

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.61	217.00	21aa	226	File name (sample): 3509.D
9	40.26	217.00	21bb	120	File path: F:\HPCHEM\1\DATA\SATA_3009_S\
10	40.38	217.00	22aa	94	Misc information:
12	42.61	217.00	22bb	65	Sample name:
18	48.86	217.00	27dbS	599	Operator: JORUNN K
19	49.49	217.00	27dbR	430	Method: MSD_S_B
22	51.80	218.00	27bbR	291	Date analyzed: 07/07/93
24	51.95	218.00	27bbS	180	
27	52.19	217.00	27aaR	64	
30	53.52	218.00	28bbR	93	
31	53.65	218.00	28bbS	125	
35	54.61	217.00	29aaS	86	
37	54.91	218.00	29bbR	243	
38	55.01	218.00	29bbS	309	
41	55.61	217.00	29aaR	219	
44	56.07	218.00	30bbR	40	
45	56.07	218.00	30bbS	40	

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TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	51	File name (sample): 3509.D
23/3+24/3+25/3 (191)			
100*24/4 (191)	%24/4	44	File path: F:\HPCHEM\1\DATA\SATVA_3009_S
24/4+24/3+25/3 (191)			
100*20/3 (191)	%20/3	5	Misc information:
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			
100*27Ts (191)	%27Ts	74	Sample name:
27Ts+27Tm (191)			
100*28ab (191)	%28ab	26	Operator: JORUNN K
28ab+30ab (191)			
100*29Ts (191)	%29Ts	37	Method: MSD_S_B
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	2	Date analyzed: 07/07/93
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	40	
29ab+30ab (191)			
100*30ba (191)	%30ba	5	
30ba+30ab (191)			
100*30D (191)	%30D	26	
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	37	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	12	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	16	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	18	
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	13	
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)			

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STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	28	File name (sample): 3509.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	64	File path: F:\HPCHEM\1\DATA\SATA_3009_S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	36	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	42	Operator: JORUNN K
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	6	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	407
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	12
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	25

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COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.55	217.00	21aa	110	File name (sample):
9	40.20	217.00	21bb	148	BIOM_A.D
10	40.31	217.00	22aa	75	File path:
12	42.51	217.00	22bb	89	F:\HPCHEM\1\DATA\SATIA_3009_S\
18	48.77	217.00	27dbS	307	Misc information:
19	49.40	217.00	27dbR	174	
22	51.71	218.00	27bbR	234	Sample name:
24	51.85	218.00	27bbS	144	
27	52.26	217.00	27aaR	97	Operator:
30	53.45	218.00	28bbR	142	JORUNN K
31	53.58	218.00	28bbS	193	Method:
35	54.55	217.00	29aaS	102	MSD_S_B
37	54.84	218.00	29bbR	205	Date analyzed:
38	54.96	218.00	29bbS	320	07/05/93
41	55.56	217.00	29aaR	131	
44	56.02	218.00	30bbR	92	
45	56.02	218.00	30bbS	92	

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	41	File name (sample):
23/3+24/3+25/3 (191)			BIOM_A.D
100*24/4 (191)	%24/4	38	File path:
24/4+24/3+25/3 (191)			F:\HPCHEM\1\DATA\SATVA_3009_S
100*20/3 (191)	%20/3	11	Misc information:
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			
100*27Ts (191)	%27Ts	54	Sample name:
27Ts+27Tm (191)			
100*28ab (191)	%28ab	17	Operator:
28ab+30ab (191)			JORUNN K
100*29Ts (191)	%29Ts	28	Method:
29Ts+29ab (191)			MSD_S_B
100*25nor30ab (191)	%25nor30ab	6	Date analyzed:
25nor30ab+30ab (191)			07/05/93
100*29ab (191)	%29ab	28	
29ab+30ab (191)			
100*30ba (191)	%30ba	9	
30ba+30ab (191)			
100*30D (191)	%30D	10	
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	45	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	7	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	5	
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	27	
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	11	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	10	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

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STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217)	%29aaS	44	File name (sample): BIOM_A.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	69	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	27	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	24	Sample name:
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	37	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: 07/05/93

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	518
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	14
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	5

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	38.53	221.00	4D21aa	7	File name (sample):
2	50.01	193.00	2D29ba	5	BIOM_B.D
3	52.07	221.00	4D27aaR	4	File path:
4	44.02	217.00	24baa	26	F:\HPCHEM\1\DATA\SATVA_3009_S\
DITERPANES					Misc information:
5	33.80	191.00	19/3	28	Sample name:
6	36.06	191.00	20/3	40	
7	38.07	191.00	21/3	54	Operator:
11	41.98	191.00	23/3	82	JORUNN K
13	43.11	191.00	24/3	73	Method:
14	45.33	191.00	25/3	42	MSD_S_B
16	46.97	191.00	26/3R	25	Date analyzed:
17	47.10	191.00	26/3S	31	07/06/93
20	50.57	191.00	28/3R	35	
21	50.81	191.00	28/3S	30	
23	51.61	191.00	29/3R	54	
25	51.90	191.00	29/3S	45	
15	46.86	191.00	24/4	74	
TRITERPANES:					
26	52.75	191.00	27Ts	262	
28	52.99	177.00	25nor28ab	209	
29	53.42	191.00	27Tm	238	
33	53.87	191.00	27b	49	
32	53.79	177.00	25nor29ab	120	
34	54.95	191.00	28ab	375	
36	55.17	177.00	25nor30ab	122	
39	55.64	191.00	29ab	693	
40	55.76	191.00	29Ts	280	
43	56.43	191.00	29ba	153	
42	56.00	191.00	30D	202	
46	57.01	191.00	30ab	1805	
47	57.35	191.00	30D13	114	
48	57.62	191.00	30ba	179	
51	59.10	191.00	30G	81	
49	58.57	191.00	31abS	699	
50	58.76	191.00	31abR	480	
52	59.28	191.00	31ba	91	
53	59.80	191.00	32abS	534	
54	60.07	191.00	32abR	372	
55	61.21	191.00	33abS	451	
56	61.58	191.00	33abR	302	
57	62.70	191.00	34abS	278	
58	63.20	191.00	34abR	169	
59	64.41	191.00	35abS	221	
60	65.09	191.00	35abR	152	

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.56	217.00	21aa	117	File name (sample):
9	40.21	217.00	21bb	139	BIOM_B.D
10	40.33	217.00	22aa	80	File path:
12	42.54	217.00	22bb	92	F:\HPCHEM\1\DATA\SATA_3009_S\
18	48.79	217.00	27dbS	290	Misc information:
19	49.42	217.00	27dbR	172	
22	51.73	218.00	27bbR	237	Sample name:
24	51.88	218.00	27bbS	164	
27	52.29	217.00	27aaR	94	Operator:
30	53.47	218.00	28bbR	129	JORUNN K
31	53.60	218.00	28bbS	205	Method:
35	54.56	217.00	29aaS	251	MSD_S_B
37	54.86	218.00	29bbR	197	Date analyzed:
38	54.98	218.00	29bbS	318	07/06/93
41	55.56	217.00	29aaR	136	
44	56.04	218.00	30bbR	91	
45	56.09	218.00	30bbS	177	

TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	42	File name (sample): BIOM_B.D
23/3+24/3+25/3 (191)			
100*24/4 (191)	%24/4	39	File path: F:\HPCHEM\1\DATA\SATVA_3009_S
24/4+24/3+25/3 (191)			
100*20/3 (191)	%20/3	12	Misc information:
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			
100*27Ts (191)	%27Ts	52	Sample name:
27Ts+27Tm (191)			
100*28ab (191)	%28ab	17	Operator: JORUNN K
28ab+30ab (191)			
100*29Ts (191)	%29Ts	29	Method: MSD_S_B
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	6	Date analyzed: 07/06/93
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	28	
29ab+30ab (191)			
100*30ba (191)	%30ba	9	
30ba+30ab (191)			
100*30D (191)	%30D	10	
30D+30ab (191)			
100*30G (191)	%30G	4	
30G+30ab (191)			
100*32abS (191)	%32abS	59	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	45	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	7	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	11	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	27	
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	12	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	10	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

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STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	65	File name (sample): BIOM_B.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	57	File path: F:\HPCHEM\1\DATA\SATA_3009_S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	26	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	22	Sample name:
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	34	Operator: JORUNN K
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	18	Method: MSD_S_B
			Date analyzed: 07/06/93

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	491
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	13
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	4

NORSK HYDRO Research Centre, Bergen _____ Petroleum Geochemistry Group

COMP.#	RT(min)	ION(m/z)	COMPOUND	HEIGHT	SATURATE BIOMARKERS
INT. STANDARD (if added)					
1	38.55	221.00	4D21aa	6	File name (sample):
2	50.00	193.00	2D29ba	7	BIOM_C.D
3	52.00	221.00	4D27aaR	3	File path:
4	44.02	217.00	24baa	21	F:\HPCHEM\1\DATA\SATVA_3009_S\
DITERPANES					Misc information:
5	33.78	191.00	19/3	23	Sample name:
6	36.04	191.00	20/3	42	Operator:
7	38.07	191.00	21/3	56	JORUNN K
11	41.98	191.00	23/3	78	Method:
13	43.10	191.00	24/3	66	MSD_S_B
14	45.35	191.00	25/3	41	Date analyzed:
16	46.95	191.00	26/3R	25	07/07/93
17	47.09	191.00	26/3S	28	
20	50.57	191.00	28/3R	38	
21	50.83	191.00	28/3S	35	
23	51.59	191.00	29/3R	50	
25	51.90	191.00	29/3S	44	
15	46.86	191.00	24/4	67	
TRITERPANES:					
26	52.73	191.00	27Ts	245	
28	52.97	177.00	25nor28ab	196	
29	53.42	191.00	27Tm	230	
33	53.87	191.00	27b	48	
32	53.77	177.00	25nor29ab	113	
34	54.95	191.00	28ab	364	
36	55.17	177.00	25nor30ab	109	
39	55.64	191.00	29ab	719	
40	55.75	191.00	29Ts	272	
43	56.43	191.00	29ba	154	
42	56.00	191.00	30D	192	
46	57.00	191.00	30ab	1794	
47	57.35	191.00	30D13	115	
48	57.62	191.00	30ba	186	
51	59.10	191.00	30G	84	
49	58.57	191.00	31abS	651	
50	58.76	191.00	31abR	480	
52	59.28	191.00	31ba	94	
53	59.79	191.00	32abS	502	
54	60.05	191.00	32abR	358	
55	61.21	191.00	33abS	477	
56	61.58	191.00	33abR	283	
57	62.70	191.00	34abS	292	
58	63.20	191.00	34abR	165	
59	64.39	191.00	35abS	223	
60	65.09	191.00	35abR	150	

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COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.56	217.00	21aa	97	File name (sample):
9	40.21	217.00	21bb	130	BIOM_C.D
10	40.33	217.00	22aa	82	File path:
12	42.53	217.00	22bb	80	F:\HPCHEM\1\DATA\SATVA_3009_S\
18	48.79	217.00	27dbS	284	Misc information:
19	49.40	217.00	27dbR	155	
22	51.73	218.00	27bbR	211	Sample name:
24	51.88	218.00	27bbS	155	
27	52.28	217.00	27aaR	94	Operator:
30	53.45	218.00	28bbR	121	JORUNN K
31	53.60	218.00	28bbS	188	Method:
35	54.57	217.00	29aaS	98	MSD_S_B
37	54.86	218.00	29bbR	211	Date analyzed:
38	54.96	218.00	29bbS	314	07/07/93
41	55.58	217.00	29aaR	140	
44	56.04	218.00	30bbR	179	
45	56.07	218.00	30bbS	172	

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TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	42	File name (sample): BIOM_C.D
23/3+24/3+25/3 (191)			
100*24/4 (191)	%24/4	39	File path: F:\HPCHEM\1\DATA\SATVA_3009_S
24/4+24/3+25/3 (191)			
100*20/3 (191)	%20/3	13	Misc information:
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			
100*27Ts (191)	%27Ts	52	Sample name:
27Ts+27Tm (191)			
100*28ab (191)	%28ab	17	Operator: JORUNN K
28ab+30ab (191)			
100*29Ts (191)	%29Ts	27	Method: MSD_S_B
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	6	Date analyzed: 07/07/93
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	29	
29ab+30ab (191)			
100*30ba (191)	%30ba	9	
30ba+30ab (191)			
100*30D (191)	%30D	10	
30D+30ab (191)			
100*30G (191)	%30G	4	
30G+30ab (191)			
100*32abS (191)	%32abS	58	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	45	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	5	
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	27	
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	12	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	10	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

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STERANE ratios			SATURATE BIOMARKERS	
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	41	File name (sample):	BIOM_C.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	69	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	24	Misc information:	
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	20	Sample name:	
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	34	Operator:	JORUNN K
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	23	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	475
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	12
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	4

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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	6	BIOM_D.D
3	51.97	221.00	4D27aaR	2	File path:
4	44.01	217.00	24baa	24	F:\HPCHEM\1\DATA\SATA_3009_S\
DITERPANES					Misc information:
5	33.78	191.00	19/3	25	Sample name:
6	36.04	191.00	20/3	31	Operator:
7	38.05	191.00	21/3	46	JORUNN K
11	41.98	191.00	23/3	77	Method:
13	43.09	191.00	24/3	65	MSD_S_B
14	45.37	191.00	25/3	36	Date analyzed:
16	46.95	191.00	26/3R	23	07/07/93
17	47.09	191.00	26/3S	28	
20	50.56	191.00	28/3R	33	
21	50.81	191.00	28/3S	36	
23	51.59	191.00	29/3R	50	
25	51.88	191.00	29/3S	35	
15	46.85	191.00	24/4	64	
TRITERPANES:					
26	52.73	191.00	27Ts	247	
28	52.97	177.00	25nor28ab	202	
29	53.40	191.00	27Tm	221	
33	53.86	191.00	27b	51	
32	53.77	177.00	25nor29ab	114	
34	54.95	191.00	28ab	350	
36	55.15	177.00	25nor30ab	113	
39	55.64	191.00	29ab	635	
40	55.75	191.00	29Ts	260	
43	56.41	191.00	29ba	134	
42	56.00	191.00	30D	177	
46	57.00	191.00	30ab	1592	
47	57.33	191.00	30D13	109	
48	57.62	191.00	30ba	160	
51	59.08	191.00	30G	80	
49	58.57	191.00	31abS	635	
50	58.76	191.00	31abR	439	
52	59.28	191.00	31ba	85	
53	59.78	191.00	32abS	507	
54	60.05	191.00	32abR	337	
55	61.21	191.00	33abS	417	
56	61.56	191.00	33abR	278	
57	62.70	191.00	34abS	265	
58	63.18	191.00	34abR	149	
59	64.37	191.00	35abS	209	
60	65.07	191.00	35abR	133	

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COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.55	217.00	21aa	92	File name (sample):
9	40.20	217.00	21bb	119	BIOM_D.D
10	40.31	217.00	22aa	74	File path:
12	42.53	217.00	22bb	75	F:\HPCHEM\1\DATA\SATVA_3009_S\
18	48.77	217.00	27dbS	249	Misc information:
19	49.40	217.00	27dbR	162	
22	51.71	218.00	27bbR	203	Sample name:
24	51.87	218.00	27bbS	134	
27	52.26	217.00	27aaR	80	Operator:
30	53.45	218.00	28bbR	130	JORUNN K
31	53.59	218.00	28bbS	163	Method:
35	54.55	217.00	29aaS	97	MSD_S_B
37	54.86	218.00	29bbR	203	Date analyzed:
38	54.96	218.00	29bbS	300	07/07/93
41	55.56	217.00	29aaR	127	
44	56.03	218.00	30bbR	168	
45	56.07	218.00	30bbS	167	

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TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	43	File name (sample):
23/3+24/3+25/3 (191)			BIOM_D.D
100*24/4 (191)	%24/4	39	File path:
24/4+24/3+25/3 (191)			F:\HPCHEM1\DATA\SATA_3009_S
100*20/3 (191)	%20/3	10	Misc information:
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)			
100*27Ts (191)	%27Ts	53	Sample name:
27Ts+27Tm (191)			
100*28ab (191)	%28ab	18	Operator:
28ab+30ab (191)			JORUNN K
100*29Ts (191)	%29Ts	29	Method:
29Ts+29ab (191)			MSD_S_B
100*25nor30ab (191)	%25nor30ab	7	Date analyzed:
25nor30ab+30ab (191)			07/07/93
100*29ab (191)	%29ab	29	
29ab+30ab (191)			
100*30ba (191)	%30ba	9	
30ba+30ab (191)			
100*30D (191)	%30D	10	
30D+30ab (191)			
100*30G (191)	%30G	5	
30G+30ab (191)			
100*32abS (191)	%32abS	60	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	45	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	7	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(29ab+29ba) (191)	%29HOP	11	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(30ab+30ba) (191)	%30HOP	26	
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	12	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	10	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

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STERANE ratios			SATURATE BIOMARKERS
100 * 29aaS (217) (29aa(S+R) (217))	%29aaS	43	File name (sample): BIOM_D.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	69	File path: F:\HPCHEM\1\DATA\SATA_3009_S
100 * 27bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%27STER	23	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	20	Sample name:
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	34	Operator: JORUNN K
100 * 30bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%30STER	23	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	463
100*(21+22)bb (21+22)bb+27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%Preg	12
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	4

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	56.43	193.00	2D29ba	5	BIOM_B.D
3	52.17	221.00	4D27aaR	4	File path:
4	46.18	217.00	24baa	1	C:\HPCHEM\1\DATA\SAT\B300914S\
DITERPANES					Misc information:
5	34.11	191.00	19/3	41	Sample name:
6	36.05	191.00	20/3	23	Operator:
7	38.06	191.00	21/3	35	JORUNN
11	41.98	191.00	23/3	52	Method:
13	43.09	191.00	24/3	44	MSD_S_B
14	45.34	191.00	25/3	24	Date analyzed:
16	46.96	191.00	26/3R	15	08/12/93
17	47.10	191.00	26/3S	22	
20	50.57	191.00	28/3R	18	
21	50.81	191.00	28/3S	17	
23	51.60	191.00	29/3R	30	
25	51.90	191.00	29/3S	26	
15	46.86	191.00	24/4	41	
TRITERPANES:					
26	52.75	191.00	27Ts	135	
28	52.98	177.00	25nor28ab	106	
29	53.42	191.00	27Tm	120	
33	53.88	191.00	27b	31	
32	53.84	177.00	25nor29ab	19	
34	54.95	191.00	28ab	191	
36	55.17	177.00	25nor30ab	59	
39	55.65	191.00	29ab	346	
40	55.75	191.00	29Ts	140	
43	56.43	191.00	29ba	71	
42	56.01	191.00	30D	90	
46	57.01	191.00	30ab	867	
47	57.34	191.00	30D13	53	
48	57.63	191.00	30ba	88	
51	59.09	191.00	30G	39	
49	58.58	191.00	31abS	318	
50	58.77	191.00	31abR	226	
52	59.30	191.00	31ba	42	
53	59.79	191.00	32abS	222	
54	60.06	191.00	32abR	166	
55	61.22	191.00	33abS	190	
56	61.58	191.00	33abR	132	
57	62.71	191.00	34abS	114	
58	63.20	191.00	34abR	67	
59	64.41	191.00	35abS	82	
60	65.09	191.00	35abR	53	

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

COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.56	217.00	21aa	71	File name (sample):
9	40.21	217.00	21bb	84	BIOM_B.D
10	40.33	217.00	22aa	58	File path:
12	42.53	217.00	22bb	56	C:\HPCHEM\1\DATA\SAT\B300914S\
18	48.78	217.00	27dbS	176	Misc information:
19	49.41	217.00	27dbR	97	
22	51.73	218.00	27bbR	129	Sample name:
24	51.88	218.00	27bbS	85	
27	52.28	217.00	27aaR	50	Operator:
30	53.47	218.00	28bbR	77	JORUNN
31	53.59	218.00	28bbS	92	Method:
35	54.56	217.00	29aaS	58	MSD_S_B
37	54.87	218.00	29bbR	108	Date analyzed:
38	54.97	218.00	29bbS	113	08/12/93
41	55.57	217.00	29aaR	63	
44	56.03	218.00	30bbR	46	
45	56.08	218.00	30bbS	30	

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TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	43	File name (sample): BIOM_B.D
23/3+24/3+25/3 (191)			File path: C:\HPCHEM\1\DATA\SAT\B300914S
100*24/4 (191)	%24/4	38	Misc information:
24/4+24/3+25/3 (191)			Sample name:
100*20/3 (191)	%20/3	11	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	53	Date analyzed: 08/12/93
27Ts+27Tm (191)			
100*28ab (191)	%28ab	18	
28ab+30ab (191)			
100*29Ts (191)	%29Ts	29	
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	6	
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	29	
29ab+30ab (191)			
100*30ba (191)	%30ba	9	
30ba+30ab (191)			
100*30D (191)	%30D	9	
30D+30ab (191)			
100*30G (191)	%30G	4	
30G+30ab (191)			
100*32abS (191)	%32abS	57	
32abS+32abR (191)			
100*35ab(S+R) (191)	%35ab	43	
SUM 34-35ab(S+R) (191)			
100*(27Ts+27Tm) (191)	%27HOP	7	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*28ab (191)	%28HOP	6	
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	28	
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	11	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	9	
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	4	
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	48	File name (sample): BIOM_B.D
100 * 29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	65	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	31	Misc information:
100 * 28bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%28STER	25	Sample name:
100 * 29bb(S+R) (218) 27bb(S+R)+28bb(S+R)+29bb(S+R)+30bb(S+R) (218)	%29STER	33	Operator: JORUNN
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: 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	504
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	6

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	1	File name (sample):
2	56.37	193.00	2D29ba	3	BIOM_B.D
3	52.19	221.00	4D27aaR	1	File path:
4	46.18	217.00	24baa	12	C:\HPCHEM1\DATA\SATVA_STD_S\
DITERPANES					Misc information:
5	34.17	191.00	19/3	31	Sample name:
6	35.94	191.00	20/3	29	Operator:
7	37.95	191.00	21/3	38	JORUNN
11	41.88	191.00	23/3	63	Method:
13	42.99	191.00	24/3	54	MSD_S_B
14	45.25	191.00	25/3	29	Date analyzed:
16	46.85	191.00	26/3R	18	08/31/93
17	46.98	191.00	26/3S	23	
20	50.71	191.00	28/3R	25	
21	50.71	191.00	28/3S	27	
23	51.61	191.00	29/3R	38	
25	51.78	191.00	29/3S	29	
15	46.74	191.00	24/4	49	
TRITERPANES:					
26	52.63	191.00	27Ts	161	
28	52.85	177.00	25nor28ab	117	
29	53.29	191.00	27Tm	161	
33	53.75	191.00	27b	27	
32	53.65	177.00	25nor29ab	66	
34	54.83	191.00	28ab	210	
36	55.05	177.00	25nor30ab	58	
39	55.52	191.00	29ab	393	
40	55.63	191.00	29Ts	134	
43	56.31	191.00	29ba	82	
42	55.88	191.00	30D	121	
46	56.88	191.00	30ab	956	
47	57.21	191.00	30D13	58	
48	57.50	191.00	30ba	103	
51	58.98	191.00	30G	53	
49	58.45	191.00	31abS	362	
50	58.64	191.00	31abR	282	
52	59.16	191.00	31ba	48	
53	59.67	191.00	32abS	273	
54	59.93	191.00	32abR	193	
55	61.09	191.00	33abS	246	
56	61.44	191.00	33abR	160	
57	62.58	191.00	34abS	145	
58	63.06	191.00	34abR	91	
59	64.25	191.00	35abS	129	
60	64.93	191.00	35abR	78	

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COMP.#	RT	ION	COMPOUND	HEIGHT	SATURATE BIOMARKERS
STERANES					
8	38.46	217.00	21aa	83	File name (sample):
9	40.09	217.00	21bb	106	BIOM_B.D
10	40.21	217.00	22aa	74	File path:
12	42.42	217.00	22bb	77	C:\HPCHEM\1\DATA\SATA_STD_S\
18	48.67	217.00	27dbS	217	Misc information:
19	49.30	217.00	27dbR	118	
22	51.61	218.00	27bbR	159	Sample name:
24	51.76	218.00	27bbS	105	
27	52.16	217.00	27aaR	60	Operator:
30	53.35	218.00	28bbR	94	JORUNN
31	53.48	218.00	28bbS	121	Method:
35	54.45	217.00	29aaS	79	MSD_S_B
37	54.76	218.00	29bbR	132	Date analyzed:
38	54.84	218.00	29bbS	124	08/31/93
41	55.46	217.00	29aaR	83	
44	55.91	218.00	30bbR	54	
45	55.97	218.00	30bbS	43	

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TERPANE ratios			SATURATE BIOMARKERS
100*23/3 (191)	%23/3	43	File name (sample): BIOM_B.D
23/3+24/3+25/3 (191)			File path: C:\HPCHEM\1\DATA\SATVA_STD_S
100*24/4 (191)	%24/4	37	Misc information:
24/4+24/3+25/3 (191)			Sample name:
100*20/3 (191)	%20/3	11	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	50	Date analyzed: 08/31/93
27Ts+27Tm (191)			
100*28ab (191)	%28ab	18	
28ab+30ab (191)			
100*29Ts (191)	%29Ts	25	
29Ts+29ab (191)			
100*25nor30ab (191)	%25nor30ab	6	
25nor30ab+30ab (191)			
100*29ab (191)	%29ab	29	
29ab+30ab (191)			
100*30ba (191)	%30ba	10	
30ba+30ab (191)			
100*30D (191)	%30D	11	
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	47	
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	5	
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	26	
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	11	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(33ab(S+R)) (191)	%33HOP	10	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(34ab(S+R)) (191)	%34HOP	6	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			
100*(35ab(S+R)) (191)	%35HOP	5	
27(Ts+Tm)+28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R) (191)			

APPENDIX IX

Report on stable carbon isotopes
prepared by Geolab Nor.

Table 2A: Tabulation of carbon isotope data for EOM/EOM - fractions for well 30/9-14

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
DST 2	0	bulk	-	-28.99	-27.72	-27.23	-27.23	-	0008-0
2969.00	ccp	bulk	-	-29.47	-30.27	-29.90	-29.34	-	0002-0
2976.50	ccp	bulk	-	-28.15	-27.18	-26.54	-25.48	-	0003-0
3060.00	0	bulk	-	-28.61	-28.43	-	-	-	0007-0
3083.50	0	bulk	-	-28.01	-27.64	-27.60	-26.52	-	0009-0
3121.75	0	bulk	-	-27.80	-27.54	-27.18	-	-	0011-0
3159.60	ccp	bulk	-	-	-24.25	-23.73	-23.24	-	0005-0
3509.00	0	bulk	-	-29.57	-29.47	-28.71	-26.68	-	0010-0
3523.00	ccp	bulk	-	-27.79	-26.62	-26.68	-25.91	-	0006-0

Table 2B: Tabulation of cv values from carbon isotope data for well 30/9-14

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
DST 2	0	bulk	-28.99	-27.72	0.16	0008-0
2969.00	ccp	bulk	-29.47	-30.27	-4.29	0002-0
2976.50	ccp	bulk	-28.15	-27.18	-0.77	0003-0
3060.00	0	bulk	-28.61	-28.43	-2.38	0007-0
3083.50	0	bulk	-28.01	-27.64	-2.15	0009-0
3121.75	0	bulk	-27.80	-27.54	-2.45	0011-0
3159.60	ccp	bulk	-	-24.25	-65.49	0005-0
3509.00	0	bulk	-29.57	-29.47	-2.26	0010-0
3523.00	ccp	bulk	-27.79	-26.62	-0.44	0006-0

Table 2A: Tabulation of carbon isotope data for EOM/EOM - fractions for well 30/9-13S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
3105.75	0	bulk	-	-28.66	-27.75	-27.54	-25.90	-	0001-0

Table 2B: Tabulation of cv values from carbon isotope data for well 30/9-13S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
3105.75	0	bulk	-28.66	-27.75	-0.75	0001-0