

Reservoir geochemistry Well 30/9-21S

APPENDIX 1

Country, well/location: NOR, 30/9-21 S
 Sample type, depth (m): FLUI, 3822,5-3822,5 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system:
 Remarks:

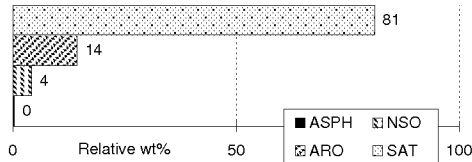
StatoilHydro

Research Centre,
 Bergen, Norway

OrgID: 2504809, PlanID: 700526

Fluid

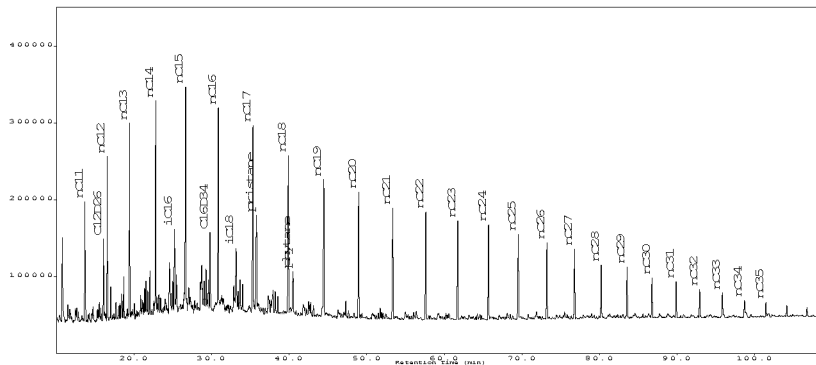
latroscan



δ13C fractions

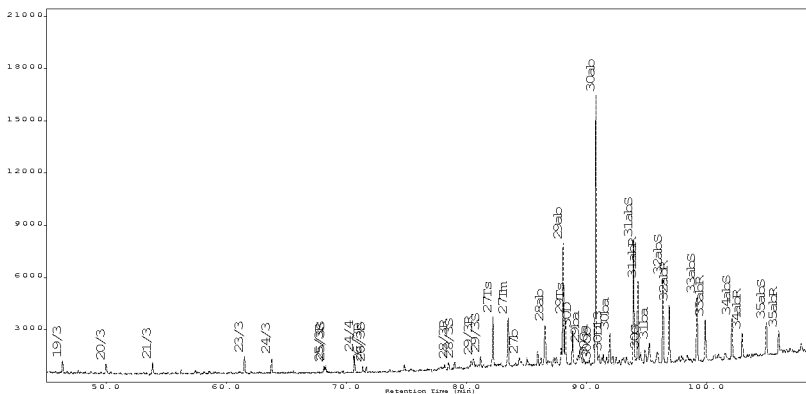
Sat. -28,5
 Aro. -27,3
 NSO
 Asph.
 EOM / Oil

C15+ SAT-fraction hydrocarbons, GC/FID:



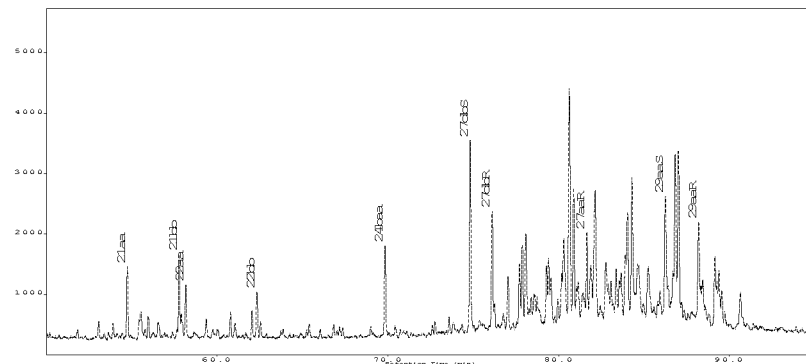
Parameter/amounts, µg/mg	Value
Pr/nC ₁₇	0,6
Ph/nC ₁₈	0,3
Pr/Ph	2,3
nC ₁₇ /(C ₁₇ +C ₂₇)	0,7
CPI2	1,0
nC ₁₇	10,8
Pristane	6,6
ΣC15-C35	124

Terpanes, m/z 191:



Parameter/amounts, ng/mg	Value
%Tri	6,92
%20/3	12,4
%23/3	43,7
%24/4	43,2
C26/C25	0,9
%27Ts	50,6
%28αβ	18,6
%29Ts	28,7
%25nor30αβ	1,8
%29αβ	39,3
%30βα	10,2
%30D	16,1
%30G	4,4
%32αβS	59,3
%35αβ	45,7
30αβ	121,8
25nor30αβ	2,2
Σterpanes	730
%Pregnane	8,8
%29ααS	55,1
%29ββ	68,5
%27dia	44,2
%27ster. Norm	29,7
%28ster. Norm	25,6
%29ster. Norm	35,0
%30ster. Norm	9,7
Σsteranes	470
Hop/Ste	1,6

Steranes, m/z 217:



Country, well/location: NOR, 30/9-21 S
 Sample type, depth (m): FLUI, 3822,5-3822,5 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system:
 Remarks:

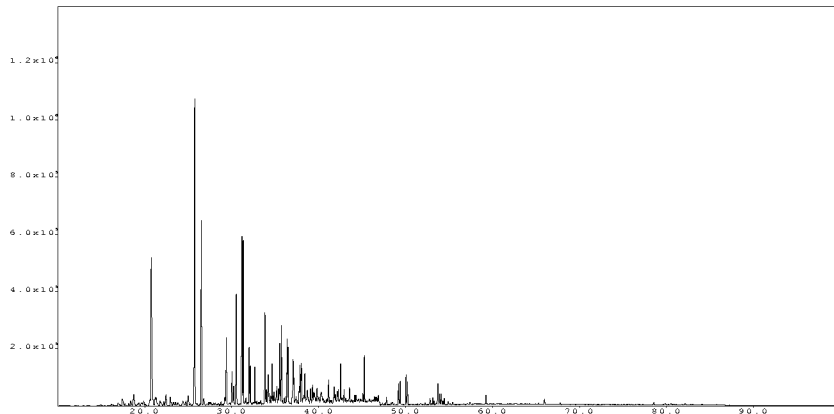
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Research Centre,
 Bergen, Norway

OrgID: 2504809, PlanID: 700526

Fluid

Aromatic hydrocarbons, TIC:

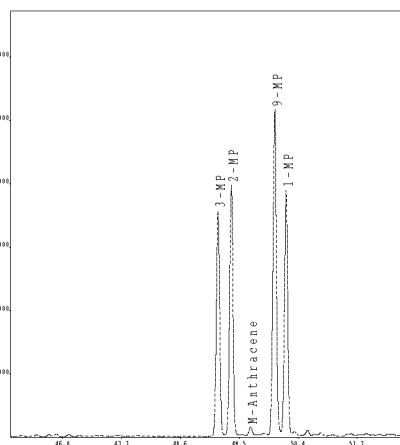


Parameter/amounts, ng/mg

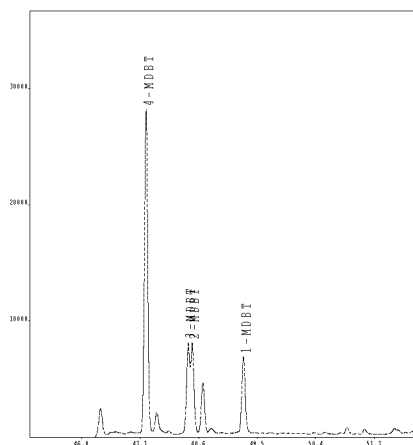
2/1MN	1,65
2/1EN	2,03
Phen.	248
MPI1	0,71
F1 (2+3/all MP)	0,45
F2 (2/all MP)	0,24
%TAS	31
DBT/P	0,04
F/P	0,57
BP/1.6DMN	1,07
4/1MDBT	4,22
3MP/R	2,82
ΣARO HC	2318

Aromatic and Diamondoid hydrocarbons, GC/MS:

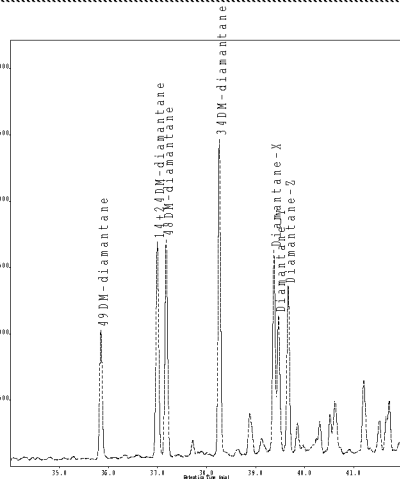
Methyl-phenanthrenes (m/z 192):



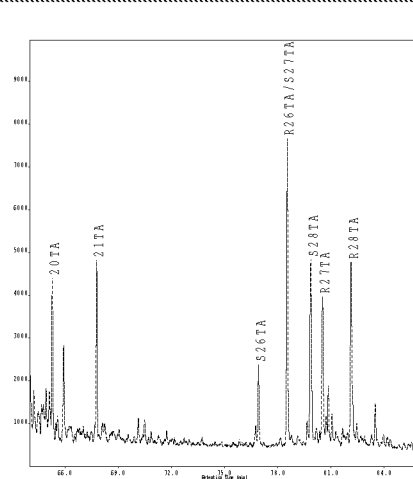
Methyl-dibenzothiophenes (m/z 198):



Dimethyl-diamantanes (m/z 201):



Triaromatic steroids (m/z 231):



Parameter/amounts, ng/mg

EAI%	62,5
DMDI%	71,1
%49DM-Diam.	19,4
%48DM-Diam.	32,7
%34DM-Diam.	47,8

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 Stratigraphy (Gr./Fm.):
 Mud system:
 Remarks:

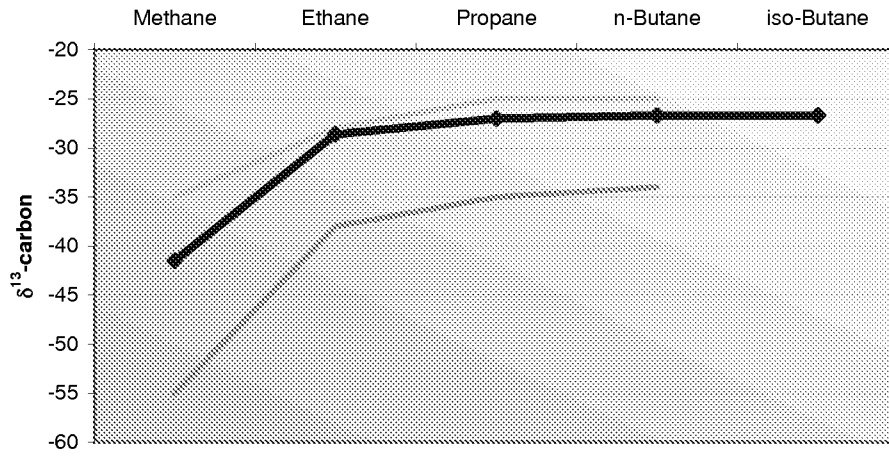
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OrgID: , PlanID:

Fluid

Gaseous HC:



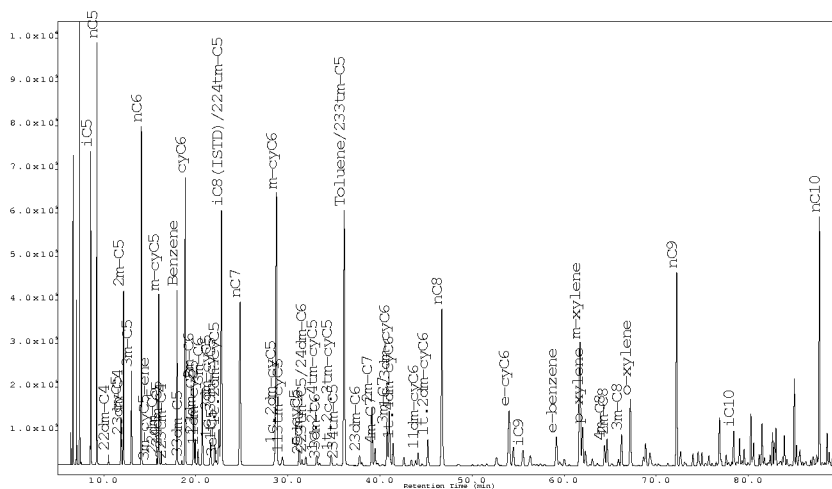
Gaseous HC, wt%

Wetness	0,0
iC4/nC4	
C2/C3	
CO2	

Gaseous HC, isotopes ‰

d13C C1	-41,5
d13C C2	-28,6
d13C C3	-27
d13C C4	-26,7
d13C iC4	-26,7
dD C1	-207

Light HC C5-10, GC/FID:



Parameter/amounts, ug/mg

Hepane value	19,0
Isohept. value	1,3
Paraffinicity	0,5
Aromaticity	1,1
nC ₆ /Benzene	1,5
nC ₇ /Toluene	0,6
ΣC5-C20	226

Whole oil, GC/FID:

Parameter/amounts, ug/mg

Country, well/location: NOR, 30/9-21 S
 Sample type, depth (m): FLUI, 3852-3852 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system:
 Remarks:

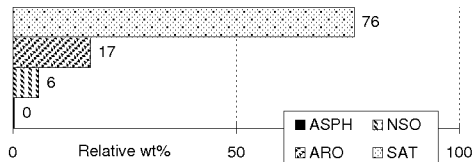
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OrgID: 2504813, PlanID: 700527

Fluid

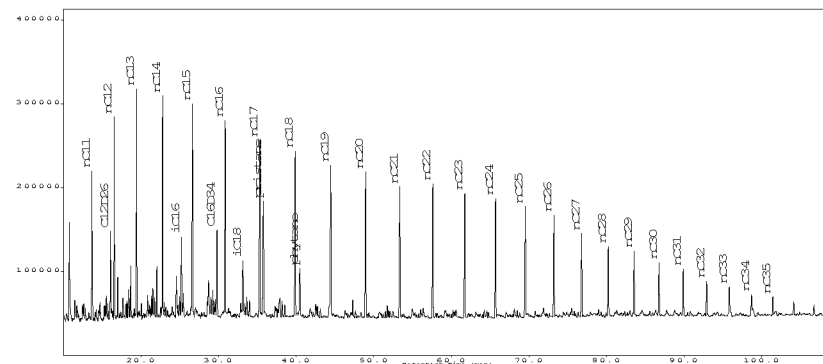
latroscan



δ13C fractions

Sat. -29,4
 Aro. -27,3
 NSO
 Asph.
 EOM / Oil

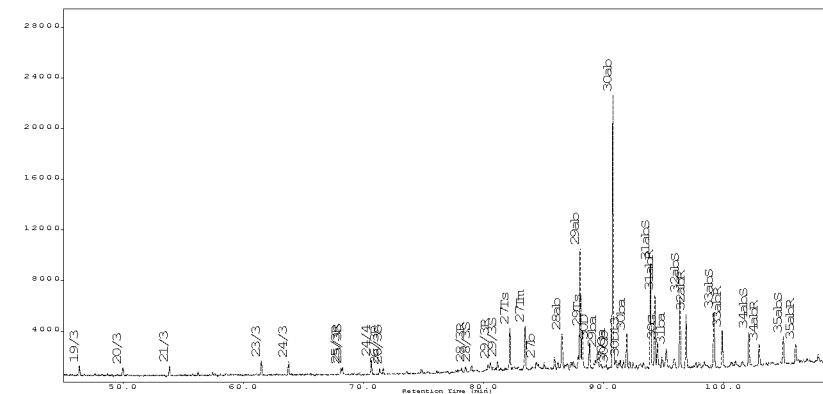
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, µg/mg

Pr/nC ₁₇	0,8
Ph/nC ₁₈	0,4
Pr/Ph	2,3
nC ₁₇ /(C ₁₇ +C ₂₇)	0,7
CP12	1,0
nC ₁₇	8,7
Pristane	6,6
ΣC15-C35	118

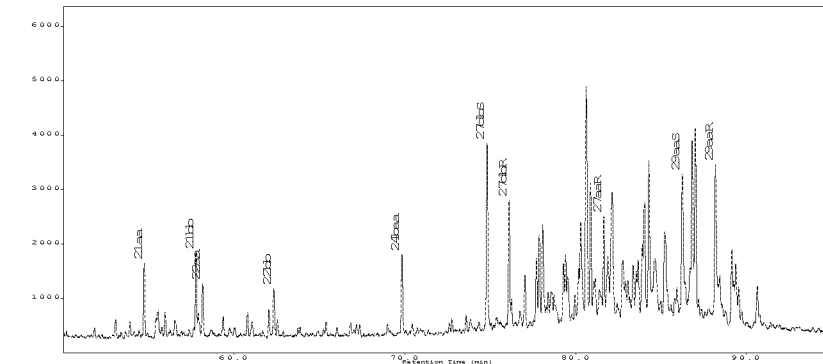
Terpanes, m/z 191:



Parameter/amounts, ng/mg

%Tri	6,66
%20/3	10,9
%23/3	41,8
%24/4	41,5
C26/C25	0,9
%27Ts	49,4
%28αβ	16,3
%29Ts	24,7
%25nor30αβ	1,3
%29αβ	38,8
%30α	11,1
%30D	12,4
%30G	11,2
%32αβS	57,1
%35αβ	46,3
30αβ	172,2
25nor30αβ	2,3
ΣTerpanes	920
%Pregnane	8,2
%29ααS	47,9
%29ββ	64,0
%27dia	43,6
%27ster. Norm	28,5
%28ster. Norm	25,8
%29ster. Norm	36,2
%30ster. Norm	9,4
Σsteranes	562
Hop/Ste	1,6

Steranes, m/z 217:



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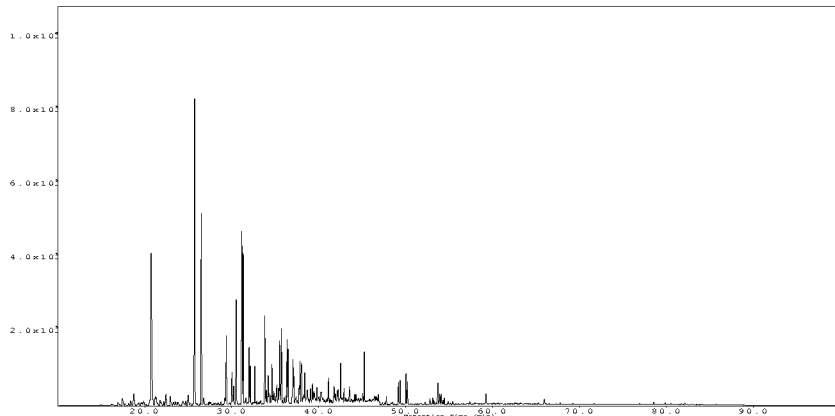
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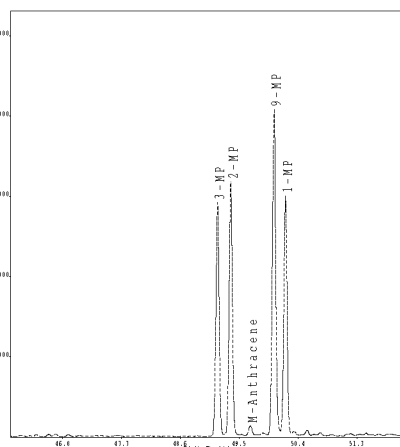


Parameter/amounts, ng/mg

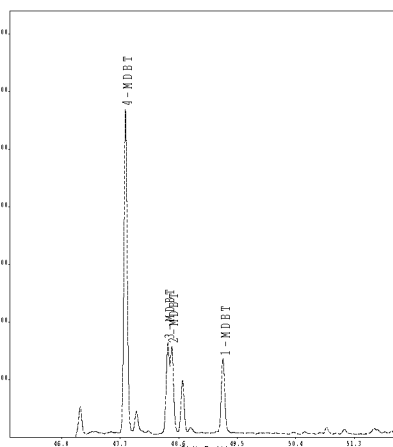
2/1MN	1,59
2/1EN	2,07
Phen.	293
MPI1	0,72
F1 (2+3/all MP)	0,46
F2 (2/all MP)	0,24
%TAS	28
DBT/P	0,04
F/P	0,56
BP/1.6DMN	1,09
4/1MDBT	4,34
3MP/R	2,77
ΣARO HC	2611

Aromatic and Diamondoid hydrocarbons, GC/MS:

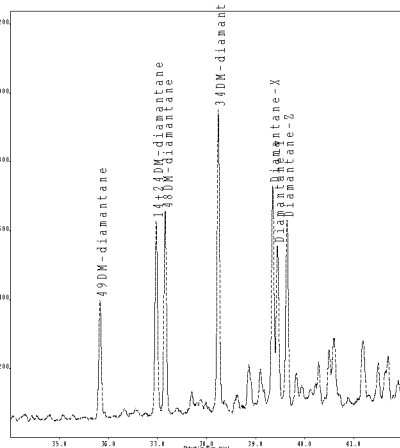
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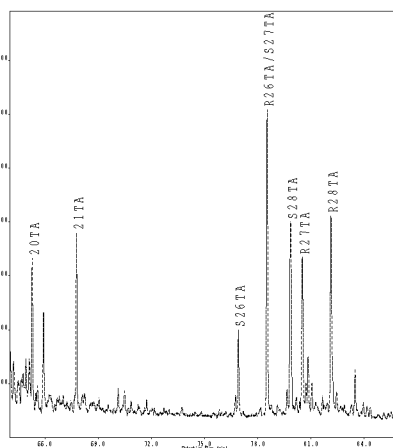
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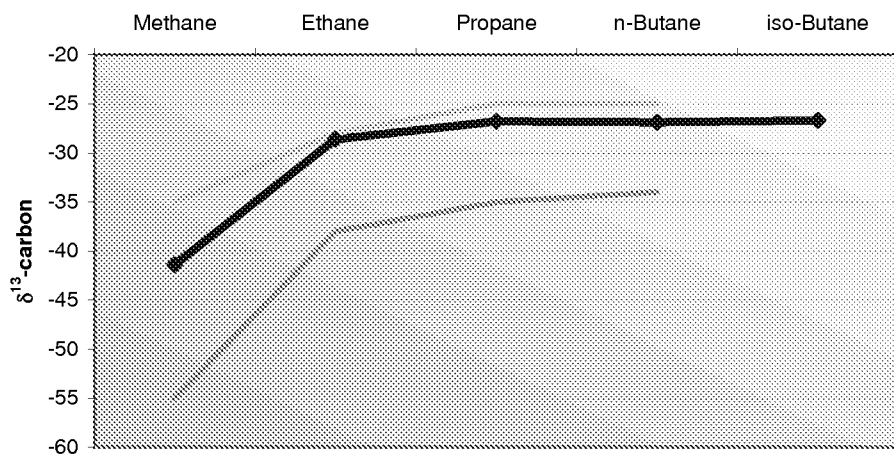
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OrgID: , PlanID:

Fluid

Gaseous HC:



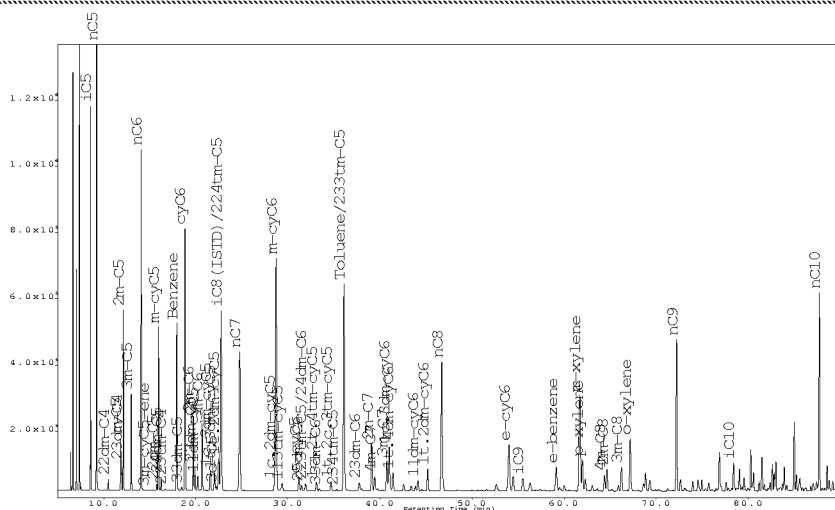
Gaseous HC, wt%

Wetness	0,0
iC4/nC4	
C2/C3	
CO2	

Gaseous HC, isotopes ‰

d13C C1	-41,4
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d13C C3	-26,8
d13C C4	-26,9
d13C iC4	-26,7
dD C1	-207

Light HC C5-10, GC/FID:



Parameter/amounts, ug/mg

Hepane value	18,7
Isohept. value	1,4
Paraffinicity	0,5
Aromaticity	1,1
nC ₆ /Benzene	1,5
nC ₇ /Toluene	0,6
ΣC5-C20	263

Whole oil, GC/FID:

Parameter/amounts, ug/mg