SATURATE BIOMARKERS

File name (sample):
2554_5.D
File path:
C:\HPCHEM\1\DATA\SAT\A3009OIL\
Misc information:
Sample name:
30/9-11a
Operator:
jkb
Method:
MSD_S_C
Date analyzed:
########

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
Int.Std.(if added):					ng/mg
4	46.19	217.00	24baa	1559	15
DITERPANES:					
5	33.98	191.00	19/3	870	7
6	35.94	191.00	20/3	704	6
7	37.95	191.00	21/3	1009	8
11	41.89	191.00	23/3	1589	13
13	43.01	191.00	24/3	1343	11
14	45.25	191.00	25/3	722	6
16	46.88	191.00	26/3R	476	4
17	46.99	191.00	26/3S	537	4
20	50.50	191.00	28/3R	629	5
21	50.75	191.00	28/3S	594	5
23	51.52	191.00	29/3R	875	7
25	51.80	191.00	29/3S	881	7
15	46.76	191.00	24/4	1411	11
TRITERPANES:					
26	52.65	191.00	27Ts	4077	32
28	52.88	177.00	25nor28ab	1043	8
29	53.31	191.00	27Tm	4109	32
33	53.79	191.00	27b	984	8
32	53.65	177.00	25nor29ab	240	2
34	54.86	191.00	28ab	6176	49
36	55.06	177.00	25nor30ab	159	1
39	55.57	191.00	29ab	12054	95
40	55.66	191.00	29Ts	4433	35
43	56.34	191.00	29ba	2514	20
42	55.91	191.00	30D	2176	17
46	56.92	191.00	30ab	28694	158
47	57.25	191.00	30D13	1381	11
48	57.53	191.00	30ba	3041	17
51	59.01	191.00	30G	1275	10
49	58.49	191.00	31abS	12533	99
50	58.68	191.00	31abR	8949	71
52	59.19	191.00	31ba	1332	11
53	59.71	191.00	32abS	7314	58
54	59.96	191.00	32abR	5483	43
55	61.12	191.00	33abS	5903	47
56	61.49	191.00	33abR	4108	32
57	62.62	191.00	34abS	3501	28
58	63.09	191.00	34abR	2251	18
59	64.28	191.00	35abS	2566	20
60	64.96	191.00	35abR	1711	13

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
STERANES:					ng/mg
8	38.45	217.00	21aa	2150	17
9	40.10	217.00	21bb	3044	30
10	40.21	217.00	22aa	1760	17
12	42.42	217.00	22bb	1887	19
18	48.69	217.00	27dbS	5830	58
19	49.32	217.00	27dbR	3710	37
22	51.64	218.00	27bbR	10079	100
24	51.80	218.00	27bbS	7850	78
27	52.19	217.00	27aaR	5239	52
30	53.38	218.00	28bbR	6424	64
31	53.51	218.00	28bbS	6722	66
35	54.48	217.00	29aaS	4454	44
37	54.78	218.00	29bbR	9630	95
38	54.89	218.00	29bbS	9287	92
41	55.49	217.00	29aaR	5851	57
44	55.96	218.00	30bbR	3045	30
45	56.01	218.00	30bbS	2541	25

TERPANE ratios		
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191)	%Tri	6
((20+21+23+24+25)/3+26/3(R+S)+27(Ts+Tm)+ 28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)		
100*20/3 (191)	%20/3	11
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)		
100*23/3 (191)	%23/3	43
23/3+24/3+25/3 (191)		
100*24/4 (191)	%24/4	41
24/4+24/3+25/3 (191)		
100*27Ts (191)	%27Ts	50
27Ts+27Tm (191)		
100*28ab (191)	%28ab	24
28ab+30ab (191)		
100*29Ts (191)	%29Ts	27
29Ts+29ab (191)		
100*25nor30ab (191)	%25nor30ab	1
25nor30ab+30ab (191)		
100*29ab (191)	%29ab	38
29ab+30ab (191)		
100*30ba (191)	%30ba	10
30ba+30ab (191)		
100*30D (191)	%30D	10
30D+30ab (191)		
100*30G (191)	%30G	6
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	8
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*28ab (191)	%28HOP	6
27(Ts+Tm)+28ab+SUM29-30(ab+ba)SUM 31-35ab(S+R)(191)		
100*(29ab+29ba) (191)	%29HOP	14
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(30ab+30ba) (191)	%30HOP	21
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(31ab(S+R)) (191)	%31HOP	20
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(32ab(S+R)) (191)	%32HOP	12
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(33ab(S+R)) (191)	%33HOP	9
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(34ab(S+R)) (191)	%34HOP	5
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(35ab(S+R)) (191)	%35HOP	4
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		

SATURATE BIOMARKERS

File name (sample):
2554_5.D
File path:
C:\HPCHEM\1\DATA\SAT\A3009OIL\
Misc information:
Sample name:
30/9-11a
Operator:
jkb
Method:
MSD_S_C
Date analyzed:
06-Apr-94

STERANE ratios		
100*(21+22)bb (217)	%Preg	8
(21+22)bb (217) + (27+28+29+30)bb(S+R) (218)		
100*29aaS (217)	%29aaS	44
(29aa(S+R) (217)		
100*29bb(S+R) (218)	%29bb	65
(29bb(S+R) (218) + 29aa(S+R) (217))		
100*27db(S+R) (217)	%27dia	35
27ds(S+R) (217) + 27bb(R+S) (218)		
100*27bb(S+R) (218)	%27STER	32
(27+28+29+30)bb(S+R) (218)		
100*28bb(S+R) (218)	%28STER	24
(27+28+29+30)bb(S+R) (218)		
100*29bb(S+R) (218)	%29STER	34
(27+28+29+30)bb(S+R) (218)		
100*30bb(S+R) (218)	%30STER	10
(27+28+29+30)bb(S+R) (218)		

TERPANE-STERANE ratio		
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	Ho/St2	1.5
(27+28+29+30)bb(S+R) (218)		

SATURATE BIOMARKERS

File name (sample):
2409_4.D
File path:
C:\HPCHEM\1\DATA\SAT\A3009OIL\
Misc information:
Sample name:
30/9-9, dst1
Operator:
jkb
Method:
MSD_S_C
Date analyzed:
########

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
Int.Std.(if added):					ng/mg
4	46.21	217.00	24baa	4291	22
DITERPANES:					
5	34.02	191.00	19/3	1445	6
6	35.97	191.00	20/3	891	4
7	38.00	191.00	21/3	999	4
11	41.91	191.00	23/3	1334	6
13	43.02	191.00	24/3	1063	4
14	45.27	191.00	25/3	557	2
16	46.90	191.00	26/3R	386	2
17	47.03	191.00	26/3S	398	2
20	50.51	191.00	28/3R	466	2
21	50.75	191.00	28/3S	388	2
23	51.53	191.00	29/3R	677	3
25	51.81	191.00	29/3S	546	2
15	46.79	191.00	24/4	1365	6
TRITERPANES:					
26	52.66	191.00	27Ts	3863	16
28	52.90	177.00	25nor28ab	391	2
29	53.32	191.00	27Tm	3044	13
33	53.86	191.00	27b	867	4
32	53.68	177.00	25nor29ab	147	1
34	54.88	191.00	28ab	2528	11
36	55.02	177.00	25nor30ab	105	0
39	55.57	191.00	29ab	9181	38
40	55.68	191.00	29Ts	3900	16
43	56.35	191.00	29ba	1211	5
42	55.91	191.00	30D	3436	14
46	56.93	191.00	30ab	20051	58
47	57.26	191.00	30D13	1494	6
48	57.54	191.00	30ba	2008	6
51	59.01	191.00	30G	981	4
49	58.49	191.00	31abS	9008	38
50	58.68	191.00	31abR	6677	28
52	59.19	191.00	31ba	1169	5
53	59.71	191.00	32abS	5567	23
54	59.98	191.00	32abR	4068	17
55	61.12	191.00	33abS	4077	17
56	61.49	191.00	33abR	2743	11
57	62.62	191.00	34abS	2313	10
58	63.09	191.00	34abR	1483	6
59	64.28	191.00	35abS	1422	6
60	64.96	191.00	35abR	963	4

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
STERANES:					ng/mg
8	38.48	217.00	21aa	1783	8
9	40.13	217.00	21bb	2068	11
10	40.26	217.00	22aa	1502	8
12	42.46	217.00	22bb	1270	7
18	48.71	217.00	27dbS	5466	29
19	49.33	217.00	27dbR	3277	17
22	51.66	218.00	27bbR	5405	28
24	51.81	218.00	27bbS	3708	19
27	52.21	217.00	27aaR	1943	10
30	53.38	218.00	28bbR	2992	16
31	53.53	218.00	28bbS	3564	19
35	54.48	217.00	29aaS	2528	13
37	54.80	218.00	29bbR	5270	28
38	54.89	218.00	29bbS	4953	26
41	55.49	217.00	29aaR	2975	15
44	55.96	218.00	30bbR	1508	8
45	56.01	218.00	30bbS	1364	7

TERPANE ratios		
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191)	%Tri	7
((20+21+23+24+25)/3+26/3(R+S)+27(Ts+Tm)+ 28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)		
100*20/3 (191)	%20/3	16
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)		
100*23/3 (191)	%23/3	45
23/3+24/3+25/3 (191)		
100*24/4 (191)	%24/4	46
24/4+24/3+25/3 (191)		
100*27Ts (191)	%27Ts	56
27Ts+27Tm (191)		
100*28ab (191)	%28ab	15
28ab+30ab (191)		
100*29Ts (191)	%29Ts	30
29Ts+29ab (191)		
100*25nor30ab (191)	%25nor30ab	1
25nor30ab+30ab (191)		
100*29ab (191)	%29ab	40
29ab+30ab (191)		
100*30ba (191)	%30ba	9
30ba+30ab (191)		
100*30D (191)	%30D	20
30D+30ab (191)		
100*30G (191)	%30G	7
30G+30ab (191)		
100*32abS (191)	%32abS	58
32abS+32abR (191)		
100*35ab(S+R) (191)	%35ab	39
SUM 34-35ab(S+R) (191)		
100*(27Ts+27Tm) (191)	%27HOP	9
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*28ab (191)	%28HOP	3
27(Ts+Tm)+28ab+SUM29-30(ab+ba)SUM 31-35ab(S+R)(191)		
100*(29ab+29ba) (191)	%29HOP	14
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(30ab+30ba) (191)	%30HOP	21
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(31ab(S+R)) (191)	%31HOP	21
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(32ab(S+R)) (191)	%32HOP	13
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(33ab(S+R)) (191)	%33HOP	9
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(34ab(S+R)) (191)	%34HOP	5
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(35ab(S+R)) (191)	%35HOP	3
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		

SATURATE BIOMARKERS

File name (sample):	
2409_4.D	
File path:	
C:\HPCHEM\1\DATA\SAT\A3009OIL\	
Misc information:	
Sample name:	
30/9-9, dst1	
Operator:	
jkb	
Method:	
MSD_S_C	
Date analyzed:	
05-Apr-94	

STERANE ratios		
100*(21+22)bb (217)	%Preg	10
(21+22)bb (217) + (27+28+29+30)bb(S+R) (218)		
100*29aaS (217)	%29aaS	46
(29aa(S+R) (217)		
100*29bb(S+R) (218)	%29bb	65
(29bb(S+R) (218) + 29aa(S+R) (217))		
100*27db(S+R) (217)	%27dia	49
27ds(S+R) (217) + 27bb(R+S) (218)		
100*27bb(S+R) (218)	%27STER	32
(27+28+29+30)bb(S+R) (218)		
100*28bb(S+R) (218)	%28STER	23
(27+28+29+30)bb(S+R) (218)		
100*29bb(S+R) (218)	%29STER	36
(27+28+29+30)bb(S+R) (218)		
100*30bb(S+R) (218)	%30STER	10
(27+28+29+30)bb(S+R) (218)		

TERPANE-STERANE ratio		
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	Ho/St2	2.1
(27+28+29+30)bb(S+R) (218)		

SATURATE BIOMARKERS

File name (sample):
2645_5.D
File path:
C:\HPCHEM\1\DATA\SAT\A3009OIL\
Misc information:
Sample name:
30/9-6, dst1
Operator:
jkb
Method:
MSD_S_C
Date analyzed:
########

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
Int.Std.(if added):					ng/mg
4	46.22	217.00	24baa	7593	24
DITERPANES:					
5	34.04	191.00	19/3	3283	8
6	35.99	191.00	20/3	2163	6
7	38.01	191.00	21/3	3285	8
11	41.92	191.00	23/3	5137	13
13	43.04	191.00	24/3	4336	11
14	45.31	191.00	25/3	2226	6
16	46.90	191.00	26/3R	1550	4
17	47.04	191.00	26/3S	1573	4
20	50.53	191.00	28/3R	1812	5
21	50.78	191.00	28/3S	1670	4
23	51.56	191.00	29/3R	2563	7
25	51.85	191.00	29/3S	2400	6
15	46.81	191.00	24/4	3962	10
TRITERPANES:					
26	52.69	191.00	27Ts	11945	31
28	52.93	177.00	25nor28ab	9603	25
29	53.35	191.00	27Tm	11098	29
33	53.82	191.00	27b	2544	7
32	53.73	177.00	25nor29ab	5918	15
34	54.91	191.00	28ab	16251	42
36	55.11	177.00	25nor30ab	5012	13
39	55.60	191.00	29ab	30707	79
40	55.71	191.00	29Ts	11105	29
43	56.38	191.00	29ba	5218	13
42	55.94	191.00	30D	7444	19
46	56.96	191.00	30ab	72356	130
47	57.29	191.00	30D13	4786	12
48	57.56	191.00	30ba	7709	14
51	59.04	191.00	30G	3904	10
49	58.52	191.00	31abS	28632	74
50	58.71	191.00	31abR	20674	53
52	59.22	191.00	31ba	3084	8
53	59.73	191.00	32abS	19894	51
54	59.99	191.00	32abR	14991	39
55	61.16	191.00	33abS	17420	45
56	61.52	191.00	33abR	10878	28
57	62.65	191.00	34abS	10065	26
58	63.12	191.00	34abR	6225	16
59	64.31	191.00	35abS	8671	22
60	64.99	191.00	35abR	5642	15

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
STERANES:					ng/mg
8	38.50	217.00	21aa	7230	19
9	40.15	217.00	21bb	9089	29
10	40.26	217.00	22aa	5899	19
12	42.47	217.00	22bb	5760	19
18	48.72	217.00	27dbS	17881	58
19	49.35	217.00	27dbR	10952	35
22	51.67	218.00	27bbR	12954	42
24	51.83	218.00	27bbS	8274	27
27	52.22	217.00	27aaR	4545	15
30	53.42	218.00	28bbR	7353	24
31	53.54	218.00	28bbS	9264	30
35	54.51	217.00	29aaS	5690	18
37	54.83	218.00	29bbR	9793	32
38	54.92	218.00	29bbS	10044	32
41	55.54	217.00	29aaR	6201	20
44	55.99	218.00	30bbR	4187	14
45	56.04	218.00	30bbS	3664	12

TERPANE ratios

100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191) ((20+21+23+24+25)/3+26/3(R+S)+27(Ts+Tm)+ 28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)	%Tri	7
100*20/3 (191) 20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)	%20/3	11
100*23/3 (191) 23/3+24/3+25/3 (191)	%23/3	44
100*24/4 (191) 24/4+24/3+25/3 (191)	%24/4	38
100*27Ts (191) 27Ts+27Tm (191)	%27Ts	52
100*28ab (191) 28ab+30ab (191)	%28ab	24
100*29Ts (191) 29Ts+29ab (191)	%29Ts	27
100*25nor30ab (191) 25nor30ab+30ab (191)	%25nor30ab	9
100*29ab (191) 29ab+30ab (191)	%29ab	38
100*30ba (191) 30ba+30ab (191)	%30ba	10
100*30D (191) 30D+30ab (191)	%30D	13
100*30G (191) 30G+30ab (191)	%30G	7
100*32abS (191) 32abS+32abR (191)	%32abS	57
100*35ab(S+R) (191) SUM 34-35ab(S+R) (191)	%35ab	47
100*(27Ts+27Tm) (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	%27HOP	8
100*28ab (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)SUM 31-35ab(S+R)(191)	%28HOP	6
100*(29ab+29ba) (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	%29HOP	13
100*(30ab+30ba) (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	%30HOP	20
100*(31ab(S+R)) (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	%31HOP	18
100*(32ab(S+R)) (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	%32HOP	13
100*(33ab(S+R)) (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	%33HOP	10
100*(34ab(S+R)) (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	%34HOP	6
100*(35ab(S+R)) (191) 27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	%35HOP	5

SATURATE BIOMARKERS

File name (sample):
2645_5.D

File path:
C:\HPCHEM\1\DATA\SAT\A3009OIL\

Misc information:

Sample name:
30/9-6, dst1

Operator:
jkb

Method:
MSD_S_C

Date analyzed:
05-Apr-94

STERANE ratios

100*(21+22)bb (217) (21+22)bb (217) + (27+28+29+30)bb(S+R) (218)	%Preg	18
100*29aaS (217) (29aa(S+R) (217)	%29aaS	48
100*29bb(S+R) (218) (29bb(S+R) (218) + 29aa(S+R) (217))	%29bb	63
100*27db(S+R) (217) 27ds(S+R) (217) + 27bb(R+S) (218)	%27dia	58
100*27bb(S+R) (218) (27+28+29+30)bb(S+R) (218)	%27STER	32
100*28bb(S+R) (218) (27+28+29+30)bb(S+R) (218)	%28STER	25
100*29bb(S+R) (218) (27+28+29+30)bb(S+R) (218)	%29STER	30
100*30bb(S+R) (218) (27+28+29+30)bb(S+R) (218)	%30STER	12

TERPANE-STERANE ratio

27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191) (27+28+29+30)bb(S+R) (218)	Ho/St2	3.4

SATURATE BIOMARKERS

File name (sample):
2455_8.D
File path:
C:\HPCHEM\1\DATA\SAT\A3009OIL\
Misc information:
Sample name:
30/9-5
Operator:
jkb
Method:
MSD_S_C
Date analyzed:
########

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
Int.Std.(if added):					ng/mg
4	46.18	217.00	24baa	5409	48
DITERPANES:					
5	33.99	191.00	19/3	1491	11
6	35.97	191.00	20/3	1477	11
7	37.97	191.00	21/3	813	6
11	41.89	191.00	23/3	1092	8
13	42.99	191.00	24/3	629	5
14	45.25	191.00	25/3	187	1
16	46.87	191.00	26/3R	115	1
17	46.99	191.00	26/3S	144	1
20	50.37	191.00	28/3R	34	0
21	50.71	191.00	28/3S	85	1
23	51.26	191.00	29/3R	61	0
25	51.77	191.00	29/3S	84	1
15	46.76	191.00	24/4	1210	9
TRITERPANES:					
26	52.61	191.00	27Ts	1902	14
28	52.85	177.00	25nor28ab	45	0
29	53.27	191.00	27Tm	5237	37
33	53.85	191.00	27b	1172	9
32	53.65	177.00	25nor29ab	51	0
34	54.83	191.00	28ab	355	3
36	55.13	177.00	25nor30ab	92	1
39	55.52	191.00	29ab	11724	84
40	55.63	191.00	29Ts	3902	28
43	56.30	191.00	29ba	3288	24
42	55.86	191.00	30D	1142	8
46	56.89	191.00	30ab	18393	92
47	57.23	191.00	30D13	3256	23
48	57.50	191.00	30ba	5344	27
51	58.97	191.00	30G	1246	9
49	58.44	191.00	31abS	8798	63
50	58.64	191.00	31abR	6450	46
52	59.16	191.00	31ba	3644	26
53	59.66	191.00	32abS	4056	29
54	59.93	191.00	32abR	3523	25
55	61.08	191.00	33abS	2208	16
56	61.45	191.00	33abR	1950	14
57	62.57	191.00	34abS	1475	11
58	63.06	191.00	34abR	1247	9
59	64.23	191.00	35abS	491	4
60	64.91	191.00	35abR	539	4

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
STERANES:					ng/mg
8	38.47	217.00	21aa	548	4
9	40.10	217.00	21bb	762	7
10	40.23	217.00	22aa	433	4
12	42.42	217.00	22bb	328	3
18	48.67	217.00	27dbS	880	8
19	49.30	217.00	27dbR	499	4
22	51.61	218.00	27bbR	653	6
24	51.77	218.00	27bbS	308	3
27	52.16	217.00	27aaR	510	5
30	53.34	218.00	28bbR	215	2
31	53.48	218.00	28bbS	298	3
35	54.44	217.00	29aaS	575	5
37	54.75	218.00	29bbR	616	6
38	54.86	218.00	29bbS	465	4
41	55.44	217.00	29aaR	1431	13
44	55.91	218.00	30bbR	55	0
45	55.97	218.00	30bbS	51	0

TERPANE ratios

100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191)	%Tri	6
((20+21+23+24+25)/3+26/3(R+S)+27(Ts+Tm)+ 28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)		
100*20/3 (191)	%20/3	33
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)		
100*23/3 (191)	%23/3	57
23/3+24/3+25/3 (191)		
100*24/4 (191)	%24/4	60
24/4+24/3+25/3 (191)		
100*27Ts (191)	%27Ts	27
27Ts+27Tm (191)		
100*28ab (191)	%28ab	3
28ab+30ab (191)		
100*29Ts (191)	%29Ts	25
29Ts+29ab (191)		
100*25nor30ab (191)	%25nor30ab	1
25nor30ab+30ab (191)		
100*29ab (191)	%29ab	48
29ab+30ab (191)		
100*30ba (191)	%30ba	23
30ba+30ab (191)		
100*30D (191)	%30D	8
30D+30ab (191)		
100*30G (191)	%30G	9
30G+30ab (191)		
100*32abS (191)	%32abS	54
32abS+32abR (191)		
100*35ab(S+R) (191)	%35ab	27
SUM 34-35ab(S+R) (191)		
100*(27Ts+27Tm) (191)	%27HOP	10
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*28ab (191)	%28HOP	0
27(Ts+Tm)+28ab+SUM29-30(ab+ba)SUM 31-35ab(S+R)(191)		
100*(29ab+29ba) (191)	%29HOP	20
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(30ab+30ba) (191)	%30HOP	23
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(31ab(S+R)) (191)	%31HOP	21
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(32ab(S+R)) (191)	%32HOP	10
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(33ab(S+R)) (191)	%33HOP	5
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(34ab(S+R)) (191)	%34HOP	4
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(35ab(S+R)) (191)	%35HOP	1
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		

SATURATE BIOMARKERS

File name (sample):
2455_8.D
File path:
C:\HPCHEM\1\DATA\SAT\A3009OIL\
Misc information:
Sample name:
30/9-5
Operator:
jkb
Method:
MSD_S_C
Date analyzed:
05-Apr-94

STERANE ratios

100*(21+22)bb (217)	%Preg	29
(21+22)bb (217) + (27+28+29+30)bb(S+R) (218)		
100*29aaS (217)	%29aaS	29
(29aa(S+R) (217)		
100*29bb(S+R) (218)	%29bb	35
(29bb(S+R) (218) + 29aa(S+R) (217))		
100*27db(S+R) (217)	%27dia	59
27ds(S+R) (217) + 27bb(R+S) (218)		
100*27bb(S+R) (218)	%27STER	36
(27+28+29+30)bb(S+R) (218)		
100*28bb(S+R) (218)	%28STER	19
(27+28+29+30)bb(S+R) (218)		
100*29bb(S+R) (218)	%29STER	41
(27+28+29+30)bb(S+R) (218)		
100*30bb(S+R) (218)	%30STER	4
(27+28+29+30)bb(S+R) (218)		

TERPANE-STERANE ratio

27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	Ho/St2	22.0
(27+28+29+30)bb(S+R) (218)		

SATURATE BIOMARKERS

File name (sample):
2455_3.D
File path:
C:\HPCHEM\1\DATA\SAT\A3009OIL\
Misc information:
Sample name:
30/9-5
Operator:
jkb
Method:
MSD_S_C
Date analyzed:
########

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
Int.Std.(if added):					ng/mg
4	46.16	217.00	24baa	6237	104
DITERPANES:					
5	33.96	191.00	19/3	706	10
6	35.92	191.00	20/3	674	9
7	37.95	191.00	21/3	606	8
11	41.86	191.00	23/3	1224	17
13	42.97	191.00	24/3	626	9
14	45.27	191.00	25/3	224	3
16	46.85	191.00	26/3R	155	2
17	46.98	191.00	26/3S	163	2
20	50.49	191.00	28/3R	197	3
21	50.70	191.00	28/3S	93	1
23	51.48	191.00	29/3R	146	2
25	51.77	191.00	29/3S	80	1
15	46.74	191.00	24/4	807	11
TRITERPANES:					
26	52.61	191.00	27Ts	1210	16
28	52.96	177.00	25nor28ab	27	0
29	53.27	191.00	27Tm	3276	45
33	53.86	191.00	27b	1305	19
32	53.64	177.00	25nor29ab	123	2
34	54.81	191.00	28ab	246	3
36	55.10	177.00	25nor30ab	27	0
39	55.52	191.00	29ab	7124	97
40	55.63	191.00	29Ts	2141	29
43	56.30	191.00	29ba	1796	24
42	55.86	191.00	30D	620	8
46	56.87	191.00	30ab	10518	100
47	57.23	191.00	30D13	1861	25
48	57.50	191.00	30ba	3131	30
51	58.97	191.00	30G	612	8
49	58.46	191.00	31abS	4981	68
50	58.64	191.00	31abR	3901	53
52	59.16	191.00	31ba	2092	29
53	59.66	191.00	32abS	2589	35
54	59.93	191.00	32abR	2088	28
55	61.09	191.00	33abS	1421	19
56	61.45	191.00	33abR	1231	17
57	62.58	191.00	34abS	872	12
58	63.06	191.00	34abR	809	11
59	64.23	191.00	35abS	341	5
60	64.92	191.00	35abR	342	5

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
STERANES:					ng/mg
8	38.44	217.00	21aa	321	5
9	40.08	217.00	21bb	550	9
10	40.19	217.00	22aa	276	5
12	42.41	217.00	22bb	261	4
18	48.66	217.00	27dbS	557	10
19	49.29	217.00	27dbR	317	5
22	51.61	218.00	27bbR	515	9
24	51.75	218.00	27bbS	319	5
27	52.14	217.00	27aaR	409	7
30	53.34	218.00	28bbR	209	4
31	53.46	218.00	28bbS	267	5
35	54.45	217.00	29aaS	360	6
37	54.75	218.00	29bbR	496	8
38	54.84	218.00	29bbS	380	6
41	55.44	217.00	29aaR	900	15
44	55.91	218.00	30bbR	40	1
45	55.96	218.00	30bbS	45	1

TERPANE ratios		
100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191)	%Tri	8
((20+21+23+24+25)/3+26/3(R+S)+27(Ts+Tm)+ 28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)		
100*20/3 (191)	%20/3	18
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)		
100*23/3 (191)	%23/3	59
23/3+24/3+25/3 (191)		
100*24/4 (191)	%24/4	49
24/4+24/3+25/3 (191)		
100*27Ts (191)	%27Ts	27
27Ts+27Tm (191)		
100*28ab (191)	%28ab	3
28ab+30ab (191)		
100*29Ts (191)	%29Ts	23
29Ts+29ab (191)		
100*25nor30ab (191)	%25nor30ab	0
25nor30ab+30ab (191)		
100*29ab (191)	%29ab	49
29ab+30ab (191)		
100*30ba (191)	%30ba	23
30ba+30ab (191)		
100*30D (191)	%30D	8
30D+30ab (191)		
100*30G (191)	%30G	8
30G+30ab (191)		
100*32abS (191)	%32abS	55
32abS+32abR (191)		
100*35ab(S+R) (191)	%35ab	29
SUM 34-35ab(S+R) (191)		
100*(27Ts+27Tm) (191)	%27HOP	10
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*28ab (191)	%28HOP	1
27(Ts+Tm)+28ab+SUM29-30(ab+ba)SUM 31-35ab(S+R)(191)		
100*(29ab+29ba) (191)	%29HOP	20
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(30ab+30ba) (191)	%30HOP	22
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(31ab(S+R)) (191)	%31HOP	20
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(32ab(S+R)) (191)	%32HOP	11
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(33ab(S+R)) (191)	%33HOP	6
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(34ab(S+R)) (191)	%34HOP	4
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(35ab(S+R)) (191)	%35HOP	2
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		

SATURATE BIOMARKERS

File name (sample):	
2455_3.D	
File path:	
C:\HPCHEM\1\DATA\SAT\A3009OIL\	
Misc information:	
Sample name:	
30/9-5	
Operator:	
jkb	
Method:	
MSD_S_C	
Date analyzed:	
05-Apr-94	

STERANE ratios		
100*(21+22)bb (217)	%Preg	26
(21+22)bb (217) + (27+28+29+30)bb(S+R) (218)		
100*29aaS (217)	%29aaS	29
(29aa(S+R) (217)		
100*29bb(S+R) (218)	%29bb	41
(29bb(S+R) (218) + 29aa(S+R) (217))		
100*27db(S+R) (217)	%27dia	51
27ds(S+R) (217) + 27bb(R+S) (218)		
100*27bb(S+R) (218)	%27STER	37
(27+28+29+30)bb(S+R) (218)		
100*28bb(S+R) (218)	%28STER	21
(27+28+29+30)bb(S+R) (218)		
100*29bb(S+R) (218)	%29STER	39
(27+28+29+30)bb(S+R) (218)		
100*30bb(S+R) (218)	%30STER	4
(27+28+29+30)bb(S+R) (218)		

TERPANE-STERANE ratio		
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	Ho/St2	15.4
(27+28+29+30)bb(S+R) (218)		

SATURATE BIOMARKERS

File name (sample):
2237_S.D

File path:
C:\HPCHEM\1\DATA\SAT\SATGNAR\

Misc information:

Sample name:

Operator:
JORUNN

Method:
MSD_S_C

Date analyzed:
########

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
Int.Std.(if added):					ng/mg
4	46.19	217.00	24baa	7388	461
DITERPANES:					
5	33.99	191.00	19/3	259	13
6	35.94	191.00	20/3	321	16
7	37.97	191.00	21/3	386	20
11	41.89	191.00	23/3	626	32
13	42.99	191.00	24/3	376	19
14	45.25	191.00	25/3	157	8
16	46.85	191.00	26/3R	86	4
17	46.99	191.00	26/3S	94	5
20	50.49	191.00	28/3R	67	3
21	50.71	191.00	28/3S	65	3
23	51.50	191.00	29/3R	80	4
25	51.80	191.00	29/3S	79	4
15	46.76	191.00	24/4	322	16
TRITERPANES:					
26	52.63	191.00	27Ts	413	21
28	52.87	177.00	25nor28ab	117	6
29	53.29	191.00	27Tm	412	21
33	53.84	191.00	27b	376	20
32	53.49	177.00	25nor29ab	38	2
34	54.84	191.00	28ab	370	19
36	55.05	177.00	25nor30ab	27	1
39	55.54	191.00	29ab	996	51
40	55.65	191.00	29Ts	319	16
43	56.32	191.00	29ba	161	8
42	55.90	191.00	30D	153	8
46	56.90	191.00	30ab	1933	68
47	57.23	191.00	30D13	122	6
48	57.51	191.00	30ba	195	7
51	58.99	191.00	30G	100	5
49	58.47	191.00	31abS	860	44
50	58.66	191.00	31abR	604	31
52	59.18	191.00	31ba	97	5
53	59.70	191.00	32abS	505	26
54	59.96	191.00	32abR	362	18
55	61.11	191.00	33abS	372	19
56	61.47	191.00	33abR	248	13
57	62.60	191.00	34abS	218	11
58	63.09	191.00	34abR	142	7
59	64.27	191.00	35abS	147	7
60	64.96	191.00	35abR	107	5

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
STERANES:					ng/mg
8	38.45	217.00	21aa	501	25
9	40.10	217.00	21bb	663	42
10	40.21	217.00	22aa	395	25
12	42.42	217.00	22bb	346	22
18	48.67	217.00	27dbS	706	45
19	49.30	217.00	27dbR	370	24
22	51.63	218.00	27bbR	706	45
24	51.77	218.00	27bbS	501	32
27	52.16	217.00	27aaR	297	19
30	53.35	218.00	28bbR	354	23
31	53.49	218.00	28bbS	418	27
35	54.45	217.00	29aaS	211	13
37	54.77	218.00	29bbR	465	30
38	54.86	218.00	29bbS	416	27
41	55.47	217.00	29aaR	276	17
44	55.93	218.00	30bbR	143	9
45	55.96	218.00	30bbS	125	8

TERPANE ratios

100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191)	%Tri	21
((20+21+23+24+25)/3+26/3(R+S)+27(Ts+Tm)+ 28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)		
100*20/3 (191)	%20/3	16
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)		
100*23/3 (191)	%23/3	54
23/3+24/3+25/3 (191)		
100*24/4 (191)	%24/4	38
24/4+24/3+25/3 (191)		
100*27Ts (191)	%27Ts	50
27Ts+27Tm (191)		
100*28ab (191)	%28ab	22
28ab+30ab (191)		
100*29Ts (191)	%29Ts	24
29Ts+29ab (191)		
100*25nor30ab (191)	%25nor30ab	2
25nor30ab+30ab (191)		
100*29ab (191)	%29ab	43
29ab+30ab (191)		
100*30ba (191)	%30ba	9
30ba+30ab (191)		
100*30D (191)	%30D	10
30D+30ab (191)		
100*30G (191)	%30G	7
30G+30ab (191)		
100*32abS (191)	%32abS	58
32abS+32abR (191)		
100*35ab(S+R) (191)	%35ab	41
SUM 34-35ab(S+R) (191)		
100*(27Ts+27Tm) (191)	%27HOP	11
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*28ab (191)	%28HOP	5
27(Ts+Tm)+28ab+SUM29-30(ab+ba)SUM 31-35ab(S+R)(191)		
100*(29ab+29ba) (191)	%29HOP	15
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(30ab+30ba) (191)	%30HOP	20
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(31ab(S+R)) (191)	%31HOP	20
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(32ab(S+R)) (191)	%32HOP	12
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(33ab(S+R)) (191)	%33HOP	8
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(34ab(S+R)) (191)	%34HOP	5
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(35ab(S+R)) (191)	%35HOP	3
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		

SATURATE BIOMARKERS

File name (sample):
2237_S.D

File path:
C:\HPCHEM\1\DATA\SAT\SATGNAR\

Misc information:

Sample name:

Operator:
JORUNN

Method:
MSD_S_C

Date analyzed:
25-Apr-94

STERANE ratios

100*(21+22)bb (217)	%Preg	24
(21+22)bb (217) + (27+28+29+30)bb(S+R) (218)		
100*29aaS (217)	%29aaS	44
(29aa(S+R) (217)		
100*29bb(S+R) (218)	%29bb	65
(29bb(S+R) (218) + 29aa(S+R) (217))		
100*27db(S+R) (217)	%27dia	47
27ds(S+R) (217) + 27bb(R+S) (218)		
100*27bb(S+R) (218)	%27STER	39
(27+28+29+30)bb(S+R) (218)		
100*28bb(S+R) (218)	%28STER	25
(27+28+29+30)bb(S+R) (218)		
100*29bb(S+R) (218)	%29STER	28
(27+28+29+30)bb(S+R) (218)		
100*30bb(S+R) (218)	%30STER	9
(27+28+29+30)bb(S+R) (218)		

TERPANE-STERANE ratio

27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	Ho/St2	1.9
(27+28+29+30)bb(S+R) (218)		

SATURATE BIOMARKERS

File name (sample):
BIOM_B2.D
File path:
C:\HPCHEM\1\DATA\SAT\SATGNAR\
Misc information:
Sample name:
Operator:
JORUNN
Method:
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Date analyzed:
########

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
Int.Std.(if added):					ng/mg
4	46.21	217.00	24baa	2113	24
DITERPANES:					
5	34.01	191.00	19/3	908	8
6	35.97	191.00	20/3	663	6
7	37.98	191.00	21/3	978	9
11	41.91	191.00	23/3	1488	14
13	43.02	191.00	24/3	1204	11
14	45.27	191.00	25/3	633	6
16	46.90	191.00	26/3R	413	4
17	47.02	191.00	26/3S	492	5
20	50.51	191.00	28/3R	509	5
21	50.75	191.00	28/3S	519	5
23	51.55	191.00	29/3R	734	7
25	51.83	191.00	29/3S	663	6
15	46.79	191.00	24/4	1148	11
TRITERPANES:					
26	52.66	191.00	27Ts	3423	32
28	52.91	177.00	25nor28ab	2559	24
29	53.34	191.00	27Tm	3181	29
33	53.81	191.00	27b	889	9
32	53.70	177.00	25nor29ab	1418	13
34	54.89	191.00	28ab	4399	41
36	55.10	177.00	25nor30ab	1200	11
39	55.58	191.00	29ab	8553	79
40	55.68	191.00	29Ts	3484	32
43	56.37	191.00	29ba	1625	15
42	55.93	191.00	30D	1876	17
46	56.93	191.00	30ab	21533	139
47	57.26	191.00	30D13	1292	12
48	57.54	191.00	30ba	1968	13
51	59.02	191.00	30G	1180	11
49	58.50	191.00	31abS	7508	69
50	58.69	191.00	31abR	5382	50
52	59.21	191.00	31ba	872	8
53	59.73	191.00	32abS	5161	48
54	59.99	191.00	32abR	3942	36
55	61.14	191.00	33abS	4645	43
56	61.50	191.00	33abR	3119	29
57	62.63	191.00	34abS	2778	26
58	63.12	191.00	34abR	1694	16
59	64.31	191.00	35abS	2143	20
60	64.99	191.00	35abR	1420	13

Peak#	Rt min.	Ion m/z	Compound	Height	Amount
STERANES:					ng/mg
8	38.48	217.00	21aa	2072	20
9	40.12	217.00	21bb	2560	30
10	40.24	217.00	22aa	1687	20
12	42.46	217.00	22bb	1626	19
18	48.71	217.00	27dbS	5154	60
19	49.33	217.00	27dbR	3008	35
22	51.66	218.00	27bbR	3516	41
24	51.81	218.00	27bbS	2496	29
27	52.21	217.00	27aaR	1422	16
30	53.40	218.00	28bbR	2014	23
31	53.53	218.00	28bbS	2637	31
35	54.50	217.00	29aaS	1522	18
37	54.80	218.00	29bbR	2822	33
38	54.91	218.00	29bbS	2800	32
41	55.50	217.00	29aaR	1589	18
44	55.97	218.00	30bbR	1151	13
45	56.01	218.00	30bbS	1092	13

TERPANE ratios

100*(20/3+21/3+23/3+24/3+25/3+26/3(R+S)) (191)	%Tri	7
((20+21+23+24+25)/3+26/3(R+S)+27(Ts+Tm)+ 28ab+SUM 29-30(ab+ba)+SUM 31-35ab(S+R)) (191)		
100*20/3 (191)	%20/3	11
20/3+21/3+23/3+24/3+25/3+26/3(R+S) (191)		
100*23/3 (191)	%23/3	45
23/3+24/3+25/3 (191)		
100*24/4 (191)	%24/4	38
24/4+24/3+25/3 (191)		
100*27Ts (191)	%27Ts	52
27Ts+27Tm (191)		
100*28ab (191)	%28ab	23
28ab+30ab (191)		
100*29Ts (191)	%29Ts	29
29Ts+29ab (191)		
100*25nor30ab (191)	%25nor30ab	7
25nor30ab+30ab (191)		
100*29ab (191)	%29ab	36
29ab+30ab (191)		
100*30ba (191)	%30ba	8
30ba+30ab (191)		
100*30D (191)	%30D	11
30D+30ab (191)		
100*30G (191)	%30G	7
30G+30ab (191)		
100*32abS (191)	%32abS	57
32abS+32abR (191)		
100*35ab(S+R) (191)	%35ab	44
SUM 34-35ab(S+R) (191)		
100*(27Ts+27Tm) (191)	%27HOP	9
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*28ab (191)	%28HOP	6
27(Ts+Tm)+28ab+SUM29-30(ab+ba)SUM 31-35ab(S+R)(191)		
100*(29ab+29ba) (191)	%29HOP	13
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(30ab+30ba) (191)	%30HOP	21
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(31ab(S+R)) (191)	%31HOP	17
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(32ab(S+R)) (191)	%32HOP	12
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(33ab(S+R)) (191)	%33HOP	10
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(34ab(S+R)) (191)	%34HOP	6
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		
100*(35ab(S+R)) (191)	%35HOP	5
27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)		

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STERANE ratios

100*(21+22)bb (217)	%Preg	18
(21+22)bb (217) + (27+28+29+30)bb(S+R) (218)		
100*29aaS (217)	%29aaS	49
(29aa(S+R) (217)		
100*29bb(S+R) (218)	%29bb	65
(29bb(S+R) (218) + 29aa(S+R) (217))		
100*27db(S+R) (217)	%27dia	58
27ds(S+R) (217) + 27bb(R+S) (218)		
100*27bb(S+R) (218)	%27STER	32
(27+28+29+30)bb(S+R) (218)		
100*28bb(S+R) (218)	%28STER	25
(27+28+29+30)bb(S+R) (218)		
100*29bb(S+R) (218)	%29STER	30
(27+28+29+30)bb(S+R) (218)		
100*30bb(S+R) (218)	%30STER	12
(27+28+29+30)bb(S+R) (218)		

TERPANE-STERANE ratio

27(Ts+Tm)+28ab+SUM29-30(ab+ba)+SUM31-35ab(S+R)(191)	Ho/St2	3.3
(27+28+29+30)bb(S+R) (218)		