

#	Rt.min.	Signal	Compound	Area	Amount
		FID			ug/mg
Internal standards (if added):					
1)	13.38	GC1	C12D26	3246285	4.2
6)	25.71	GC1	C16D34	7462667	4.2
11)	35.99	GC1	C20D24	2426022	4.2
19)	44.60	GC1	C24D42	8064689	4.3
28)	55.29	GC1	C30D62	3449903	1.8
2)	10.68	GC1	nC11	214667	
3)	13.95	GC1	nC12	1078110	
4)	17.24	GC1	nC13	3055058	
5)	20.45	GC1	nC14	8196812	
7)	22.35	GC1	iC16	4450773	2.5
8)	23.52	GC1	nC15	12479434	7.1
9)	26.44	GC1	nC16	12487990	7.1
10)	27.77	GC1	iC18	4227477	2.4
12)	29.20	GC1	nC17	11760908	20.4
13)	29.36	GC1	pristane	7275581	12.6
14)	31.84	GC1	nC18	9690409	16.8
15)	32.07	GC1	phytane	5878032	10.2
16)	34.35	GC1	nC19	8681958	15.0
17)	36.76	GC1	nC20	7701618	13.3
18)	39.05	GC1	nC21	6846343	11.9
20)	41.25	GC1	nC22	6512090	3.5
21)	43.37	GC1	nC23	5575234	3.0
22)	45.40	GC1	nC24	5485105	2.9
23)	47.35	GC1	nC25	4824295	2.6
24)	49.23	GC1	nC26	4070424	2.2
25)	51.05	GC1	nC27	3224622	1.7
26)	52.80	GC1	nC28	2899007	1.5
27)	54.50	GC1	nC29	2749281	1.5
29)	56.15	GC1	nC30	2306399	1.2
30)	57.73	GC1	nC31	2094579	1.1
31)	59.27	GC1	nC32	1832736	1.0
32)	60.77	GC1	nC33	1426960	0.8
33)	62.22	GC1	nC34	1732762	0.9
34)	63.80	GC1	nC35	1892519	1.0

### Saturated hydrocarbons

GC/FID detection HP-6890

#### Compound data and ratios



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

Data file name: S2117\_95.D  
Sample name: 25/7-5 2117.95m sat  
Data File Path: C:\HPCHEM\1\DATA\SAS315H3D\  
Misc. info.:  
  
Vial no.: 5  
Method: MSD\_S\_D  
Operator:  
Date: Thu Nov 13 22:33:42 1997

Response curve y = ax  
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.62	0.62
Ph/nC18	0.61	0.61
(Pr/nC17)/(Ph/nC18)	1.02	1.02
Pr/Ph	1.24	1.24
nC17/(nC17+nC27)	0.78	0.92
CPI-1	1.02	1.02
CPI-2 (2*nC27/(nC26+nC27))	0.88	0.88

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.38	GC1	C12D26	2226225	4.4
6)	25.70	GC1	C16D34	5883135	4.4
11)	35.98	GC1	C20D24	6731869	4.4
19)	44.59	GC1	C24D42	6506163	4.5
28)	55.28	GC1	C30D62	2735485	1.9
2)	10.68	GC1	nC11	568877	
3)	13.95	GC1	nC12	1842118	
4)	17.24	GC1	nC13	3974338	
5)	20.44	GC1	nC14	6561691	
7)	22.34	GC1	iC16	3028008	2.3
8)	23.51	GC1	nC15	8496928	6.4
9)	26.42	GC1	nC16	8517852	6.4
10)	27.76	GC1	iC18	3067289	2.3
12)	29.19	GC1	nC17	8182353	5.3
13)	29.34	GC1	pristane	5723696	3.7
14)	31.82	GC1	nC18	7409894	4.8
15)	32.06	GC1	phytane	4942961	3.2
16)	34.34	GC1	nC19	6416894	4.2
17)	36.74	GC1	nC20	5840550	3.8
18)	39.03	GC1	nC21	5275316	3.4
20)	41.24	GC1	nC22	4763962	3.3
21)	43.35	GC1	nC23	4256780	2.9
22)	45.38	GC1	nC24	4316083	3.0
23)	47.34	GC1	nC25	3873860	2.7
24)	49.22	GC1	nC26	3226386	2.2
25)	51.04	GC1	nC27	2524414	1.7
26)	52.80	GC1	nC28	2351030	1.6
27)	54.49	GC1	nC29	2173423	1.5
29)	56.13	GC1	nC30	1753950	1.2
30)	57.72	GC1	nC31	1538336	1.1
31)	59.26	GC1	nC32	1357966	0.9
32)	60.76	GC1	nC33	1273146	0.9
33)	62.22	GC1	nC34	1557409	1.1
34)	63.80	GC1	nC35	1342860	0.9

### Saturated hydrocarbons

GC/FID detection HP-6890

#### Compound data and ratios



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

Data file name: **S2119\_10.D**  
Sample name: **25/7-5 2119\_10m sat**  
Data File Path: C:\HPCHEM\1\DATA\SASA315H3D\  
Misc. info.:

Vial no.: **6**  
Method: **MSD\_S\_D**  
Operator:  
Date: **Fri Nov 14 00:02:25 1997**

Response curve  $y = ax$   
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.70	0.70
Ph/nC18	0.67	0.67
(Pr/nC17)/(Ph/nC18)	1.05	1.05
Pr/Ph	1.16	1.16
nC17/(nC17+nC27)	0.76	0.75
CPI-1	1.02	1.02
CPI-2 (2*nC27/(nC26+nC27))	0.88	0.88

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.37	GC1	C12D26	3155452	3.8
6)	25.68	GC1	C16D34	4352326	3.8
11)	35.96	GC1	C20D24	5118818	3.8
19)	44.57	GC1	C24D42	4942449	3.8
28)	55.25	GC1	C30D62	2149181	1.7
2)	10.68	GC1	nC11	295676	
3)	13.95	GC1	nC12	729681	
4)	17.22	GC1	nC13	923878	
5)	20.41	GC1	nC14	2621258	
7)	22.33	GC1	iC16	3673895	3.2
8)	23.47	GC1	nC15	4488671	3.9
9)	26.38	GC1	nC16	5060119	4.4
10)	27.75	GC1	iC18	3411033	3.0
12)	29.15	GC1	nC17	4208530	3.1
13)	29.33	GC1	pristane	7323348	5.4
14)	31.78	GC1	nC18	3473385	2.6
15)	32.04	GC1	phytane	4262780	3.1
16)	34.30	GC1	nC19	3347207	2.5
17)	36.70	GC1	nC20	3157841	2.3
18)	39.00	GC1	nC21	3108099	2.3
20)	41.21	GC1	nC22	2803020	2.2
21)	43.32	GC1	nC23	2529726	2.0
22)	45.35	GC1	nC24	2688001	2.1
23)	47.30	GC1	nC25	2321074	1.8
24)	49.19	GC1	nC26	1916705	1.5
25)	51.00	GC1	nC27	2006859	1.6
26)	52.76	GC1	nC28	1490919	1.2
27)	54.46	GC1	nC29	1412407	1.1
29)	56.11	GC1	nC30	1449372	1.1
30)	57.69	GC1	nC31	1067820	0.8
31)	59.23	GC1	nC32	904632	0.7
32)	60.73	GC1	nC33	866378	0.7
33)	62.19	GC1	nC34	1180104	0.9
34)	63.76	GC1	nC35	965891	0.8

### Saturated hydrocarbons

GC/FID detection HP-6890

#### Compound data and ratios



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

Data file name: S2126\_7.D  
Sample name: 25/7-5 2126.7m sat  
Data File Path: C:\HPCHEM\1\DATA\ELIN\2\  
Misc. info.:  
  
Vial no.: 4  
Method: MSD\_S\_D  
Operator:  
Date: Wed Dec 03 20:31:52 1997

Response curve y = ax  
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	1.74	1.74
Ph/nC18	1.23	1.23
(Pr/nC17)/(Ph/nC18)	1.42	1.42
Pr/Ph	1.72	1.72
nC17/(nC17+nC27)	0.68	0.66
CPI-1	1.04	1.04
CPI-2 (2*nC27/(nC26+nC27))	1.02	1.02

#	Rt.min.	Signal	Compound	Area	Amount
FID				ug/mg	
Internal standards (if added):					
1)	13.38	GC1	C12D26	3039982	3.6
6)	25.70	GC1	C16D34	4870252	3.6
11)	35.98	GC1	C20D24	5359453	3.5
19)	44.59	GC1	C24D42	5774996	3.6
28)	55.28	GC1	C30D62	2504398	1.6
2)	10.68	GC1	nC11	136833	
3)	13.95	GC1	nC12	655636	
4)	17.23	GC1	nC13	1209802	
5)	20.43	GC1	nC14	4026816	
7)	22.35	GC1	iC16	5781452	4.2
8)	23.50	GC1	nC15	7226098	5.3
9)	26.42	GC1	nC16	7958668	5.9
10)	27.78	GC1	iC18	5526838	4.1
12)	29.18	GC1	nC17	6786107	4.5
13)	29.37	GC1	pristane	10731239	7.1
14)	31.82	GC1	nC18	5198443	3.4
15)	32.06	GC1	phytane	6086636	4.0
16)	34.33	GC1	nC19	4960270	3.3
17)	36.74	GC1	nC20	4606311	3.0
18)	39.03	GC1	nC21	4334201	2.9
20)	41.23	GC1	nC22	3978792	2.5
21)	43.35	GC1	nC23	3723718	2.3
22)	45.39	GC1	nC24	3753771	2.4
23)	47.34	GC1	nC25	3422646	2.1
24)	49.23	GC1	nC26	2864357	1.8
25)	51.04	GC1	nC27	2390269	1.5
26)	52.80	GC1	nC28	2286678	1.4
27)	54.49	GC1	nC29	2206624	1.4
29)	56.14	GC1	nC30	1992230	1.2
30)	57.73	GC1	nC31	1928735	1.2
31)	59.27	GC1	nC32	1835583	1.1
32)	60.77	GC1	nC33	1891474	1.2
33)	62.22	GC1	nC34	2378043	1.5
34)	63.81	GC1	nC35	1535044	1.0

**Saturated hydrocarbons**  
GC/FID detection HP-6890  
**Compound data and ratios**



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

Data file name: **S2128\_50.D**  
Sample name: **25/7-5 2128\_50m sat**  
Data File Path: **C:\HPCHEM\1\DATA\ISA315H3D\**  
Misc. info.:  
  
Vial no.: **7**  
Method: **MSD\_S\_D**  
Operator:  
Date: **Fri Nov 14 01:31:06 1997**  
  
Response curve y = ax  
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	1.58	1.58
Ph/nC18	1.17	1.17
(Pr/nC17)/(Ph/nC18)	1.35	1.35
Pr/Ph	1.76	1.76
nC17/(nC17+nC27)	0.74	0.75
CPI-1	1.01	1.01
CPI-2 (2*nC27/(nC26+nC27))	0.91	0.91

#	Rt.min.	Signal	Compound	Area	Amount
			FID	ug/mg	
Internal standards (if added):					
1)	13.38	GC1	C12D26	2352130	2.7
6)	25.70	GC1	C16D34	4467796	2.7
11)	35.98	GC1	C20D24	5873795	2.6
19)	44.60	GC1	C24D42	5067169	2.7
28)	55.28	GC1	C30D62	2067510	1.1
2)	10.68	GC1	nC11	139482	
3)	13.96	GC1	nC12	705850	
4)	17.23	GC1	nC13	1348665	
5)	20.44	GC1	nC14	4784533	
7)	22.37	GC1	iC16	7375275	4.4
8)	23.52	GC1	nC15	8930680	5.3
9)	26.43	GC1	nC16	9361894	5.6
10)	27.80	GC1	iC18	7021887	4.2
12)	29.20	GC1	nC17	9334044	4.2
13)	29.39	GC1	pristane	13491120	6.0
14)	31.84	GC1	nC18	7655388	3.4
15)	32.09	GC1	phytane	7631522	3.4
16)	34.35	GC1	nC19	7559668	3.4
17)	36.76	GC1	nC20	7202396	3.2
18)	39.05	GC1	nC21	6891686	3.1
20)	41.26	GC1	nC22	6279962	3.3
21)	43.37	GC1	nC23	5835631	3.1
22)	45.40	GC1	nC24	5966779	3.2
23)	47.36	GC1	nC25	5252254	2.8
24)	49.24	GC1	nC26	4471157	2.4
25)	51.06	GC1	nC27	3592600	1.9
26)	52.80	GC1	nC28	3307358	1.8
27)	54.51	GC1	nC29	3569211	1.9
29)	56.15	GC1	nC30	2471388	1.3
30)	57.74	GC1	nC31	2342645	1.2
31)	59.27	GC1	nC32	2026078	1.1
32)	60.77	GC1	nC33	1847033	1.0
33)	62.23	GC1	nC34	2010729	1.1
34)	63.81	GC1	nC35	1189038	0.6

### Saturated hydrocarbons

GC/FID detection HP-6890

#### Compound data and ratios



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

Data file name: **S2131\_50.D**  
 Sample name: **25/7-5 2131\_50m sat**  
 Data File Path: C:\HPCHEM\1\DATA\SA315H3D\  
 Misc. info.:  
 Vial no.: 8  
 Method: MSD\_S\_D  
 Operator:  
 Date: Fri Nov 14 02:59:48 1997

Response curve  $y = ax$   
 Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	1.45	1.45
Ph/nC18	1.00	1.00
(Pr/nC17)/(Ph/nC18)	1.45	1.45
Pr/Ph	1.77	1.77
nC17/(nC17+nC27)	0.72	0.69
CPI-1	1.06	1.06
CPI-2 (2*nC27/(nC26+nC27))	0.89	0.89

#	RT.min.	Signal	Compound	Area	Amount
			FID	ug/mg	
<b>Internal standards (if added):</b>					
1)	13.38	GC1	C12D26	2141667	3.0
6)	25.69	GC1	C16D34	3650617	3.0
11)	35.97	GC1	C20D24	4535927	3.0
19)	44.58	GC1	C24D42	4315487	3.0
28)	55.27	GC1	C30D62	1731586	1.2
2)	10.68	GC1	nC11	45145	
3)	13.96	GC1	nC12	294278	
4)	17.23	GC1	nC13	1095794	
5)	20.44	GC1	nC14	6213297	
7)	22.35	GC1	iC16	4622418	3.8
8)	23.53	GC1	nC15	12483993	10.2
9)	26.44	GC1	nC16	13767485	11.2
10)	27.77	GC1	iC18	4165906	3.4
12)	29.21	GC1	nC17	13141963	8.5
13)	29.36	GC1	pristane	8172221	5.3
14)	31.84	GC1	nC18	11121542	7.2
15)	32.07	GC1	phytane	4715437	3.1
16)	34.36	GC1	nC19	10192993	6.6
17)	36.76	GC1	nC20	9264676	6.0
18)	39.05	GC1	nC21	8325021	5.4
20)	41.26	GC1	nC22	7790698	5.4
21)	43.37	GC1	nC23	6905795	4.8
22)	45.40	GC1	nC24	6752184	4.7
23)	47.35	GC1	nC25	5745666	4.0
24)	49.24	GC1	nC26	5147958	3.6
25)	51.05	GC1	nC27	4568299	3.2
26)	52.80	GC1	nC28	3906258	2.7
27)	54.50	GC1	nC29	3592423	2.5
29)	56.14	GC1	nC30	2792568	1.9
30)	57.73	GC1	nC31	2644474	1.8
31)	59.27	GC1	nC32	2233054	1.6
32)	60.76	GC1	nC33	1894374	1.3
33)	62.22	GC1	nC34	1977654	1.4
34)	63.79	GC1	nC35	1567555	1.1

**Saturated hydrocarbons**  
GC/FID detection HP-6890  
**Compound data and ratios**



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

Data file name: **S2133\_75.D**  
Sample name: **25/7-5 2133\_75m sat**  
Data File Path: C:\HPCHEM\1\DATA\SASA315H3D\  
Misc. info.:  
  
Vial no.: **9**  
Method: **MSD\_S\_D**  
Operator:  
Date: **Fri Nov 14 04:28:28 1997**  
  
Response curve  $y = ax$   
Response factor equally 1.0

<b>Ratios:</b>	Area	Amount
Pr/nC17	0.62	0.62
Ph/nC18	0.42	0.42
(Pr/nC17)/(Ph/nC18)	1.47	1.47
Pr/Ph	1.73	1.73
nC17/(nC17+nC27)	0.74	0.73
CPI-1	1.03	1.03
CPI-2 (2*nC27/(nC26+nC27))	0.94	0.94

## **Appendix III**

**Mass chromatograms and tabulated results from the GC-MSD analysis  
of the saturated hydrocarbons**

**Saturated biomarkers**

GC/MS detection HP-6890/5973  
Compound data



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

Data file name: **S1830.D**  
Sample name: **25/7-5 1830m sat**  
Data File Path: **C:\HPCHEM\1\DATA\ISA315H3D\**  
Misc. info.:  
  
Vial no.: **3**  
Method: **MSD\_S\_D**  
Operator:  
Date: **Thu Nov 13 19:36:17 1997**

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Internal standard (if added):</b>						
1)	46.16	217.2		24baa	5438	28
<b>Diterpanes:</b>						
2)	33.80	191.2	s1	19/3	158	1
3)	35.79	191.2	s1	20/3	224	1
4)	37.84	191.2	s1	21/3	304	1
5)	41.80	191.2	s1	23/3	523	2
6)	42.93	191.2	s1	24/3	271	1
7)	45.21	191.2	s1	25/3	128	0
8)	46.74	191.2	s1	24/4	229	1
9)	46.85	191.2	s1	26/3R	72	0
10)	46.99	191.2	s1	26/3S	83	0
11)	50.51	191.2	s1	28/3R	69	0
12)	50.76	191.2	s1	28/3S	63	0
13)	51.54	191.2	s1	29/3R	87	0
14)	51.84	191.2	s1	29/3S	75	0
<b>Triterpanes:</b>						
15)	52.70	191.2	s1	27Ts	426	2
16)	52.95	177.2	s1	25nor28ab	69	0
17)	53.37	191.2	s1	27Tm	567	2
18)	53.74	177.2	s1	25nor29ab	173	1
19)	53.93	191.2	s1	27b	1671	6
20)	54.93	191.2	s1	28ab	221	1
21)	55.15	177.2	s1	25nor30ab	33	0
22)	55.64	191.2	s1	29ab	1330	5
23)	55.73	191.2	s1	29Ts	426	2
24)	55.99	191.2	s1	30D	187	1
25)	56.44	191.2	s1	29ba	714	3
26)	57.00	191.2	s2	30ab	2399	6
27)	57.30	191.2	s1	30D13	460	2
28)	57.57	191.2	s2	30ba	586	1
29)	58.60	191.2	s1	31abS	666	3
30)	58.79	191.2	s1	31abR	1763	7
31)	59.13	191.2	s1	30G	92	0
32)	59.28	191.2	s1	31ba	1578	6
33)	59.84	191.2	s1	32abS	352	1
34)	60.10	191.2	s1	32abR	383	1
35)	61.23	191.2	s1	33abS	335	1
36)	61.64	191.2	s1	33abR	182	1
37)	62.79	191.2	s1	34abS	148	1
38)	63.27	191.2	s1	34abR	84	0
39)	64.52	191.2	s1	35abS	93	0
40)	65.22	191.2	s1	35abR	61	0

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Steranes:</b>						
41)	38.33	217.2	s3	21aa	161	1
42)	40.00	217.2	s3	21bb	263	1
43)	40.12	217.2	s3	22aa	153	1
44)	42.35	217.2	s3	22bb	163	1
45)	48.69	217.2	s3	27dbS	377	2
46)	49.32	217.2	s3	27dbR	236	1
47)	51.66	218.2	s3	27bbR	398	2
48)	51.82	218.2	s3	27bbS	288	2
49)	52.21	217.2	s3	27aaR	343	2
50)	53.41	218.2	s3	28bbR	223	1
51)	53.56	218.2	s3	28bbS	250	1
52)	54.54	217.2	s3	29aaS	188	1
53)	54.85	218.2	s3	29bbR	378	2
54)	54.94	218.2	s3	29bbS	281	2
55)	55.55	217.2	s3	29aaR	437	2
56)	56.02	218.2	s3	30bbR	82	0
57)	56.09	218.2	s3	30bbS	86	0



**Saturated biomarkers**

GC/MS detection HP-6890/5973

Compound data



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

Data file name: **S1860.D**  
 Sample name: **25/7-5 1860m sat**  
 Data File Path: **C:\HPCHEM\1\DATA\ISA315H3D\**  
 Misc. info.:  
  
 Vial no.: **4**  
 Method: **MSD\_S\_D**  
 Operator:  
 Date: **Thu Nov 13 21:04:59 1997**

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Internal standard (if added):</b>						
1)	46.17	217.2		24baa	8236	20

**Diterpanes:**

2)	33.81	191.2	s1	19/3	139	0
3)	35.79	191.2	s1	20/3	202	0
4)	37.84	191.2	s1	21/3	317	1
5)	41.80	191.2	s1	23/3	583	1
6)	42.93	191.2	s1	24/3	312	1
7)	45.22	191.2	s1	25/3	126	0
8)	46.74	191.2	s1	24/4	210	0
9)	46.86	191.2	s1	26/3R	70	0
10)	46.99	191.2	s1	26/3S	87	0
11)	50.50	191.2	s1	28/3R	67	0
12)	50.74	191.2	s1	28/3S	63	0
13)	51.54	191.2	s1	29/3R	84	0
14)	51.84	191.2	s1	29/3S	73	0

**Triterpanes:**

15)	52.70	191.2	s1	27Ts	413	1
16)	52.94	177.2	s1	25nor28ab	96	0
17)	53.36	191.2	s1	27Tm	566	1
18)	53.74	177.2	s1	25nor29ab	113	0
19)	53.95	191.2	s1	27b	2591	5
20)	54.91	191.2	s1	28ab	213	0
21)	55.20	177.2	s1	25nor30ab	54	0
22)	55.64	191.2	s1	29ab	1203	2
23)	55.75	191.2	s1	29Ts	526	1
24)	56.00	191.2	s1	30D	184	0
25)	56.43	191.2	s1	29ba	657	1
26)	57.01	191.2	s2	30ab	2481	3
27)	57.30	191.2	s1	30D13	419	1
28)	57.63	191.2	s2	30ba	543	1
29)	58.60	191.2	s1	31abS	577	1
30)	58.80	191.2	s1	31abR	1351	2
31)	59.14	191.2	s1	30G	118	0
32)	59.28	191.2	s1	31ba	1191	2
33)	59.83	191.2	s1	32abS	313	1
34)	60.10	191.2	s1	32abR	340	1
35)	61.23	191.2	s1	33abS	287	1
36)	61.64	191.2	s1	33abR	177	0
37)	62.79	191.2	s1	34abS	118	0
38)	63.29	191.2	s1	34abR	73	0
39)	64.51	191.2	s1	35abS	81	0
40)	65.21	191.2	s1	35abR	62	0

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	

**Steranes:**

41)	38.35	217.2	s3	21aa	184	0
42)	40.00	217.2	s3	21bb	328	1
43)	40.12	217.2	s3	22aa	166	0
44)	42.36	217.2	s3	22bb	181	0
45)	48.68	217.2	s3	27dbS	394	1
46)	49.32	217.2	s3	27dbR	238	1
47)	51.66	218.2	s3	27bbR	356	1
48)	51.82	218.2	s3	27bbS	241	1
49)	52.22	217.2	s3	27aaR	384	1
50)	53.41	218.2	s3	28bbR	235	1
51)	53.56	218.2	s3	28bbS	247	1
52)	54.53	217.2	s3	29aaS	126	0
53)	54.85	218.2	s3	29bbR	341	1
54)	54.96	218.2	s3	29bbS	279	1
55)	55.56	217.2	s3	29aaR	541	1
56)	56.02	218.2	s3	30bbR	81	0
57)	56.10	218.2	s3	30bbS	80	0

**Saturated biomarkers**

GC/MS detection HP-6890/5973

Compound data



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

Data file name: S2052.D  
Sample name: 25/7-5 2052m sat  
Data File Path: K:\CAM\GEO\KJEM\HPCHEM\W95\DATA\SA351110\  
Misc. info.:  
  
Vial no.: 12  
Method: MSD\_S\_D  
Operator:  
Date: Thu Oct 30 12:04:54 1997

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Internal standard (if added):</b>						
1)	46.10	217.2		24baa	1125	24
<b>Diterpanes:</b>						
2)	33.76	191.2	s1	19/3	501	8
3)	35.73	191.2	s1	20/3	346	6
4)	37.78	191.2	s1	21/3	463	7
5)	41.75	191.2	s1	23/3	688	11
6)	42.88	191.2	s1	24/3	526	8
7)	45.17	191.2	s1	25/3	261	4
8)	46.68	191.2	s1	24/4	489	8
9)	46.79	191.2	s1	26/3R	216	3
10)	46.92	191.2	s1	26/3S	206	3
11)	50.46	191.2	s1	28/3R	221	4
12)	50.70	191.2	s1	28/3S	235	4
13)	51.49	191.2	s1	29/3R	353	6
14)	51.78	191.2	s1	29/3S	283	5
<b>Triterpanes:</b>						
15)	52.64	191.2	s1	27Ts	1568	25
16)	52.88	177.2	s1	25nor28ab	51	1
17)	53.32	191.2	s1	27Tm	777	12
18)	53.67	177.2	s1	25nor29ab	80	1
19)	53.76	191.2	s1	27b	209	3
20)	54.88	191.2	s1	28ab	540	9
21)	55.06	177.2	s1	25nor30ab	34	1
22)	55.58	191.2	s1	29ab	2266	36
23)	55.68	191.2	s1	29Ts	1421	23
24)	55.94	191.2	s1	30D	1416	23
25)	56.37	191.2	s1	29ba	219	4
26)	56.95	191.2	s2	30ab	5438	56
27)	57.30	191.2	s1	30D13	400	6
28)	57.59	191.2	s2	30ba	507	5
29)	58.54	191.2	s1	31abS	2285	37
30)	58.74	191.2	s1	31abR	1632	26
31)	59.06	191.2	s1	30G	348	6
32)	59.27	191.2	s1	31ba	313	5
33)	59.78	191.2	s1	32abS	1772	28
34)	60.05	191.2	s1	32abR	1221	20
35)	61.21	191.2	s1	33abS	1300	21
36)	61.59	191.2	s1	33abR	777	12
37)	62.72	191.2	s1	34abS	744	12
38)	63.21	191.2	s1	34abR	436	7
39)	64.45	191.2	s1	35abS	523	8
40)	65.15	191.2	s1	35abR	312	5

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Steranes:</b>						
41)	38.28	217.2	s3	21aa	765	18
42)	39.95	217.2	s3	21bb	842	20
43)	40.07	217.2	s3	22aa	728	17
44)	42.30	217.2	s3	22bb	427	10
45)	48.63	217.2	s3	27dbS	1991	46
46)	49.27	217.2	s3	27dbR	1182	27
47)	51.62	218.2	s3	27bbR	1470	34
48)	51.76	218.2	s3	27bbS	998	23
49)	52.17	217.2	s3	27aaR	447	10
50)	53.37	218.2	s3	28bbR	750	17
51)	53.50	218.2	s3	28bbS	968	22
52)	54.49	217.2	s3	29aaS	480	11
53)	54.79	218.2	s3	29bbR	1280	30
54)	54.89	218.2	s3	29bbS	1097	25
55)	55.49	217.2	s3	29aaR	462	11
56)	55.97	218.2	s3	30bbR	431	10
57)	56.02	218.2	s3	30bbS	335	8

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Internal standard (if added):</b>						
1)	46.12	217.2		24baa	4114	26
<b>Diterpanes:</b>						
2)	33.77	191.2	s1	19/3	1214	6
3)	35.75	191.2	s1	20/3	934	5
4)	37.80	191.2	s1	21/3	1489	8
5)	41.77	191.2	s1	23/3	2607	14
6)	42.89	191.2	s1	24/3	2015	11
7)	45.18	191.2	s1	25/3	950	5
8)	46.70	191.2	s1	24/4	1380	7
9)	46.81	191.2	s1	26/3R	689	4
10)	46.95	191.2	s1	26/3S	745	4
11)	50.47	191.2	s1	28/3R	875	5
12)	50.73	191.2	s1	28/3S	793	4
13)	51.51	191.2	s1	29/3R	1164	6
14)	51.80	191.2	s1	29/3S	1106	6
<b>Triterpanes:</b>						
15)	52.65	191.2	s1	27Ts	5129	27
16)	52.88	177.2	s1	25nor28ab	237	1
17)	53.33	191.2	s1	27Tm	2384	12
18)	53.70	177.2	s1	25nor29ab	238	1
19)	53.83	191.2	s1	27b	1571	8
20)	54.89	191.2	s1	28ab	3827	20
21)	55.02	177.2	s1	25nor30ab	0	0
22)	55.60	191.2	s1	29ab	7380	39
23)	55.70	191.2	s1	29Ts	3848	20
24)	55.95	191.2	s1	30D	2667	14
25)	56.39	191.2	s1	29ba	1823	10
26)	56.98	191.2	s2	30ab	18887	63
27)	57.46	191.2	s1	30D13	774	4
28)	57.60	191.2	s2	30ba	1570	5
29)	58.56	191.2	s1	31abS	7500	39
30)	58.76	191.2	s1	31abR	5470	29
31)	59.09	191.2	s1	30G	968	5
32)	59.31	191.2	s1	31ba	864	5
33)	59.81	191.2	s1	32abS	5459	29
34)	60.07	191.2	s1	32abR	3946	21
35)	61.23	191.2	s1	33abS	4759	25
36)	61.60	191.2	s1	33abR	3178	17
37)	62.75	191.2	s1	34abS	2617	14
38)	63.24	191.2	s1	34abR	1591	8
39)	64.48	191.2	s1	35abS	1996	10
40)	65.17	191.2	s1	35abR	1209	6

### Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: S2116.D

Sample name: 25/7-5 2116m sat

Data File Path: C:\HPCHEM\1\DATA\ELIN2\

Misc. info.:

Vial no.: 3

Method: MSD\_S\_D

Operator:

Date: Wed Dec 03 19:03:21 1997

Response curve y = ax

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Steranes:</b>						
41)	38.30	217.2	s3	21aa	2864	22
42)	39.97	217.2	s3	21bb	3893	29
43)	40.08	217.2	s3	22aa	2738	21
44)	42.31	217.2	s3	22bb	2392	18
45)	48.65	217.2	s3	27dbS	6400	48
46)	49.29	217.2	s3	27dbR	3941	30
47)	51.64	218.2	s3	27bbR	7170	54
48)	51.79	218.2	s3	27bbS	5708	43
49)	52.19	217.2	s3	27aaR	2358	18
50)	53.39	218.2	s3	28bbR	4605	35
51)	53.52	218.2	s3	28bbS	5704	43
52)	54.50	217.2	s3	29aaS	2164	16
53)	54.81	218.2	s3	29bbR	6154	46
54)	54.91	218.2	s3	29bbS	5898	44
55)	55.51	217.2	s3	29aaR	2341	18
56)	55.99	218.2	s3	30bbR	2656	20
57)	56.04	218.2	s3	30bbS	2177	16

**Saturated biomarkers**

GC/MS detection HP-6890/5973

Compound data



#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	

Internal standard (if added):

1)	46.19	217.2		24baa	2171	32
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**Diterpanes:**

2)	33.84	191.2	s1	19/3	674	8
3)	35.82	191.2	s1	20/3	521	6
4)	37.86	191.2	s1	21/3	895	10
5)	41.84	191.2	s1	23/3	1802	20
6)	42.96	191.2	s1	24/3	1247	14
7)	45.24	191.2	s1	25/3	576	6
8)	46.78	191.2	s1	24/4	711	8
9)	46.88	191.2	s1	26/3R	414	5
10)	47.02	191.2	s1	26/3S	506	6
11)	50.54	191.2	s1	28/3R	504	6
12)	50.78	191.2	s1	28/3S	522	6
13)	51.58	191.2	s1	29/3R	778	9
14)	51.87	191.2	s1	29/3S	683	8

**Triterpanes:**

15)	52.73	191.2	s1	27Ts	3039	34
16)	52.95	177.2	s1	25nor28ab	123	1
17)	53.41	191.2	s1	27Tm	1254	14
18)	53.75	177.2	s1	25nor29ab	209	2
19)	53.89	191.2	s1	27b	1063	12
20)	54.97	191.2	s1	28ab	2248	25
21)	55.17	177.2	s1	25nor30ab	52	1
22)	55.67	191.2	s1	29ab	4119	46
23)	55.78	191.2	s1	29Ts	2168	24
24)	56.03	191.2	s1	30D	1422	16
25)	56.46	191.2	s1	29ba	1163	13
26)	57.05	191.2	s2	30ab	10717	77
27)	57.39	191.2	s1	30D13	464	5
28)	57.67	191.2	s2	30ba	847	6
29)	58.63	191.2	s1	31abS	4211	47
30)	58.83	191.2	s1	31abR	3437	38
31)	59.16	191.2	s1	30G	553	6
32)	59.41	191.2	s1	31ba	610	7
33)	59.87	191.2	s1	32abS	3325	37
34)	60.14	191.2	s1	32abR	2275	25
35)	61.30	191.2	s1	33abS	2849	32
36)	61.67	191.2	s1	33abR	1827	20
37)	62.83	191.2	s1	34abS	1601	18
38)	63.32	191.2	s1	34abR	907	10
39)	64.56	191.2	s1	35abS	1159	13
40)	65.26	191.2	s1	35abR	691	8

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

Data file name: S2119\_10.D  
Sample name: 25/7-5 2119\_10m sat  
Data File Path: C:\HPCHEM\1\DATA\ISA315H3D\A  
Misc. info.:

Vial no.: 6  
Method: MSD\_S\_D  
Operator:  
Date: Fri Nov 14 00:02:25 1997

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	

**Steranes:**

41)	38.36	217.2	s3	21aa	1604	26
42)	40.03	217.2	s3	21bb	2394	39
43)	40.15	217.2	s3	22aa	1708	28
44)	42.39	217.2	s3	22bb	1505	24
45)	48.72	217.2	s3	27dbS	3895	63
46)	49.35	217.2	s3	27dbR	2309	37
47)	51.70	218.2	s3	27bbR	4414	71
48)	51.86	218.2	s3	27bbS	3403	55
49)	52.26	217.2	s3	27aaR	1339	22
50)	53.46	218.2	s3	28bbR	2886	47
51)	53.60	218.2	s3	28bbS	3307	53
52)	54.57	217.2	s3	29aaS	1196	19
53)	54.88	218.2	s3	29bbR	3801	61
54)	54.99	218.2	s3	29bbS	3472	56
55)	55.58	217.2	s3	29aaR	1387	22
56)	56.05	218.2	s3	30bbR	1582	26
57)	56.11	218.2	s3	30bbS	1339	22

### Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: S2117\_95.D  
Sample name: 25/7-5 2117.95m sat  
Data File Path: C:\HPCHEM\1\DATA\SA315H3D\  
Misc. info.:

Vial no.: 5  
Method: MSD\_S\_D  
Operator:  
Date: Thu Nov 13 22:33:42 1997

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					- ng/mg	
<b>Internal standard (if added):</b>						
1)	46.20	217.2		24baa	2729	31
<b>Diterpanes:</b>						
2)	33.85	191.2	s1	19/3	931	8
3)	35.84	191.2	s1	20/3	722	6
4)	37.88	191.2	s1	21/3	1148	10
5)	41.85	191.2	s1	23/3	2395	20
6)	42.97	191.2	s1	24/3	1611	14
7)	45.24	191.2	s1	25/3	757	6
8)	46.79	191.2	s1	24/4	1025	9
9)	46.88	191.2	s1	26/3R	554	5
10)	47.02	191.2	s1	26/3S	610	5
11)	50.55	191.2	s1	28/3R	670	6
12)	50.80	191.2	s1	28/3S	640	5
13)	51.59	191.2	s1	29/3R	1003	9
14)	51.88	191.2	s1	29/3S	935	8
<b>Triterpanes:</b>						
15)	52.74	191.2	s1	27Ts	4075	35
16)	52.99	177.2	s1	25nor28ab	101	1
17)	53.41	191.2	s1	27Tm	1717	15
18)	53.78	177.2	s1	25nor29ab	182	2
19)	53.90	191.2	s1	27b	1428	12
20)	54.97	191.2	s1	28ab	2838	24
21)	55.21	177.2	s1	25nor30ab	67	1
22)	55.68	191.2	s1	29ab	5703	49
23)	55.79	191.2	s1	29Ts	2875	24
24)	56.03	191.2	s1	30D	2064	18
25)	56.47	191.2	s1	29ba	1420	12
26)	57.06	191.2	s2	30ab	14556	80
27)	57.40	191.2	s1	30D13	731	6
28)	57.69	191.2	s2	30ba	1228	7
29)	58.64	191.2	s1	31abS	5863	50
30)	58.84	191.2	s1	31abR	4304	37
31)	59.18	191.2	s1	30G	703	6
32)	59.41	191.2	s1	31ba	829	7
33)	59.88	191.2	s1	32abS	4371	37
34)	60.15	191.2	s1	32abR	2962	25
35)	61.32	191.2	s1	33abS	3494	30
36)	61.68	191.2	s1	33abR	2411	21
37)	62.84	191.2	s1	34abS	1986	17
38)	63.33	191.2	s1	34abR	1180	10
39)	64.57	191.2	s1	35abS	1474	13
40)	65.28	191.2	s1	35abR	879	7

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					- ng/mg	
<b>Steranes:</b>						
41)	38.38	217.2	s3	21aa	2114	26
42)	40.04	217.2	s3	21bb	3040	37
43)	40.16	217.2	s3	22aa	2238	27
44)	42.39	217.2	s3	22bb	1888	23
45)	48.73	217.2	s3	27dbS	4955	61
46)	49.36	217.2	s3	27dbR	2962	36
47)	51.72	218.2	s3	27bbR	5798	71
48)	51.86	218.2	s3	27bbS	4069	50
49)	52.27	217.2	s3	27aaR	1821	22
50)	53.47	218.2	s3	28bbR	4180	51
51)	53.60	218.2	s3	28bbS	4438	55
52)	54.58	217.2	s3	29aaS	1580	19
53)	54.89	218.2	s3	29bbR	4828	59
54)	55.00	218.2	s3	29bbS	4474	55
55)	55.59	217.2	s3	29aaR	1789	22
56)	56.07	218.2	s3	30bbR	2147	26
57)	56.12	218.2	s3	30bbS	1656	20

**Saturated biomarkers**

GC/MS detection HP-6890/5973

Compound data



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

Data file name: S2126\_7.D  
Sample name: 25/7-5 2126.7m sat  
Data File Path: C:\HPCHEM\1\DATA\ELIN2\  
Misc. info.:  
  
Vial no.: 4  
Method: MSD\_S\_D  
Operator:  
Date: Wed Dec 03 20:31:52 1997

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)	46.12	217.2		24baa	4046	27
<b>Diterpanes:</b>						
2)	33.77	191.2	s1	19/3	1415	7
3)	35.75	191.2	s1	20/3	928	5
4)	37.80	191.2	s1	21/3	1208	6
5)	41.78	191.2	s1	23/3	2088	11
6)	42.90	191.2	s1	24/3	1428	7
7)	45.17	191.2	s1	25/3	716	4
8)	46.70	191.2	s1	24/4	1267	6
9)	46.81	191.2	s1	26/3R	476	2
10)	46.95	191.2	s1	26/3S	584	3
11)	50.47	191.2	s1	28/3R	596	3
12)	50.72	191.2	s1	28/3S	575	3
13)	51.50	191.2	s1	29/3R	910	5
14)	51.81	191.2	s1	29/3S	759	4
<b>Triterpanes:</b>						
15)	52.66	191.2	s1	27Ts	4342	22
16)	52.88	177.2	s1	25nor28ab	111	1
17)	53.33	191.2	s1	27Tm	2081	11
18)	53.69	177.2	s1	25nor29ab	232	1
19)	53.83	191.2	s1	27b	1264	6
20)	54.90	191.2	s1	28ab	1596	8
21)	55.08	177.2	s1	25nor30ab	93	0
22)	55.60	191.2	s1	29ab	5819	30
23)	55.71	191.2	s1	29Ts	3919	20
24)	55.95	191.2	s1	30D	3643	19
25)	56.30	191.2	s1	29ba	438	2
26)	56.97	191.2	s2	30ab	14915	49
27)	57.32	191.2	s1	30D13	1116	6
28)	57.60	191.2	s2	30ba	1531	5
29)	58.56	191.2	s1	31abS	6466	33
30)	58.76	191.2	s1	31abR	4654	24
31)	59.09	191.2	s1	30G	925	5
32)	59.31	191.2	s1	31ba	844	4
33)	59.80	191.2	s1	32abS	4794	25
34)	60.06	191.2	s1	32abR	3336	17
35)	61.23	191.2	s1	33abS	3341	17
36)	61.60	191.2	s1	33abR	2262	12
37)	62.75	191.2	s1	34abS	2133	11
38)	63.25	191.2	s1	34abR	1212	6
39)	64.47	191.2	s1	35abS	1464	7
40)	65.17	191.2	s1	35abR	855	4

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Steranes:</b>						
41)	38.30	217.2	s3	21aa	2004	15
42)	39.96	217.2	s3	21bb	2233	17
43)	40.08	217.2	s3	22aa	2007	15
44)	42.32	217.2	s3	22bb	1201	9
45)	48.64	217.2	s3	27dbS	5561	41
46)	49.29	217.2	s3	27dbR	3329	25
47)	51.63	218.2	s3	27bbR	4535	34
48)	51.78	218.2	s3	27bbS	2817	21
49)	52.19	217.2	s3	27aaR	1295	10
50)	53.39	218.2	s3	28bbR	2206	16
51)	53.52	218.2	s3	28bbS	2718	20
52)	54.51	217.2	s3	29aaS	1321	10
53)	54.81	218.2	s3	29bbR	3612	27
54)	54.91	218.2	s3	29bbS	3192	24
55)	55.52	217.2	s3	29aaR	1296	10
56)	55.99	218.2	s3	30bbR	1149	8
57)	56.04	218.2	s3	30bbS	954	7

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Internal standard (if added):</b>						
1)	46.20	217.2		24baa	1770	26
<b>Diterpanes:</b>						
2)	33.86	191.2	s1	19/3	923	10
3)	35.84	191.2	s1	20/3	571	6
4)	37.87	191.2	s1	21/3	775	9
5)	41.85	191.2	s1	23/3	1514	17
6)	42.97	191.2	s1	24/3	880	10
7)	45.25	191.2	s1	25/3	466	5
8)	46.79	191.2	s1	24/4	821	9
9)	46.89	191.2	s1	26/3R	315	3
10)	47.02	191.2	s1	26/3S	377	4
11)	50.55	191.2	s1	28/3R	374	4
12)	50.79	191.2	s1	28/3S	394	4
13)	51.58	191.2	s1	29/3R	579	6
14)	51.88	191.2	s1	29/3S	462	5
<b>Triterpanes:</b>						
15)	52.74	191.2	s1	27Ts	2754	30
16)	53.03	177.2	s1	25nor28ab	179	2
17)	53.41	191.2	s1	27Tm	1282	14
18)	53.80	177.2	s1	25nor29ab	54	1
19)	53.89	191.2	s1	27b	826	9
20)	54.97	191.2	s1	28ab	1063	12
21)	55.11	177.2	s1	25nor30ab	86	1
22)	55.68	191.2	s1	29ab	3814	42
23)	55.78	191.2	s1	29Ts	2635	29
24)	56.04	191.2	s1	30D	2560	28
25)	56.36	191.2	s1	29ba	419	5
26)	57.05	191.2	s2	30ab	9655	68
27)	57.39	191.2	s1	30D13	732	8
28)	57.67	191.2	s2	30ba	919	7
29)	58.64	191.2	s1	31abS	4074	45
30)	58.83	191.2	s1	31abR	3074	34
31)	59.18	191.2	s1	30G	541	6
32)	59.38	191.2	s1	31ba	545	6
33)	59.88	191.2	s1	32abS	3171	35
34)	60.14	191.2	s1	32abR	2121	23
35)	61.30	191.2	s1	33abS	2140	24
36)	61.68	191.2	s1	33abR	1441	16
37)	62.84	191.2	s1	34abS	1279	14
38)	63.33	191.2	s1	34abR	734	8
39)	64.57	191.2	s1	35abS	886	10
40)	65.27	191.2	s1	35abR	511	6

**Saturated biomarkers**  
 GC/MS detection HP-6890/5973  
 Compound data



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

Data file name: S2128\_50.D  
 Sample name: 25/7-5 2128\_50m sat  
 Data File Path: C:\HPCHEM\1\DATA\SA315H3D\  
 Misc. info.:  
 Vial no.: 7  
 Method: MSD\_S\_D  
 Operator:  
 Date: Fri Nov 14 01:31:06 1997  
 Response curve y = ax  
 Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Steranes:</b>						
41)	38.38	217.2	s3	21aa	1297	21
42)	40.04	217.2	s3	21bb	1401	22
43)	40.16	217.2	s3	22aa	1223	19
44)	42.39	217.2	s3	22bb	734	12
45)	48.72	217.2	s3	27dbS	3650	58
46)	49.36	217.2	s3	27dbR	2005	32
47)	51.71	218.2	s3	27bbR	2704	43
48)	51.85	218.2	s3	27bbS	1800	29
49)	52.27	217.2	s3	27aaR	877	14
50)	53.47	218.2	s3	28bbR	1360	22
51)	53.59	218.2	s3	28bbS	1712	27
52)	54.58	217.2	s3	29aaS	827	13
53)	54.88	218.2	s3	29bbR	2353	37
54)	54.99	218.2	s3	29bbS	1861	30
55)	55.59	217.2	s3	29aaR	849	14
56)	56.06	218.2	s3	30bbR	703	11
57)	56.10	218.2	s3	30bbS	569	9

**Saturated biomarkers**

GC/MS detection HP-6890/5973

Compound data



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

Data file name: S2131\_50.D  
Sample name: 25/7-5 2131\_50m sat  
Data File Path: C:\HPCHEM\1\DATA\ISA315H3D\  
Misc. info.:

Vial no.: 8  
Method: MSD\_S\_D  
Operator:  
Date: Fri Nov 14 02:59:48 1997

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Internal standard (if added):</b>						
1)	46.21	217.2		24baa	1711	19
<b>Diterpanes:</b>						
2)	33.86	191.2	s1	19/3	1142	10
3)	35.84	191.2	s1	20/3	741	6
4)	37.88	191.2	s1	21/3	968	8
5)	41.86	191.2	s1	23/3	1860	16
6)	42.98	191.2	s1	24/3	1125	10
7)	45.25	191.2	s1	25/3	484	4
8)	46.79	191.2	s1	24/4	1007	9
9)	46.90	191.2	s1	26/3R	494	4
10)	47.03	191.2	s1	26/3S	454	4
11)	50.55	191.2	s1	28/3R	516	4
12)	50.80	191.2	s1	28/3S	453	4
13)	51.60	191.2	s1	29/3R	714	6
14)	51.71	191.2	s1	29/3S	674	6
<b>Triterpanes:</b>						
15)	52.75	191.2	s1	27Ts	3455	29
16)	52.82	177.2	s1	25nor28ab	299	3
17)	53.41	191.2	s1	27Tm	1579	13
18)	53.63	177.2	s1	25nor29ab	314	3
19)	53.91	191.2	s1	27b	994	8
20)	54.99	191.2	s1	28ab	1366	12
21)	55.14	177.2	s1	25nor30ab	88	1
22)	55.69	191.2	s1	29ab	5016	43
23)	55.78	191.2	s1	29Ts	2980	25
24)	56.04	191.2	s1	30D	2971	25
25)	56.30	191.2	s1	29ba	392	3
26)	57.06	191.2	s2	30ab	11681	64
27)	57.40	191.2	s1	30D13	1106	9
28)	57.68	191.2	s2	30ba	1326	7
29)	58.65	191.2	s1	31abS	5502	47
30)	58.84	191.2	s1	31abR	3822	33
31)	59.17	191.2	s1	30G	953	8
32)	59.37	191.2	s1	31ba	1027	9
33)	59.88	191.2	s1	32abS	4080	35
34)	60.15	191.2	s1	32abR	2689	23
35)	61.32	191.2	s1	33abS	2560	22
36)	61.68	191.2	s1	33abR	1885	16
37)	62.84	191.2	s1	34abS	1646	14
38)	63.33	191.2	s1	34abR	972	8
39)	64.57	191.2	s1	35abS	1090	9
40)	65.27	191.2	s1	35abR	682	6

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Steranes:</b>						
41)	38.39	217.2	s3	21aa	1563	19
42)	40.05	217.2	s3	21bb	1817	22
43)	40.16	217.2	s3	22aa	1479	18
44)	42.40	217.2	s3	22bb	960	12
45)	48.74	217.2	s3	27dbS	4442	55
46)	49.37	217.2	s3	27dbR	2556	31
47)	51.72	218.2	s3	27bbR	3406	42
48)	51.87	218.2	s3	27bbS	2206	27
49)	52.27	217.2	s3	27aaR	1168	14
50)	53.47	218.2	s3	28bbR	1791	22
51)	53.61	218.2	s3	28bbS	2056	25
52)	54.58	217.2	s3	29aaS	1099	14
53)	54.89	218.2	s3	29bbR	2759	34
54)	55.00	218.2	s3	29bbS	2659	33
55)	55.60	217.2	s3	29aaR	1345	17
56)	56.07	218.2	s3	30bbR	955	12
57)	56.11	218.2	s3	30bbS	905	11



**Saturated biomarkers**

GC/MS detection HP-6890/5973

Compound data



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

Data file name: S2133\_75.D  
Sample name: 25/7-5 2133\_75m sat  
Data File Path: C:\HPCHEM\1\DATA\ISA315H3D\  
Misc. info.:

Vial no.: 9  
Method: MSD\_S\_D  
Operator:  
Date: Fri Nov 14 04:28:28 1997

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Internal standard (if added):</b>						
1)	46.19	217.2		24baa	1222	22
<b>Diterpanes:</b>						
2)	33.85	191.2	s1	19/3	694	9
3)	35.83	191.2	s1	20/3	466	6
4)	37.87	191.2	s1	21/3	617	8
5)	41.85	191.2	s1	23/3	1225	16
6)	42.97	191.2	s1	24/3	726	10
7)	45.24	191.2	s1	25/3	326	4
8)	46.77	191.2	s1	24/4	612	8
9)	46.88	191.2	s1	26/3R	306	4
10)	47.02	191.2	s1	26/3S	287	4
11)	50.54	191.2	s1	28/3R	307	4
12)	50.78	191.2	s1	28/3S	330	4
13)	51.58	191.2	s1	29/3R	464	6
14)	51.70	191.2	s1	29/3S	398	5
<b>Triterpanes:</b>						
15)	52.73	191.2	s1	27Ts	2168	29
16)	52.81	177.2	s1	25nor28ab	190	3
17)	53.40	191.2	s1	27Tm	1044	14
18)	53.60	177.2	s1	25nor29ab	208	3
19)	53.89	191.2	s1	27b	636	8
20)	54.97	191.2	s1	28ab	904	12
21)	55.11	177.2	s1	25nor30ab	27	0
22)	55.67	191.2	s1	29ab	2890	39
23)	55.78	191.2	s1	29Ts	1888	25
24)	56.02	191.2	s1	30D	1794	24
25)	56.46	191.2	s1	29ba	548	7
26)	57.05	191.2	s2	30ab	6846	59
27)	57.38	191.2	s1	30D13	724	10
28)	57.67	191.2	s2	30ba	872	7
29)	58.63	191.2	s1	31abS	3128	42
30)	58.82	191.2	s1	31abR	2293	31
31)	59.15	191.2	s1	30G	450	6
32)	59.37	191.2	s1	31ba	411	5
33)	59.86	191.2	s1	32abS	2310	31
34)	60.14	191.2	s1	32abR	1674	22
35)	61.30	191.2	s1	33abS	1667	22
36)	61.66	191.2	s1	33abR	1104	15
37)	62.82	191.2	s1	34abS	957	13
38)	63.32	191.2	s1	34abR	604	8
39)	64.56	191.2	s1	35abS	660	9
40)	65.25	191.2	s1	35abR	423	6

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
<b>Steranes:</b>						
41)	38.36	217.2	s3	21aa	1007	19
42)	40.03	217.2	s3	21bb	1194	23
43)	40.16	217.2	s3	22aa	1092	21
44)	42.39	217.2	s3	22bb	612	12
45)	48.71	217.2	s3	27dbS	2648	51
46)	49.35	217.2	s3	27dbR	1669	32
47)	51.70	218.2	s3	27bbR	2156	42
48)	51.85	218.2	s3	27bbS	1481	29
49)	52.26	217.2	s3	27aaR	766	15
50)	53.46	218.2	s3	28bbR	1148	22
51)	53.60	218.2	s3	28bbS	1410	27
52)	54.57	217.2	s3	29aaS	760	15
53)	54.88	218.2	s3	29bbR	1715	33
54)	54.98	218.2	s3	29bbS	1575	30
55)	55.58	217.2	s3	29aaR	718	14
56)	56.05	218.2	s3	30bbR	679	13
57)	56.08	218.2	s3	30bbS	567	11

Peak#	Rt min.	Ion m/z	Compound	Height	Amount ng/mg
<b>Int.Std.(if added):</b>					
4	45.48	217	24baa	852	25
<b>DITERPANES:</b>					
5	33.33	191	19/3	480	11
6	35.27	191	20/3	340	8
7	37.28	191	21/3	426	10
11	41.19	191	23/3	627	15
13	42.31	191	24/3	496	12
14	44.58	191	25/3	249	6
16	46.17	191	26/3R	192	5
17	46.31	191	26/3S	182	4
20	49.78	191	28/3R	240	6
21	50.03	191	28/3S	209	5
23	50.80	191	29/3R	353	8
25	51.08	191	29/3S	202	5
15	46.04	191	24/4	413	10
<b>TRITERPANES:</b>					
26	51.90	191	27Ts	1465	35
28	52.17	177	25nor28ab	30	1
29	52.56	191	27Tm	711	17
33	53.06	191	27b	214	5
32	52.94	177	25nor29ab	115	3
34	54.10	191	28ab	476	11
36	54.30	177	25nor30ab	48	1
39	54.79	191	29ab	1749	42
40	54.90	191	29Ts	1230	29
43	55.59	191	29ba	167	4
42	55.15	191	30D	1190	28
46	56.14	191	30ab	3897	65
47	56.49	191	30D13	383	9
48	56.77	191	30ba	393	7
51	58.23	191	30G	387	9
49	57.73	191	31abS	1770	42
50	57.91	191	31abR	1286	31
52	58.43	191	31ba	195	5
53	58.94	191	32abS	1240	30
54	59.20	191	32abR	868	21
55	60.35	191	33abS	877	21
56	60.72	191	33abR	566	13
57	61.82	191	34abS	572	14
58	62.26	191	34abR	325	8
59	63.38	191	35abS	370	9
60	63.99	191	35abR	253	6

<b>SATURATE BIOMARKERS</b>					
File name (sample): <b>24_9_5.D</b>					
File path: K:\CAP\MSDARKIVHC_SATKV24_25\					
Misc information: sat					
Sample name: 24/9-5, 0 m					
Operator: Reidun					
Method: MSD_S_C					
Date analyzed: 1996-09-27					

Peak#	Rt min.	Ion m/z	Compound	Height	Amount ng/mg
<b>STERANES:</b>					
8	37.79	217	21aa	679	20
9	39.42	217	21bb	772	23
10	39.54	217	22aa	611	18
12	41.73	217	22bb	349	10
18	47.98	217	27dbS	1568	47
19	48.60	217	27dbR	921	27
22	50.93	218	27bbR	1121	33
24	51.07	218	27bbS	766	23
27	51.45	217	27aaR	357	11
30	52.64	218	28bbR	553	17
31	52.78	218	28bbS	773	23
35	53.75	217	29aaS	382	11
37	54.04	218	29bbR	875	26
38	54.15	218	29bbS	782	23
41	54.74	217	29aaR	358	11
44	55.21	218	30bbR	287	9
45	55.25	218	30bbS	251	7



Peak#	Rt min.	Ion m/z	Compound	Height	Amount ng/mg
<b>Int.Std.(if added):</b>					
4	45.97	217	24baa	9015	32
<b>DITERPANES:</b>					
5	33.72	191	19/3	3992	12
6	35.68	191	20/3	3204	9
7	37.71	191	21/3	4338	13
11	41.64	191	23/3	6120	18
13	42.77	191	24/3	4860	14
14	45.04	191	25/3	2536	7
16	46.66	191	26/3R	1988	6
17	46.78	191	26/3S	1909	6
20	50.29	191	28/3R	2455	7
21	50.53	191	28/3S	1963	6
23	51.33	191	29/3R	3642	11
25	51.61	191	29/3S	2166	6
15	46.53	191	24/4	4592	13
<b>TRITERPANES:</b>					
26	52.43	191	27Ts	14630	42
28	52.68	177	25nor28ab	482	1
29	53.09	191	27Tm	7286	21
33	53.59	191	27b	1988	6
32	53.47	177	25nor29ab	1334	4
34	54.65	191	28ab	5534	16
36	54.87	177	25nor30ab	749	2
39	55.35	191	29ab	15338	44
40	55.45	191	29Ts	11789	34
43	56.14	191	29ba	1834	5
42	55.70	191	30D	11489	33
46	56.70	191	30ab	35886	72
47	57.04	191	30D13	3661	11
48	57.32	191	30ba	3562	7
51	58.80	191	30G	4394	13
49	58.28	191	31abS	15472	45
50	58.47	191	31abR	11960	35
52	58.98	191	31ba	1939	6
53	59.50	191	32abS	12411	36
54	59.77	191	32abR	7404	21
55	60.93	191	33abS	8117	23
56	61.30	191	33abR	5518	16
57	62.41	191	34abS	4799	14
58	62.88	191	34abR	2928	8
59	64.05	191	35abS	3513	10
60	64.71	191	35abR	2395	7

<b>SATURATE BIOMARKERS</b>					
File name (sample): 2033_70S.D					
File path: K:\CAPMSDARKIV\HC_SATKV2425C\					
Misc information:					
Sample name: 24/9-6 2033.70m COCH SST Sat					
Operator: Lotte 15/11-96					
Method: MSD_S_C					
Date analyzed: 1996-11-16					

Peak#	Rt min.	Ion m/z	Compound	Height	Amount ng/mg
<b>STERANES:</b>					
8	38.21	217	21aa	6670	24
9	39.85	217	21bb	7820	28
10	39.98	217	22aa	6886	25
12	42.19	217	22bb	4187	15
18	48.48	217	27dbS	15561	56
19	49.11	217	27dbR	9078	33
22	51.44	218	27bbR	11848	43
24	51.59	218	27bbS	8110	29
27	51.97	217	27aaR	4191	15
30	53.17	218	28bbR	6107	22
31	53.31	218	28bbS	7964	29
35	54.30	217	29aaS	4119	15
37	54.58	218	29bbR	8149	30
38	54.69	218	29bbS	8264	30
41	55.27	217	29aaR	3585	13
44	55.76	218	30bbR	3322	12
45	55.81	218	30bbS	2892	10

**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: S2133\_75.D  
Sample name: 25/7-5 2133\_75m sat  
Data File Path: C:\HPCHEM\1\DATA\SA315H3D\

Misc. info.:  
  
Vial no.: 9  
Method: MSD\_S\_D  
  
Operator:  
Date: Fri Nov 14 04:28:28 1997

**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	12 13
100*20/3/((sum20-25)/3+26/3(R+S))	%20/3	12 12
100*23/3/(23/3+24/3+25/3)	%23/3	54 54
100*24/4/(24/4+24/3+25/3)	%24/4	37 37
100*Ts/(Ts+Tm)	%27Ts	67 67
100*28ab/(28ab+30ab)	%28ab	12 17
100*29Ts/(29Ts+29ab)	%29Ts	40 40
100*25nor30ab/(25nor30ab+30ab)	%25nor30ab	0 1
100*29ab/(29ab+30ab)	%29ab	30 40
100*30ba/(30ba+30ab)	%30ba	11 11
100*30D/(30D+30ab)	%30D	21 29
100*30G/(30G+30ab)	%30G	6 9
100*32abS/(32ab(S+R))	%32abS	58 58
100*35ab(S+R)/(34-35ab(S+R))	%35ab	41 41
100*(27Ts+27Tm)/(27Ts+27Tn+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%27HOP	11 12
100*(28ab)/(27Ts+27Tn+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%28HOP	3 3
100*(29ab+ba)/(27Ts+27Tn+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%29HOP	11 13
100*(30ab+ba)/(27Ts+27Tn+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%30HOP	26 18
100*31ab(S+R)/(27Ts+27Tn+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%31HOP	18 20
100*32ab(S+R)/(27Ts+27Tn+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%32HOP	13 15
100*33ab(S+R)/(27Ts+27Tn+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%33HOP	9 10
100*34ab(S+R)/(27Ts+27Tn+28ab+sum29-30(ab+ba)+sum31-35ab(R+S))	%34HOP	5 6
100*35ab(S+R)/(27Ts+27Tn+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	14 14
100*29aaS/29aa(R+S)	%29aaS	51 51
100*29bb(R+S)/(29bb(R+S)+29aa(S+R))	%29bb	69 69
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	34 34
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	31 31
100*30bb(R+S)/(27+28+29+30)bb(R+S)	%30STER	12 12

### 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: S2131\_50.D  
Sample name: 257-5 2131\_50m sat  
Data File Path: C:\HPCHEM\1\DATA\SA315H3D\  
Misc. info.:

Vial no.: 8  
Method: MSD\_S\_D  
Operator:  
Date: Fri Nov 14 02:59:48 1997

#### Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(R+S)) /$ $((\text{sum}20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%Tri	11	12
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	12	12
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	54	54
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	38	38
$100 \cdot Ts / (Ts+Tm)$	%27Ts	69	69
$100 \cdot 28ab / (28ab+30ab)$	%28ab	10	15
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	37	37
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	1	1
$100 \cdot 29ab / (29ab+30ab)$	%29ab	30	40
$100 \cdot 30ba / (30ba+30ab)$	%30ba	10	10
$100 \cdot 30D / (30D+30ab)$	%30D	20	28
$100 \cdot 30G / (30G+30ab)$	%30G	8	11
$100 \cdot 32abS / (32ab(S+R))$	%32abS	60	60
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	40	40
$100 \cdot (27Ts+27Tm) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	10	11
$100 \cdot (28ab) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	3	3
$100 \cdot (29ab+ba) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	11	12
$100 \cdot (30ab+ba) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	26	19
$100 \cdot 31ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	19	21
$100 \cdot 32ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	14	15
$100 \cdot 33ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	9	10
$100 \cdot 34ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	5	6
$100 \cdot 35ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	4	4

#### Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	14	14
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	45	45
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	69	69
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	55	55
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	34	34
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	23	23
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	32	32
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	11	11

**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: S2128\_50.D  
Sample name: 2577-5 2128\_50m sat  
Data File Path: C:\HPCHEM\1\DATA\SA315H3D\

Misc. info.:  
  
Vial no.: 7  
Method: MSD\_S\_D  
Operator:  
Date: Fri Nov 14 01:31:06 1997

**Terpane ratios, heights and amounts**

	Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(R+S)) / ((\text{sum}20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%Tri	11 12
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	12 12
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	53 53
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	38 38
$100 \cdot Ts / (Ts+Tm)$	%27Ts	68 68
$100 \cdot 28ab / (28ab+30ab)$	%28ab	10 15
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	41 41
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	1 1
$100 \cdot 29ab / (29ab+30ab)$	%29ab	28 38
$100 \cdot 30ba / (30ba+30ab)$	%30ba	9 9
$100 \cdot 30D / (30D+30ab)$	%30D	21 29
$100 \cdot 30G / (30G+30ab)$	%30G	5 8
$100 \cdot 32abS / (32ab(S+R))$	%32abS	60 60
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	41 41
$100 \cdot (27Ts+27Tm) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	10 11
$100 \cdot (28ab) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	3 3
$100 \cdot (29ab+ba) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	11 12
$100 \cdot (30ab+ba) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	27 19
$100 \cdot 31ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	18 20
$100 \cdot 32ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	13 15
$100 \cdot 33ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	9 10
$100 \cdot 34ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	5 6
$100 \cdot 35ab(S+R) / (27Ts+27Tn+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	4 4

**Sterane ratios**

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preq	14 14
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	49 49
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	72 72
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	56 56
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	34 34
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	24 24
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	32 32
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	10 10