Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**S2673.D**
Sample name:	**30/6-25S 2673m SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	5
Method:	MSD_S_D
Operator:	Arne
Date:	10 Mar 1999 21:08

Terpane ratios, heights and amounts		Height	Amount
100*((sum20-25)/3+26/3(R+S)) / ((sum20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+sum29-30(ab+ba)+sum31-35ab(R+S)	%Tri	3	3
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	13	13
100*23/3/(23/3+24/3+25/3)	%23/3	60	60
100*24/4/(24/4+24/3+25/3)	%24/4	70	70
100*Ts/(Ts+Tm)	%27Ts	17	17
100*28ab/(28ab+30ab)	%28ab	75	82
100*29Ts/(29Ts+29ab)	%29Ts	9	9
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	1	2
100*29ab/(29ab+30ab)	%29ab	53	64
100*30ba/(30ba+30ab)	%30ba	22	22
100*30D/(30D+30ab)	%30D	5	8
100*30G/(30G+30ab)	%30G	7	10
100*32abS/(32ab(S+R)	%32abS	58	58
100*35ab(S+R)/(34-35ab(S+R))	%35ab	33	33
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	7	8
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	40	43
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	18	19
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	17	12
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	10	11
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	4	5
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	2	2
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	1	1
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	1	1

Sterane ratios			
100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S)	%Preg	12	12
100*29aaS/29aa(R+S)	%29aaS	38	38
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	59	59
100*27db(S+R)/((27db(S+R)+27bb(R+S))	%27dia	29	29
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	32	32
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	19	19
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	46	46
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	3	3

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	13	8

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: **S2688.D**
Sample name: **30/6-25S 2688m SAT**
Data File Path: C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:

Vial no.: 6
Method: MSD_S_D
Operator: Arne
Date: 10 Mar 1999 22:36

Response curve y = ax
Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
1)	45.96	217.2		24baa	22439	23
Diterpanes:						
2)	33.59	191.2	s1	19/3	838	1
3)	35.57	191.2	s1	20/3	800	1
4)	37.62	191.2	s1	21/3	1061	1
5)	41.59	191.2	s1	23/3	4934	4
6)	42.72	191.2	s1	24/3	1770	1
7)	45.02	191.2	s1	25/3	1104	1
8)	46.54	191.2	s1	24/4	7122	5
9)	46.64	191.2	s1	26/3R	728	1
10)	46.78	191.2	s1	26/3S	736	1
11)	50.36	191.2	s1	28/3R	1487	1
12)	50.55	191.2	s1	28/3S	732	1
13)	51.34	191.2	s1	29/3R	886	1
14)	51.63	191.2	s1	29/3S	746	1
Triterpanes:						
15)	52.48	191.2	s1	27Ts	4627	4
16)	52.72	177.15	s1	25nor28ab	525	0
17)	53.16	191.2	s1	27Tm	11449	9
18)	53.52	177.15	s1	25nor29ab	514	0
19)	53.65	191.2	s1	27b	5081	4
20)	54.71	191.2	s1	28ab	1469	1
21)	54.94	177.15	s1	25nor30ab	275	0
22)	55.42	191.2	s1	29ab	30220	23
23)	55.52	191.2	s1	29Ts	3793	3
24)	55.78	191.2	s1	30D	361	0
25)	56.22	191.2	s1	29ba	1785	1
26)	56.80	191.2	s2	30ab	18174	9
27)	57.14	191.2	s1	30D13	700	1
28)	57.42	191.2	s2	30ba	1446	1
29)	58.38	191.2	s1	31abS	8069	6
30)	58.58	191.2	s1	31abR	5636	4
31)	58.90	191.2	s1	30G	1308	1
32)	59.10	191.2	s1	31ba	623	0
33)	59.61	191.2	s1	32abS	3591	3
34)	59.89	191.2	s1	32abR	2315	2
35)	61.05	191.2	s1	33abS	1948	1
36)	61.42	191.2	s1	33abR	1254	1
37)	62.55	191.2	s1	34abS	927	1
38)	63.03	191.2	s1	34abR	554	0
39)	64.23	191.2	s1	35abS	621	0
40)	64.92	191.2	s1	35abR	368	0

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Steranes:						
41)	38.12	217.2	s3	21aa	606	1
42)	39.79	217.2	s3	21bb	2822	3
43)	39.90	217.2	s3	22aa	606	1
44)	42.14	217.2	s3	22bb	1821	2
45)	48.48	217.2	s3	27dbS	2000	2
46)	49.11	217.2	s3	27dbR	1185	1
47)	51.46	218.2	s3	27bbR	5495	6
48)	51.62	218.2	s3	27bbS	4656	5
49)	52.01	217.2	s3	27aaR	2817	3
50)	53.22	218.2	s3	28bbR	2525	3
51)	53.35	218.2	s3	28bbS	2757	3
52)	54.34	217.2	s3	29aaS	1826	2
53)	54.64	218.2	s3	29bbR	4378	5
54)	54.75	218.2	s3	29bbS	3946	4
55)	55.35	217.2	s3	29aaR	2100	2
56)	55.83	218.2	s3	30bbR	413	0
57)	55.88	218.2	s3	30bbS	413	0

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts

HYDRO

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**S2688.D**
Sample name:	**30/6-25S 2688m SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	6
Method:	MSD_S_D
Operator:	Arne
Date:	10 Mar 1999 22:36

Terpane ratios, heights and amounts		Height	Amount
100*((sum20-25)/3+26/3(R+S)) / ((sum20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+sum29-30(ab+ba)+sum31-35ab(R+S)	%Tri	11	11
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	7	7
100*23/3/(23/3+24/3+25/3)	%23/3	63	63
100*24/4/(24/4+24/3+25/3)	%24/4	71	71
100*Ts/(Ts+Tm)	%27Ts	29	29
100*28ab/(28ab+30ab)	%28ab	7	11
100*29Ts/(29Ts+29ab)	%29Ts	11	11
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	1	2
100*29ab/(29ab+30ab)	%29ab	62	72
100*30ba/(30ba+30ab)	%30ba	7	7
100*30D/(30D+30ab)	%30D	2	3
100*30G/(30G+30ab)	%30G	7	10
100*32abS/(32ab(S+R)	%32abS	61	61
100*35ab(S+R)/(34-35ab(S+R))	%35ab	40	40
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	17	18
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	2	2
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	34	37
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	21	14
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	15	16
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	6	7
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	3	4
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	2	2
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	1	1

Sterane ratios			
100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S)	%Preg	16	16
100*29aaS/29aa(R+S)	%29aaS	47	47
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	68	68
100*27db(S+R)/((27db(S+R)+27bb(R+S))	%27dia	24	24
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	41	41
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	21	21
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	34	34
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	3	3

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	4	2

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**S2860.D**
Sample name:	**30/6-25S 2860m SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	7
Method:	MSD_S_D
Operator:	Arne
Date:	11 Mar 1999 00:04

Response curve y = ax

Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
1)	45.94	217.2		24baa	21707	25
Diterpanes:						
2)	33.58	191.2	s1	19/3	73	0
3)	35.48	191.2	s1	20/3	94	0
4)	37.62	191.2	s1	21/3	190	0
5)	41.58	191.2	s1	23/3	543	0
6)	42.70	191.2	s1	24/3	252	0
7)	45.03	191.2	s1	25/3	150	0
8)	46.52	191.2	s1	24/4	400	0
9)	46.64	191.2	s1	26/3R	91	0
10)	46.64	191.2	s1	26/3S	92	0
11)	50.28	191.2	s1	28/3R	109	0
12)	50.52	191.2	s1	28/3S	107	0
13)	51.33	191.2	s1	29/3R	107	0
14)	51.62	191.2	s1	29/3S	110	0
Triterpanes:						
15)	52.45	191.2	s1	27Ts	398	0
16)	52.70	177.15	s1	25nor28ab	154	0
17)	53.13	191.2	s1	27Tm	696	1
18)	53.50	177.15	s1	25nor29ab	117	0
19)	53.62	191.2	s1	27b	167	0
20)	54.69	191.2	s1	28ab	246	0
21)	54.91	177.15	s1	25nor30ab	82	0
22)	55.40	191.2	s1	29ab	1793	2
23)	55.50	191.2	s1	29Ts	349	0
24)	55.75	191.2	s1	30D	115	0
25)	56.20	191.2	s1	29ba	170	0
26)	56.78	191.2	s2	30ab	1627	1
27)	57.11	191.2	s1	30D13	107	0
28)	57.40	191.2	s2	30ba	196	0
29)	58.36	191.2	s1	31abS	683	1
30)	58.56	191.2	s1	31abR	506	0
31)	58.89	191.2	s1	30G	124	0
32)	59.10	191.2	s1	31ba	96	0
33)	59.60	191.2	s1	32abS	364	0
34)	59.87	191.2	s1	32abR	267	0
35)	61.03	191.2	s1	33abS	232	0
36)	61.40	191.2	s1	33abR	172	0
37)	62.55	191.2	s1	34abS	141	0
38)	63.02	191.2	s1	34abR	89	0
39)	64.23	191.2	s1	35abS	85	0
40)	64.92	191.2	s1	35abR	70	0

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Steranes:						
41)	38.11	217.2	s3	21aa	131	0
42)	39.77	217.2	s3	21bb	337	0
43)	39.89	217.2	s3	22aa	148	0
44)	42.12	217.2	s3	22bb	164	0
45)	48.46	217.2	s3	27dbS	406	1
46)	49.10	217.2	s3	27dbR	237	0
47)	51.44	218.2	s3	27bbR	468	1
48)	51.59	218.2	s3	27bbS	352	0
49)	51.99	217.2	s3	27aaR	241	0
50)	53.19	218.2	s3	28bbR	231	0
51)	53.33	218.2	s3	28bbS	233	0
52)	54.32	217.2	s3	29aaS	157	0
53)	54.62	218.2	s3	29bbR	346	0
54)	54.72	218.2	s3	29bbS	328	0
55)	55.33	217.2	s3	29aaR	165	0
56)	55.81	218.2	s3	30bbR	62	0
57)	55.85	218.2	s3	30bbS	61	0

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**S2860.D**
Sample name:	**30/6-25S 2860m SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	7
Method:	MSD_S_D
Operator:	Arne
Date:	11 Mar 1999 00:04

Terpane ratios, heights and amounts		Height	Amount
100*((sum20-25)/3+26/3(R+S)) / ((sum20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+sum29-30(ab+ba)+sum31-35ab(R+S)	%Tri	15	17
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	7	7
100*23/3/(23/3+24/3+25/3)	%23/3	57	57
100*24/4/(24/4+24/3+25/3)	%24/4	50	50
100*Ts/(Ts+Tm)	%27Ts	36	36
100*28ab/(28ab+30ab)	%28ab	13	19
100*29Ts/(29Ts+29ab)	%29Ts	16	16
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	5	7
100*29ab/(29ab+30ab)	%29ab	52	63
100*30ba/(30ba+30ab)	%30ba	11	11
100*30D/(30D+30ab)	%30D	7	10
100*30G/(30G+30ab)	%30G	7	11
100*32abS/(32ab(S+R)	%32abS	58	58
100*35ab(S+R)/(34-35ab(S+R))	%35ab	40	40
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	14	15
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	3	3
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	25	28
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	24	17
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	15	17
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	8	9
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	5	6
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	3	3
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	2	2

Sterane ratios			
100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S)	%Preg	19	19
100*29aaS/29aa(R+S)	%29aaS	49	49
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	68	68
100*27db(S+R)/((27db(S+R)+27bb(R+S))	%27dia	44	44
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	39	39
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	22	22
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	32	32
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	6	6

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	4	2

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name: **S2907_5.D**
Sample name: **30/6-25S 2907.5m SAT**
Data File Path: C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:

Vial no.: 8
Method: MSD_S_D
Operator: Arne
Date: 11 Mar 1999 1:32

Response curve y = ax
Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
1)	45.95	217.2		24baa	32445	26
Diterpanes:						
2)	33.58	191.2	s1	19/3	208	0
3)	35.51	191.2	s1	20/3	1070	1
4)	37.62	191.2	s1	21/3	418	0
5)	41.58	191.2	s1	23/3	1800	1
6)	42.70	191.2	s1	24/3	846	1
7)	45.01	191.2	s1	25/3	519	0
8)	46.53	191.2	s1	24/4	2327	1
9)	46.64	191.2	s1	26/3R	363	0
10)	46.77	191.2	s1	26/3S	341	0
11)	50.34	191.2	s1	28/3R	667	0
12)	50.54	191.2	s1	28/3S	384	0
13)	51.33	191.2	s1	29/3R	487	0
14)	51.62	191.2	s1	29/3S	374	0
Triterpanes:						
15)	52.47	191.2	s1	27Ts	2131	1
16)	52.72	177.15	s1	25nor28ab	532	0
17)	53.13	191.2	s1	27Tm	5432	3
18)	53.51	177.15	s1	25nor29ab	859	1
19)	53.63	191.2	s1	27b	1322	1
20)	54.70	191.2	s1	28ab	1232	1
21)	54.93	177.15	s1	25nor30ab	455	0
22)	55.41	191.2	s1	29ab	12995	8
23)	55.52	191.2	s1	29Ts	1895	1
24)	55.77	191.2	s1	30D	339	0
25)	56.21	191.2	s1	29ba	1247	1
26)	56.79	191.2	s2	30ab	10237	4
27)	57.14	191.2	s1	30D13	699	0
28)	57.41	191.2	s2	30ba	1444	1
29)	58.37	191.2	s1	31abS	4511	3
30)	58.57	191.2	s1	31abR	3435	2
31)	58.90	191.2	s1	30G	727	0
32)	59.10	191.2	s1	31ba	762	0
33)	59.61	191.2	s1	32abS	2211	1
34)	59.88	191.2	s1	32abR	1435	1
35)	61.04	191.2	s1	33abS	1186	1
36)	61.41	191.2	s1	33abR	786	0
37)	62.54	191.2	s1	34abS	638	0
38)	63.04	191.2	s1	34abR	410	0
39)	64.23	191.2	s1	35abS	424	0
40)	64.91	191.2	s1	35abR	300	0

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Steranes:						
41)	38.11	217.2	s3	21aa	290	0
42)	39.77	217.2	s3	21bb	864	1
43)	39.89	217.2	s3	22aa	277	0
44)	42.12	217.2	s3	22bb	614	1
45)	48.47	217.2	s3	27dbS	1203	1
46)	49.10	217.2	s3	27dbR	746	1
47)	51.45	218.2	s3	27bbR	2163	2
48)	51.60	218.2	s3	27bbS	1879	2
49)	52.00	217.2	s3	27aaR	1128	1
50)	53.20	218.2	s3	28bbR	1036	1
51)	53.33	218.2	s3	28bbS	1173	1
52)	54.32	217.2	s3	29aaS	811	1
53)	54.64	218.2	s3	29bbR	1861	2
54)	54.73	218.2	s3	29bbS	1724	1
55)	55.34	217.2	s3	29aaR	962	1
56)	55.82	218.2	s3	30bbR	214	0
57)	55.86	218.2	s3	30bbS	216	0

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**S2907_5.D**
Sample name:	**30/6-25S 2907.5m SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	8
Method:	MSD_S_D
Operator:	Arne
Date:	11 Mar 1999 1:32

Terpane ratios, heights and amounts		Height	Amount
100*((sum20-25)/3+26/3(R+S)) / ((sum20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+sum29-30(ab+ba)+sum31-35ab(R+S)	%Tri	10	10
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	20	20
100*23/3/(23/3+24/3+25/3)	%23/3	57	57
100*24/4/(24/4+24/3+25/3)	%24/4	63	63
100*Ts/(Ts+Tm)	%27Ts	28	28
100*28ab/(28ab+30ab)	%28ab	11	16
100*29Ts/(29Ts+29ab)	%29Ts	13	13
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	4	6
100*29ab/(29ab+30ab)	%29ab	56	66
100*30ba/(30ba+30ab)	%30ba	12	12
100*30D/(30D+30ab)	%30D	3	5
100*30G/(30G+30ab)	%30G	7	10
100*32abS/(32ab(S+R)	%32abS	61	61
100*35ab(S+R)/(34-35ab(S+R))	%35ab	41	41
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	15	16
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	2	3
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	28	31
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	23	16
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	16	17
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	7	8
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	4	4
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	2	2
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	1	2

Sterane ratios			
100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S)	%Preg	13	13
100*29aaS/29aa(R+S)	%29aaS	46	46
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	67	67
100*27db(S+R)/((27db(S+R)+27bb(R+S))	%27dia	33	33
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	39	39
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	22	22
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	35	35
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	4	4

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	5	3

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data

Norsk Hydro E&P Research Centre, Bergen, Norway

Petroleum Geochemistry Laboratories

Data file name:	**NSO_02S.D**
Sample name:	**nso1_02S ref. sample SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	1
Method:	MSD_S_D
Operator:	Arne
Date:	10 Mar 1999 16:43

Response curve y = ax

Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
1)	45.96	217.2		24baa	3955	29
Diterpanes:						
2)	33.61	191.2	s1	19/3	1802	10
3)	35.59	191.2	s1	20/3	1266	7
4)	37.63	191.2	s1	21/3	1819	10
5)	41.61	191.2	s1	23/3	3302	18
6)	42.73	191.2	s1	24/3	2323	13
7)	45.04	191.2	s1	25/3	1275	7
8)	46.53	191.2	s1	24/4	2346	13
9)	46.64	191.2	s1	26/3R	841	5
10)	46.78	191.2	s1	26/3S	875	5
11)	50.31	191.2	s1	28/3R	1082	6
12)	50.55	191.2	s1	28/3S	932	5
13)	51.35	191.2	s1	29/3R	1450	8
14)	51.63	191.2	s1	29/3S	1291	7
Triterpanes:						
15)	52.48	191.2	s1	27Ts	6805	38
16)	52.73	177.15	s1	25nor28ab	5776	32
17)	53.15	191.2	s1	27Tm	6354	35
18)	53.53	177.15	s1	25nor29ab	3173	18
19)	53.66	191.2	s1	27b	1722	10
20)	54.72	191.2	s1	28ab	9557	53
21)	54.94	177.15	s1	25nor30ab	3029	17
22)	55.42	191.2	s1	29ab	17199	95
23)	55.53	191.2	s1	29Ts	7335	41
24)	55.79	191.2	s1	30D	4104	23
25)	56.21	191.2	s1	29ba	3490	19
26)	56.80	191.2	s2	30ab	44509	158
27)	57.14	191.2	s1	30D13	2528	14
28)	57.42	191.2	s2	30ba	4451	16
29)	58.39	191.2	s1	31abS	15957	88
30)	58.58	191.2	s1	31abR	11317	63
31)	58.91	191.2	s1	30G	2191	12
32)	59.11	191.2	s1	31ba	1609	9
33)	59.63	191.2	s1	32abS	10943	60
34)	59.89	191.2	s1	32abR	7498	41
35)	61.06	191.2	s1	33abS	9311	51
36)	61.43	191.2	s1	33abR	5945	33
37)	62.56	191.2	s1	34abS	5411	30
38)	63.05	191.2	s1	34abR	3198	18
39)	64.26	191.2	s1	35abS	4007	22
40)	64.94	191.2	s1	35abR	2614	14

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Steranes:						
41)	38.13	217.2	s3	21aa	3902	31
42)	39.79	217.2	s3	21bb	5149	41
43)	39.92	217.2	s3	22aa	3171	25
44)	42.15	217.2	s3	22bb	3090	25
45)	48.48	217.2	s3	27dbS	9071	72
46)	49.12	217.2	s3	27dbR	5557	44
47)	51.47	218.2	s3	27bbR	7408	59
48)	51.61	218.2	s3	27bbS	4821	38
49)	52.02	217.2	s3	27aaR	2500	20
50)	53.22	218.2	s3	28bbR	4006	32
51)	53.36	218.2	s3	28bbS	5299	42
52)	54.34	217.2	s3	29aaS	3095	25
53)	54.64	218.2	s3	29bbR	6498	52
54)	54.75	218.2	s3	29bbS	6192	49
55)	55.36	217.2	s3	29aaR	2878	23
56)	55.82	218.2	s3	30bbR	2332	19
57)	55.87	218.2	s3	30bbS	2103	17

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts

HYDRO

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**NSO_02S.D**
Sample name:	**nso1_02S ref. sample SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	1
Method:	MSD_S_D
Operator:	Arne
Date:	10 Mar 1999 16:43

Terpane ratios, heights and amounts		Height	Amount
100*((sum20-25)/3+26/3(R+S)) / ((sum20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+sum29-30(ab+ba)+sum31-35ab(R+S)	%Tri	6	7
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	11	11
100*23/3/(23/3+24/3+25/3)	%23/3	48	48
100*24/4/(24/4+24/3+25/3)	%24/4	39	39
100*Ts/(Ts+Tm)	%27Ts	52	52
100*28ab/(28ab+30ab)	%28ab	18	25
100*29Ts/(29Ts+29ab)	%29Ts	30	30
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	6	10
100*29ab/(29ab+30ab)	%29ab	28	38
100*30ba/(30ba+30ab)	%30ba	9	9
100*30D/(30D+30ab)	%30D	8	13
100*30G/(30G+30ab)	%30G	5	7
100*32abS/(32ab(S+R)	%32abS	59	59
100*35ab(S+R)/(34-35ab(S+R))	%35ab	43	43
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	8	9
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	6	6
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	12	14
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	29	21
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	16	18
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	11	12
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	9	10
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	5	6
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	4	4
Sterane ratios			
100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S)	%Preg	18	18
100*29aaS/29aa(R+S)	%29aaS	52	52
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	68	68
100*27db(S+R)/((27db(S+R)+27bb(R+S))	%27dia	54	54
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	32	32
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	24	24
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	33	33
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	11	11
Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	4	3

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data

HYDRO

Norsk Hydro E&P Research Centre, Bergen, Norway

Petroleum Geochemistry Laboratories

Data file name:	**NSO_10S.D**
Sample name:	**nso1-10S ref. sample SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	1
Method:	MSD_S_D
Operator:	Arne
Date:	11 Mar 1999 4:28

Response curve y = ax

Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard(if added):						
1)	45.95	217.2		24baa	4787	29
Diterpanes:						
2)	33.61	191.2	s1	19/3	2136	10
3)	35.59	191.2	s1	20/3	1425	7
4)	37.63	191.2	s1	21/3	2162	10
5)	41.60	191.2	s1	23/3	3817	17
6)	42.73	191.2	s1	24/3	2675	12
7)	44.99	191.2	s1	25/3	1431	7
8)	46.53	191.2	s1	24/4	2582	12
9)	46.64	191.2	s1	26/3R	1093	5
10)	46.78	191.2	s1	26/3S	1118	5
11)	50.32	191.2	s1	28/3R	1212	6
12)	50.56	191.2	s1	28/3S	1152	5
13)	51.34	191.2	s1	29/3R	1833	8
14)	51.63	191.2	s1	29/3S	1617	7
Triterpanes:						
15)	52.49	191.2	s1	27Ts	8087	37
16)	52.73	177.15	s1	25nor28ab	6330	29
17)	53.16	191.2	s1	27Tm	6866	31
18)	53.54	177.15	s1	25nor29ab	3695	17
19)	53.65	191.2	s1	27b	2092	10
20)	54.72	191.2	s1	28ab	10874	50
21)	54.94	177.15	s1	25nor30ab	3349	15
22)	55.42	191.2	s1	29ab	20493	94
23)	55.54	191.2	s1	29Ts	8600	39
24)	55.78	191.2	s1	30D	4613	21
25)	56.22	191.2	s1	29ba	3980	18
26)	56.80	191.2	s2	30ab	48345	142
27)	57.14	191.2	s1	30D13	3580	16
28)	57.42	191.2	s2	30ba	4807	14
29)	58.39	191.2	s1	31abS	17723	81
30)	58.59	191.2	s1	31abR	12167	56
31)	58.92	191.2	s1	30G	2937	13
32)	59.11	191.2	s1	31ba	2292	10
33)	59.62	191.2	s1	32abS	12709	58
34)	59.89	191.2	s1	32abR	8394	38
35)	61.07	191.2	s1	33abS	10285	47
36)	61.43	191.2	s1	33abR	6630	30
37)	62.56	191.2	s1	34abS	5645	26
38)	63.05	191.2	s1	34abR	3293	15
39)	64.26	191.2	s1	35abS	4057	19
40)	64.94	191.2	s1	35abR	2635	12

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Steranes:						
41)	38.13	217.2	s3	21aa	4618	30
42)	39.80	217.2	s3	21bb	6051	40
43)	39.92	217.2	s3	22aa	3848	25
44)	42.15	217.2	s3	22bb	3751	25
45)	48.48	217.2	s3	27dbS	11345	75
46)	49.11	217.2	s3	27dbR	6204	41
47)	51.46	218.2	s3	27bbR	9046	60
48)	51.62	218.2	s3	27bbS	6078	40
49)	52.03	217.2	s3	27aaR	3006	20
50)	53.21	218.2	s3	28bbR	4940	33
51)	53.36	218.2	s3	28bbS	6647	44
52)	54.35	217.2	s3	29aaS	3568	24
53)	54.64	218.2	s3	29bbR	7417	49
54)	54.75	218.2	s3	29bbS	6722	44
55)	55.35	217.2	s3	29aaR	3582	24
56)	55.83	218.2	s3	30bbR	2668	18
57)	55.89	218.2	s3	30bbS	2368	16

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts

HYDRO

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**NSO_10S.D**
Sample name:	**nso1-10S ref. sample SAT**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	1
Method:	MSD_S_D
Operator:	Arne
Date:	11 Mar 1999 4:28

Terpane ratios, heights and amounts		Height	Amount
100*((sum20-25)/3+26/3(R+S)) / ((sum20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+sum29-30(ab+ba)+sum31-35ab(R+S)	%Tri	7	8
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	10	10
100*23/3/(23/3+24/3+25/3)	%23/3	48	48
100*24/4/(24/4+24/3+25/3)	%24/4	39	39
100*Ts/(Ts+Tm)	%27Ts	54	54
100*28ab/(28ab+30ab)	%28ab	18	26
100*29Ts/(29Ts+29ab)	%29Ts	30	30
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	6	10
100*29ab/(29ab+30ab)	%29ab	30	40
100*30ba/(30ba+30ab)	%30ba	9	9
100*30D/(30D+30ab)	%30D	9	13
100*30G/(30G+30ab)	%30G	6	9
100*32abS/(32ab(S+R)	%32abS	60	60
100*35ab(S+R)/(34-35ab(S+R))	%35ab	43	43
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	8	9
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	6	6
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	13	15
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	28	20
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	16	18
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	11	13
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	9	10
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	5	5
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	4	4

Sterane ratios			
100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S)	%Preg	18	18
100*29aaS/29aa(R+S)	%29aaS	50	50
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	66	66
100*27db(S+R)/((27db(S+R)+27bb(R+S))	%27dia	54	54
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	33	33
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	25	25
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	31	31
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	11	11

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	4	3

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**NSO_02S.D**
Sample name:	**nso1_02S ref. sample SAT**
Data File Path:	K:\CAP\MSFIDW95\WOOD\
Misc. info.:	
Vial no.:	1
Method:	MSD_S_D
Operator:	marian
Date:	15 Apr 1999 12:13

Response curve y = ax

Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (n-added)						
1)	46.03	217.2		24baa	2927	29
Diterpanes:						
2)	33.68	191.2	s1	19/3	1314	10
3)	35.65	191.2	s1	20/3	924	7
4)	37.70	191.2	s1	21/3	1274	10
5)	41.68	191.2	s1	23/3	2439	18
6)	42.80	191.2	s1	24/3	1631	12
7)	45.13	191.2	s1	25/3	944	7
8)	46.61	191.2	s1	24/4	1625	12
9)	46.73	191.2	s1	26/3R	632	5
10)	46.85	191.2	s1	26/3S	665	5
11)	50.39	191.2	s1	28/3R	747	6
12)	50.64	191.2	s1	28/3S	707	5
13)	51.43	191.2	s1	29/3R	1084	8
14)	51.72	191.2	s1	29/3S	862	6
Triterpanes:						
15)	52.57	191.2	s1	27Ts	5376	40
16)	52.82	177.15	s1	25nor28ab	4063	30
17)	53.25	191.2	s1	27Tm	4578	34
18)	53.62	177.15	s1	25nor29ab	2360	18
19)	53.74	191.2	s1	27b	1393	10
20)	54.81	191.2	s1	28ab	6850	51
21)	55.02	177.15	s1	25nor30ab	2098	16
22)	55.51	191.2	s1	29ab	12917	96
23)	55.62	191.2	s1	29Ts	5065	38
24)	55.87	191.2	s1	30D	2910	22
25)	56.31	191.2	s1	29ba	2461	18
26)	56.89	191.2	s2	30ab	31202	150
27)	57.23	191.2	s1	30D13	1752	13
28)	57.51	191.2	s2	30ba	2987	14
29)	58.48	191.2	s1	31abS	11426	85
30)	58.67	191.2	s1	31abR	7807	58
31)	59.02	191.2	s1	30G	1607	12
32)	59.21	191.2	s1	31ba	1197	9
33)	59.72	191.2	s1	32abS	7537	56
34)	59.98	191.2	s1	32abR	5298	40
35)	61.16	191.2	s1	33abS	6305	47
36)	61.52	191.2	s1	33abR	4041	30
37)	62.67	191.2	s1	34abS	3410	25
38)	63.17	191.2	s1	34abR	2012	15
39)	64.38	191.2	s1	35abS	2501	19
40)	65.07	191.2	s1	35abR	1542	12

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Steranes:						
41)	38.20	217.2	s3	21aa	2958	32
42)	39.87	217.2	s3	21bb	3811	41
43)	39.98	217.2	s3	22aa	2444	26
44)	42.23	217.2	s3	22bb	2381	26
45)	48.56	217.2	s3	27dbS	7134	77
46)	49.19	217.2	s3	27dbR	4234	46
47)	51.55	218.2	s3	27bbR	5427	59
48)	51.70	218.2	s3	27bbS	3889	42
49)	52.11	217.2	s3	27aaR	1965	21
50)	53.30	218.2	s3	28bbR	3283	35
51)	53.43	218.2	s3	28bbS	4014	43
52)	54.42	217.2	s3	29aaS	2179	23
53)	54.72	218.2	s3	29bbR	4875	53
54)	54.83	218.2	s3	29bbS	4466	48
55)	55.44	217.2	s3	29aaR	2131	23
56)	55.92	218.2	s3	30bbR	1620	17
57)	55.95	218.2	s3	30bbS	1590	17

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts

HYDRO

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**NSO_02S.D**
Sample name:	**nso1_02S ref. sample SAT**
Data File Path:	K:\CAP\MSFIDW95\WOOD\
Misc. info.:	
Vial no.:	1
Method:	MSD_S_D
Operator:	marian
Date:	15 Apr 1999 12:13

Terpane ratios, heights and amounts		Height	Amount
100*((sum20-25)/3+26/3(R+S)) / ((sum20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+sum29-30(ab+ba)+sum31-35ab(R+S)	%Tri	7	7
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	11	11
100*23/3/(23/3+24/3+25/3)	%23/3	49	49
100*24/4/(24/4+24/3+25/3)	%24/4	39	39
100*Ts/(Ts+Tm)	%27Ts	54	54
100*28ab/(28ab+30ab)	%28ab	18	25
100*29Ts/(29Ts+29ab)	%29Ts	28	28
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	6	9
100*29ab/(29ab+30ab)	%29ab	29	39
100*30ba/(30ba+30ab)	%30ba	9	9
100*30D/(30D+30ab)	%30D	9	13
100*30G/(30G+30ab)	%30G	5	7
100*32abS/(32ab(S+R)	%32abS	59	59
100*35ab(S+R)/(34-35ab(S+R))	%35ab	43	43
100*(27Ts+27Tm)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	8	9
100*(28ab)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	6	6
100*(29ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	13	15
100*(30ab+ba)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	29	21
100*31ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	16	18
100*32ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	11	12
100*33ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	9	10
100*34ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	5	5
100*35ab(S+R)/(27Ts+27Tm+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%35HOP	3	4

Sterane ratios			
100*(21+22)bb/((21+22)bb+(27+28+29+30)bb(R+S)	%Preg	18	18
100*29aaS/29aa(R+S)	%29aaS	51	51
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	68	68
100*27db(S+R)/((27db(S+R)+27bb(R+S))	%27dia	55	55
100*27bb(R+S)/(27+28+29+30)bb(R+S)	%27STER	32	32
100*28bb(R+S)/(27+28+29+30)bb(R+S)	%28STER	25	25
100*29bb(R+S)/(27+28+29+30)bb(R+S)	%29STER	32	32
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	11	11

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	4	3

Title: Petroleum Geochemistry, Well 30/6-25 S

No:
Rev.: 0
Date: 1999-04-21

Appendix 4

Aromatic hydrocarbons, data tables and reports

End-depth, m	Type	Lith.	Name	Remarks	Status	Signal	NAPHTALENE	C1_NAPH	C2_NAPH	C3_NAPH	PHEN	C2_PHEN	C1_PHEN	MPI1	F1	F2	DNR
2320.00	DC			Mud impregnation	OK	AM	36.5	209.8	624.9	702.6	115.2	259.4	308.4	0.6	0.4	0.2	2.2
2340.00	DC			Mud impregnation	OK	AM	16.7	78.1	362.2	519.7	86.3	182.9	227.5	0.6	0.4	0.2	2.1
2673.00	SWC	SST	46.00	Mud impregnation	OK	AM	86.2	195.9	189.2	158.2	34.3	27.4	43.8	0.5	0.4	0.2	1.7
2688.00	SWC	SST	44.00	Mud impregnation	OK	AM	10.7	32.4	47.3	39.9	19.0	14.9	24.1	0.5	0.5	0.3	2.1
2860.00	SWC	SST	16.00	Mud impregnation	WEAK	AM	269.9	77.8	50.3	33.0	2.8	5.1	6.5	1.2	0.6	0.2	2.1
2907.50	SWC	SST	9.00	Mud impregnation	OK	AM	51.5	83.9	70.7	52.3	30.9	26.6	48.2	0.6	0.5	0.3	2.7
				Lab.Ref. psu/ref-NSO1 sat	OK	AM	1009.9	2352.8	3262.3	2374.3	253.8	507.5	619.8	0.7	0.4	0.2	2.9
				Lab.Ref. psu/ref-NSO1 sat	OK	AM	1009.9	2352.8	3262.3	2376.5	253.8	507.5	619.8	0.7	0.4	0.2	2.9

End-depth, m	Type	Lith.	Name	Remarks	Status	Signal	DBT_P	F_P	BP_16DMN	2MN_1MN	2EN_1EN	4_1_MDBT	3MPR
2320.00	DC			Mud impregnation	OK	AM	0.1	0.2	0.4	1.0	1.4	2.6	1.1
2340.00	DC			Mud impregnation	OK	AM	0.0	0.1	0.8	1.0	1.4	2.2	2.6
2673.00	SWC	SST	46.00	Mud impregnation	OK	AM	0.0	0.2	0.2	1.5	1.8	2.0	0.7
2688.00	SWC	SST	44.00	Mud impregnation	OK	AM	0.0	0.1	0.2	1.5	1.8	4.0	1.4
2860.00	SWC	SST	16.00	Mud impregnation	WEAK	AM	0.0	3.9	1.0	1.7	2.3	1.2	3.9
2907.50	SWC	SST	9.00	Mud impregnation	OK	AM	0.0	0.2	0.2	1.7	1.9	3.7	1.3
				Lab.Ref. psu/ref-NSO1 sat	OK	AM	0.1	0.5	0.3	1.3	2.0	3.0	1.7
				Lab.Ref. psu/ref-NSO1 sat	OK	AM	0.1	0.5	0.3	1.3	2.0	3.0	1.7

Aromatic hydrocarbons, by GC/MS

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data

Norsk Hydro E&P Research Centre, Bergen, Norway
Petroleum Geochemistry Laboratories

Data file name:	**A2320.D**
Sample name:	**30/6-25S 2320m ARO**
Data File Path:	C:\HPCHEM\2\DATA\306_25S1\
Misc. info.:	
Vial no.:	11
Method:	MSD_A_D
Operator:	Arne
Date:	#VALUE!

Response curve: y = ax+b

Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
14)	11.43	136		d8N	28702	42
16)	20.85	164		d10BP	36965	40
59)	29.24	188		d10P	93449	42
79)	44.70	240		d12C	84688	42
Aryl isoprenoids:						
1)	20.24	133	0	C13AI	6481	
2)	22.16	133	0	C14AI	6103	
3)	26.40	133	0	C15AI	7167	
4)	28.75	133	0	C16Ai	5320	
5)	30.75	133	0	C17AI	5292	
6)	33.68	133	0	C18AI	4079	
7)	34.87	133	0	C19AI	1895	
8)	37.73	133	0	C20AI	1643	
9)	39.75	133	0	C21AI	2986	
10)	42.77	133	0	C22AI	4280	
11)	44.84	133	0	C23AI	1858	
12)	55.85	133	0	C30AI	1651	
13)	56.82	133	0	C31AI	718	
Naphthalenes:						
15)	11.52	128	a1	N	27332	36
17)	15.08	142	a2	2-MN	102863	106
18)	15.63	142	a2	1-MN	99755	103
19)	18.25	156	a3	2-EN	18650	18
20)	18.36	156	a3	1-EN	13527	13
21)	18.59	156	a3	2.6+2.7-DMN	112076	109
22)	19.05	156	a3	1.3+1.7-DMN	186860	181
23)	19.15	156	a3	1.6-DMN	141035	137
24)	19.65	156	a3	2.3+1.4-DMN	82563	80
25)	19.75	156	a3	1.5-DMN	50798	49
26)	20.12	156	a3	1.2-DMN	38083	37
27)	21.81	170	a4	C3-N-1	16803	17
28)	22.18	170	a4	C3-N-2	17428	17
29)	22.29	170	a4	1.3.7-TMN	82299	81
30)	22.44	170	a4	1.3.6-TMN	128623	127
31)	22.92	170	a4	1.3.5+1.4.6-TMN	127577	126
32)	22.99	170	a4	2.3.6-TMN	101324	100
33)	23.41	170	a4	1.6.7+1.2.7-TMN	84040	83
34)	23.46	170	a4	1.2.6-TMN	56192	55
35)	23.90	170	a4	1.2.4-TMN	17781	18
36)	24.10	170	a4	1.2.5-TMN	79585	79
Biphenyls:						
37)	17.79	154	a5	BP	78089	53
38)	21.08	168	a5	3-MBP	118354	80
39)	21.34	168	a5	4-MBP	40953	28
40)	21.40	182	a4	2.3'-DMBP	6736	7
41)	21.61	182	a4	2.5-DMBP	2980	3
42)	21.77	182	a4	2.4+2.4'-DMBP	5631	6
43)	22.39	182	a4	2.3-DMBP	11056	11
44)	23.78	182	a4	3-EBP	13500	13
45)	24.11	182	a4	3.5-DMBP	25165	25
46)	24.21	182	a4	3.3'-DMBP	58355	58
47)	24.33	182	a4	4-EBP	4815	5
48)	24.51	182	a4	3.4'-DMBP	47385	47
49)	24.72	182	a4	4.4'-DMBP	8047	8
50)	25.27	182	a4	3.4-DMBP	27828	27

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Dibenzofuranes:						
51)	21.96	168	a5	DBF	30870	21
52)	25.05	182	a4	MDBF-1	60729	60
53)	25.42	182	a4	MDBF-2	35830	35
54)	25.71	182	a4	MDBF-3	34268	34
Fluorenes:						
55)	23.92	166	a6	F	27045	22
56)	27.22	180	a6	C1-F-1	15004	12
57)	27.39	180	a6	C1-F-2	86456	71
58)	27.70	180	a6	1-MF	8260	7
Dibenzothiophenes:						
60)	28.63	184	a7	DBT	63868	8
61)	31.25	198	a7	4-MDBT	82431	11
62)	31.77	198	a7	3+2-MDBT	24195	3
63)	32.34	198	a7	1-MDBT	32236	4
Phenanthrenes:						
64)	29.37	178	a8	P	306849	115
65)	32.30	192	a9	3-MP	123159	54
66)	32.44	192	a9	2-MP	146177	64
67)	32.93	192	a9	9-MP	228869	101
68)	33.06	192	a9	1-MP	202086	89
69)	35.01	206	a10	2EP+9EP+3.6-DMP	32208	14
70)	35.25	206	a10	1EP	38280	16
71)	35.35	206	a10	2.6+2.7+3.5-DMP	23021	10
72)	35.70	206	a10	1.3+2.10+3.9+3.10-DMI	181553	76
73)	35.84	206	a10	1.6+2.5+2.9-DMP	104596	44
74)	35.99	206	a10	1.7-DMP	114113	48
75)	36.12	206	a10	2.3-DMP	27528	12
76)	36.24	206	a10	1.9+4.9+4.10-DMP	65443	28
77)	36.54	206	a10	1.8-DMP	29085	12
Retene:						
78)	39.86	219	a8	Retene	136635	51
Triaromatic steroids:						
80)	44.30	231	a11	20TA	26942	3
81)	46.18	231	a11	21TA	30105	3
82)	53.14	231	a11	S26TA	36140	4
83)	54.34	231	a11	R26TA/S27TA	108339	12
84)	55.33	231	a11	S28TA	52305	6
85)	55.84	231	a11	R27TA	48595	5
86)	57.06	231	a11	R28TA	54682	6