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Title

GEOCHEMICAL DATA REPORT FOR WELL 6407/9-4

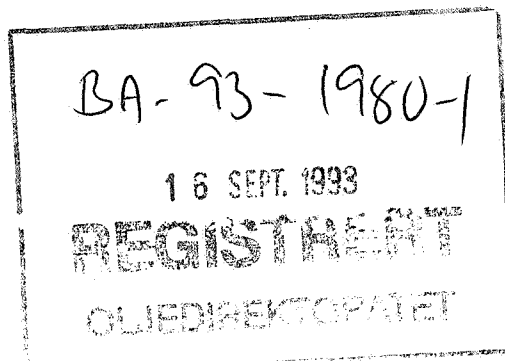
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Abstract

36 samples from the cored interval in well 6407/9-4 have been analysed by Iatroscan (TCL-FID).
3 samples were analysed by GC-FID and GC/MS.

NOT INCLUDED IN WELL TRADE.



Key Words

6407/9-4, geochemistry, Iatroscan, GC-FID, GC/MS

Classification: Free Saga and partners Internal Confidential Strictly confidential

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1 Objectives

The objective of this study was to characterise the extractable hydrocarbons in 36 core samples from well 6407/9-4.

2 General well information

The well was drilled by Shell as operator of licence 093 from 7.4.85 to 10.9.85 and reached a total depth of 1820 mRKB. The KB of the rig was 32 metres and the water depth was 244 metres.

3 Samples and analytical scheme

36 samples were picked from the cored interval in the period 29th to 30th July 1991. All samples were analysed by Iatroscan (TLC-FID), and the saturated hydrocarbon fractions from 3 samples were analysed by GC-FID and GC/MS.

4 Vitrinite reflectance

No samples were analysed.

5 TOC and Rock Eval

No samples were analysed.

6 Iatroscan (TLC-FID)

36 samples were analysed, and the results are tabulated in Table 1.

7 GC-FID

The saturated hydrocarbon fractions from 3 samples were analysed by Saga Petroleum a.s.. The GC-FID chromatograms are shown in figure 1.

8 GC/MS

The GC/MS analyses were performed by Saga Petroleum a.s. The saturated hydrocarbon fractions from the samples were analysed by GC/MS and the mass chromatograms for m/z 191, 177, 217 and 218 are shown in figure 2. Selected biological marker parameters manually measured by Saga are given in table 2.

9 Stable carbon isotopes

No samples were analysed.

Table 1.

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6407/9-4

Page 1

Type	St.Depth	En.Depth	Weight (g)	EOM mg/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (mg/g)	Polars (mg/g)	TOC (%)	M/I
CCP	1666.00	1666.00	2.47	7.50		4.30	1.78			1.43		I
CCP	1668.00	1668.00	3.04	12.24		6.62	3.41			2.22		I
CCP	1670.00	1670.00	2.96	1.50		0.71	0.00			0.79		I
CCP	1671.00	1671.00	2.52	6.09		0.62	0.48			4.98		I
CCP	1673.10	1673.10	3.29	1.84		0.68	0.27			0.89		I
CCP	1674.00	1674.00	2.06	2.42		0.17	0.09			2.16		I
CCP	1676.30	1676.30	3.36	0.23		0.07	0.00			0.16		I
CCP	1677.00	1677.00	2.90	1.72		0.69	0.20			0.82		I
CCP	1679.00	1679.00	2.93	2.15		1.01	0.34			0.80		I
CCP	1680.00	1680.00	3.17	2.34		1.09	0.31			0.94		I
CCP	1682.00	1682.00	2.30	1.82		0.99	0.40			0.43		I
CCP	1684.00	1684.00	3.05	0.16		0.04	0.00			0.11		I
CCP	1685.70	1685.70	3.40	0.24		0.00	0.00			0.24		I
CCP	1687.00	1687.00	2.65	0.53		0.00	0.00			0.53		I
CCP	1687.70	1687.70	2.65	0.36		0.00	0.00			0.36		I

36 RESULT(s) selected ..., from the following search criteria:

Company: SAG, Nat: NOR, Well:

6407/9-4, Type: CCP, Depth between:

0.000 and 99999.990 m, MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6407/9-4

Page 2

Type	St.Depth	En.Depth	Weight (g)	EOM mg/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (mg/g)	Polars (mg/g)	TOC (%)	M/I
CCP	1688.50	1688.50	3.18	0.56		0.00	0.00			0.56		I
CCP	1689.50	1689.50	2.45	1.01		0.00	0.00			1.01		I
CCP	1691.00	1691.00	1.81	2.61		0.13	0.11			2.37		I
CCP	1691.90	1691.90	2.54	0.30		0.00	0.00			0.30		I
CCP	1693.00	1693.00	2.58	0.99		0.00	0.00			0.99		I
CCP	1694.00	1694.00	3.00	1.25		0.00	0.00			1.25		I
CCP	1695.00	1695.00	2.32	1.29		0.00	0.00			1.29		I
CCP	1696.00	1696.00	2.27	1.98		0.07	0.00			1.91		I
CCP	1697.50	1697.50	2.37	1.46		0.00	0.00			1.46		I
CCP	1699.00	1699.00	2.48	1.35		0.14	0.10			1.11		I
CCP	1700.50	1700.50	2.20	0.30		0.00	0.00			0.30		I
CCP	1701.00	1701.00	2.38	0.31		0.00	0.00			0.31		I
CCP	1702.00	1702.00	2.18	0.20		0.00	0.00			0.20		I
CCP	1702.70	1702.70	3.09	0.36		0.00	0.00			0.36		I
CCP	1704.00	1704.00	3.03	0.36		0.00	0.00			0.36		I

36 RESULT(s) selected ..., from the following search criteria:

Company: SAG, Nat: NOR, Well:

6407/9-4, Type: CCP, Depth between:

0.000 and 99999.990 m, MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6407/9-4

Page 3

Type	St.Depth	En.Depth	Weight (g)	EOM mg/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (mg/g)	Polars (mg/g)	TOC (%)	M/I
CCP	1705.00	1705.00	2.84	0.81		0.00	0.00			0.81		I
CCP	1706.00	1706.00	3.13	0.61		0.00	0.00			0.61		I
CCP	1707.50	1707.50	2.91	0.66		0.00	0.00			0.66		I
CCP	1709.00	1709.00	2.82	1.13		0.00	0.00			1.13		I
CCP	1710.50	1710.50	3.25	0.51		0.00	0.00			0.51		I
CCP	1711.32	1711.32	3.25	0.36		0.00	0.00			0.36		I
Averages this Well:				1.65	0.00	0.48	0.21	0.00	0.00	0.96	0.00	
Averages all Wells:				1.65	0.00	0.48	0.21	0.00	0.00	0.96	0.00	

36 RESULT(s) selected ..., from the following search criteria:

Company: SAG, Nat: NOR, Well:

6407/9-4, Type: CCP, Depth between:

0.000 and 99999.990 m, MPLC: I

Table 2.

0 well	1	2 nat	3 formation	4	5 upper depth	6 lower depth	7 sample type	8 Ts/Tm
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1	6407/9-4	6407/9-4	nor	saga_sept92	1666.60	1666.6	ccp	1.037037
2	6407/9-4	6407/9-4	nor	saga_sept92	1668.00	1668.0	ccp	1.018519
3	6407/9-4	6407/9-4	nor	saga_sept92	1680.00	1680.0	ccp	1.000000

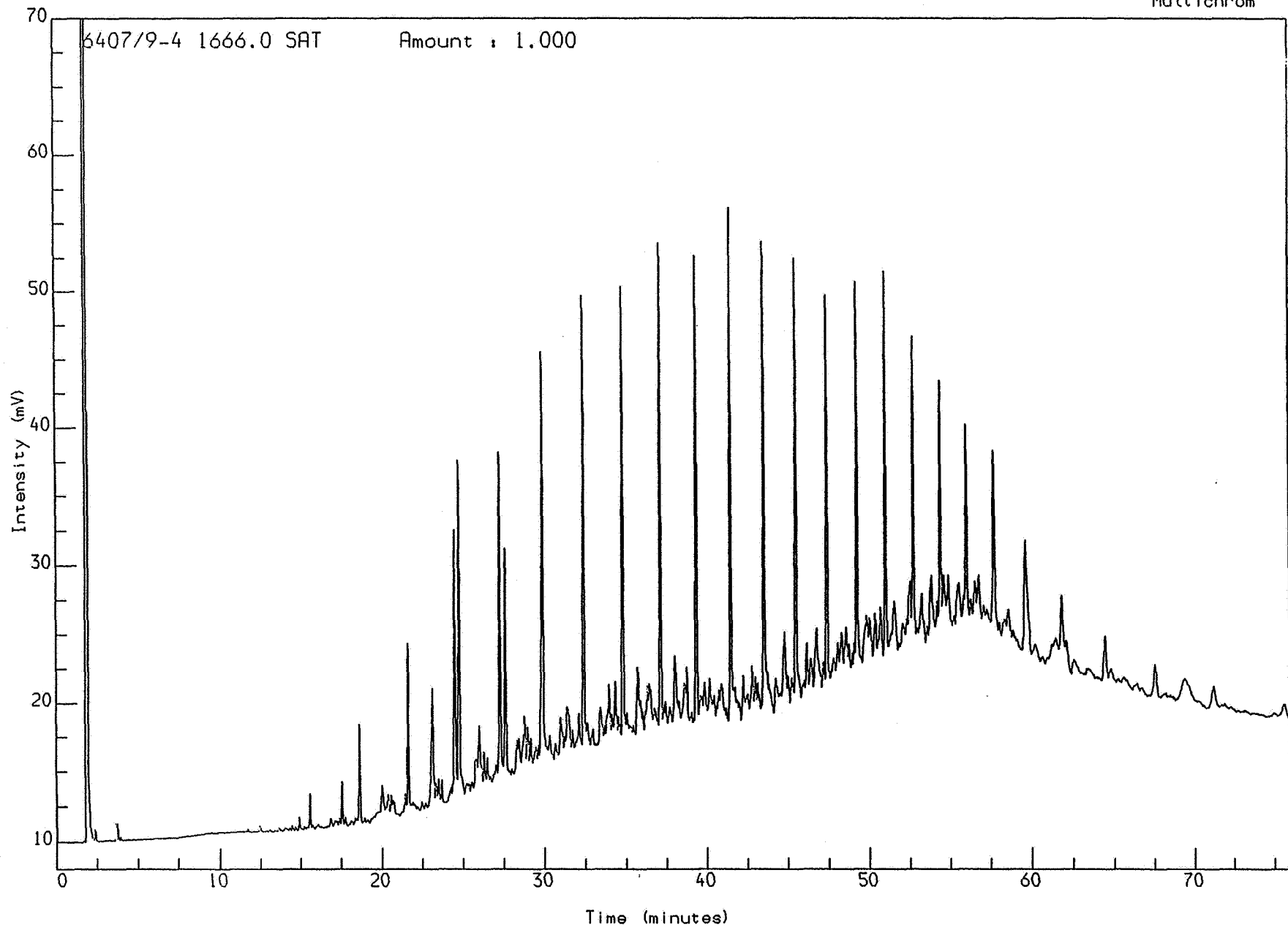
0 well	9 Z/C	10 Z/Z+E	11 X/E	12 X/X+D	13 E/E+F	14 22S	15 a/a+j	16 20S
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1	6407/9-4	0.518868	0.166163	0.159420	0.68750	0.890323	57.142857	0.772109	0.588235
2	6407/9-4	0.509615	0.159159	0.157143	0.68750	0.891720	56.716418	0.759197	0.588235
3	6407/9-4	0.513761	0.166667	0.153571	0.68254	0.888889	57.042254	0.750000	0.576037

0 well	17 bbS 217	18 %C27 abbS	19 %C28 abbS	20 %C29 abbS
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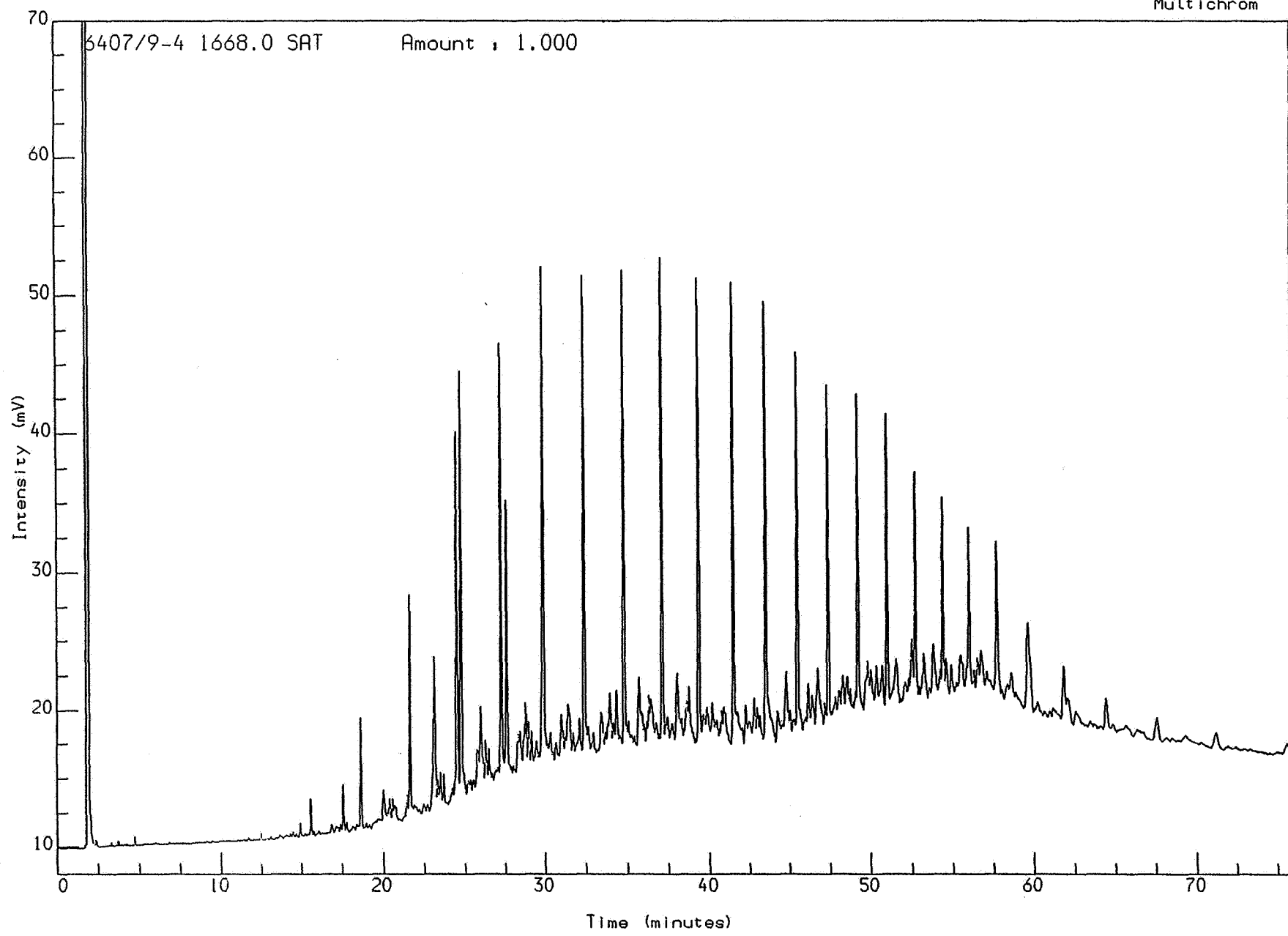
1	6407/9-4	0.562232	28.803545	31.314623	39.881832
2	6407/9-4	0.566879	28.276878	31.958763	39.764359
3	6407/9-4	0.552577	27.752640	31.523379	40.723982

Figure 1.



Acquired on 31-JUL-1992 at 01:18

Reported on 3-AUG-1992 at 15:42

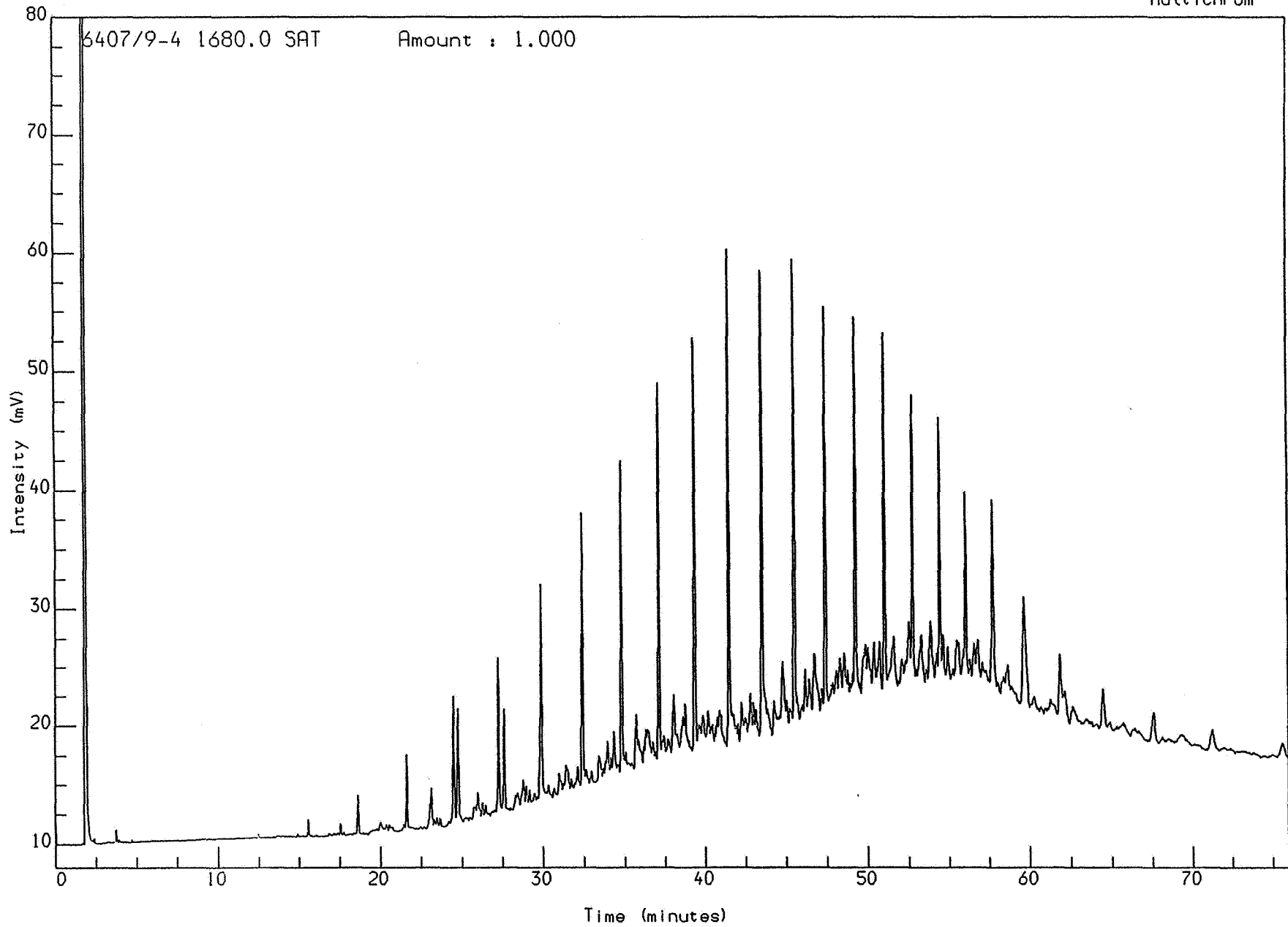


Acquired on 30-JUL-1992 at 15:51

Reported on 3-AUG-1992 at 15:37

Analysis Name : [DEF...JECT] 3 S082,18,1.

Multichrom



Acquired on 30-JUL-1992 at 17:12

Reported on 3-AUG-1992 at 15:38

Figure 2.

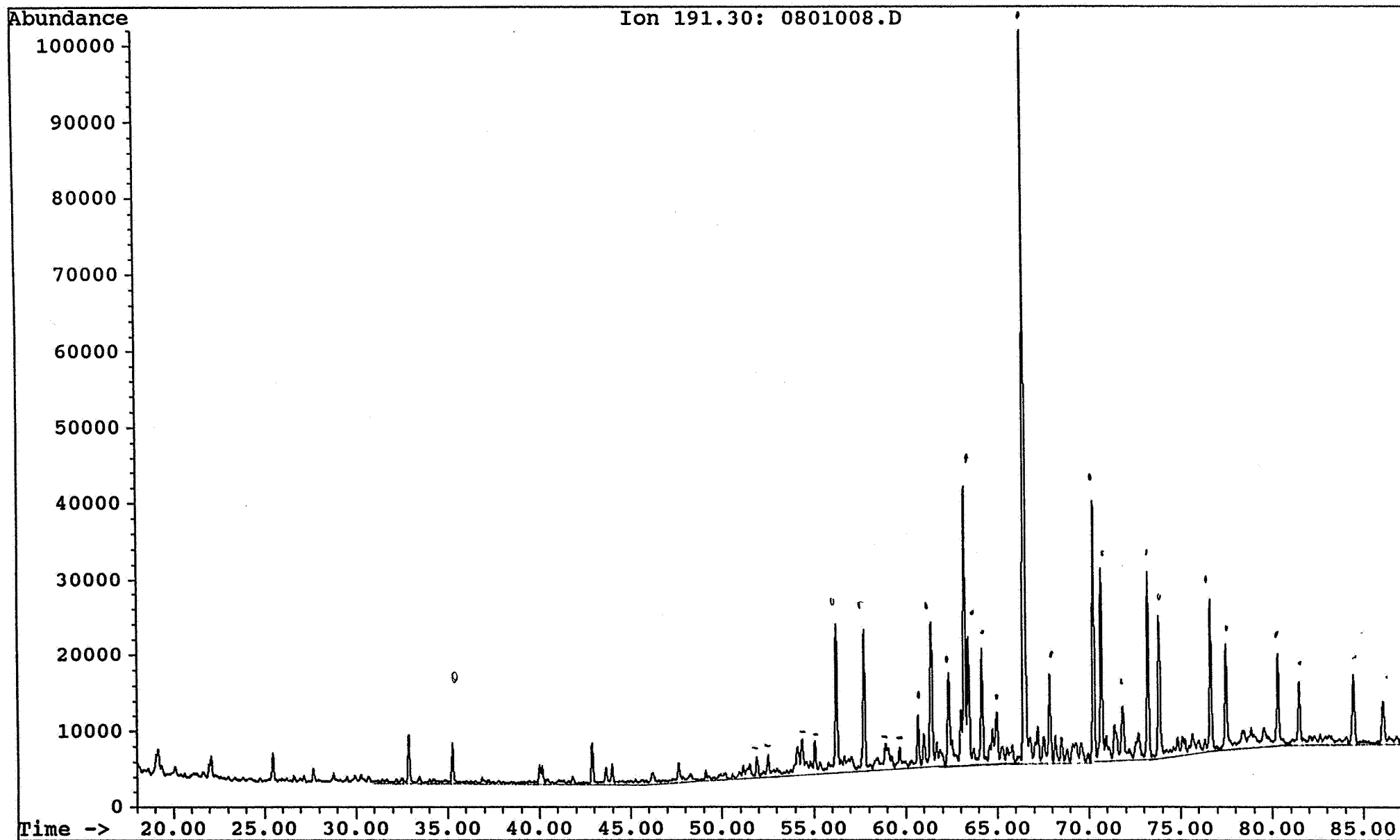
Saga Petroleum a.s.

Date acquired: 3 Sep 92 2:05 am

File: C:\CHEMPC\DATA\HALTEN\RUN10\0801008.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6506/9-4 1666,60 sat

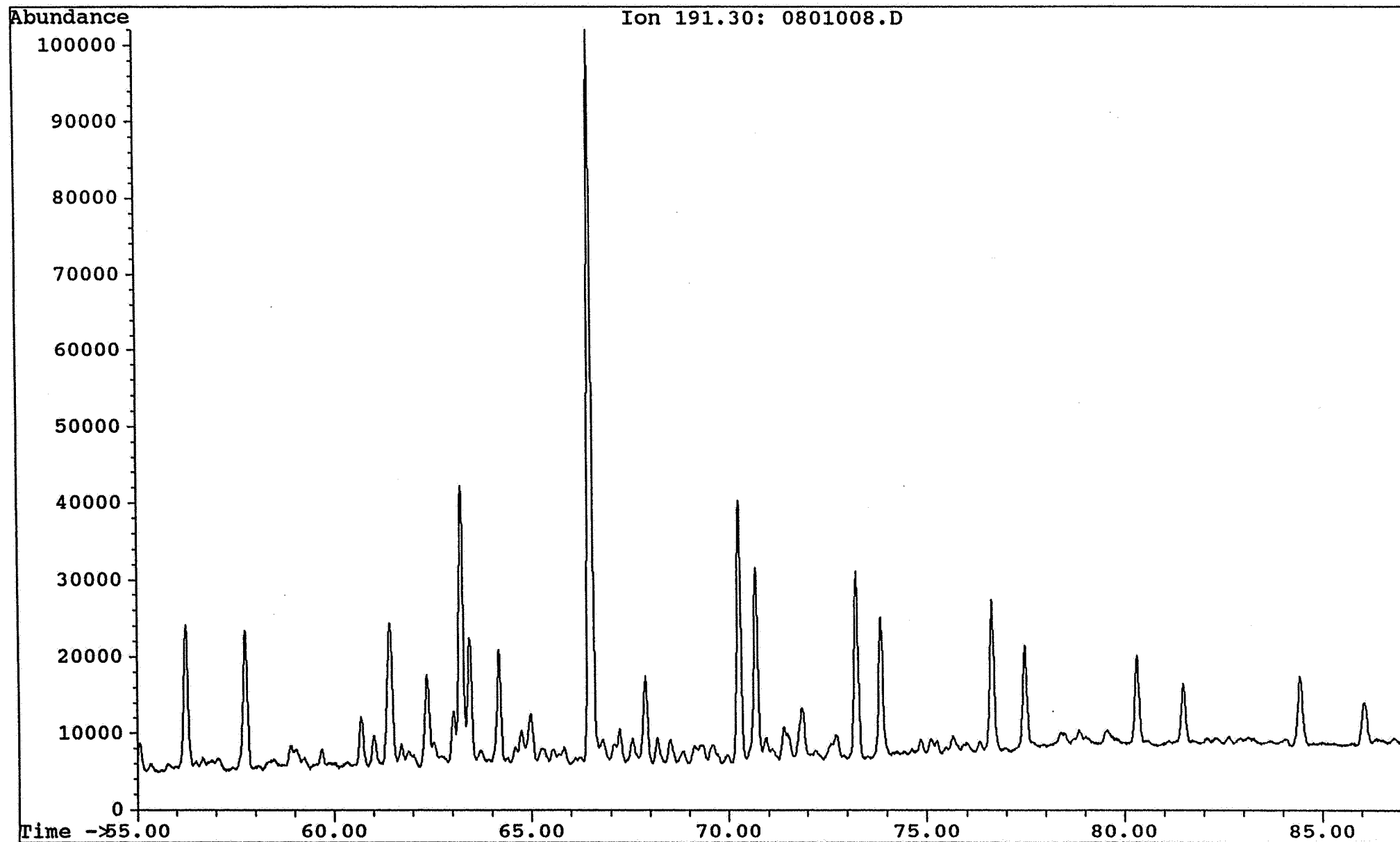


Saga Petroleum a.s.

Date acquired: 3 Sep 92 2:05 am

File: C:\CHEMPC\DATA\HALTEN\RUN10\0801008.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 6506/9-4 1666,60 sat



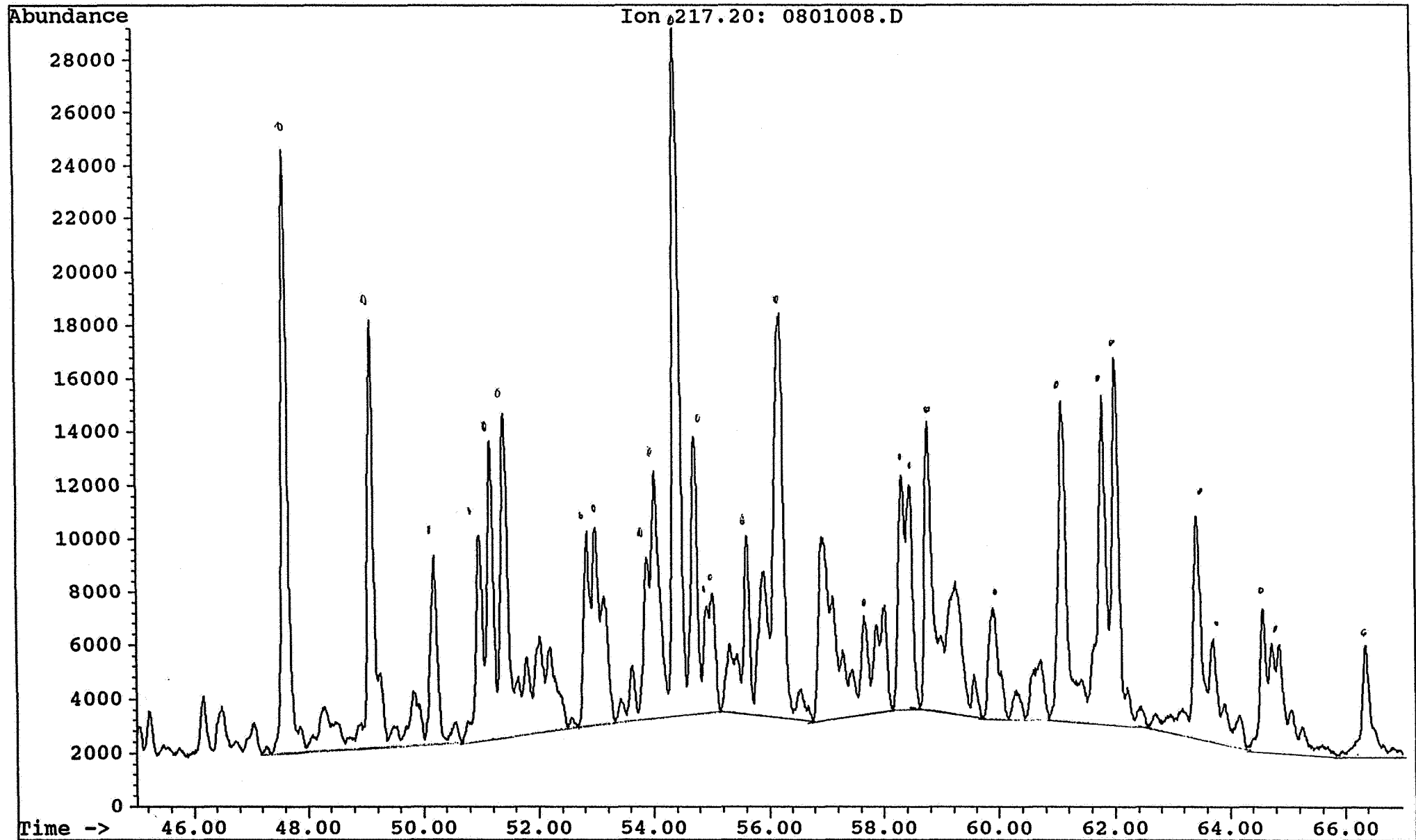
Saga Petroleum a.s.

Date acquired: 3 Sep 92 2:05 am

File: C:\CHEMPC\DATA\HALTEN\RUN10\0801008.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6506/9-4 1666,60 sat



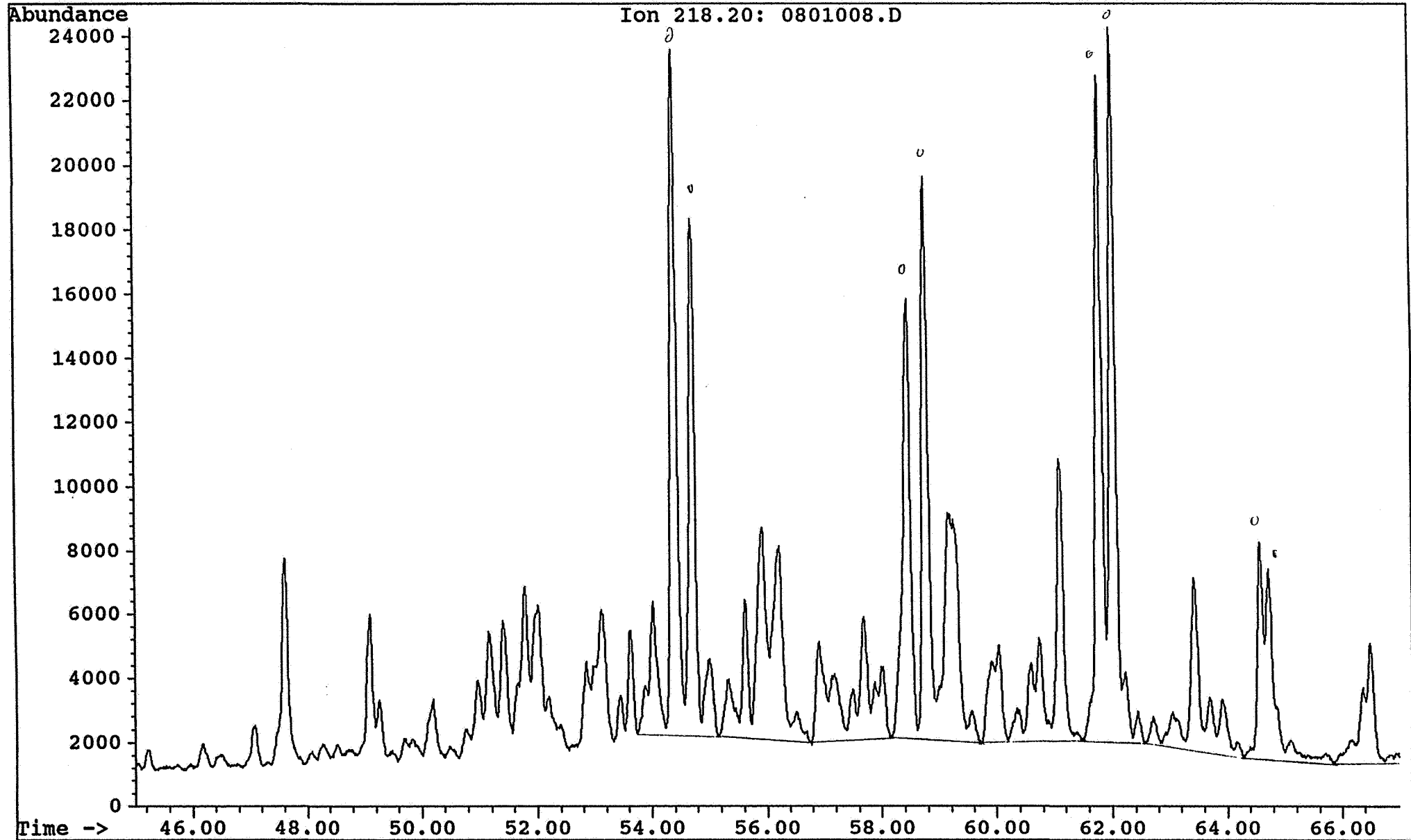
Saga Petroleum a.s.

Date acquired: 3 Sep 92 2:05 am

File: C:\CHEMPC\DATA\HALTEN\RUN10\0801008.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6506/9-4 1666,60 sat



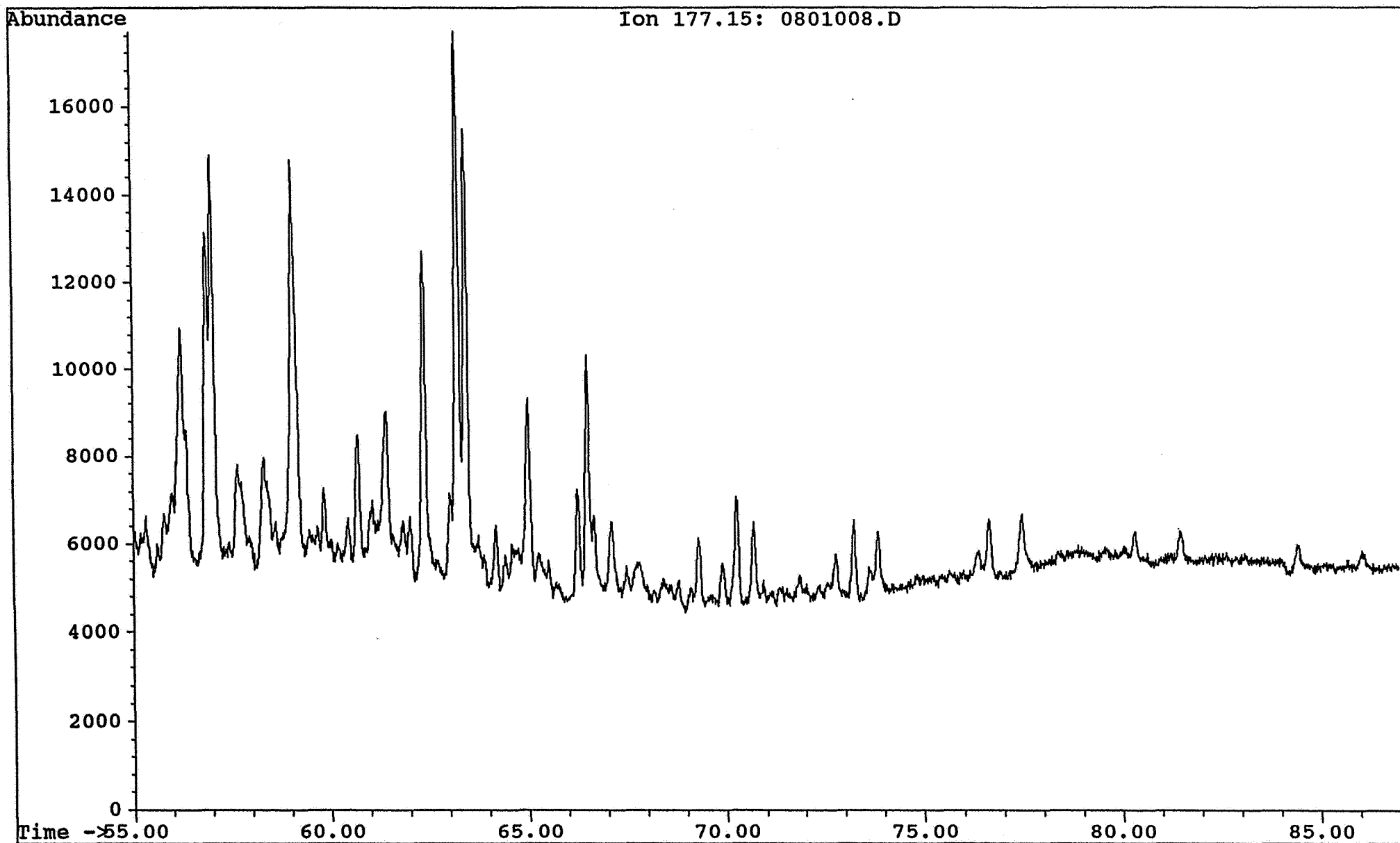
Saga Petroleum a.s.

Date acquired: 3 Sep 92 2:05 am

File: C:\CHEMPC\DATA\HALTEN\RUN10\0801008.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6506/9-4 1666,60 sat

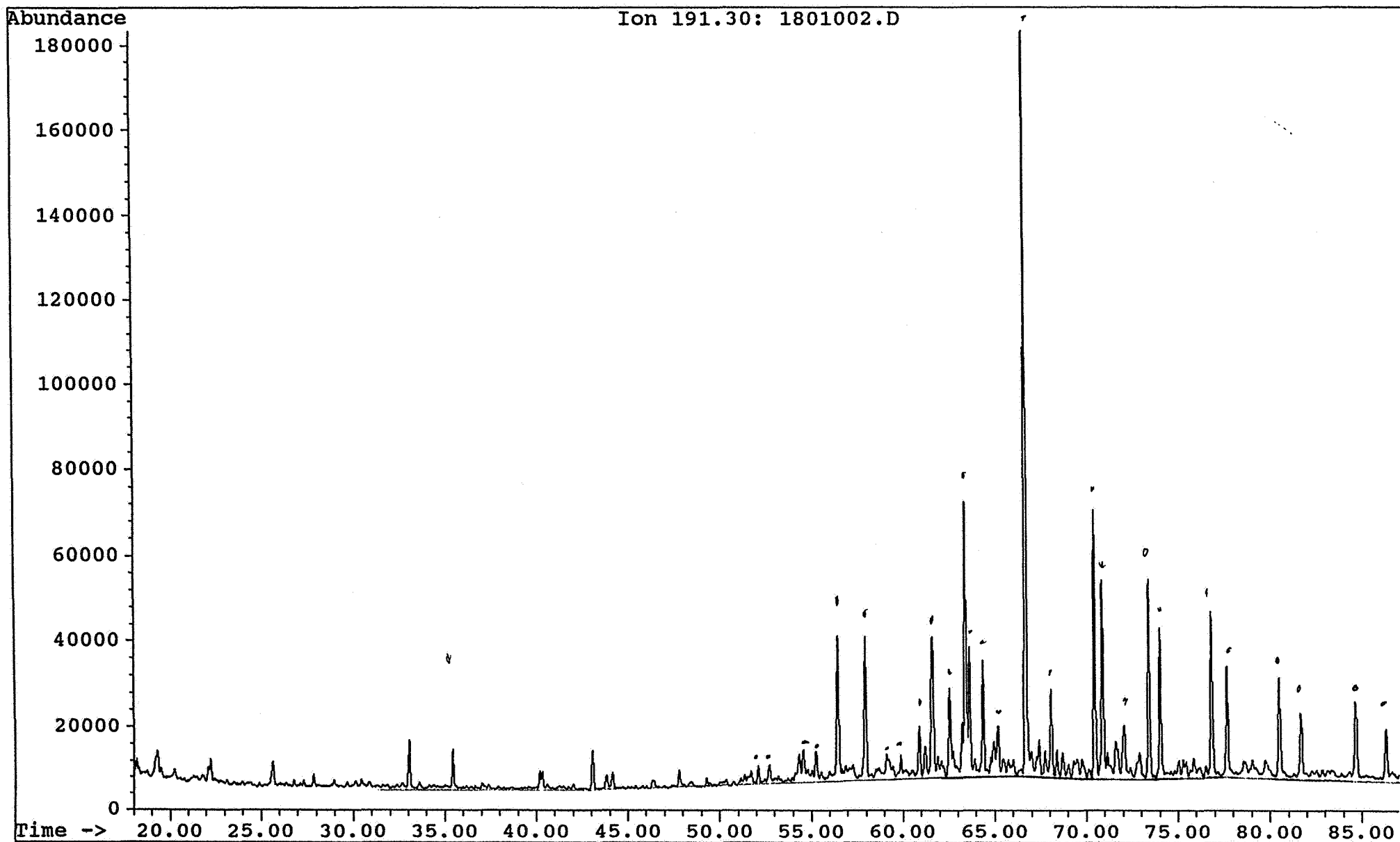


Saga Petroleum a.s.

Date acquired: 28 Aug 92 3:05 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1801002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 6407/9-4 1668.00 sat



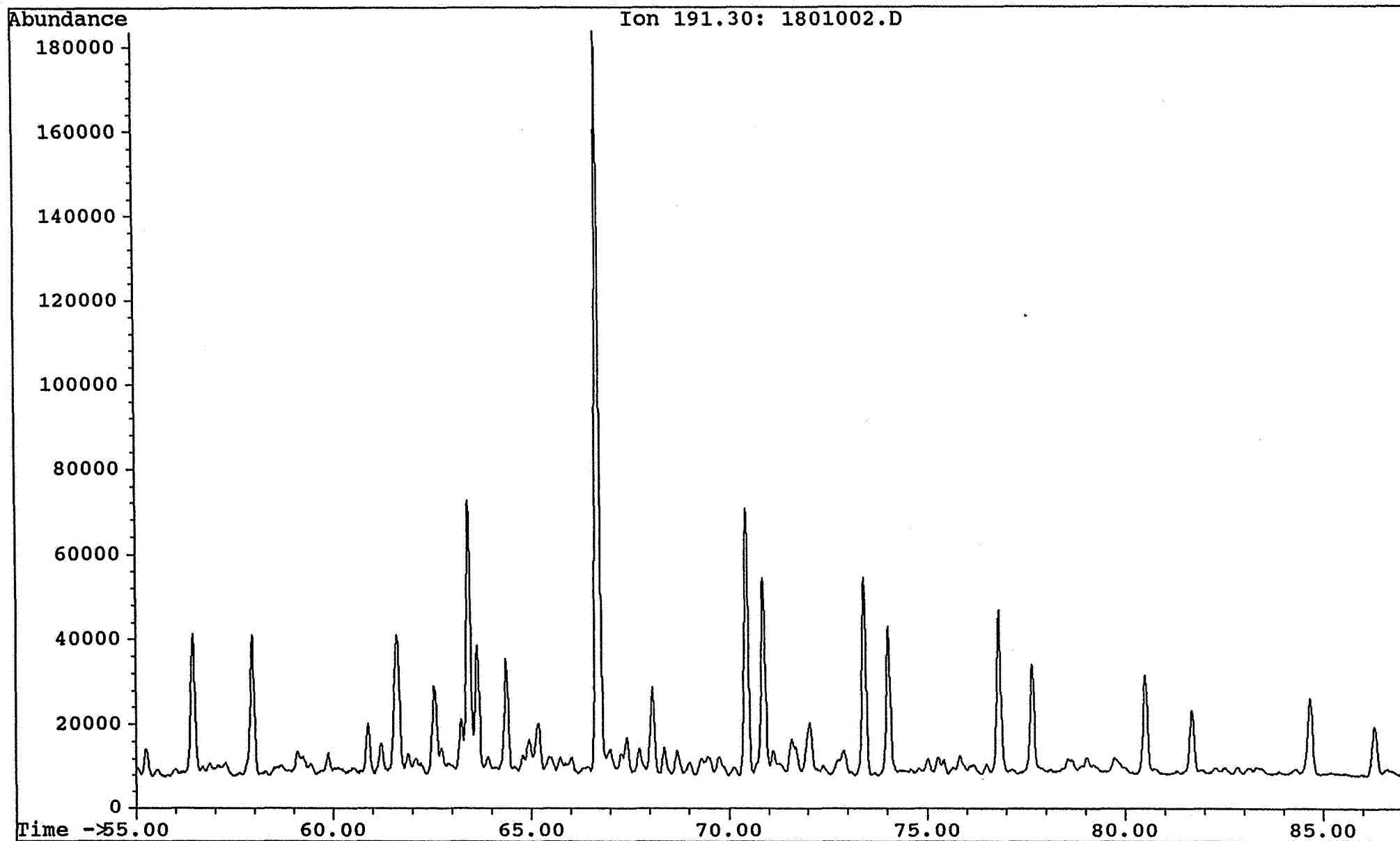
Saga Petroleum a.s.

Date acquired: 28 Aug 92 3:05 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1801002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/9-4 1668.00 sat



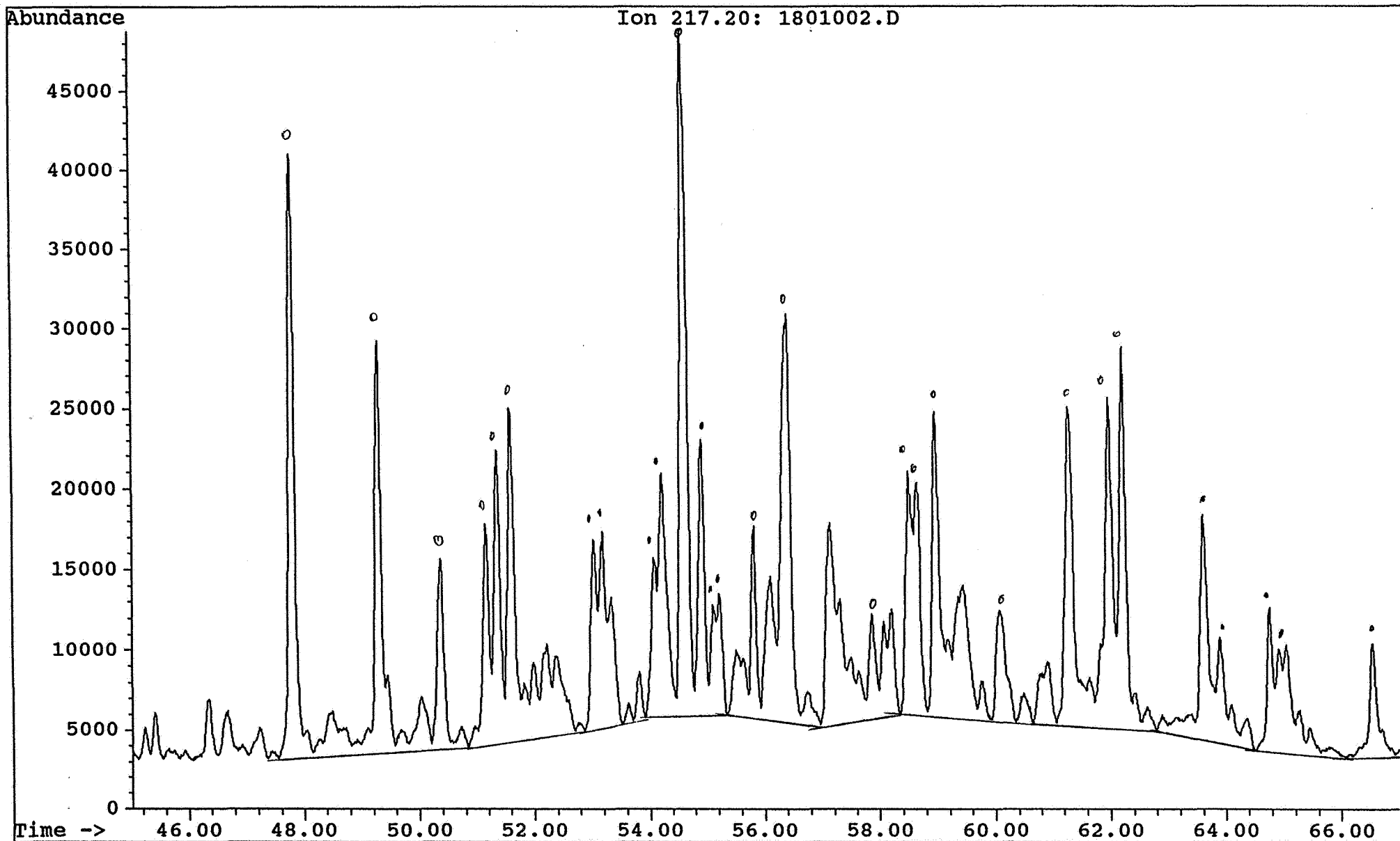
Saga Petroleum a.s.

Date acquired: 28 Aug 92 3:05 pm

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Sample name:

WELL 6407/9-4 1668.00 sat



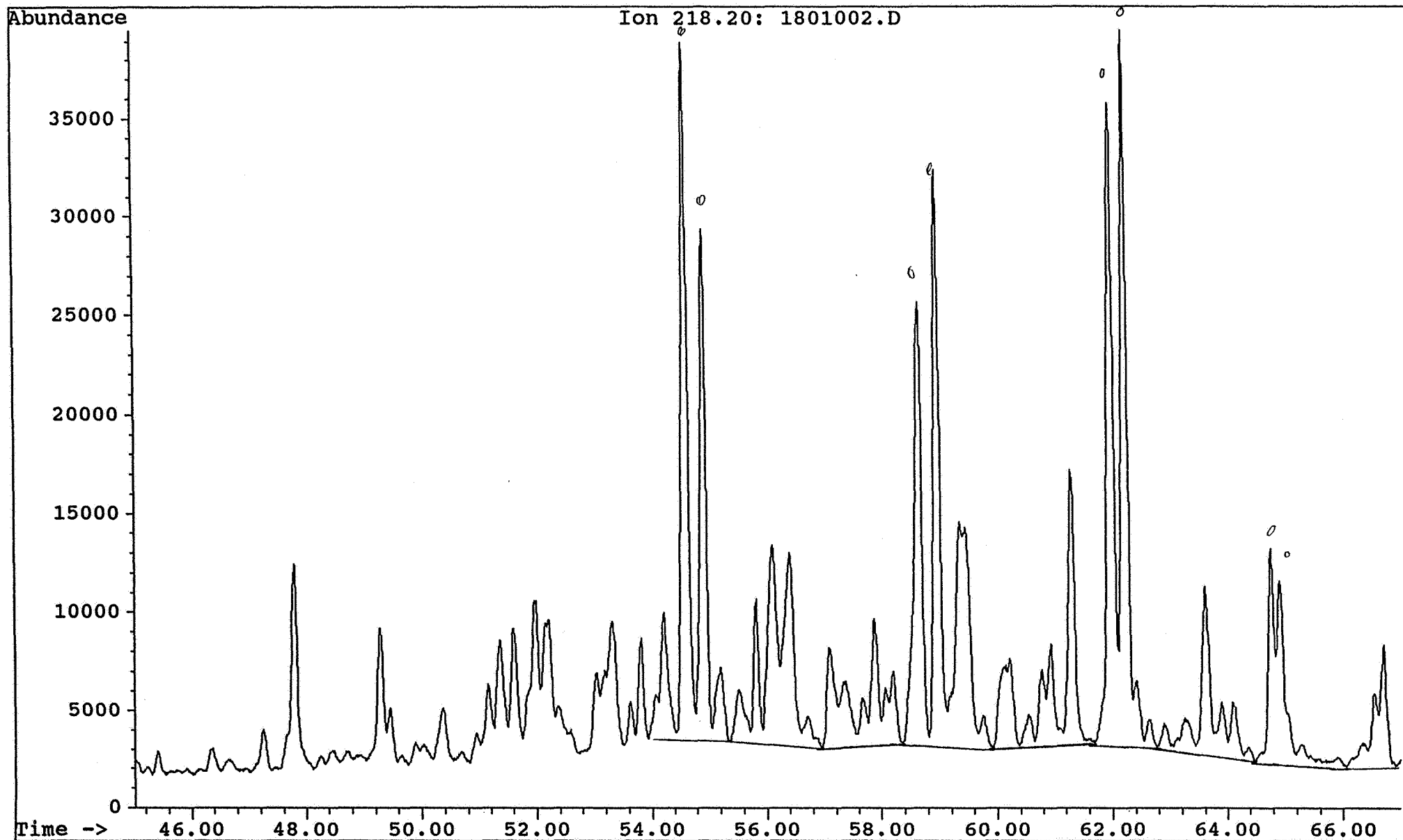
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Date acquired: 28 Aug 92 3:05 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1801002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/9-4 1668.00 sat

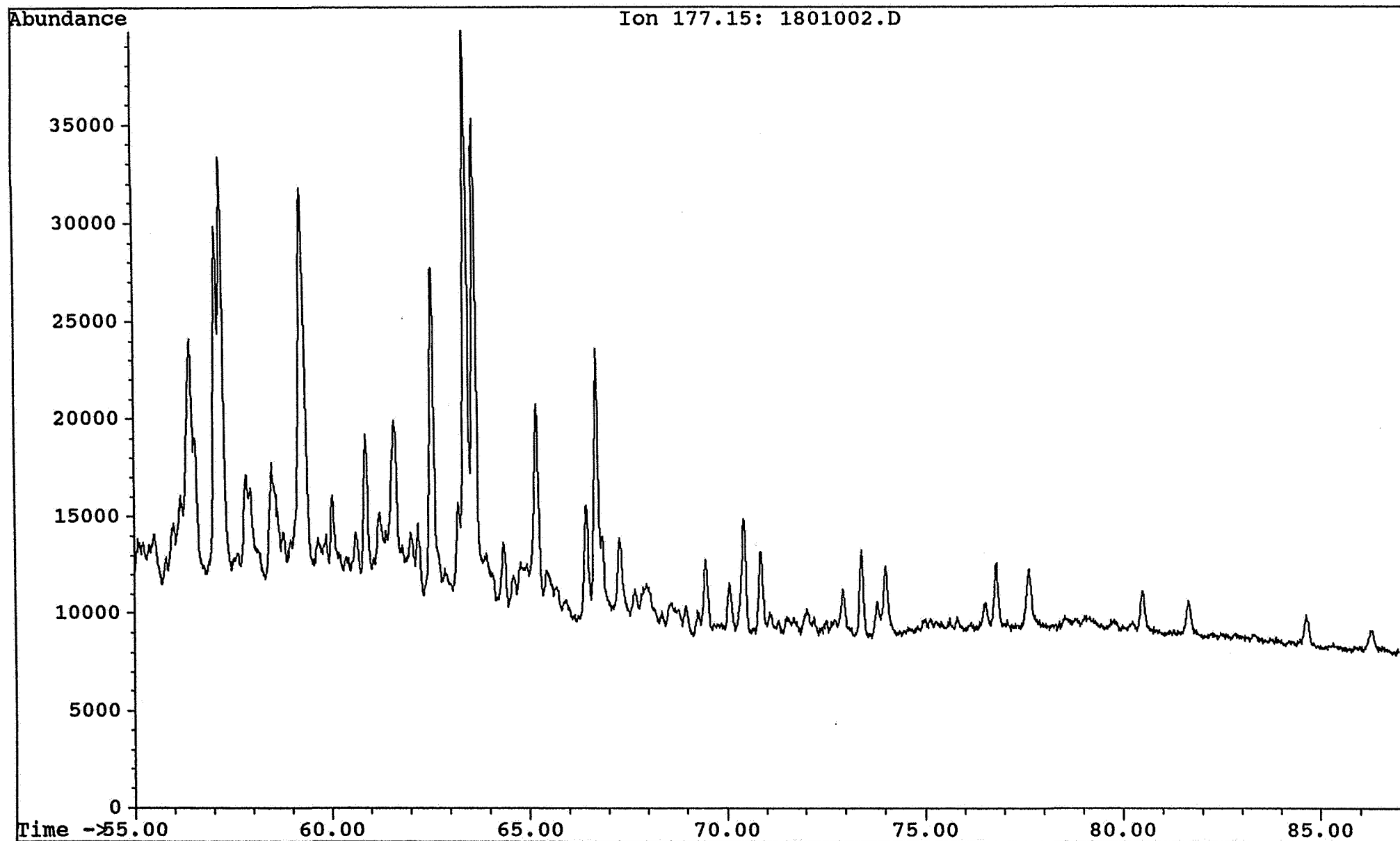


Saga Petroleum a.s.

Date acquired: 28 Aug 92 3:05 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1801002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 6407/9-4 1668.00 sat



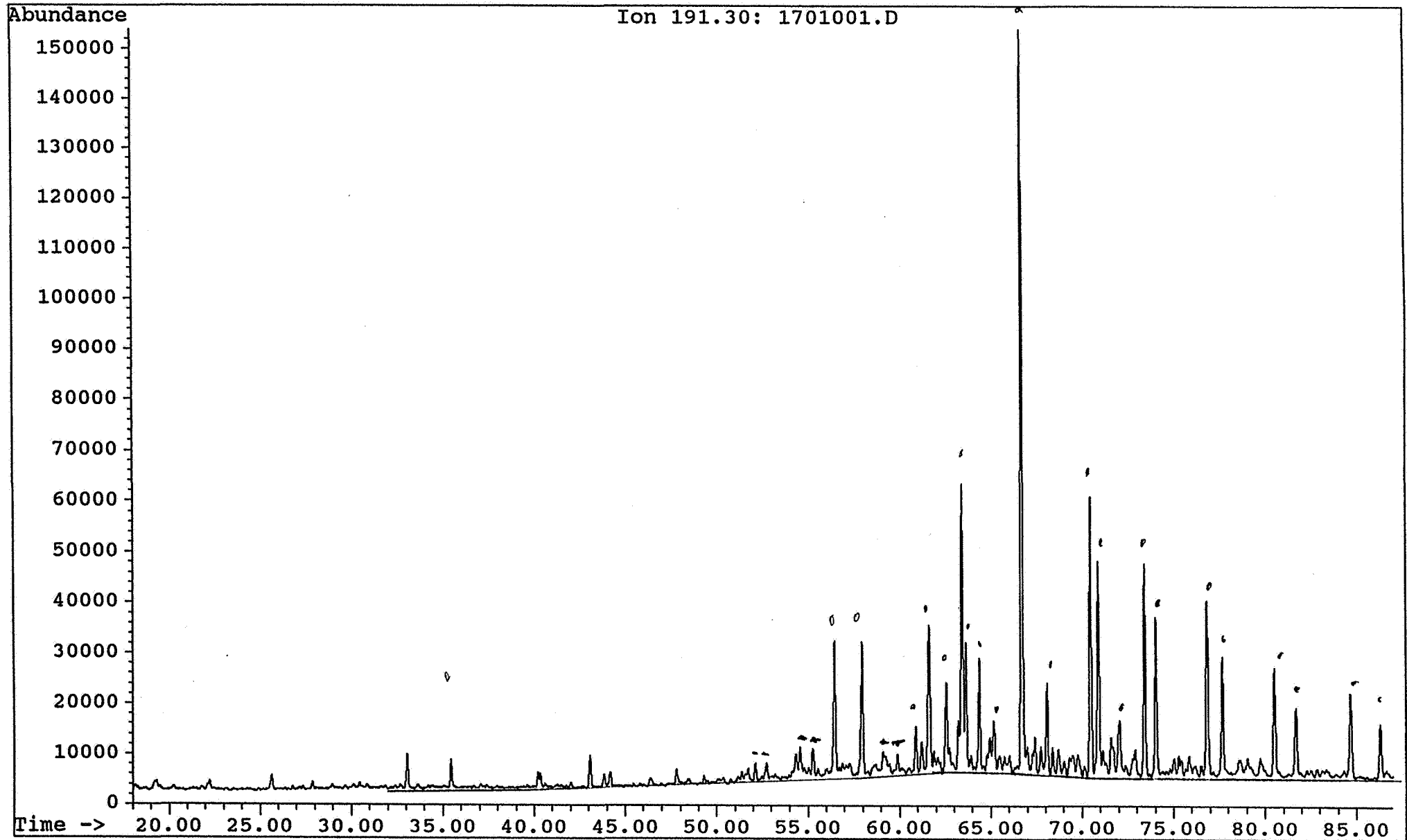
Saga Petroleum a.s.

Date acquired: 28 Aug 92 1:21 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1701001.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/9-4 1680.00 sat



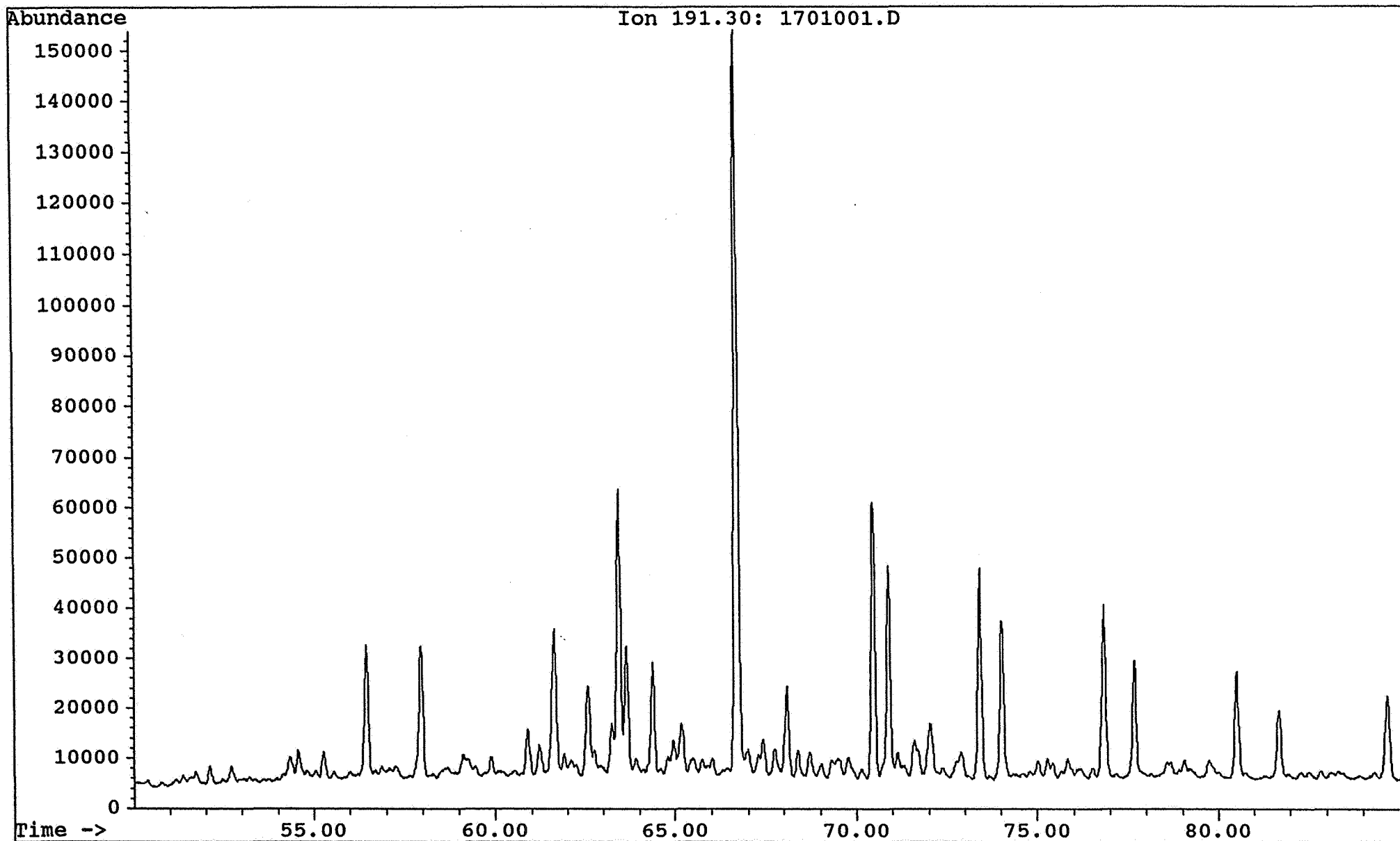
Saga Petroleum a.s.

Date acquired: 28 Aug 92 1:21 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1701001.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/9-4 1680.00 sat



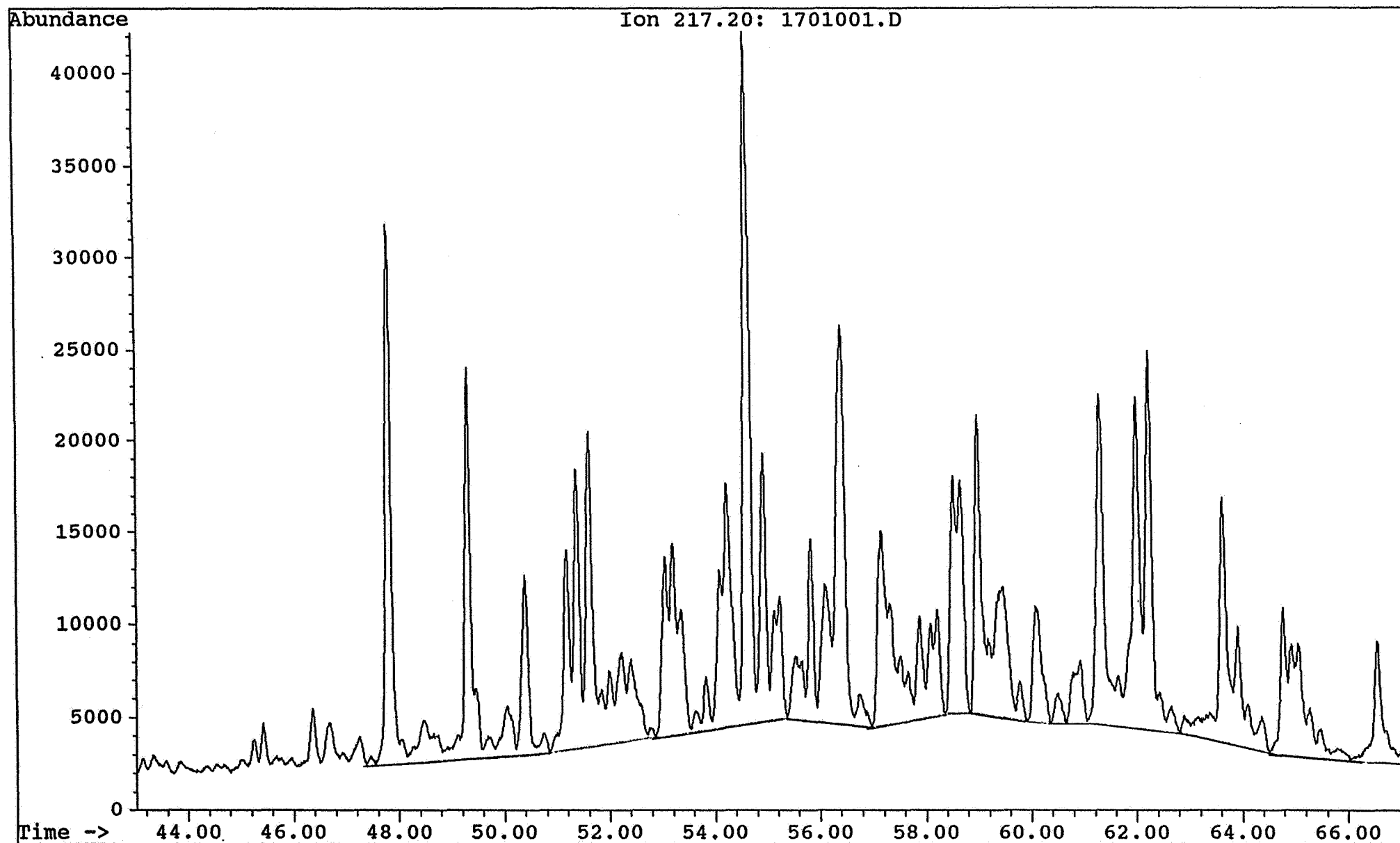
Saga Petroleum a.s.

Date acquired: 28 Aug 92 1:21 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1701001.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/9-4 1680.00 sat



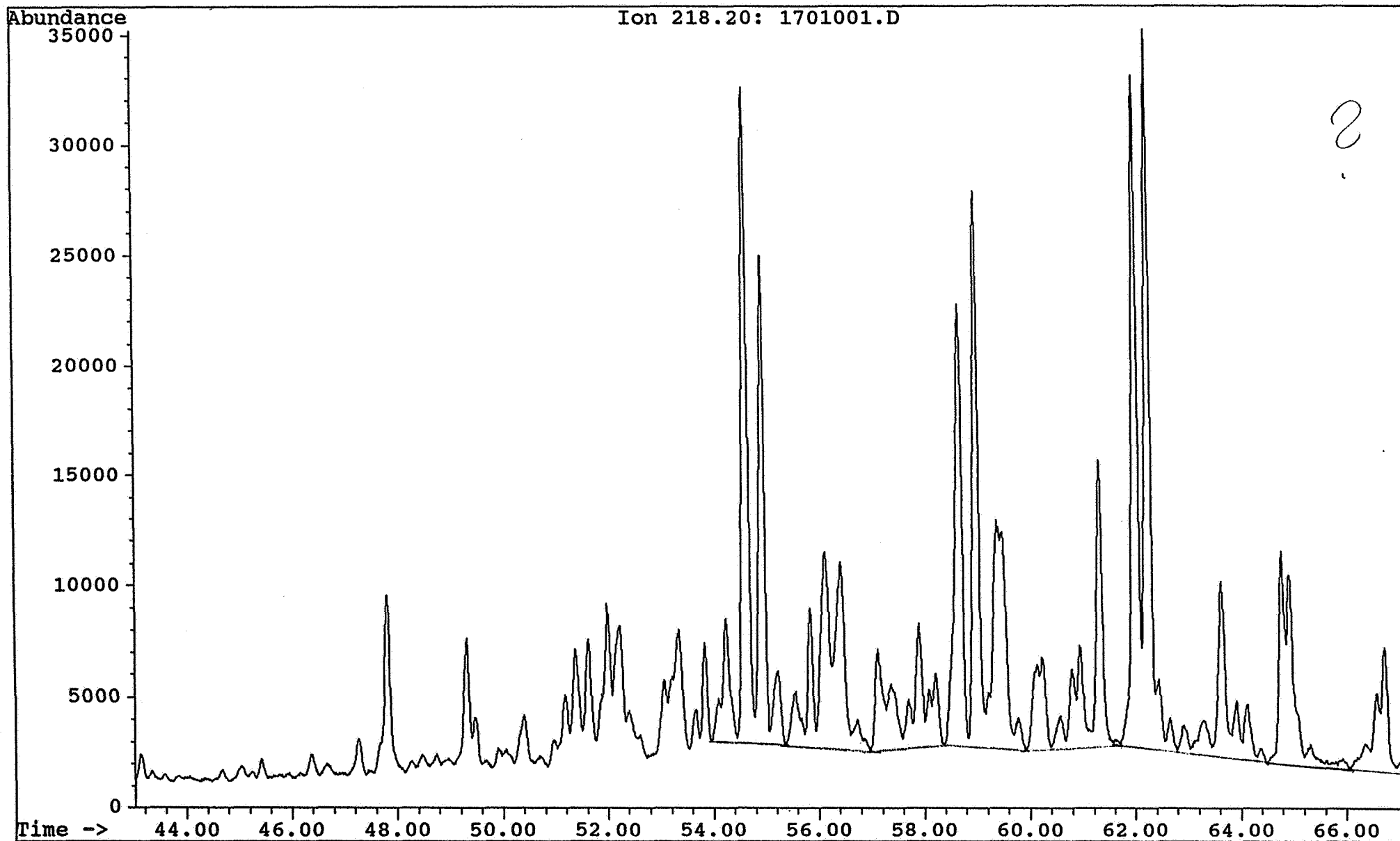
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Date acquired: 28 Aug 92 1:21 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1701001.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 6407/9-4 1680.00 sat



Saga Petroleum a.s.

Date acquired: 28 Aug 92 1:21 pm

File: C:\CHEMPC\DATA\HALTEN\RUN7\1701001.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 6407/9-4 1680.00 sat

