190	29.850	4146	1154	VV	0.051	0.0003
191	29.973	5153	1486	VV	0.050	0.0004
192	30.071	10208	2219	VV	0.060	0.0008
193	30.217	9602	2049	VV	0.065	0.0008
194	30.334	1322	701	VV	0.030	0.0001
195	30.401	3036	755	VV	0.051	0.0003
196	30.717	46789	15262	VV	0.046	0.0039
197	30.788	1431	620	VV	0.038	0.0001
198	30.857	4137	1118	VV	0.052	0.0003
199	30.938	5597	1104	VV	0.069	0.0005
200	31.057	8150	1164	VV	0.089	0.0007
201	31.202	2945	717	VV	0.056	0.0002
202	31.318	6072	1340	VV	0.061	0.0005
203	31.374	2101	1043	VV	0.030	0.0002
204	31.422	2584	1063	VV	0.041	0.0002
205	31.478	4110	1203	VV	0.046	0.0003

206	31.558	3403	1000	VV	0.050	0.0003
207	31.677	4601	1092	VV	0.058	0.0004
208	31.765	3689	1120	VV	0.047	0.0003
209	31.840	3673	1097	VV	0.051	0.0003
210	31.916	7472	1670	VV	0.062	0.0006
211	32.071	3725	560	VV	0.084	0.0003
212	32.263	1938	459	VV	0.058	0.0002
213	32.392	40570	13943	VV	0.043	0.0034
214	32.454	1642	585	VV	0.038	0.0001
215	32.557	5812	1048	VV	0.071	0.0005
216	32.639	2619	744	VV	0.048	0.0002
217	32.714	1713	561	VV	0.042	0.0001
218	32.799	3539	643	VV	0.069	0.0003
219	32.953	8327	1119	VV	0.092	0.0007
220	33.126	3612	965	VV	0.052	0.0003
221	33.202	2871	751	VV	0.050	0.0002
222	33.314	2887	758	VV	0.054	0.0002
223	33.400	3351	1154	VV	0.044	0.0003
224	33.540	5566	1255	VV	0.065	0.0005
225	33.622	4119	772	VV	0.073	0.0003
226	34.001	35564	12268	VV	0.044	0.0029
227	34.115	4350	921	VV	0.060	0.0004
228	34.209	2710	629	VV	0.056	0.0002
229	34.291	1579	478	VV	0.044	0.0001
230	34.532	4792	903	PV	0.071	0.0004
231	34.648	1119	479	VV	0.034	0.0001
232	34.707	1801	656	VV	0.040	0.0001
233	34.787	1608	518	VV	0.042	0.0001
234	34.901	2375	709	VV	0.050	0.0002
235	34.977	3686	984	VV	0.053	0.0003
236	35.124	3283	1039	VV	0.049	0.0003
237	35.240	1324	406	VV	0.046	0.0001
238	35.551	28122	9994	VV	0.043	0.0023
239	35.668	3743	651	VV	0.071	0.0003
240	35.784	896	324	VV	0.039	0.0001
241	35.869	2480	379	VV	0.083	0.0002
242	36.054	3696	817	PV	0.062	0.0003
243	36.173	2060	564	VV	0.049	0.0002
244	36.234	1876	553	VV	0.047	0.0002
245	36.303	1233	453	VV	0.040	0.0001
246	36.418	2231	715	VV	0.044	0.0002
247	36.493	5769	1147	VV	0.066	0.0005
248	36.637	3934	835	VV	0.063	0.0003
249	36.800	1336	416	VV	0.048	0.0001
250	36.873	699	220	VV	0.043	0.0001
251	37.046	23686	8770	VV	0.042	0.0020
252	37.121	1998	402	VV	0.070	0.0002
253	37.196	1172	312	VV	0.063	0.0001
254	37.315	1255	309	VV	0.058	0.0001
255	37.524	4321	718	VV	0.083	0.0004
256	37.652	930	442	VV	0.035	0.0001
257	37.707	3002	760	VV	0.054	0.0002
258	37.779	1013	409	VV	0.035	0.0001
259	37.883	1834	520	VV	0.052	0.0002
260	37.955	1681	560	VV	0.044	0.0001

261	38.038	1032	326	VV	0.044	0.0001
262	38.097	1999	668	VV	0.042	0.0002
263	38.174	1232	408	VV	0.043	0.0001
264	38.296	2521	546	VV	0.063	0.0002
265	38.489	20513	7201	VV	0.044	0.0017
266	38.563	2032	522	VV	0.056	0.0002
267	38.693	453	152	VV	0.046	0.0000
268	38.847	2318	490	VV	0.066	0.0002
269	38.937	4507	739	VV	0.080	0.0004
270	39.080	372	271	VV	0.023	0.0000
271	39.130	1775	483	VV	0.051	0.0001
272	39.187	627	285	VV	0.037	0.0001
273	39.302	988	328	VV	0.042	0.0001
274	39.368	3090	690	VV	0.062	0.0003
275	39.514	1312	375	VV	0.052	0.0001
276	39.622	363	181	PV	0.032	0.0000
277	39.763	397	171	VV	0.032	0.0000
278	39.883	17232	6583	VV	0.040	0.0014
279	40.216	2793	442	BV	0.081	0.0002
280	40.315	3692	651	VV	0.072	0.0003
281	40.501	911	330	VV	0.040	0.0001
282	40.674	1623	432	VV	0.053	0.0001
283	40.728	1163	421	VV	0.037	0.0001
284	40.880	2377	494	VV	0.069	0.0002
285	40.977	2614	432	VV	0.075	0.0002
286	41.234	16774	5876	VV	0.042	0.0014
287	41.325	3817	1154	VV	0.049	0.0003
288	41.638	3986	577	VV	0.089	0.0003
289	41.718	932	296	VV	0.053	0.0001
290	41.833	968	307	VV	0.047	0.0001
291	41.945	943	222	VV	0.054	0.0001
292	42.059	2435	434	VV	0.072	0.0002
293	42.206	1187	363	VV	0.043	0.0001
294	42.360	1888	404	PV	0.060	0.0002
295	42.472	2378	772	VV	0.045	0.0002
296	42.538	13649	4767	VV	0.043	0.0011
297	42.935	2971	529	PV	0.072	0.0002
298	43.133	610	215	VV	0.038	0.0001
299	43.282	402	172	VV	0.034	0.0000
300	43.348	1911	430	VV	0.058	0.0002
301	43.478	1255	376	VV	0.051	0.0001
302	43.668	1440	254	PV	0.077	0.0001
303	43.810	13941	4833	VV	0.044	0.0012
304	43.942	2482	515	VV	0.067	0.0002
305	44.182	3661	502	VV	0.092	0.0003
306	44.376	1471	302	VV	0.062	0.0001
307	44.591	1415	376	VV	0.053	0.0001
308	44.728	2056	351	VV	0.080	0.0002
309	44.840	1985	523	VV	0.053	0.0002
310	44.933	943	275	VV	0.047	0.0001
311	45.039	12059	3655	VV	0.050	0.0010
312	45.405	3017	447	VV	0.091	0.0002
313	45.532	722	264	VV	0.036	0.0001
314	45.618	1116	303	VV	0.049	0.0001
315	45.842	1331	333	VV	0.057	0.0001

316	46.087	1447	340	VV	0.062	0.0001
317	46.324	8855	2628	VV	0.050	0.0007
318	46.419	2272	450	VV	0.064	0.0002
319	46.724	1576	282	PV	0.077	0.0001
320	47.392	717	160	PV	0.058	0.0001
321	47.549	992	217	VV	0.063	0.0001
322	47.761	7601	1805	VV	0.063	0.0006
323	47.906	1583	263	VV	0.077	0.0001
324	48.206	615	140	PV	0.058	0.0001
325	49.215	888	195	BV	0.060	0.0001
326	49.391	5811	1448	PB	0.062	0.0005
327	49.887	1333	259	BV	0.068	0.0001
328	51.292	5391	1015	BV	0.072	0.0004
329	53.520	4947	770	BB	0.083	0.0004
330	56.164	2793	416	BV	0.085	0.0002
331	59.307	2347	279	BB	0.106	0.0002

Total area = 1.20927E+009

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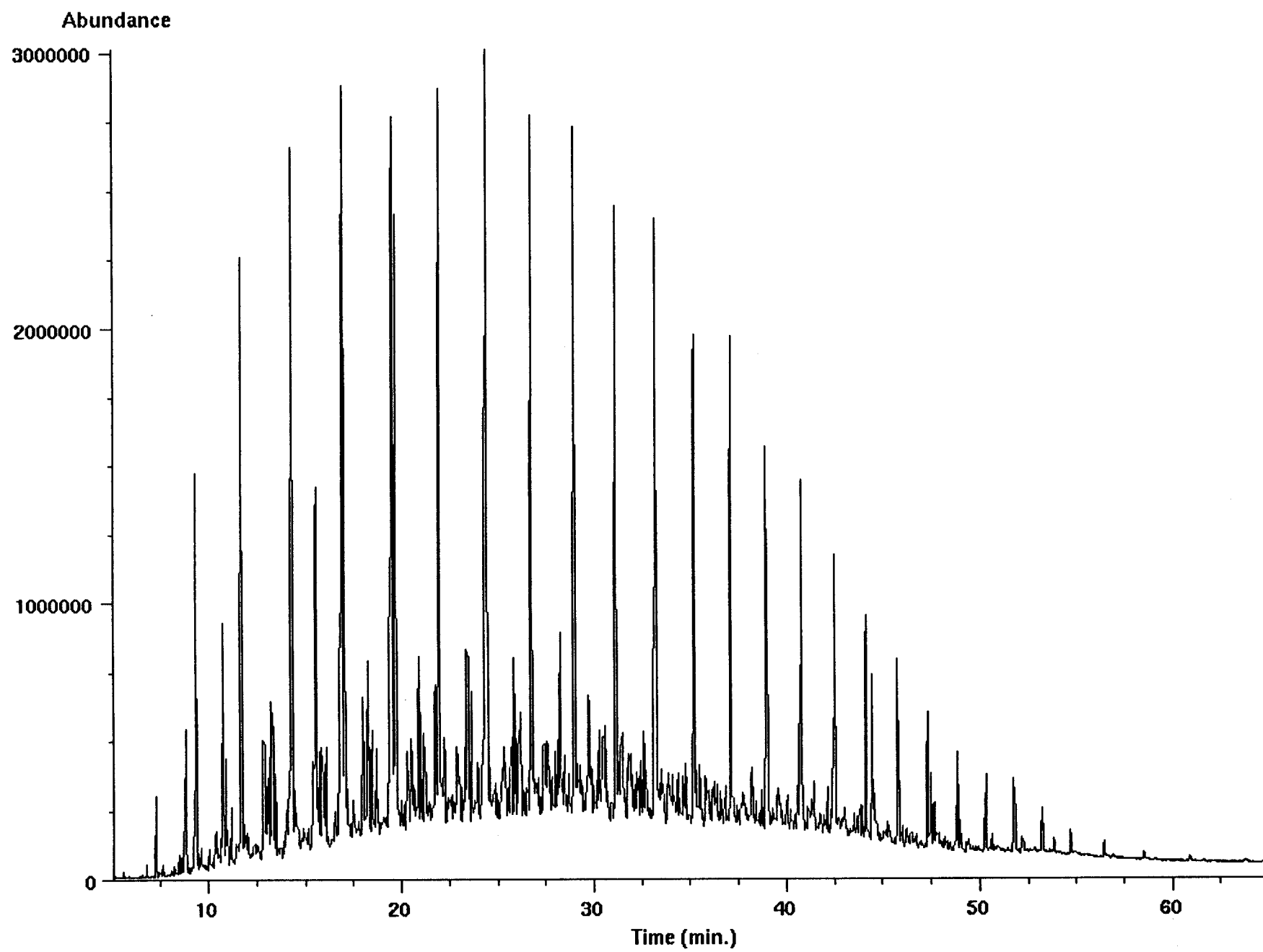
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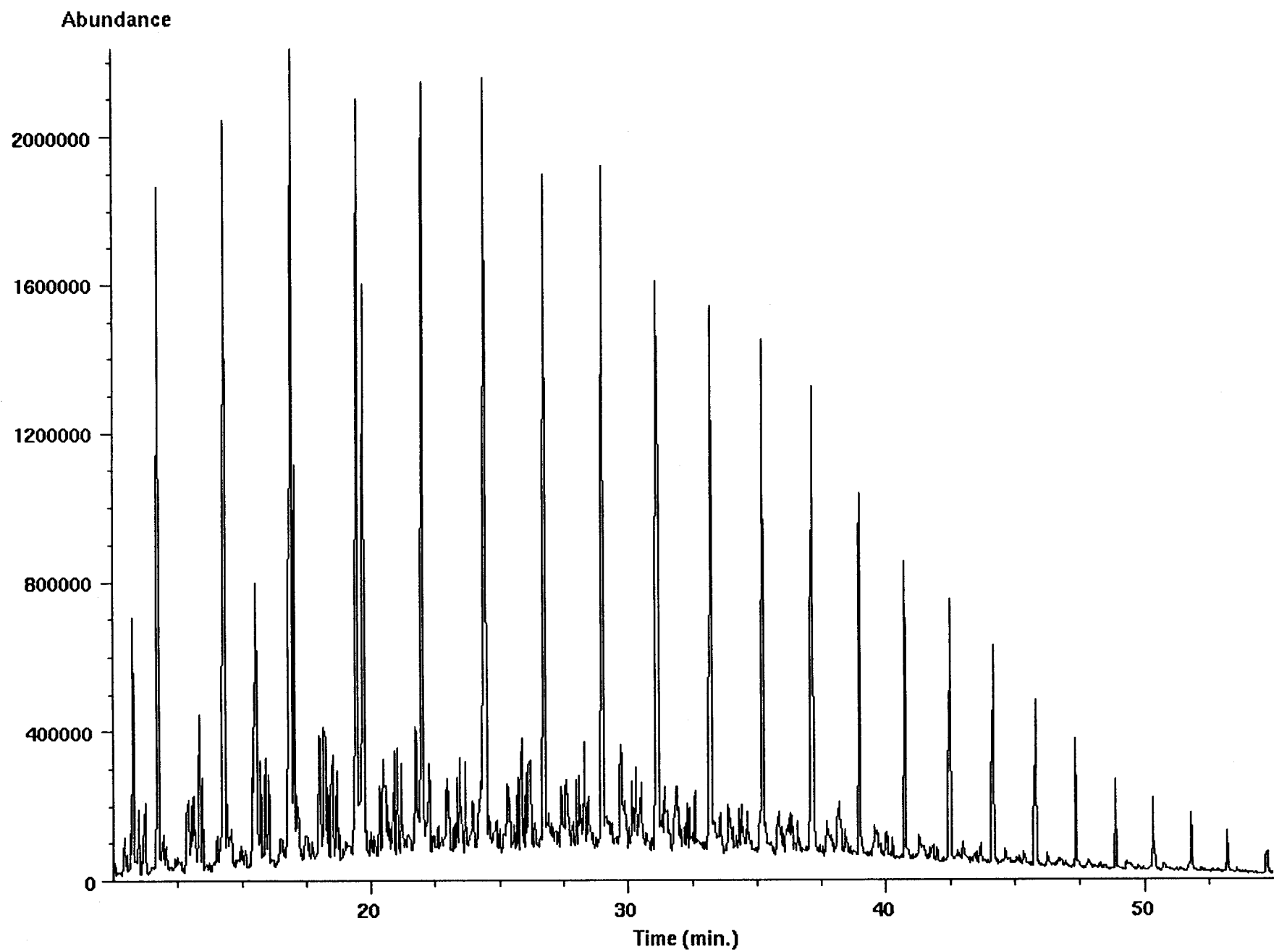
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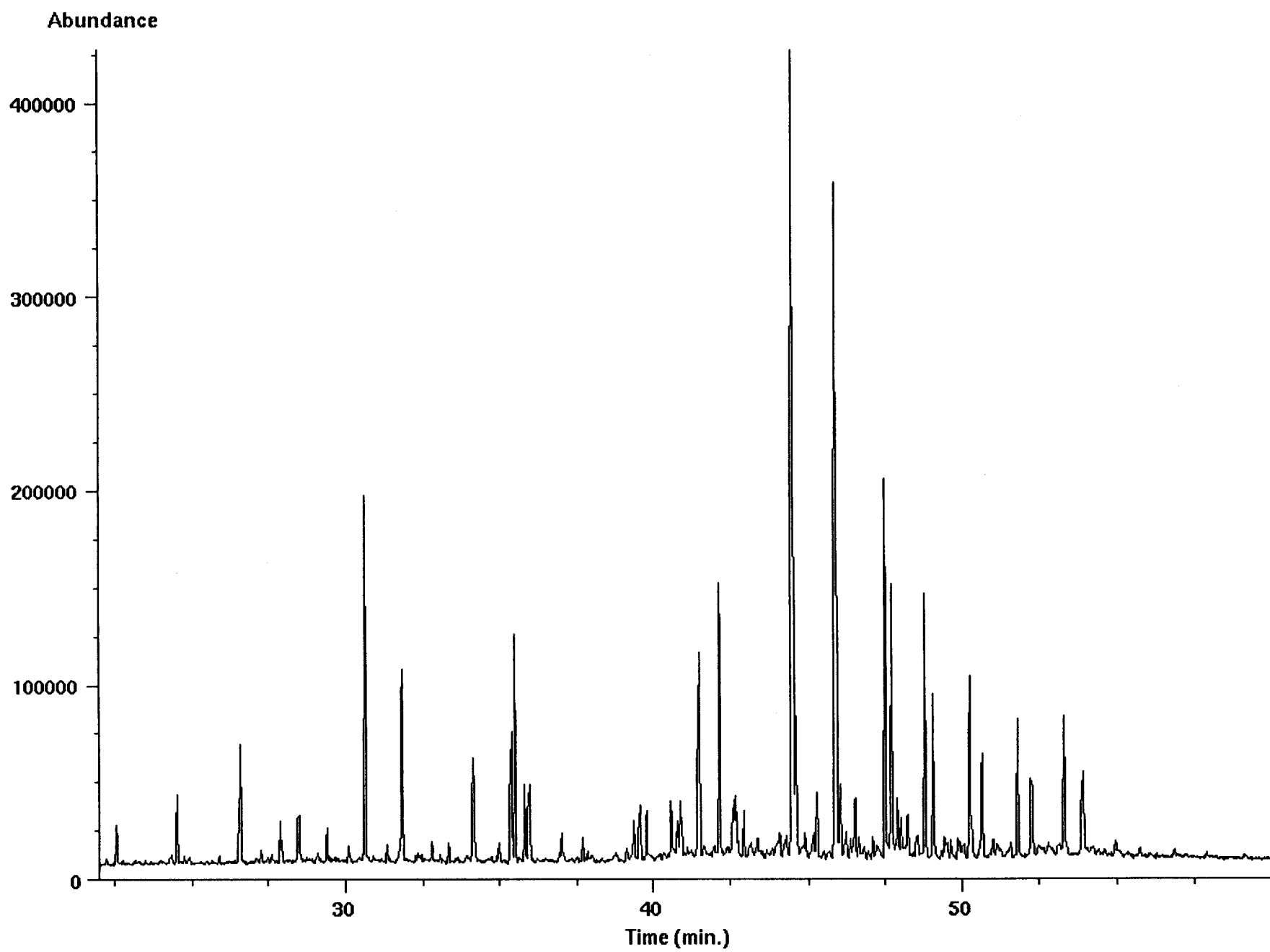
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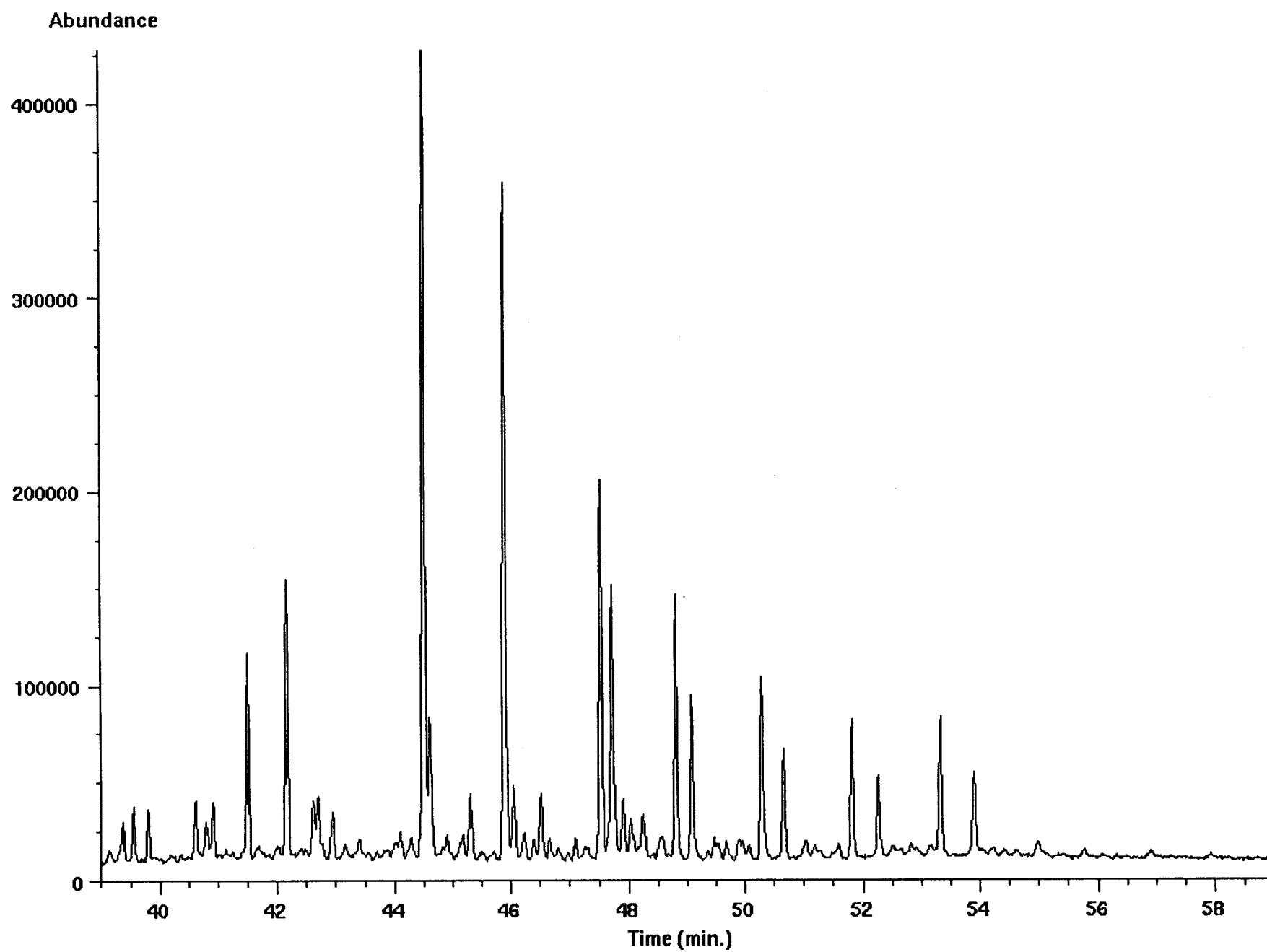
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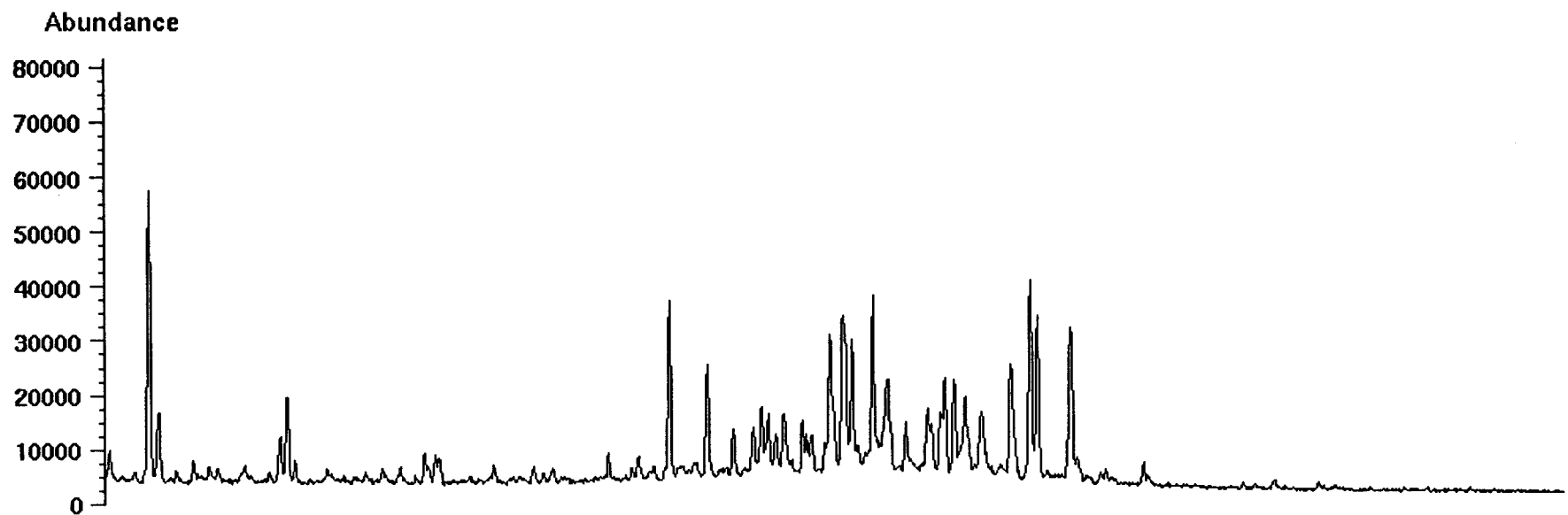
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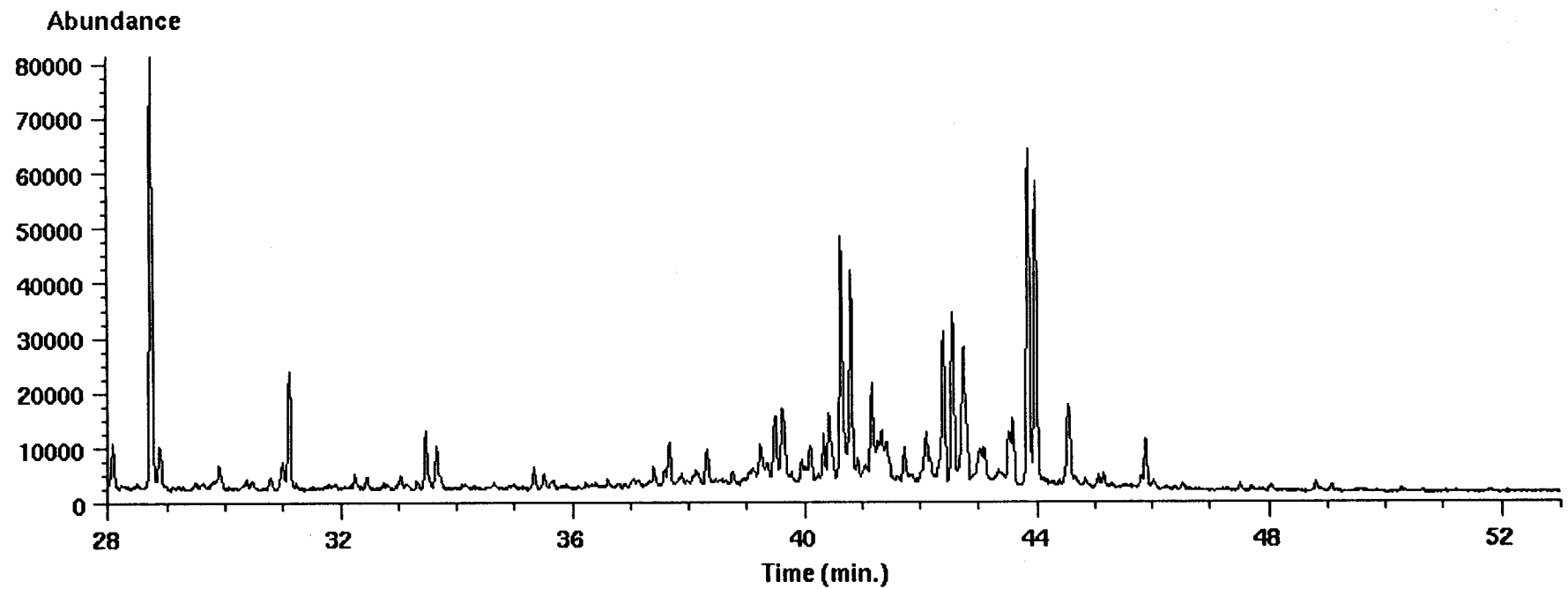
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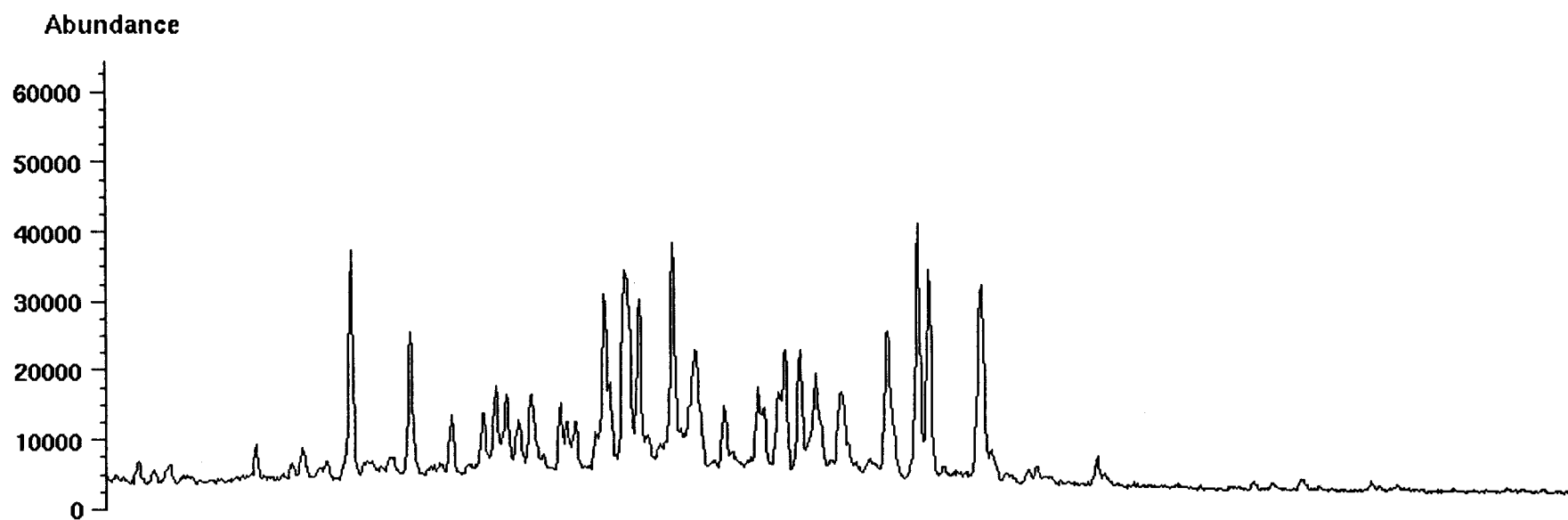
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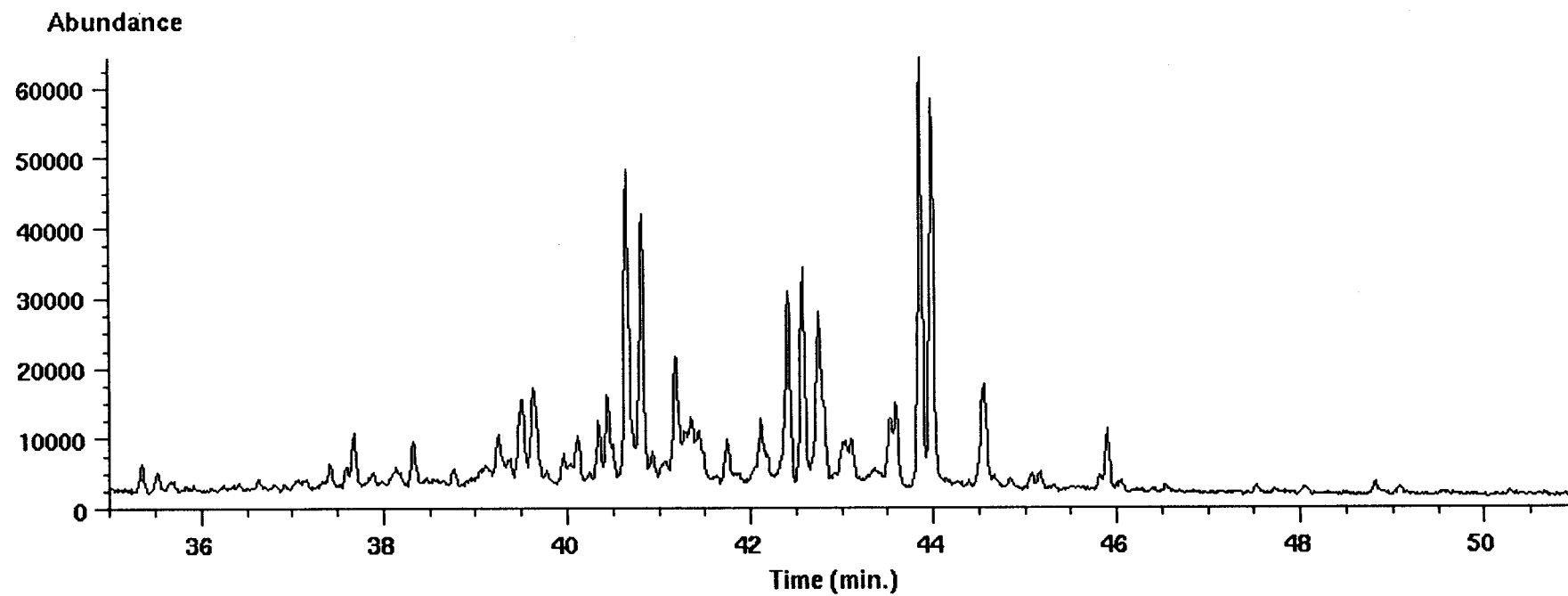
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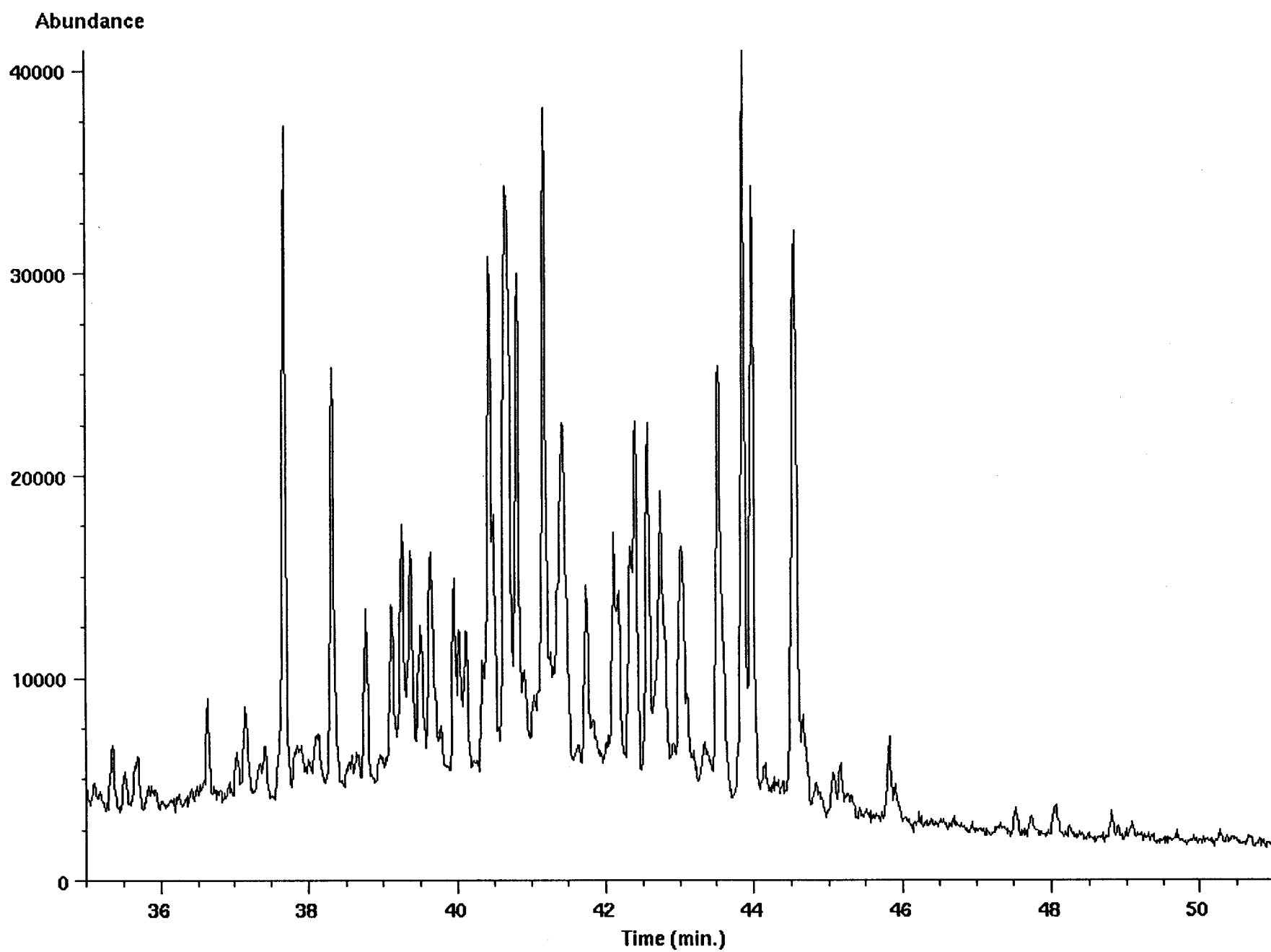
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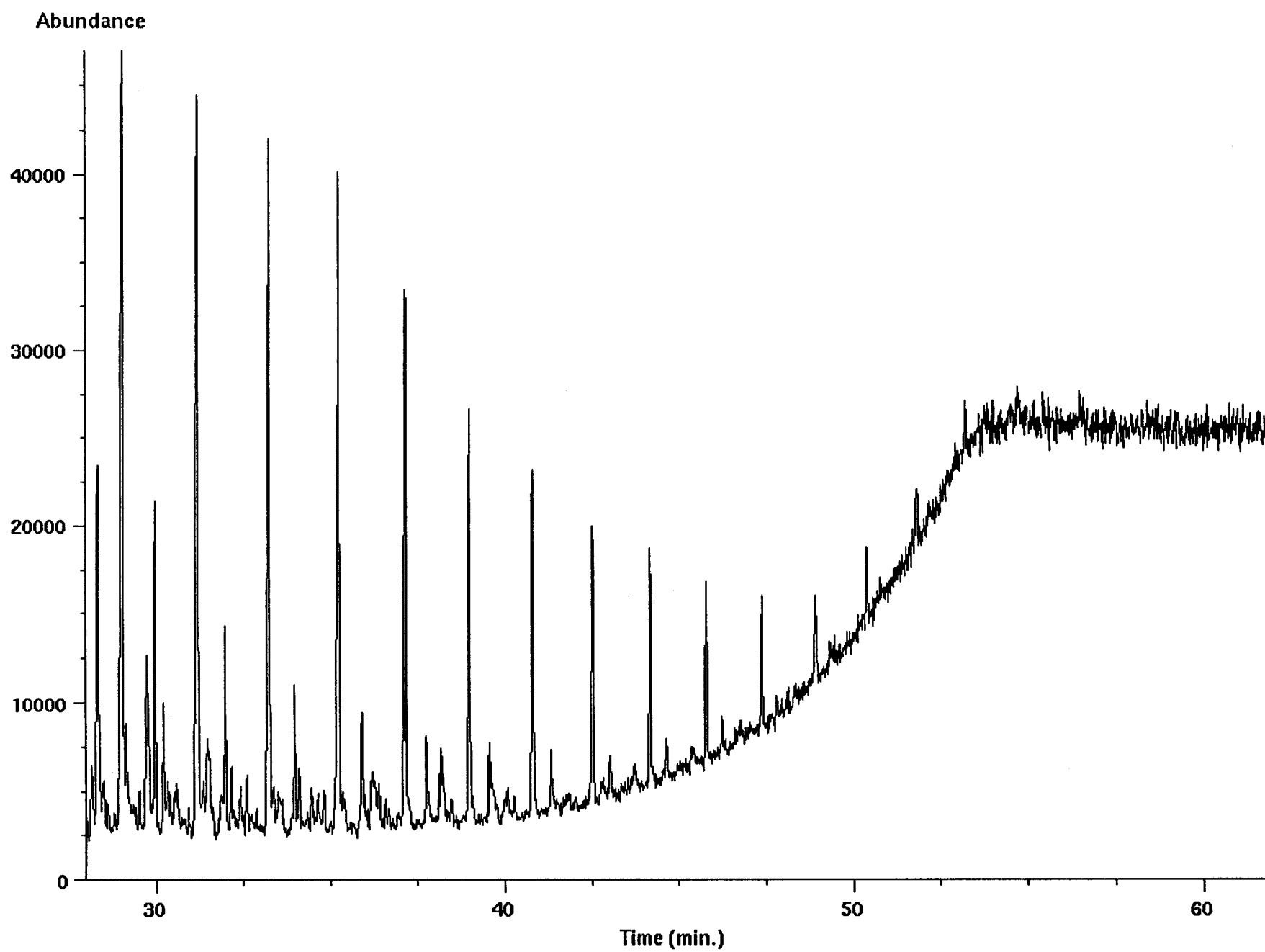
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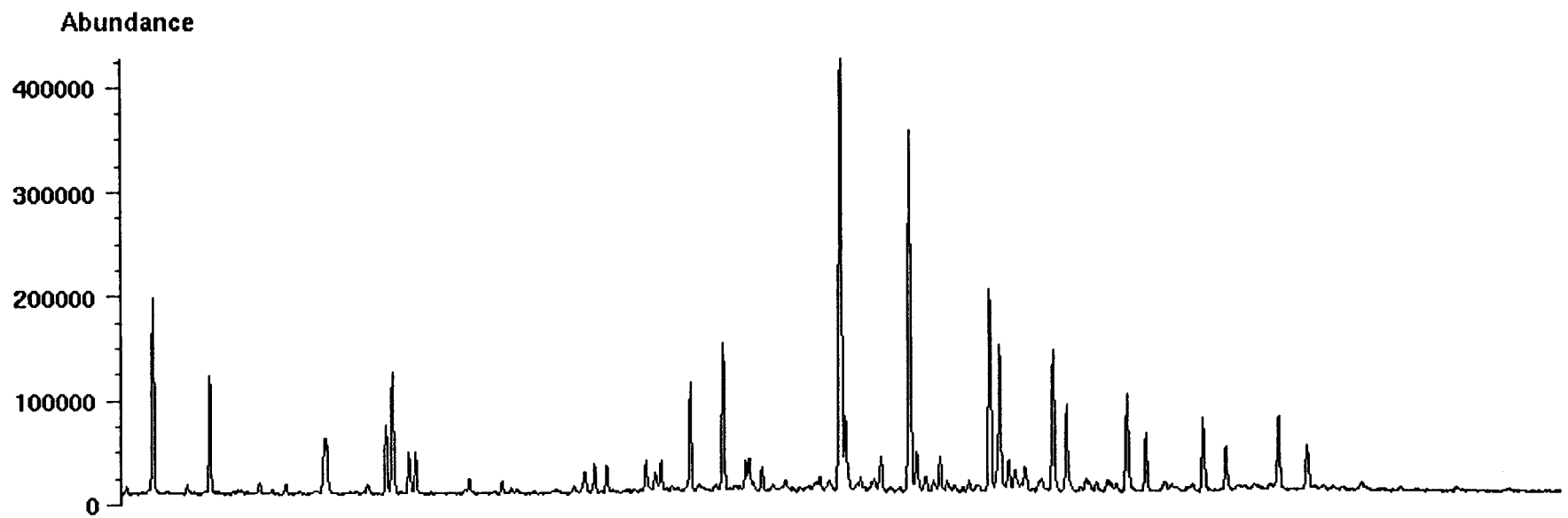


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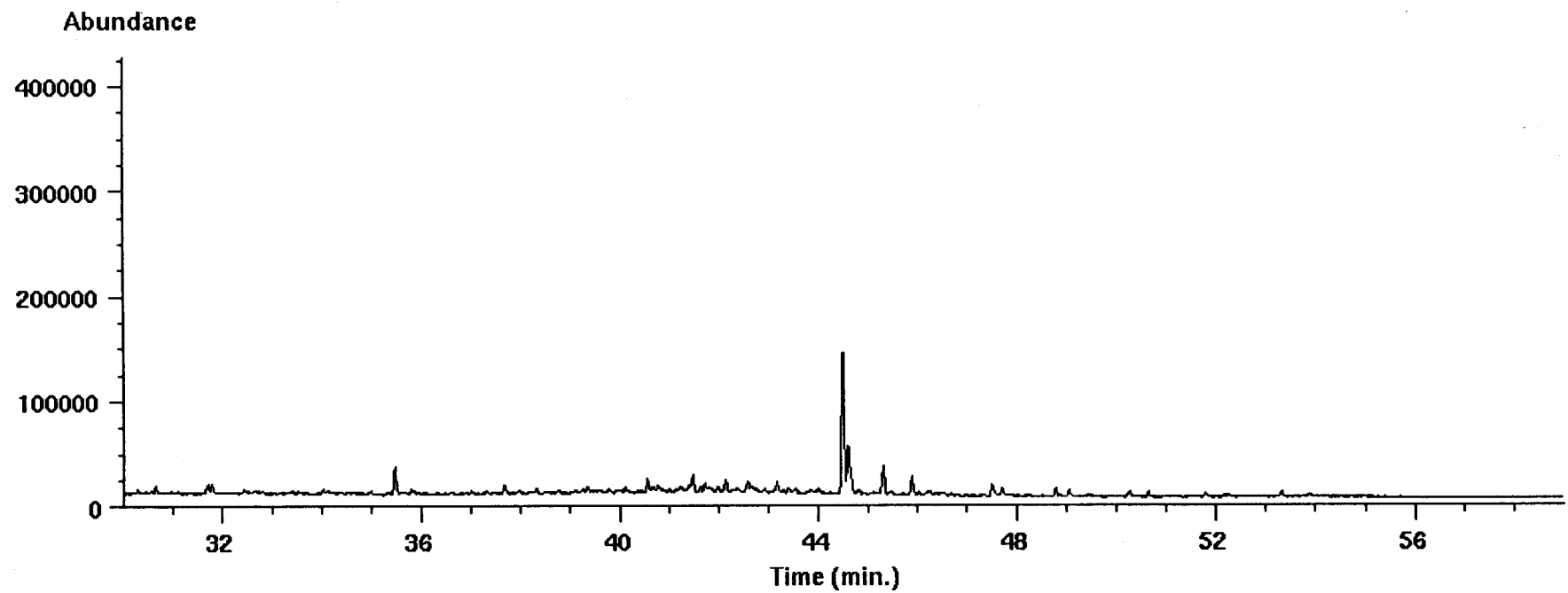




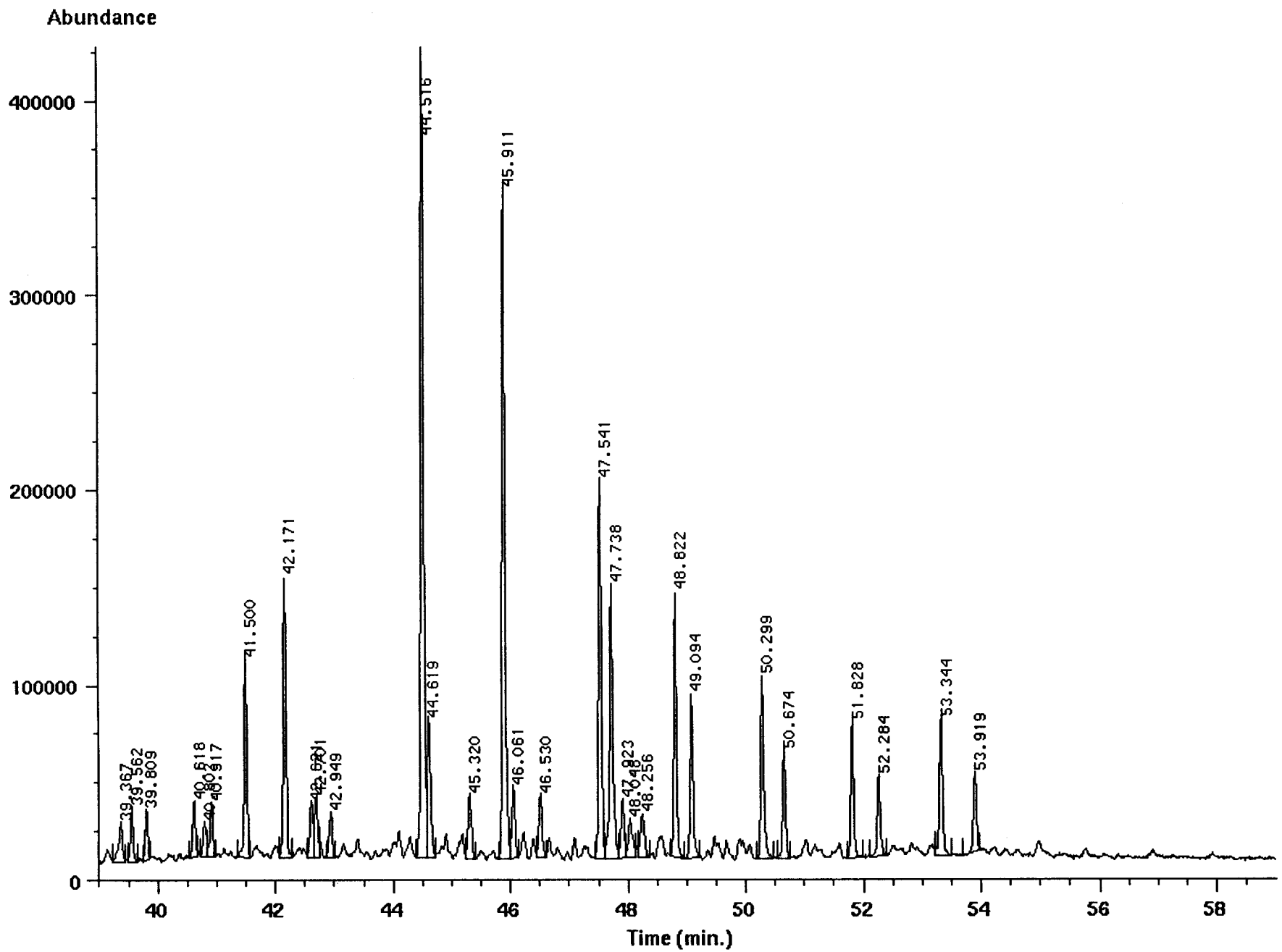
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Ion 191.00 amu from To-3648m-ali.d  
Tordensk-3648m

Peak#	Ret Time	Type	Width	Area	Start Time	End Time
1	39.367	VV	0.079	970410	39.228	39.453
2	39.562	VV	0.048	893546	39.498	39.648
3	39.809	PB	0.049	816116	39.743	39.872
4	40.618	BV	0.054	1005490	40.541	40.681
5	40.802	VV	0.055	644932	40.733	40.847
6	40.917	VV	0.054	953926	40.847	40.980
7	41.500	BV	0.050	3371557	41.366	41.584
8	42.171	VV	0.056	5111470	42.075	42.297
9	42.621	VV	0.051	988973	42.555	42.657
10	42.701	VV	0.061	1283421	42.657	42.766
11	42.949	VV	0.055	814369	42.870	43.019
12	44.516	VV	0.058	15332944	44.404	44.579
13	44.619	VV	0.063	2964529	44.579	44.731
14	45.320	VV	0.061	1310419	45.246	45.421
15	45.911	PV	0.053	12134412	45.808	46.000
16	46.061	VV	0.063	1479750	46.000	46.146
17	46.530	VV	0.062	1289220	46.458	46.616
18	47.541	BV	0.055	6744946	47.454	47.617
19	47.738	VV	0.058	5615578	47.617	47.861
20	47.923	VV	0.057	1197877	47.861	47.987
21	48.048	VV	0.069	993140	47.987	48.144
22	48.256	VV	0.071	1092314	48.194	48.379
23	48.822	BV	0.045	4438413	48.736	48.959
24	49.094	PV	0.056	2992724	48.959	49.242
25	50.299	BV	0.055	3543199	50.215	50.480
26	50.674	VV	0.057	2037282	50.560	50.782
27	51.828	PB	0.051	2398303	51.743	52.002
28	52.284	BV	0.058	1578305	52.131	52.408
29	53.344	VV	0.062	2889420	53.240	53.530
30	53.919	BV	0.060	1598579	53.721	54.002

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