

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.59	217.00	21aa	84	File name (sample): 3101_25.D
9	40.26	217.00	21bb	121	
10	40.38	217.00	22aa	81	File path: C:\HPCHEM\1\DATA\SAT\B300914S\
12	42.60	217.00	22bb	74	Misc information:
18	48.87	217.00	27dbS	310	
19	49.50	217.00	27dbR	184	
22	51.82	218.00	27bbR	240	Sample name: 30/9-14
24	51.95	218.00	27bbS	164	Operator: JORUNN
27	52.34	217.00	27aaR	85	Method: MSD_S_B
30	53.52	218.00	28bbR	112	Date analyzed: 08/12/93
31	53.66	218.00	28bbS	132	
35	54.61	217.00	29aaS	68	
37	54.92	218.00	29bbR	170	
38	55.02	218.00	29bbS	152	
41	55.62	217.00	29aaR	76	
44	56.06	218.00	30bbR	40	
45	56.06	218.00	30bbS	40	

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	51	File name (sample): 3101_25.D
23/3+24/3+25/3 (191)			
100*24/4 (191)	%24/4	49	File path: C:\HPCHEM\1\DATA\SATB300914S
24/4+24/3+25/3 (191)			
100*20/3 (191)	%20/3	8	Misc information:
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			
100*27Ts (191)	%27Ts	69	Sample name: 30/9-14
27Ts+27Tm (191)			
100*28ab (191)	%28ab	10	Operator: JORUNN
28ab+30ab (191)			
100*29Ts (191)	%29Ts	24	Method: MSD_S_B
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	1	Date analyzed: 08/12/93
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	45	
29ab+30ab (191)			
100*30ba (191)	%30ba	9	
30ba+30ab (191)			
100*30D (191)	%30D	9	
30D+30ab (191)			
100*30G (191)	%30G	5	
30G+30ab (191)			
100*32abS (191)	%32abS	57	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	39	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	15	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	3	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	20	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	24	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(31ab(S+R)) (191)	%31HOP	15	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(32ab(S+R)) (191)	%32HOP	9	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	3	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	2	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	47	File name (sample): 3101_25.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	69	File path: C:\HPCHEM\1\DATA\SAT\B300914S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	38	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	23	Sample name: 30/9-14
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	31	Operator: JORUNN
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	8	Method: MSD_S_B
			Date analyzed: 08/12/93

TERPANE-STERANE GROUP ratios		
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	Ho/St2	267
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	16
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191) (20/3+21/3+23/3+24/3+25/3+26/3(R+S)+27(Ts+Tm)+28ab+ SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)	%Tri	23

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	40.16	221.00	4D21aa	3	File name (sample):
2	56.37	193.00	2D29ba	4	3104_25.D
3	52.17	221.00	4D27aaR	5	File path:
4	46.21	217.00	24baa	4	C:\HPCHEM\1\DATA\SAT\B300914S\
DITERPANES					Misc information:
5	34.11	191.00	19/3	36	Sample name:
6	36.05	191.00	20/3	62	30/9-14
7	38.08	191.00	21/3	114	Operator:
11	42.05	191.00	23/3	394	JORUNN
13	43.16	191.00	24/3	186	Method:
14	45.26	191.00	25/3	9	MSD_S_B
16	47.05	191.00	26/3R	62	Date analyzed:
17	47.18	191.00	26/3S	53	08/12/93
20	50.64	191.00	28/3R	47	
21	50.88	191.00	28/3S	50	
23	51.65	191.00	29/3R	44	
25	51.95	191.00	29/3S	48	
15	46.94	191.00	24/4	258	
TRITERPANES:					
26	52.81	191.00	27Ts	242	
28	53.01	177.00	25nor28ab	13	
29	53.47	191.00	27Tm	94	
33	53.93	191.00	27b	53	
32	53.71	177.00	25nor29ab	5	
34	54.99	191.00	28ab	27	
36	55.17	177.00	25nor30ab	6	
39	55.69	191.00	29ab	380	
40	55.79	191.00	29Ts	106	
43	56.47	191.00	29ba	32	
42	56.03	191.00	30D	27	
46	57.03	191.00	30ab	306	
47	57.36	191.00	30D13	15	
48	57.63	191.00	30ba	21	
51	59.09	191.00	30G	15	
49	58.58	191.00	31abS	132	
50	58.77	191.00	31abR	107	
52	59.30	191.00	31ba	13	
53	59.79	191.00	32abS	69	
54	60.06	191.00	32abR	51	
55	61.22	191.00	33abS	43	
56	61.58	191.00	33abR	30	
57	62.71	191.00	34abS	25	
58	63.18	191.00	34abR	14	
59	64.39	191.00	35abS	17	
60	65.06	191.00	35abR	11	

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.59	217.00	21aa	77	File name (sample):
9	40.25	217.00	21bb	114	3104_25.D
10	40.37	217.00	22aa	73	File path:
12	42.60	217.00	22bb	68	C:\HPCHEM\1\DATA\SAT\B300914S\
18	48.85	217.00	27dbS	225	Misc information:
19	49.48	217.00	27dbR	136	
22	51.78	218.00	27bbR	141	Sample name:
24	51.94	218.00	27bbS	99	30/9-14
27	52.33	217.00	27aaR	57	Operator:
30	53.50	218.00	28bbR	58	JORUNN
31	53.64	218.00	28bbS	73	Method:
35	54.59	217.00	29aaS	30	MSD_S_B
37	54.90	218.00	29bbR	79	Date analyzed:
38	55.00	218.00	29bbS	67	08/12/93
41	55.58	217.00	29aaR	35	
44	56.04	218.00	30bbR	16	
45	56.11	218.00	30bbS	9	

NORSK HYDRO Research Centre, Bergen _____ **Petroleum Geochemistry Group**

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	67	File name (sample): 3104_25.D
23/3+24/3+25/3 (191)			File path: C:\HPCHEM\1\DATA\SAT\B3009145
100*24/4 (191)	%24/4	57	Misc information:
24/4+24/3+25/3 (191)			Sample name: 30/9-14
100*20/3 (191)	%20/3	7	Operator: JORUNN
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			Method: MSD_S_B
100*27Ts (191)	%27Ts	72	Date analyzed: 08/12/93
27Ts+27Tm (191)			
100*28ab (191)	%28ab	8	
28ab+30ab (191)			
100*29Ts (191)	%29Ts	22	
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	2	
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	55	
29ab+30ab (191)			
100*30ba (191)	%30ba	6	
30ba+30ab (191)			
100*30D (191)	%30D	8	
30D+30ab (191)			
100*30G (191)	%30G	5	
30G+30ab (191)			
100*32abS (191)	%32abS	58	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	42	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	21	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	2	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	26	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	20	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(31ab(S+R)) (191)	%31HOP	15	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(32ab(S+R)) (191)	%32HOP	7	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	2	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	2	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	46	File name (sample): 3104_25.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	69	File path: C:\HPCHEM\1\DATA\SAT\B300914S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	44	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	24	Sample name: 30/9-14
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	27	Operator: JORUNN
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	5	Method: MSD_S_B
			Date analyzed: 08/12/93

TERPANE-STERANE GROUP ratios		
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	Ho/St2	298
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	25
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191) (20/3+21/3+23/3+24/3+25/3+26/3(R+S)+27(Ts+Tm)+28ab+ SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)	%Tri	35

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	40.16	221.00	4D21aa	3	File name (sample):
2	56.37	193.00	2D29ba	3	3110_75.D
3	52.21	221.00	4D27aaR	4	File path:
4	46.18	217.00	24baa	6	C:\HPCHEM\1\DATA\SAT\B300914S\
DITERPANES					Misc information:
5	34.11	191.00	19/3	49	Sample name:
6	36.07	191.00	20/3	62	30/9-14
7	38.10	191.00	21/3	107	Operator:
11	42.04	191.00	23/3	299	JORUNN
13	43.16	191.00	24/3	161	Method:
14	45.44	191.00	25/3	90	MSD_S_B
16	47.06	191.00	26/3R	45	Date analyzed:
17	47.18	191.00	26/3S	47	08/12/93
20	50.64	191.00	28/3R	52	
21	50.90	191.00	28/3S	42	
23	51.66	191.00	29/3R	54	
25	51.95	191.00	29/3S	44	
15	46.94	191.00	24/4	226	
TRITERPANES:					
26	52.81	191.00	27Ts	271	
28	53.04	177.00	25nor28ab	28	
29	53.47	191.00	27Tm	124	
33	53.95	191.00	27b	53	
32	53.85	177.00	25nor29ab	5	
34	54.99	191.00	28ab	73	
36	55.21	177.00	25nor30ab	6	
39	55.69	191.00	29ab	462	
40	55.79	191.00	29Ts	155	
43	56.47	191.00	29ba	53	
42	56.03	191.00	30D	58	
46	57.03	191.00	30ab	540	
47	57.37	191.00	30D13	28	
48	57.65	191.00	30ba	51	
51	59.11	191.00	30G	32	
49	58.60	191.00	31abS	240	
50	58.79	191.00	31abR	189	
52	59.32	191.00	31ba	31	
53	59.81	191.00	32abS	137	
54	60.08	191.00	32abR	101	
55	61.22	191.00	33abS	98	
56	61.58	191.00	33abR	67	
57	62.72	191.00	34abS	54	
58	63.20	191.00	34abR	33	
59	64.41	191.00	35abS	41	
60	65.09	191.00	35abR	26	

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.59	217.00	21aa	92	File name (sample):
9	40.25	217.00	21bb	128	3110_75.D
10	40.37	217.00	22aa	90	File path:
12	42.60	217.00	22bb	68	C:\HPCHEM\1\DATA\SAT\B300914S\
18	48.85	217.00	27dbS	272	Misc information:
19	49.48	217.00	27dbR	160	
22	51.80	218.00	27bbR	227	Sample name:
24	51.95	218.00	27bbS	152	30/9-14
27	52.33	217.00	27aaR	78	Operator:
30	53.50	218.00	28bbR	99	JORUNN
31	53.66	218.00	28bbS	125	Method:
35	54.61	217.00	29aaS	64	MSD_S_B
37	54.90	218.00	29bbR	162	Date analyzed:
38	55.00	218.00	29bbS	135	08/12/93
41	55.60	217.00	29aaR	74	
44	56.06	218.00	30bbR	41	
45	56.06	218.00	30bbS	41	

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	54	File name (sample): 3110_75.D
23/3+24/3+25/3 (191)			File path: C:\HPCHEM\1\DATA\SAT\B3009145
100*24/4 (191)	%24/4	47	Misc information:
24/4+24/3+25/3 (191)			Sample name: 30/9-14
100*20/3 (191)	%20/3	8	Operator: JORUNN
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			Method: MSD_S_B
100*27Ts (191)	%27Ts	69	Date analyzed: 08/12/93
27Ts+27Tm (191)			
100*28ab (191)	%28ab	12	
28ab+30ab (191)			
100*29Ts (191)	%29Ts	25	
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	1	
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	46	
29ab+30ab (191)			
100*30ba (191)	%30ba	9	
30ba+30ab (191)			
100*30D (191)	%30D	10	
30D+30ab (191)			
100*30G (191)	%30G	6	
30G+30ab (191)			
100*32abS (191)	%32abS	58	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	44	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	15	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	3	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	20	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	23	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(31ab(S+R)) (191)	%31HOP	17	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(32ab(S+R)) (191)	%32HOP	9	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	3	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	3	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	46	File name (sample): 3110_75.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	68	File path: C:\HPCHEM\1\DATA\SAT\B300914S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	39	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	23	Sample name: 30/9-14
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	30	Operator: JORUNN
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	8	Method: MSD_S_B
			Date analyzed: 08/12/93

TERPANE-STERANE GROUP ratios		
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	Ho/St2	264
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	17
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191) (20/3+21/3+23/3+24/3+25/3+26/3(R+S)+27(Ts+Tm)+28ab+ SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)	%Tri	24

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	40.18	221.00	4D21aa	2	File name (sample):
2	56.42	193.00	2D29ba	3	3118_75.D
3	52.17	221.00	4D27aaR	6	File path:
4	46.19	217.00	24baa	2	C:\HPCHEM\1\DATA\SATB300914S\
DITERPANES					Misc information:
5	34.09	191.00	19/3	35	Sample name:
6	36.05	191.00	20/3	56	30/9-14
7	38.08	191.00	21/3	104	Operator:
11	42.04	191.00	23/3	329	JORUNN
13	43.14	191.00	24/3	151	Method:
14	45.41	191.00	25/3	79	MSD_S_B
16	47.03	191.00	26/3R	42	Date analyzed:
17	47.16	191.00	26/3S	56	08/12/93
20	50.62	191.00	28/3R	40	
21	50.86	191.00	28/3S	35	
23	51.65	191.00	29/3R	41	
25	51.94	191.00	29/3S	40	
15	46.93	191.00	24/4	226	
TRITERPANES:					
26	52.79	191.00	27Ts	192	
28	53.04	177.00	25nor28ab	15	
29	53.45	191.00	27Tm	82	
33	53.91	191.00	27b	39	
32	53.83	177.00	25nor29ab	7	
34	54.97	191.00	28ab	41	
36	55.16	177.00	25nor30ab	5	
39	55.67	191.00	29ab	335	
40	55.77	191.00	29Ts	101	
43	56.45	191.00	29ba	33	
42	56.01	191.00	30D	34	
46	57.01	191.00	30ab	348	
47	57.36	191.00	30D13	13	
48	57.63	191.00	30ba	29	
51	59.09	191.00	30G	18	
49	58.57	191.00	31abS	145	
50	58.77	191.00	31abR	109	
52	59.30	191.00	31ba	18	
53	59.79	191.00	32abS	85	
54	60.06	191.00	32abR	59	
55	61.21	191.00	33abS	53	
56	61.58	191.00	33abR	38	
57	62.71	191.00	34abS	30	
58	63.18	191.00	34abR	20	
59	64.39	191.00	35abS	21	
60	65.07	191.00	35abR	13	

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.58	217.00	21aa	77	File name (sample): 3118_75.D
9	40.23	217.00	21bb	113	File path: C:\HPCHEM\1\DATA\SAT\B300914S\
10	40.35	217.00	22aa	73	Misc information:
12	42.58	217.00	22bb	68	Sample name: 30/9-14
18	48.83	217.00	27dbS	246	Operator: JORUNN
19	49.47	217.00	27dbR	157	Method: MSD_S_B
22	51.78	218.00	27bbR	156	Date analyzed: 08/12/93
24	51.92	218.00	27bbS	110	
27	52.31	217.00	27aaR	58	
30	53.49	218.00	28bbR	62	
31	53.62	218.00	28bbS	75	
35	54.58	217.00	29aaS	37	
37	54.88	218.00	29bbR	102	
38	54.99	218.00	29bbS	80	
41	55.58	217.00	29aaR	41	
44	56.04	218.00	30bbR	23	
45	56.04	218.00	30bbS	23	

NORSK HYDRO Research Centre, Bergen _____ **Petroleum Geochemistry Group**

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	59	File name (sample): 3118_75.D File path: C:\HPCHEM\1\DATA\SAT\B3009145 Misc information: Sample name: 30/9-14 Operator: JORUNN Method: MSD_S_B Date analyzed: 08/12/93
23/3+24/3+25/3 (191)			
100*24/4 (191)	%24/4	50	
24/4+24/3+25/3 (191)			
100*20/3 (191)	%20/3	7	
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			
100*27Ts (191)	%27Ts	70	
27Ts+27Tm (191)			
100*28ab (191)	%28ab	11	
28ab+30ab (191)			
100*29Ts (191)	%29Ts	23	
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	1	
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	49	
29ab+30ab (191)			
100*30ba (191)	%30ba	8	
30ba+30ab (191)			
100*30D (191)	%30D	9	
30D+30ab (191)			
100*30G (191)	%30G	5	
30G+30ab (191)			
100*32abS (191)	%32abS	59	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	40	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	17	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	2	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	22	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	23	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(31ab(S+R)) (191)	%31HOP	15	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(32ab(S+R)) (191)	%32HOP	9	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	3	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	2	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	47	File name (sample): 3118_75.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	70	File path: C:\HPCHEM\1\DATA\SAT\B300914S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	42	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	22	Sample name: 30/9-14
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	29	Operator: JORUNN
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	7	Method: MSD_S_B
			Date analyzed: 08/12/93

TERPANE-STERANE GROUP ratios		
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	Ho/St2	262
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	22
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191) (20/3+21/3+23/3+24/3+25/3+26/3(R+S)+27(Ts+Tm)+28ab+ SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)	%Tri	33

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	38.49	221.00	4D21aa	3	File name (sample):
2	49.96	193.00	2D29ba	6	3159_6.D
3	51.99	221.00	4D27aaR	2	File path:
4	44.01	217.00	24baa	5	F:\HPCHEM\1\DATA\SATA_3009_S\
DITERPANES					Misc information:
5	33.66	191.00	19/3	11	
6	36.04	191.00	20/3	100	Sample name:
7	38.05	191.00	21/3	38	
11	41.98	191.00	23/3	37	Operator:
13	43.09	191.00	24/3	62	JORUNN K
14	45.37	191.00	25/3	9	Method:
16	46.95	191.00	26/3R	94	MSD_S_B
17	47.10	191.00	26/3S	8	Date analyzed:
20	50.64	191.00	28/3R	276	07/07/93
21	50.88	191.00	28/3S	4	
23	51.70	191.00	29/3R	60	
25	52.00	191.00	29/3S	65	
15	46.85	191.00	24/4	508	
TRITERPANES:					
26	52.73	191.00	27Ts	127	
28	52.97	177.00	25nor28ab	6	
29	53.42	191.00	27Tm	3408	
33	53.89	191.00	27b	59	
32	53.77	177.00	25nor29ab	20	
34	54.95	191.00	28ab	99	
36	55.24	177.00	25nor30ab	17	
39	55.66	191.00	29ab	5571	
40	55.75	191.00	29Ts	212	
43	56.43	191.00	29ba	986	
42	55.98	191.00	30D	420	
46	57.00	191.00	30ab	7402	
47	57.35	191.00	30D13	403	
48	57.62	191.00	30ba	1643	
51	58.98	191.00	30G	116	
49	58.59	191.00	31abS	6371	
50	58.77	191.00	31abR	4284	
52	59.28	191.00	31ba	1385	
53	59.80	191.00	32abS	3046	
54	60.05	191.00	32abR	2088	
55	61.21	191.00	33abS	1794	
56	61.56	191.00	33abR	1228	
57	62.69	191.00	34abS	1138	
58	63.18	191.00	34abR	796	
59	64.39	191.00	35abS	770	
60	65.07	191.00	35abR	386	

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.55	217.00	21aa	34	File name (sample):
9	40.20	217.00	21bb	31	3159_6.D
10	40.33	217.00	22aa	20	File path:
12	42.51	217.00	22bb	15	F:\HPCHEM\1\DATA\SATA_3009_S\
18	48.77	217.00	27dbS	81	Misc information:
19	49.40	217.00	27dbR	45	
22	51.73	218.00	27bbR	149	Sample name:
24	51.88	218.00	27bbS	38	
27	52.26	217.00	27aaR	52	Operator:
30	53.45	218.00	28bbR	78	JORUNN K
31	53.60	218.00	28bbS	84	Method:
35	54.54	217.00	29aaS	311	MSD_S_B
37	54.86	218.00	29bbR	314	Date analyzed:
38	54.96	218.00	29bbS	346	07/07/93
41	55.56	217.00	29aaR	363	
44	56.00	218.00	30bbR	6	
45	56.00	218.00	30bbS	6	

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	34	File name (sample): 3159_6.D
23/3+24/3+25/3 (191)			File path: F:\HPCHEM\1\DATA\SATVA_3009_S
100*24/4 (191)	%24/4	88	Misc information:
24/4+24/3+25/3 (191)			Sample name:
100*20/3 (191)	%20/3	29	Operator: JORUNN K
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			Method: MSD_S_B
100*27Ts (191)	%27Ts	4	Date analyzed: 07/07/93
27Ts+27Tm (191)			
100*28ab (191)	%28ab	1	
28ab+30ab (191)			
100*29Ts (191)	%29Ts	4	
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	0	
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	43	
29ab+30ab (191)			
100*30ba (191)	%30ba	18	
30ba+30ab (191)			
100*30D (191)	%30D	5	
30D+30ab (191)			
100*30G (191)	%30G	2	
30G+30ab (191)			
100*32abS (191)	%32abS	59	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	37	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	8	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	0	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	15	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	21	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(31ab(S+R)) (191)	%31HOP	25	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(32ab(S+R)) (191)	%32HOP	12	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	7	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	3	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217)	%29aaS	46	File name (sample): 3159_6.D
(29aa(S+R) (217)			File path: F:\HPCHEM1\DATA\SATVA_3009_S
100 * 29bb(S+R) (218)	%29bb	49	Misc information:
(29bb(S+R) (218) + 29aa(S+R) (217))			Sample name:
100 * 27bb(S+R) (218)	%27STER	18	Operator: JORUNN K
27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)			Method: MSD_S_B
100 * 28bb(S+R) (218)	%28STER	16	Date analyzed: 07/07/93
27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)			
100 * 29bb(S+R) (218)	%29STER	65	
27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)			
100 * 30bb(S+R) (218)	%30STER	1	
27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)			

TERPANE-STERANE GROUP ratios		
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)	Ho/St2	4165
27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)		
100*(21+22)bb	%Preg	4
(21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)		
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191)	%Tri	1
(20/3+21/3+23/3+24/3+25/3+26/3(R+S)+27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)		

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	38.51	221.00	4D21aa	6	File name (sample):
2	49.98	193.00	2D29ba	12	3504_25.D
3	51.93	221.00	4D27aaR	11	File path:
4	43.97	217.00	24baa	3	F:\HPCHEM\1\DATA\SATVA_3009_S\
DITERPANES					Misc information:
5	33.71	191.00	19/3	14	
6	36.08	191.00	20/3	93	Sample name:
7	38.10	191.00	21/3	140	
11	42.05	191.00	23/3	353	Operator:
13	43.17	191.00	24/3	225	JORUNN K
14	45.47	191.00	25/3	145	Method:
16	46.95	191.00	26/3R	310	MSD_S_B
17	47.05	191.00	26/3S	92	Date analyzed:
20	50.66	191.00	28/3R	357	07/07/93
21	50.90	191.00	28/3S	363	
23	51.66	191.00	29/3R	118	
25	51.95	191.00	29/3S	105	
15	46.95	191.00	24/4	310	
TRITERPANES:					
26	52.80	191.00	27Ts	487	
28	53.01	177.00	25nor28ab	42	
29	53.47	191.00	27Tm	138	
33	53.81	191.00	27b	11	
32	53.77	177.00	25nor29ab	14	
34	55.00	191.00	28ab	284	
36	55.13	177.00	25nor30ab	10	
39	55.69	191.00	29ab	601	
40	55.80	191.00	29Ts	311	
43	56.29	191.00	29ba	250	
42	56.04	191.00	30D	259	
46	57.04	191.00	30ab	759	
47	57.38	191.00	30D13	48	
48	57.50	191.00	30ba	36	
51	59.06	191.00	30G	260	
49	58.59	191.00	31abS	333	
50	58.79	191.00	31abR	271	
52	59.34	191.00	31ba	94	
53	59.81	191.00	32abS	279	
54	60.07	191.00	32abR	181	
55	61.22	191.00	33abS	175	
56	61.58	191.00	33abR	116	
57	62.72	191.00	34abS	102	
58	63.20	191.00	34abR	63	
59	64.39	191.00	35abS	60	
60	65.07	191.00	35abR	36	

NORSK HYDRO Research Centre, Bergen _____ **Petroleum Geochemistry Group**

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.61	217.00	21aa	72	File name (sample):
9	40.28	217.00	21bb	97	3504_25.D
10	40.37	217.00	22aa	211	File path:
12	42.61	217.00	22bb	61	F:\HPCHEM\1\DATA\SATVA_3009_S\
18	48.87	217.00	27dbS	562	Misc information:
19	49.49	217.00	27dbR	443	
22	51.80	218.00	27bbR	264	Sample name:
24	51.95	218.00	27bbS	157	
27	52.17	217.00	27aaR	54	Operator:
30	53.52	218.00	28bbR	80	JORUNN K
31	53.65	218.00	28bbS	128	Method:
35	54.62	217.00	29aaS	217	MSD_S_B
37	54.91	218.00	29bbR	197	Date analyzed:
38	55.01	218.00	29bbS	282	07/07/93
41	55.61	217.00	29aaR	200	
44	55.80	218.00	30bbR	109	
45	56.05	218.00	30bbS	32	

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	49	File name (sample): 3504_25.D
23/3+24/3+25/3 (191)			File path: F:\HPCHEM\1\DATA\SATVA_3009_S
100*24/4 (191)	%24/4	46	Misc information:
24/4+24/3+25/3 (191)			Sample name:
100*20/3 (191)	%20/3	7	Operator: JORUNN K
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			Method: MSD_S_B
100*27Ts (191)	%27Ts	78	Date analyzed: 07/07/93
27Ts+27Tm (191)			
100*28ab (191)	%28ab	27	
28ab+30ab (191)			
100*29Ts (191)	%29Ts	34	
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	1	
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	44	
29ab+30ab (191)			
100*30ba (191)	%30ba	5	
30ba+30ab (191)			
100*30D (191)	%30D	25	
30D+30ab (191)			
100*30G (191)	%30G	26	
30G+30ab (191)			
100*32abS (191)	%32abS	61	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	37	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	15	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	7	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	20	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	19	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(31ab(S+R)) (191)	%31HOP	14	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(32ab(S+R)) (191)	%32HOP	11	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	7	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	4	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	2	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	52	File name (sample): 3504_25.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	53	File path: F:\HPCHEM\1\DATA\SATVA_3009_S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	34	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	17	Sample name:
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	38	Operator: JORUNN K
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	11	Method: MSD_S_B
			Date analyzed: 07/07/93

TERPANE-STERANE GROUP ratios		
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	Ho/St2	341
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	11
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191) (20/3+21/3+23/3+24/3+25/3+26/3(R+S)+27(Ts+Tm)+28ab+ SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)	%Tri	24

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	38.53	221.00	4D21aa	6	File name (sample):
2	49.96	193.00	2D29ba	14	3507.D
3	52.02	221.00	4D27aaR	4	File path:
4	43.99	217.00	24baa	3	F:\HPCHEM\1\DATA\SATA_3009_S\
DITERPANES					Misc information:
5	33.75	191.00	19/3	15	Sample name:
6	36.08	191.00	20/3	94	Operator:
7	38.10	191.00	21/3	181	JORUNN K
11	42.05	191.00	23/3	412	Method:
13	43.16	191.00	24/3	237	MSD_S_B
14	45.45	191.00	25/3	138	Date analyzed:
16	47.04	191.00	26/3R	330	07/07/93
17	47.17	191.00	26/3S	321	
20	50.64	191.00	28/3R	90	
21	50.88	191.00	28/3S	81	
23	51.66	191.00	29/3R	128	
25	51.95	191.00	29/3S	114	
15	46.93	191.00	24/4	264	
TRITERPANES:					
26	52.80	191.00	27Ts	487	
28	53.02	177.00	25nor28ab	22	
29	53.47	191.00	27Tm	125	
33	53.82	191.00	27b	9	
32	53.77	177.00	25nor29ab	17	
34	55.00	191.00	28ab	71	
36	55.22	177.00	25nor30ab	18	
39	55.70	191.00	29ab	503	
40	55.80	191.00	29Ts	382	
43	56.38	191.00	29ba	28	
42	56.04	191.00	30D	380	
46	57.04	191.00	30ab	861	
47	57.38	191.00	30D13	67	
48	57.53	191.00	30ba	39	
51	59.08	191.00	30G	69	
49	58.60	191.00	31abS	424	
50	58.79	191.00	31abR	297	
52	59.34	191.00	31ba	333	
53	59.81	191.00	32abS	360	
54	60.08	191.00	32abR	229	
55	61.22	191.00	33abS	213	
56	61.60	191.00	33abR	142	
57	62.74	191.00	34abS	134	
58	63.22	191.00	34abR	82	
59	64.41	191.00	35abS	82	
60	65.10	191.00	35abR	51	

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.61	217.00	21aa	95	File name (sample):
9	40.26	217.00	21bb	112	3507.D
10	40.38	217.00	22aa	92	File path:
12	42.59	217.00	22bb	66	F:\HPCHEM\1\DATA\SATA_3009_S\
18	48.86	217.00	27dbS	582	Misc information:
19	49.49	217.00	27dbR	443	
22	51.78	218.00	27bbR	273	Sample name:
24	51.94	218.00	27bbS	167	
27	52.33	217.00	27aaR	92	Operator:
30	53.52	218.00	28bbR	101	JORUNN K
31	53.64	218.00	28bbS	130	Method:
35	54.61	217.00	29aaS	84	MSD_S_B
37	54.91	218.00	29bbR	244	Date analyzed:
38	55.01	218.00	29bbS	334	07/07/93
41	55.59	217.00	29aaR	85	
44	56.07	218.00	30bbR	50	
45	56.09	218.00	30bbS	135	

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	52	File name (sample): 3507.D
23/3+24/3+25/3 (191)			File path: F:\HPCHEM\1\DATA\SATVA_3009_S
100*24/4 (191)	%24/4	41	Misc information:
24/4+24/3+25/3 (191)			Sample name:
100*20/3 (191)	%20/3	5	Operator: JORUNN K
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			Method: MSD_S_B
100*27Ts (191)	%27Ts	80	Date analyzed: 07/07/93
27Ts+27Tm (191)			
100*28ab (191)	%28ab	8	
28ab+30ab (191)			
100*29Ts (191)	%29Ts	43	
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	2	
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	37	
29ab+30ab (191)			
100*30ba (191)	%30ba	4	
30ba+30ab (191)			
100*30D (191)	%30D	31	
30D+30ab (191)			
100*30G (191)	%30G	7	
30G+30ab (191)			
100*32abS (191)	%32abS	61	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	38	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	14	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	2	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	12	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	20	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(31ab(S+R)) (191)	%31HOP	16	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(32ab(S+R)) (191)	%32HOP	13	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	8	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	3	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	50	File name (sample): 3507.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	77	File path: F:\HPCHEM\1\DATA\SATVA_3009_S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	31	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	16	Sample name:
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	40	Operator: JORUNN K
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	13	Method: MSD_S_B
			Date analyzed: 07/07/93

TERPANE-STERANE GROUP ratios		
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	Ho/St2	311
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	11
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191) (20/3+21/3+23/3+24/3+25/3+26/3(R+S)+27(Ts+Tm)+28ab+ SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)	%Tri	28

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	38.60	221.00	4D21aa	13	File name (sample):
2	50.03	193.00	2D29ba	19	3509.D
3	52.04	221.00	4D27aaR	5	File path:
4	43.99	217.00	24baa	2	F:\HPCHEM\1\DATA\SATVA_3009_S\
DITERPANES					Misc information:
5	33.87	191.00	19/3	11	Sample name:
6	36.08	191.00	20/3	92	Operator:
7	38.10	191.00	21/3	162	JORUNN K
11	42.05	191.00	23/3	403	Method:
13	43.17	191.00	24/3	250	MSD_S_B
14	45.47	191.00	25/3	145	Date analyzed:
16	47.05	191.00	26/3R	353	07/07/93
17	47.19	191.00	26/3S	348	
20	50.64	191.00	28/3R	106	
21	50.73	191.00	28/3S	322	
23	51.66	191.00	29/3R	128	
25	51.95	191.00	29/3S	121	
15	46.95	191.00	24/4	310	
TRITERPANES:					
26	52.80	191.00	27Ts	467	
28	53.01	177.00	25nor28ab	25	
29	53.25	191.00	27Tm	162	
33	53.74	191.00	27b	9	
32	53.76	177.00	25nor29ab	6	
34	55.03	191.00	28ab	311	
36	55.12	177.00	25nor30ab	19	
39	55.70	191.00	29ab	586	
40	55.80	191.00	29Ts	342	
43	56.49	191.00	29ba	261	
42	56.04	191.00	30D	320	
46	57.04	191.00	30ab	893	
47	57.38	191.00	30D13	68	
48	57.52	191.00	30ba	50	
51	59.08	191.00	30G	50	
49	58.60	191.00	31abS	445	
50	58.79	191.00	31abR	370	
52	59.34	191.00	31ba	351	
53	59.81	191.00	32abS	410	
54	60.08	191.00	32abR	298	
55	61.22	191.00	33abS	237	
56	61.60	191.00	33abR	147	
57	62.72	191.00	34abS	158	
58	63.22	191.00	34abR	84	
59	64.41	191.00	35abS	89	
60	65.09	191.00	35abR	51	