

Appendix II

Gas chromatograms and tabulated results of saturated hydrocarbons

#	Rt.min.	Signal	Compound	Area	Amount
FID					ug/mg
Internal standards (if added):					
1)	13.30	GC1	C12D28	4265548	3.4
6)	25.59	GC1	C16D34	5854869	3.4
11)	35.87	GC1	C20D42	7237618	3.3
19)	44.47	GC1	C24D50	7895485	3.4
28)	55.14	GC1	C30D62	3383186	1.5
2)	10.61	GC1	nC11	3670	
3)	13.86	GC1	nC12	7023	
4)	17.13	GC1	nC13	21862	
5)	20.31	GC1	nC14	27598	
7)	22.25	GC1	iC16	2953	0.0
8)	23.35	GC1	nC15	11424	0.0
9)	26.25	GC1	nC16	13456	0.0
10)	27.61	GC1	iC18	1345	0.0
12)	29.02	GC1	nC17	5990	0.0
13)	29.19	GC1	pristane	3858	0.0
14)	31.85	GC1	nC18	8481	0.0
15)	31.90	GC1	phytane	1881	0.0
16)	34.17	GC1	nC19	4754	0.0
17)	36.58	GC1	nC20	5559	0.0
18)	38.87	GC1	nC21	3029	0.0
20)	41.07	GC1	nC22	2285	0.0
21)	43.17	GC1	nC23	3406	0.0
22)	45.22	GC1	nC24	2563	0.0
23)	47.17	GC1	nC25	1522	0.0
24)	49.06	GC1	nC26	1854	0.0
25)	50.88	GC1	nC27	3276	0.0
26)	52.64	GC1	nC28	11456	0.0
27)	54.33	GC1	nC29	19985	0.0
29)	55.98	GC1	nC30	24497	0.0
30)	57.57	GC1	nC31	30660	0.0
31)	59.11	GC1	nC32	29185	0.0
32)	60.61	GC1	nC33	31627	0.0
33)	62.06	GC1	nC34	19925	0.0
34)	63.62	GC1	nC35	13291	0.0

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: 2096_00S.D
Sample name: 24/6-2, 2096.00m, mud sat
Data File Path: CA\HPCHEM\1\DATA\24 6 2
Misc. info.:

Vial no.: 10
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 10:39:13 1998

Response curve y = ax
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.64	0.64
Ph/nC18	0.22	0.22
(Pr/nC17)/(Ph/nC18)	2.90	2.90
Pr/Ph	2.05	2.05
nC17/(nC17+nC27)	0.65	0.66
CPI-1	1.10	1.10
CPI-2 (2*nC27/(nC26+nC27))	1.28	1.28

#	Rt.min.	Signal	Compound	Area	Amount
			FID	ug/mg	
Internal standards (if added):					
1)	13.29	GC1	C12D26	2133529	4.0
6)	25.58	GC1	C16D34	3131872	4.0
11)	35.85	GC1	C20D42	3790132	4.0
19)	44.46	GC1	C24D50	3893748	4.1
29)	55.15	GC1	C30D62	1719678	1.8
2)	10.61	GC1	nC11	14508	
3)	13.87	GC1	nC12	39634	
4)	17.13	GC1	nC13	49481	
5)	20.31	GC1	nC14	132510	
7)	22.22	GC1	iC16	749197	1.0
8)	23.35	GC1	nC15	237980	0.3
9)	26.26	GC1	nC16	265785	0.3
10)	27.64	GC1	iC18	1211763	1.5
12)	29.03	GC1	nC17	269157	0.3
13)	29.20	GC1	pristane	2148088	2.2
14)	31.73	GC1	nC18	79325	0.1
15)	31.92	GC1	phytane	1526532	1.6
16)	34.17	GC1	nC19	237877	0.2
17)	36.58	GC1	nC20	207877	0.2
18)	38.88	GC1	nC21	207205	0.2
20)	41.08	GC1	nC22	199872	0.2
21)	43.20	GC1	nC23	197079	0.2
22)	45.23	GC1	nC24	298402	0.3
23)	47.18	GC1	nC25	338353	0.4
24)	49.07	GC1	nC26	230571	0.2
25)	50.88	GC1	nC27	200431	0.2
26)	52.65	GC1	nC28	196506	0.2
27)	54.35	GC1	nC29	207892	0.2
29)	55.99	GC1	nC30	203185	0.2
30)	57.57	GC1	nC31	185018	0.2
31)	59.12	GC1	nC32	155779	0.2
32)	60.61	GC1	nC33	136404	0.1
33)	62.06	GC1	nC34	384869	0.4
34)	63.63	GC1	nC35	220151	0.2

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: 2098_50S.D
Sample name: 24/6-2, 2098.50m sat
Data File Path: C:\HPCHEM\1\DATA\24 6 2\
Misc. info.:

Vial no.: 2
Method: MSD_S_D
Operator: Reidun
Date: Mon Oct 05 22:50:34 1998

Response curve $y = ax$
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	7.98	7.98
Ph/nC18	19.24	19.24
(Pr/nC17)/(Ph/nC18)	0.41	0.41
Pr/Ph	1.41	1.41
nC17/(nC17+nC27)	0.57	0.57
CPI-1	1.09	1.09
CPI-2 (2*nC27/(nC26+nC27))	0.93	0.93

#	Rt.min.	Signal	Compound	Area	Amount
			FID	ug/mg	
Internal standards (if added):					
1)	13.31	GC1	C12D26	7565081	3.3
6)	25.62	GC1	C16D34	8540253	3.3
11)	35.90	GC1	C20D42	12118029	3.2
19)	44.50	GC1	C24D50	12818216	3.3
28)	55.17	GC1	C30D62	5528385	1.4
2)	10.61	GC1	nC11	10307	
3)	13.87	GC1	nC12	17807	
4)	17.13	GC1	nC13	34044	
5)	20.31	GC1	nC14	104170	
7)	22.22	GC1	iC16	536811	0.2
8)	23.35	GC1	nC15	236686	0.1
9)	26.26	GC1	nC16	313771	0.1
10)	27.64	GC1	iC18	1483563	0.5
12)	29.03	GC1	nC17	421752	0.1
13)	29.21	GC1	pristane	2720795	0.7
14)	31.73	GC1	nC18	65567	0.0
15)	31.93	GC1	phytane	2030550	0.5
16)	34.17	GC1	nC19	310651	0.1
17)	36.58	GC1	nC20	277167	0.1
18)	38.88	GC1	nC21	220590	0.1
20)	41.08	GC1	nC22	197963	0.1
21)	43.19	GC1	nC23	175702	0.0
22)	45.23	GC1	nC24	246765	0.1
23)	47.18	GC1	nC25	315375	0.1
24)	49.07	GC1	nC26	161913	0.0
25)	50.88	GC1	nC27	154952	0.0
26)	52.64	GC1	nC28	175551	0.0
27)	54.35	GC1	nC29	183054	0.0
29)	55.99	GC1	nC30	202785	0.1
30)	57.58	GC1	nC31	183445	0.0
31)	59.12	GC1	nC32	163487	0.0
32)	60.62	GC1	nC33	143661	0.0
33)	62.07	GC1	nC34	214408	0.1
34)	63.63	GC1	nC35	186978	0.0

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: 2124_50S.D
Sample name: 24/8-2, 2124.50m sat
Data File Path: C:\HPCHEM\1\DATA\24 8 21
Misc. info.:

Vial no.: 3
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 08 00:19:08 1998

Response curve y = ax
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	6.45	6.45
Ph/nC18	30.97	30.97
(Pr/nC17)/(Ph/nC18)	0.21	0.21
Pr/Ph	1.34	1.34
nC17/(nC17+nC27)	0.73	0.74
CPI-1	1.13	1.13
CPI-2 (2*nC27/(nC26+nC27))	0.98	0.98

#	Ret.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.29	GC1	C12D26	1182177	3.0
6)	25.57	GC1	C16D34	2197297	3.0
11)	35.84	GC1	C20D42	2455996	2.9
19)	44.45	GC1	C24D50	2394451	3.0
28)	55.14	GC1	C30D62	1057649	1.3
2)	10.81	GC1	nC11	7995	
3)	13.87	GC1	nC12	27639	
4)	17.13	GC1	nC13	83883	
5)	20.31	GC1	nC14	260938	
7)	22.22	GC1	iC16	1324364	1.8
8)	23.35	GC1	nC15	388074	0.5
9)	26.26	GC1	nC16	383526	0.5
10)	27.64	GC1	iC18	1745521	2.4
12)	29.03	GC1	nC17	396342	0.5
13)	29.21	GC1	pristane	3108487	3.7
14)	31.73	GC1	nC18	121389	0.1
15)	31.92	GC1	phytane	2283195	2.7
16)	34.17	GC1	nC19	387313	0.4
17)	36.58	GC1	nC20	253415	0.3
18)	38.88	GC1	nC21	236713	0.3
20)	41.09	GC1	nC22	216045	0.3
21)	43.20	GC1	nC23	175580	0.2
22)	45.23	GC1	nC24	333639	0.4
23)	47.18	GC1	nC25	430883	0.5
24)	49.07	GC1	nC26	201054	0.3
25)	50.88	GC1	nC27	179410	0.2
26)	52.85	GC1	nC28	210368	0.3
27)	54.35	GC1	nC29	237335	0.3
29)	55.99	GC1	nC30	271965	0.3
30)	57.57	GC1	nC31	288848	0.4
31)	59.12	GC1	nC32	269425	0.3
32)	60.82	GC1	nC33	202117	0.3
33)	62.07	GC1	nC34	525122	0.7
34)	63.63	GC1	nC35	324188	0.4

Saturated hydrocarbons

GC/FID detection:HP-6890

Compound data and ratios



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

Data file name: 2147_25S.D
Sample name: 24/6-2, 2147.25m sat
Data File Path: C:\HPCHEM\1\DATA\24 6 2\
Misc. info.:

Vial no.: 4
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 01:47:44 1998

Response curve y = ax
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	7.84	7.84
Ph/nC18	18.81	18.81
(Pr/nC17)/(Ph/nC18)	0.42	0.42
Pr/Ph	1.36	1.36
nC17/(nC17+nC27)	0.69	0.68
CPI-1	1.16	1.16
CPI-2 (2*nC27/(nC26+nC27))	0.94	0.94

#	Rt.min.	Signal	Compound	Area	Amount
	FID				ug/mg
Internal standards (if added):					
1)	13.29	GC1	C12D26	1287715	3.3
6)	25.58	GC1	C16D34	2081717	3.3
11)	35.84	GC1	C20D42	2418003	3.3
19)	44.45	GC1	C24D50	2315828	3.4
28)	55.14	GC1	C30D62	1071030	1.8
2)	10.61	GC1	nC11	20868	
3)	13.89	GC1	nC12	74926	
4)	17.13	GC1	nC13	153123	
5)	20.31	GC1	nC14	330925	
7)	22.23	GC1	iC16	1708790	2.7
8)	23.36	GC1	nC15	478391	0.8
9)	26.26	GC1	nC16	459169	0.7
10)	27.65	GC1	iC18	2230178	3.6
12)	29.03	GC1	nC17	483274	0.7
13)	29.21	GC1	pristane	3778138	5.1
14)	31.73	GC1	nC18	164789	0.2
15)	31.93	GC1	phytane	2765932	3.8
16)	34.18	GC1	nC19	424221	0.6
17)	36.58	GC1	nC20	343838	0.5
18)	38.88	GC1	nC21	260137	0.4
20)	41.09	GC1	nC22	227574	0.3
21)	43.20	GC1	nC23	214299	0.3
22)	45.24	GC1	nC24	413875	0.6
23)	47.19	GC1	nC25	540273	0.8
24)	49.08	GC1	nC26	267582	0.4
25)	50.89	GC1	nC27	228709	0.3
26)	52.65	GC1	nC28	250252	0.4
27)	54.35	GC1	nC29	335758	0.5
29)	55.99	GC1	nC30	348666	0.5
30)	57.59	GC1	nC31	349386	0.5
31)	59.13	GC1	nC32	345137	0.5
32)	60.63	GC1	nC33	284349	0.4
33)	62.07	GC1	nC34	595469	0.9
34)	63.63	GC1	nC35	413080	0.6

Saturated hydrocarbons

GC/FID detection HP-6899

Compound data and ratios



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

Data file name: 2152_75S.D
Sample name: 24/6-2, 2152.75m sat
Data File Path: C:\HPCHEM\DATA\24 6 2\
Misc. info.:

Vial no.: 5
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 03:16:19 1998

Response curve y = ax
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	7.82	7.82
Ph/nC18	16.79	16.79
(Pr/nC17)/(Ph/nC18)	0.47	0.47
Pr/Ph	1.37	1.37
nC17/(nC17+nC27)	0.68	0.66
CPI-1	1.17	1.17
CPI-2 (2*nC27/(nC26+nC27))	0.92	0.92

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13,28	GC1	C12D26	83582	3,76
6)	25,57	GC1	C18D34	127943	3,76
11)	35,83	GC1	C20D42	127555	3,72
19)	44,43	GC1	C24D50	128354	3,80
28)	55,11	GC1	C30D62	56316	1,69
2)	10,58	GC1	nC11	8738	
3)	13,88	GC1	nC12	15716	
4)	17,15	GC1	nC13	13669	
5)	20,42	GC1	nC14	25201	
7)	22,22	GC1	iC16	95448	2,81
8)	23,34	GC1	nC15	20964	0,62
9)	26,24	GC1	nC16	16641	0,49
10)	27,64	GC1	iC18	101101	2,97
12)	29,01	GC1	nC17	13831	0,40
13)	29,20	GC1	pristane	167820	4,90
14)	31,71	GC1	nC18	10141	0,30
15)	31,91	GC1	phytane	121446	3,54
16)	34,16	GC1	nC19	10178	0,30
17)	36,75	GC1	nC20	9211	0,27
18)	39,09	GC1	nC21	7782	0,23
20)	41,07	GC1	nC22	3884	0,12
21)	43,16	GC1	nC23	3829	0,12
22)	45,20	GC1	nC24	11604	0,35
23)	47,17	GC1	nC25	15252	0,46
24)	49,05	GC1	nC26	8155	0,25
25)	50,86	GC1	nC27	4669	0,14
26)	52,61	GC1	nC28	5029	0,15
27)	54,32	GC1	nC29	9459	0,28
29)	55,96	GC1	nC30	11910	0,36
30)	57,54	GC1	nC31	9267	0,28
31)	59,09	GC1	nC32	8922	0,27
32)	60,59	GC1	nC33	10029	0,30
33)	62,03	GC1	nC34	31283	0,94
34)	63,59	GC1	nC35	13646	0,42

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



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

Data file name: 2164S.D
Sample name: 24/6-2, 2164.00m, mdt, sat
Data File Path: C:\HPCHEM\1\DATA\MICHAEL\
Misc. info.:

Vial no.: 2
Method: MSD_S_D
Operator: Reidun
Date: #VALUE!

Response curve y = ax
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	12,13	12,13
Ph/nC18	11,98	11,98
(Pr/nC17)/(Ph/nC18)	1,01	1,01
Pr/Ph	1,38	1,38
nC17/(nC17+nC27)	0,75	0,74
CPI-1	1,09	1,09
CPI-2 (2*nC27/(nC26+nC27))	0,73	0,73

#	Rt.min.	Signal	Compound	Area	Amount
		FID			ug/mg
Internal standards (if added):					
1)	13.29	GC1	C12D26	2266631	3.2
6)	25.59	GC1	C16D34	3078404	3.2
11)	35.85	GC1	C20D42	3298825	3.2
19)	44.46	GC1	C24D50	3260362	3.1
28)	55.15	GC1	C30D62	1408932	1.4
2)	10.60	GC1	nC11	281169	
3)	13.90	GC1	nC12	477880	
4)	17.14	GC1	nC13	404237	
5)	20.44	GC1	nC14	715571	
7)	22.24	GC1	iC16	2803433	2.9
8)	23.36	GC1	nC15	586520	0.6
9)	26.27	GC1	nC16	450930	0.5
10)	27.66	GC1	iC18	2946173	3.0
12)	29.03	GC1	nC17	423929	0.4
13)	29.22	GC1	pristane	4962232	4.8
14)	31.73	GC1	nC18	200940	0.2
15)	31.94	GC1	phytane	9554777	3.4
16)	34.17	GC1	nC19	277138	0.3
17)	36.59	GC1	nC20	210735	0.2
18)	38.89	GC1	nC21	165755	0.2
20)	41.09	GC1	nC22	131870	0.1
21)	43.20	GC1	nC23	135983	0.1
22)	45.24	GC1	nC24	324769	0.3
23)	47.19	GC1	nC25	552322	0.5
24)	49.08	GC1	nC26	184465	0.2
25)	50.89	GC1	nC27	120952	0.1
26)	52.64	GC1	nC28	169469	0.2
27)	54.36	GC1	nC29	217732	0.2
29)	56.00	GC1	nC30	256575	0.2
30)	57.58	GC1	nC31	264219	0.3
31)	59.12	GC1	nC32	254786	0.2
32)	60.62	GC1	nC33	249725	0.2
33)	62.07	GC1	nC34	823792	0.8
34)	63.65	GC1	nC35	385470	0.4

Saturated hydrocarbons

GC/FID detection: HP-6890

Compound data and ratios



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

Data file name: 2165_75S.D
Sample name: 24/5-2, 2165.27m, oil sat
Data File Path: C:\HPCHEM\1\DATA\24 8 2\
Misc. info.:

Vial no.: 8
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 07:42:03 1998

Response curve y = ax
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	11.71	11.71
Ph/nC18	17.69	17.69
(Pr/nC17)/(Ph/nC18)	0.66	0.66
Pr/Ph	1.40	1.40
nC17/(nC17+nC27)	0.78	0.78
CPI-1	1.29	1.29
CPI-2 (2*nC27/(nC26+nC27))	0.79	0.79

#	Rt.min.	Signal	Compound	Area	Amount
		FID			ug/mg
Internal standards (if added):					
1)	13.31	GC1	C12D26	5097724	4.2
6)	25.61	GC1	C16D34	7248882	4.2
11)	35.89	GC1	C20D42	7133044	4.2
19)	44.49	GC1	C24D50	7040044	4.3
28)	55.18	GC1	C30D62	3207559	2.0
2)	10.60	GC1	nC11	504868	
3)	13.90	GC1	nC12	801514	
4)	17.19	GC1	nC13	732533	
5)	20.46	GC1	nC14	1276176	
7)	22.26	GC1	iC16	4759030	2.8
8)	23.38	GC1	nC15	994561	0.6
9)	26.28	GC1	nC16	744580	0.4
10)	27.68	GC1	iC18	4864594	2.8
12)	29.05	GC1	nC17	800948	0.5
13)	29.26	GC1	pristane	8307367	4.9
14)	31.75	GC1	nC18	384763	0.2
15)	31.97	GC1	phytane	5863288	3.5
16)	34.19	GC1	nC19	495158	0.3
17)	36.52	GC1	nC20	653416	0.4
18)	38.90	GC1	nC21	265222	0.2
20)	41.10	GC1	nC22	155965	0.1
21)	43.22	GC1	nC23	175004	0.1
22)	45.25	GC1	nC24	427599	0.3
23)	47.21	GC1	nC25	982267	0.6
24)	49.10	GC1	nC26	354430	0.2
25)	50.91	GC1	nC27	174667	0.1
26)	52.66	GC1	nC28	255296	0.2
27)	54.37	GC1	nC29	378058	0.2
29)	56.01	GC1	nC30	490088	0.3
30)	57.60	GC1	nC31	441994	0.3
31)	59.14	GC1	nC32	369855	0.2
32)	60.63	GC1	nC33	439769	0.3
33)	62.09	GC1	nC34	1427870	0.9
34)	63.65	GC1	nC35	784030	0.5

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: 2167_005.D
Sample name: 24/6-2, 2167.00m, oil sat
Data File Path: C:\HPCHEM\1\DATA\24 6 2\
Misc. info.:

Vial no.: 9
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 09:10:38 1998

Response curve $y = ax$
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	10.37	10.37
Ph/nC18	15.24	15.24
(Pr/nC17)/(Ph/nC18)	0.68	0.68
Pr/Ph	1.42	1.42
nC17/(nC17+nC27)	0.82	0.82
CPI-1	1.32	1.32
CPI-2 (2*nC27/(nC26+nC27))	0.66	0.66

#	Rt.min.	Signal	Compound	Area	Amount
			FID	ug/mg	
Internal standards (if added):					
1)	13.33	GC1	C12D28	11484893	3.0
6)	25.63	GC1	C18C34	13552335	3.0
11)	35.91	GC1	C20D42	17348460	3.0
19)	44.53	GC1	C24D50	19071637	3.1
28)	55.19	GC1	C30D62	8121637	1.3
2)	10.61	GC1	nC11	16528	
3)	13.87	GC1	nC12	24034	
4)	17.13	GC1	nC13	26889	
5)	20.31	GC1	nC14	53619	
7)	22.21	GC1	iC16	81931	0.0
8)	23.35	GC1	nC15	72111	0.0
9)	26.26	GC1	nC16	83624	0.0
10)	27.63	GC1	iC18	183287	0.0
12)	29.02	GC1	nC17	122351	0.0
13)	29.18	GC1	pristane	401300	0.1
14)	31.65	GC1	nC18	114207	0.0
15)	31.91	GC1	phytane	298905	0.1
16)	34.17	GC1	nC19	173789	0.0
17)	36.58	GC1	nC20	178290	0.0
18)	38.87	GC1	nC21	189740	0.0
20)	41.08	GC1	nC22	147902	0.0
21)	43.19	GC1	nC23	151547	0.0
22)	45.23	GC1	nC24	141286	0.0
23)	47.18	GC1	nC25	160535	0.0
24)	49.07	GC1	nC26	129547	0.0
25)	50.88	GC1	nC27	124322	0.0
26)	52.64	GC1	nC28	138511	0.0
27)	54.34	GC1	nC29	151606	0.0
29)	55.98	GC1	nC30	131341	0.0
30)	57.57	GC1	nC31	128960	0.0
31)	59.11	GC1	nC32	99359	0.0
32)	60.61	GC1	nC33	76841	0.0
33)	62.06	GC1	nC34	90925	0.0
34)	63.62	GC1	nC35	63840	0.0

Saturated hydrocarbons

GC/FID detection: HP-6890

Compound data and ratios



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

Data file name: 2173_30S.D
Sample name: 24/6-2, 2173.30m sat
Data File Path: C:\HPCHEM\1\DATA\24 6 2\
Misc. info:

Vial no.: 6
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 04:44:55 1998

Response curve $y = ax$
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	3.28	3.28
Ph/nC18	2.62	2.62
(Pr/nC17)/(Ph/nC18)	1.25	1.25
Pr/Ph	1.34	1.34
nC17/(nC17+nC27)	0.50	0.51
CPI-1	1.09	1.09
CPI-2 (2*nC27/(nC26+nC27))	0.98	0.98

#	Rt.min.	Signal	Compound	Area	Amount
			FID	ug/mg	
Internal standards (if added):					
1)	13.32	GC1	C12D26	9266014	3.1
6)	25.62	GC1	C16D34	11236987	3.1
11)	35.91	GC1	C20D42	14803371	3.0
19)	44.52	GC1	C24D50	16225484	3.1
28)	55.18	GC1	C30D62	6959609	1.3
2)	10.61	GC1	nC11	14497	
3)	13.87	GC1	nC12	20667	
4)	17.13	GC1	nC13	31700	
5)	20.31	GC1	nC14	47522	
7)	22.22	GC1	iC16	20115	0.0
8)	23.35	GC1	nC15	46127	0.0
9)	26.26	GC1	nC16	70276	0.0
10)	27.62	GC1	iC18	32826	0.0
12)	29.02	GC1	nC17	119333	0.0
13)	29.19	GC1	pristane	103843	0.0
14)	31.65	GC1	nC18	166299	0.0
15)	31.90	GC1	phytane	80771	0.0
16)	34.17	GC1	nC19	234977	0.0
17)	36.57	GC1	nC20	271549	0.1
18)	38.87	GC1	nC21	285849	0.1
20)	41.07	GC1	nC22	224074	0.0
21)	43.19	GC1	nC23	203125	0.0
22)	45.22	GC1	nC24	183058	0.0
23)	47.18	GC1	nC25	173341	0.0
24)	49.06	GC1	nC26	160152	0.0
25)	50.88	GC1	nC27	161299	0.0
26)	52.63	GC1	nC28	159718	0.0
27)	54.33	GC1	nC29	169062	0.0
29)	55.98	GC1	nC30	144505	0.0
30)	57.57	GC1	nC31	148582	0.0
31)	59.11	GC1	nC32	121575	0.0
32)	60.61	GC1	nC33	106922	0.0
33)	62.06	GC1	nC34	87689	0.0
34)	63.61	GC1	nC35	73382	0.0

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: 2179_50S.D
 Sample name: 24/6-2, 2179.50m sat
 Data File Path: C:\HPCHEM1\DATA\24 6 2\
 Misc. info.:
 Vial no.: 7
 Method: MSD_S_D
 Operator: Reidun
 Date: Tue Oct 06 06:13:30 1999

Response curve y = ax
 Response factor equality 1.0

Ratios:	Area	Amount
Pr/nC17	0.87	0.87
Ph/nC18	0.49	0.49
(Pr/nC17)/(Ph/nC18)	1.79	1.79
Pr/Ph	1.29	1.29
nC17/(nC17+nC27)	0.43	0.44
CPI-1	1.06	1.06
CPI-2 (2*nC27/(nC28+nC27))	1.00	1.00

#	Rt.min.	Signal	Compound	Area	Amount
FID					
Internal standards (if added):					
1)	13.29	GC1	C12D26	4113951	3.04
6)	26.62	GC1	C16D34	6324240	3.04
11)	35.90	GC1	C20D42	6865015	3.01
19)	44.52	GC1	C24D60	6765813	3.07
28)	55.21	GC1	C30D82	2812113	1.29
2)	10.80	GC1	nC11	5549379	
3)	13.89	GC1	nC12	8900338	
4)	17.19	GC1	nC13	11197724	
5)	20.39	GC1	nC14	12605478	
7)	22.26	GC1	iC16	4254937	2.05
8)	23.45	GC1	nC15	12751603	6.13
9)	26.36	GC1	nC16	12503047	6.01
10)	27.68	GC1	iC18	3734154	1.79
12)	29.12	GC1	nC17	11734375	5.14
13)	29.27	GC1	pristane	5851172	2.57
14)	31.76	GC1	nC18	9988829	4.38
15)	31.98	GC1	phytane	4064863	1.78
16)	34.28	GC1	nC19	9065756	3.97
17)	36.68	GC1	nC20	8329005	3.65
18)	38.98	GC1	nC21	7352490	3.22
20)	41.17	GC1	nC22	6627560	3.01
21)	43.29	GC1	nC23	5813472	2.64
22)	45.32	GC1	nC24	5703199	2.59
23)	47.27	GC1	nC25	4963119	2.25
24)	49.15	GC1	nC26	4030140	1.83
25)	50.97	GC1	nC27	3398670	1.52
26)	52.72	GC1	nC28	2989449	1.36
27)	54.42	GC1	nC29	2626811	1.19
29)	56.06	GC1	nC30	2060998	0.94
30)	57.65	GC1	nC31	1953619	0.89
31)	59.19	GC1	nC32	1583340	0.72
32)	60.69	GC1	nC33	1417015	0.64
33)	62.14	GC1	nC34	1465867	0.67
34)	63.71	GC1	nC35	1229096	0.56

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: 24_6_2.D
 Sample name: 24/6-2, 2673.sat
 Data File Path: K:\CAP\MSPIDW95\CANADA\4
 Misc. info.:
 Vial no.: 12
 Method: MSD_S_D
 Operator: Birthe
 Date: #VALUE!

Response curve y = ax
 Response factor equaly 1.0

Ratios:	Area	Amount
Pr/nC17	0.50	0.50
Ph/nC18	0.41	0.41
(Pr/nC17)/(Ph/nC18)	1.23	1.23
Pr/Ph	1.44	1.44
nC17/(nC17+nC27)	0.78	0.77
CPI-1	1.04	1.04
CPI-2 (2*nC27/(nC26+nC27))	0.91	0.91

#	Rt.min.	Signal	Compound	Area	Amount
		FID			ug/mg
Internal standards (if added):					
1)	13.30	GC1	C12D26	3023620	4.0
6)	25.60	GC1	C16D34	3970153	4.0
11)	35.65	GC1	C20D42	3930941	4.0
19)	44.47	GC1	C24D50	4217556	4.0
28)	55.16	GC1	C30D62	1788364	1.7
2)	10.61	GC1	nC11	4722630	
3)	13.88	GC1	nC12	5830680	
4)	17.17	GC1	nC13	6383729	
5)	20.35	GC1	nC14	6516621	
7)	22.23	GC1	iC16	2284338	2.3
8)	23.40	GC1	nC15	6620610	6.7
9)	26.30	GC1	nC16	5764246	5.8
10)	27.65	GC1	iC18	1991231	2.0
12)	29.07	GC1	nC17	5467786	5.5
13)	29.22	GC1	pristane	3242011	3.3
14)	31.70	GC1	nC18	4549190	4.6
15)	31.93	GC1	phytane	2239706	2.3
16)	34.21	GC1	nC19	4057357	4.1
17)	36.61	GC1	nC20	3635796	3.7
18)	38.91	GC1	nC21	3215663	3.2
20)	41.11	GC1	nC22	2943604	2.8
21)	43.23	GC1	nC23	2700789	2.6
22)	45.25	GC1	nC24	2638498	2.5
23)	47.21	GC1	nC25	2170011	2.1
24)	49.09	GC1	nC26	1839842	1.8
25)	50.91	GC1	nC27	1513887	1.5
26)	52.66	GC1	nC28	1284464	1.2
27)	54.36	GC1	nC29	1229371	1.2
29)	56.00	GC1	nC30	944789	0.9
30)	57.59	GC1	nC31	881442	0.8
31)	59.13	GC1	nC32	731106	0.7
32)	60.63	GC1	nC33	585324	0.6
33)	62.08	GC1	nC34	689498	0.7
34)	63.64	GC1	nC35	447673	0.4

Saturated hydrocarbons

GC/FID-detection HP-6890

Compound data and ratios



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

Data file name: NSO1_S02.D
Sample name: nso1 ref. sample SAT #2
Data File Path: C:\HPCHEM\1\DATA\24 6 2\
Misc. info.:

Vial no.: 1
Method: MSD_S_D
Operator: Reidun
Date: Mon Oct 05 21:21:58 1998

Response curve $y = ax$
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.59	0.59
Ph/nC18	0.49	0.49
(Pr/nC17)/(Ph/nC18)	1.20	1.20
Pr/Ph	1.45	1.45
nC17/(nC17+nC27)	0.78	0.79
CPI-1	1.04	1.04
CPI-2 (2*nC27/(nC26+nC27))	0.90	0.90

#	Rt.min.	Signal	Compound	Area	Amount
			FID	ug/mg	
Internal standards (if added):					
1)	13.30	GC1	C12D26	3413140	4.0
6)	25.60	GC1	C16D34	4544928	4.0
11)	35.86	GC1	C20D42	4847802	4.0
19)	44.47	GC1	C24D50	4670199	4.0
28)	55.15	GC1	C30D62	1995468	1.7
2)	10.62	GC1	nC11	5153929	
3)	13.89	GC1	nC12	6597395	
4)	17.17	GC1	nC13	7075350	
5)	20.36	GC1	nC14	7221496	
7)	22.24	GC1	nC16	2583502	2.3
8)	23.41	GC1	nC15	7302155	6.4
9)	26.31	GC1	nC16	6558486	5.8
10)	27.65	GC1	nC18	2156594	1.9
12)	29.07	GC1	nC17	6043924	4.9
13)	29.23	GC1	pristane	3432810	2.8
14)	31.70	GC1	nC18	5005064	4.1
15)	31.94	GC1	phytane	2427913	2.0
16)	34.22	GC1	nC19	4492191	3.7
17)	36.62	GC1	nC20	4017346	3.3
18)	38.91	GC1	nC21	3551212	2.9
20)	41.11	GC1	nC22	3255810	2.8
21)	43.22	GC1	nC23	2989858	2.6
22)	45.26	GC1	nC24	2904155	2.5
23)	47.21	GC1	nC25	2388468	2.1
24)	49.09	GC1	nC26	2034585	1.8
25)	50.91	GC1	nC27	1699830	1.5
26)	52.66	GC1	nC28	1444160	1.2
27)	54.36	GC1	nC29	1558665	1.3
29)	56.00	GC1	nC30	1093721	0.9
30)	57.59	GC1	nC31	1010248	0.9
31)	59.13	GC1	nC32	829955	0.7
32)	60.62	GC1	nC33	635247	0.5
33)	62.08	GC1	nC34	980459	0.8
34)	63.63	GC1	nC35	576887	0.5

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



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

Data file name: NSO1_S14.D
Sample name: nso1 ref. sample SAT #14
Data File Path: C:\HPCHEM\1\DATA\24 6 21
Misc. info.:

Vial no.: 1
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 12:07:50 1998

Response curve y = ax
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.57	0.57
Ph/nC18	0.49	0.49
(Pr/nC17)/(Ph/nC18)	1.17	1.17
Pr/Ph	1.41	1.41
nC17/(nC17+nC27)	0.78	0.77
CPI-1	1.06	1.06
CPI-2 (2*nC27/(nC26+nC27))	0.91	0.91

#	Rt.min.	Signal	Compound	Area	Amount
		FID			ug/mg
Internal standards (if added):					
1)	13.34	GC1	C12D26	5400038	4.0
6)	25.65	GC1	C16D34	6263316	4.0
11)	35.92	GC1	C20D42	6592720	4.0
19)	44.53	GC1	C24D50	6610695	4.0
28)	55.21	GC1	C30D62	2848914	1.7
2)	10.66	GC1	nC11	9055900	
3)	13.93	GC1	nC12	9599523	
4)	17.22	GC1	nC13	9506702	
5)	20.40	GC1	nC14	9362142	
7)	22.28	GC1	iC16	3328523	2.1
8)	23.45	GC1	nC15	9550323	6.1
9)	26.36	GC1	nC16	8589386	5.5
10)	27.69	GC1	iC18	2877647	1.8
12)	29.13	GC1	nC17	8049351	4.8
13)	29.28	GC1	pristane	4914162	3.0
14)	31.76	GC1	nC18	6962480	4.2
15)	31.99	GC1	phvtane	3280253	2.0
16)	34.27	GC1	nC19	6027506	3.6
17)	36.67	GC1	nC20	5390847	3.2
18)	38.97	GC1	nC21	4815475	2.9
20)	41.17	GC1	nC22	4372898	2.7
21)	43.28	GC1	nC23	4074907	2.5
22)	45.31	GC1	nC24	3864768	2.4
23)	47.27	GC1	nC25	3273848	2.0
24)	49.15	GC1	nC26	2752087	1.7
25)	50.97	GC1	nC27	2273335	1.4
26)	52.72	GC1	nC28	1937076	1.2
27)	54.41	GC1	nC29	1887516	1.2
29)	56.06	GC1	nC30	1566480	1.0
30)	57.65	GC1	nC31	1329514	0.8
31)	59.18	GC1	nC32	1111394	0.7
32)	60.68	GC1	nC33	869177	0.5
33)	62.14	GC1	nC34	1052976	0.6
34)	63.69	GC1	nC35	619479	0.4

Saturated hydrocarbons

GC/FID detection HP-6890

Compound data and ratios



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

Data file name: NSO1S_15.D
 Sample name: nso1 ref. sat
 Data File Path: C:\HPCHEM\1\DATA\CANADA4\

Misc. info.:
 Vial no.: 3
 Method: MSD_S_D
 Operator: Birthe
 Date: Tue Jul 21 13:18:47 1998

Response curve y = ax
 Response factor equaly 1.0

Ratios:	Area	Amount
Pr/nC17	0.61	0.61
Ph/nC18	0.47	0.47
(Pr/nC17)/(Ph/nC18)	1.30	1.30
Pr/Ph	1.50	1.50
nC17/(nC17+nC27)	0.78	0.78
CPI-1	1.03	1.03
CPI-2 (2*nC27/(nC26+nC27))	0.90	0.90

#	Rt.min	Signal FID	Compound	Area	Amount $\mu\text{g/mg}$
Internal standards (if added):					
1)	13.28	GC1	C12D28	98458	4.00
6)	25.57	GC1	C16D34	133898	4.00
11)	35.83	GC1	C20D42	144008	3.96
19)	44.43	GC1	C24D50	18935	4.04
28)	55.11	GC1	C30D62	59659	1.73
2)	10.60	GC1	nC11	152381	
3)	13.87	GC1	nC12	189812	
4)	17.15	GC1	nC13	206615	
5)	20.33	GC1	nC14	211458	
7)	22.21	GC1	iC16	76372	2.28
8)	23.38	GC1	nC15	215014	6.42
9)	26.28	GC1	nC16	187628	5.61
10)	27.63	GC1	iC18	64566	1.93
12)	29.04	GC1	nC17	178550	4.91
13)	29.20	GC1	pristane	101531	2.79
14)	31.67	GC1	nC18	148173	4.07
15)	31.90	GC1	phytane	72699	2.00
16)	34.18	GC1	nC19	132212	3.64
17)	36.59	GC1	nC20	118541	3.26
18)	38.88	GC1	nC21	108570	2.93
20)	41.08	GC1	nC22	96919	2.80
21)	43.19	GC1	nC23	89787	2.60
22)	45.22	GC1	nC24	85244	2.47
23)	47.18	GC1	nC25	72527	2.10
24)	49.06	GC1	nC26	60390	1.75
25)	50.87	GC1	nC27	50387	1.46
26)	52.63	GC1	nC28	43312	1.25
27)	54.32	GC1	nC29	40692	1.18
29)	55.96	GC1	nC30	32377	0.94
30)	57.54	GC1	nC31	29730	0.86
31)	59.09	GC1	nC32	24996	0.72
32)	60.58	GC1	nC33	19419	0.56
33)	62.04	GC1	nC34	24093	0.70
34)	63.58	GC1	nC35	14861	0.43

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



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

Data file name: NSO1_S01.D
Sample name: ns01 ref. sample SAT #1
Data File Path: C:\NPCHEM\1\DATA\MICHAEL\1
Misc. info.:
Vial no.: 1
Method: MSD_S_D
Operator: Reidun
Date: #VALUE!
Response curve y = ax
Response factor equally 1.0

Ratios:	Area	Amount
Pr/nC17	0,57	0,57
Ph/nC18	0,49	0,49
(Pr/nC17)/(Ph/nC18)	1,16	1,16
Pr/Ph	1,40	1,40
nC17/(nC17+nC27)	0,78	0,77
CPI-1	1,04	1,04
CPI-2 (2*nC27/(nC26+nC27))	0,91	0,91

Appendix III

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

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

Internal standard (if added):
 1) 45.97 217.2 24baa 3269 24

Diterpanes:

2) 33.62 191.2 s1 19/3 4 0
3) 35.68 191.2 s1 20/3 6 0
4) 37.67 191.2 s1 21/3 5 0
5) 41.61 191.2 s1 23/3 22 0
6) 42.75 191.2 s1 24/3 15 0
7) 45.02 191.2 s1 25/3 9 0
8) 46.54 191.2 s1 24/4 12 0
9) 46.66 191.2 s1 26/3R 8 0
10) 46.80 191.2 s1 26/3S 8 0
11) 50.32 191.2 s1 28/3R 13 0
12) 50.56 191.2 s1 28/3S 6 0
13) 51.35 191.2 s1 29/3R 12 0
14) 51.64 191.2 s1 29/3S 7 0

Triterpanes:

15) 52.50 191.2 s1 27Ts 17 0
16) 52.73 177.2 s1 25nor28ab 13 0
17) 53.18 191.2 s1 27Tm 17 0
18) 53.54 177.2 s1 25nor29ab 21 0
19) 53.66 191.2 s1 27b 69 0
20) 54.74 191.2 s1 28ab 14 0
21) 54.95 177.2 s1 25nor30ab 12 0
22) 55.43 191.2 s1 29ab 52 0
23) 55.54 191.2 s1 29Ts 17 0
24) 55.79 191.2 s1 30D 8 0
25) 56.24 191.2 s1 28ba 14 0
26) 56.81 191.2 s2 30ab 57 0
27) 57.15 191.2 s1 30D13 13 0
28) 57.44 191.2 s2 30ba 11 0
29) 58.40 191.2 s1 31abS 28 0
30) 58.59 191.2 s1 31abR 20 0
31) 58.92 191.2 s1 30G 11 0
32) 59.13 191.2 s1 31ba 10 0
33) 59.62 191.2 s1 32abS 27 0
34) 59.92 191.2 s1 32abR 17 0
35) 61.08 191.2 s1 33abS 25 0
36) 61.43 191.2 s1 33abR 18 0
37) 62.57 191.2 s1 34abS 21 0
38) 63.07 191.2 s1 34abR 19 0
39) 64.29 191.2 s1 35abS 29 0
40) 64.97 191.2 s1 35abR 14 0

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2096_005.D

Sample name: 24/6-2, 2096.00m, mud sat

Data File Path: C:\HPCHEM\1\DATA\24 6 2\

Misc. info:

Vial no.: 10

Method: MSD_S_D

Operator: Reidun

Date: Tue Oct 06 10:39:13 1998

Response curve y = ax

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

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

Steranes:

41) 38.17 217.2 s3 21aa 2 0
42) 39.80 217.2 s3 21bb 9 0
43) 39.93 217.2 s3 22aa 4 0
44) 42.16 217.2 s3 22bb 7 0
45) 48.50 217.2 s3 27dbS 14 0
46) 49.13 217.2 s3 27dbR 14 0
47) 51.48 218.2 s3 27bbR 21 0
48) 51.63 218.2 s3 27bbS 12 0
49) 52.03 217.2 s3 27aaR 11 0
50) 53.24 218.2 s3 28bbR 10 0
51) 53.37 218.2 s3 28bbS 16 0
52) 54.34 217.2 s3 29aaS 9 0
53) 54.66 218.2 s3 29bbR 17 0
54) 54.74 218.2 s3 29bbS 13 0
55) 55.36 217.2 s3 29aaR 10 0
56) 55.83 218.2 s3 30bbR 7 0
57) 55.87 218.2 s3 30bbS 4 0

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2096_005.D
Sample name: 24/6-2, 2096.00m, mud sat
Data File Path: C:\HPCHEM\1\DATA\24 6 2\
Misc. info.:

Vial no.: 10
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 10:39:13 1998

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3 + 26/3(R+S)) /$			
$((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tri	15	16
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	8	8
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	48	48
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	33	33
$100 \cdot Ts / (Ts + Tm)$	%27Ts	50	50
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	20	28
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	25	25
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	17	25
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	48	59
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	16	16
$100 \cdot 30D / (30D + 30ab)$	%30D	12	18
$100 \cdot 30G / (30G + 30ab)$	%30G	16	23
$100 \cdot 32abS / (32ab(S+R))$	%32abS	61	61
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	52	52
$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	9	9
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	4	4
$100 \cdot (29ab+ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	17	18
$100 \cdot (30ab+ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	17	12
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	12	13
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	11	12
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	11	11
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	10	11
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	11	11
Sterane ratios			
$100 \cdot (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	14	14
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	47	47
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	61	61
$100 \cdot 27db(S+R) / (27db(S+R) + 27bb(R+S))$	%27dia	46	46
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	33	33
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	26	26
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	30	30
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	11	11
Hopanes/Steranes ratio-2 (only bb steranes)	H ₂ /S ₁₂	4	3

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2098_50S.D
Sample name: 24/6-2, 2098.50m sat
Data File Path: C:\HPCHEM1\DATA\24_6_2A
Misc. info.:

Vial no.: 2
Method: MSD_S_D
Operator: Reidun
Date: 5 Oct 1998 21:28

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
Internal standard (if added):						
1)	45.99	217.2	s1	24baa	1429	29
Diterpanes:						
2)	33.65	191.2	s1	19/3	144	2
3)	35.62	191.2	s1	20/3	118	2
4)	37.67	191.2	s1	21/3	167	3
5)	41.64	191.2	s1	23/3	273	4
6)	42.77	191.2	s1	24/3	233	4
7)	45.05	191.2	s1	25/3	112	2
8)	46.57	191.2	s1	24/4	114	2
9)	46.89	191.2	s1	26/3R	83	1
10)	46.81	191.2	s1	26/3S	95	1
11)	50.34	191.2	s1	28/3R	99	2
12)	50.59	191.2	s1	28/3S	111	2
13)	51.37	191.2	s1	29/3R	141	2
14)	51.66	191.2	s1	29/3S	133	2
Triterpanes:						
15)	52.52	191.2	s1	27Ts	423	6
16)	52.65	177.2	s1	25nor28ab	47	1
17)	53.19	191.2	s1	27Tm	184	3
18)	53.54	177.2	s1	25nor29ab	71	1
19)	53.67	191.2	s1	27b	134	2
20)	54.76	191.2	s1	28ab	246	4
21)	54.97	177.2	s1	25nor30ab	9	0
22)	55.46	191.2	s1	29ab	538	8
23)	55.57	191.2	s1	29Ts	268	4
24)	55.82	191.2	s1	30D	254	4
25)	56.25	191.2	s1	29ba	128	2
26)	56.84	191.2	s2	30ab	1233	12
27)	57.20	191.2	s1	30D13	32	0
28)	57.46	191.2	s2	30ba	137	1
29)	58.44	191.2	s1	31abS	523	8
30)	58.63	191.2	s1	31abR	381	6
31)	58.96	191.2	s1	30G	117	2
32)	59.22	191.2	s1	31ba	111	2
33)	59.67	191.2	s1	32abS	418	6
34)	59.95	191.2	s1	32abR	318	5
35)	61.10	191.2	s1	33abS	395	6
36)	61.48	191.2	s1	33abR	265	4
37)	62.62	191.2	s1	34abS	243	4
38)	63.10	191.2	s1	34abR	154	2
39)	64.31	191.2	s1	35abS	175	3
40)	65.00	191.2	s1	35abR	124	2

#	Rt.min.	m/z	Rf.	Name	Height	Amount
Steranes:						
41)	38.17	217.2	s3	21aa	315	7
42)	39.83	217.2	s3	21bb	394	9
43)	39.95	217.2	s3	22aa	354	8
44)	42.18	217.2	s3	22bb	210	5
45)	48.52	217.2	s3	27dbS	766	17
46)	49.16	217.2	s3	27dbR	476	11
47)	51.51	218.2	s3	27bbR	588	13
48)	51.66	218.2	s3	27bbS	375	8
49)	52.06	217.2	s3	27aaR	211	5
50)	53.25	218.2	s3	28bbR	341	8
51)	53.39	218.2	s3	28bbS	448	10
52)	54.38	217.2	s3	29aaS	192	4
53)	54.69	218.2	s3	29bbR	539	12
54)	54.78	218.2	s3	29bbS	488	11
55)	55.39	217.2	s3	29aaR	219	5
56)	55.86	218.2	s3	30bbR	224	5
57)	55.91	218.2	s3	30bbS	227	5

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2098_50S.D
Sample name: 24/6-2, 2098.50m sat
Data File Path: C:\HPCHEM\1\DATA\24_6_2\1
Misc. info.:

Vial no.: 2
Method: MSD_S_D
Operator: Reidun
Date: 5 Oct 1998 21:28

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3 + 26/3(R+S)) / ((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tt1	16	17
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	11	11
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	44	44
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	25	25
$100 \cdot Ts / (Ts + Tm)$	%27Ts	70	70
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	17	24
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	33	33
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	1	1
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	30	40
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	10	10
$100 \cdot 30D / (30D + 30ab)$	%30D	17	24
$100 \cdot 30G / (30G + 30ab)$	%30G	9	13
$100 \cdot 32abS / (32ab(S+R))$	%32abS	57	57
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	43	43
$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	10	11
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	4	5
$100 \cdot (29ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	11	12
$100 \cdot (30ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	23	16
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	15	17
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	13	14
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	11	12
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	7	7
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	5	6

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	16	16
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	47	47
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	71	71
$100 \cdot 27db(S+R) / ((27db(S+R) + 27bb(R+S)))$	%27dia	56	56
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	30	30
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	24	24
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	32	32
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	14	14

Hopananes/Steranes ratio-2 (only bb steranes)	Ho/S12	2	1
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Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2124_50S.D
Sample name: 24/6-2, 2124.50m sat
Data File Path: C:\HPCHEM\1\DATA\24_6_2
Misc. info.:

Vial no.: 3
Method: MSD_S_D
Operator: Reidun
Date: 5 Oct 1998 22:57

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added)						
1)	46.00	217.2		24baa	5122	23
Diterpanes:						
2)	33.64	191.2	s1	19/3	169	1
3)	35.62	191.2	s1	20/3	146	1
4)	37.67	191.2	s1	21/3	213	1
5)	41.64	191.2	s1	23/3	320	1
6)	42.77	191.2	s1	24/3	268	1
7)	45.04	191.2	s1	25/3	131	0
8)	46.58	191.2	s1	24/4	162	1
9)	46.68	191.2	s1	26/3R	120	0
10)	46.81	191.2	s1	26/3S	101	0
11)	50.34	191.2	s1	28/3R	112	0
12)	50.58	191.2	s1	28/3S	124	0
13)	51.37	191.2	s1	29/3R	135	0
14)	51.67	191.2	s1	29/3S	143	0
Triterpanes:						
15)	52.52	191.2	s1	27Ts	497	2
16)	52.77	177.2	s1	25nor28ab	26	0
17)	53.20	191.2	s1	27Tm	163	1
18)	53.54	177.2	s1	25nor29ab	52	0
19)	53.71	191.2	s1	27b	301	1
20)	54.76	191.2	s1	28ab	244	1
21)	54.98	177.2	s1	25nor30ab	30	0
22)	55.46	191.2	s1	29ab	498	2
23)	55.57	191.2	s1	29Ts	247	1
24)	55.82	191.2	s1	30D	255	1
25)	56.28	191.2	s1	29ba	112	0
26)	56.84	191.2	s2	30ab	1098	2
27)	57.18	191.2	s1	30D13	48	0
28)	57.45	191.2	s2	30ba	90	0
29)	58.43	191.2	s1	31abS	399	1
30)	58.62	191.2	s1	31abR	289	1
31)	58.94	191.2	s1	30G	97	0
32)	59.22	191.2	s1	31ba	78	0
33)	59.67	191.2	s1	32abS	264	1
34)	59.94	191.2	s1	32abR	194	1
35)	61.10	191.2	s1	33abS	213	1
36)	61.46	191.2	s1	33abR	141	0
37)	62.62	191.2	s1	34abS	115	0
38)	63.08	191.2	s1	34abR	66	0
39)	64.32	191.2	s1	35abS	75	0
40)	65.01	191.2	s1	35abR	49	0

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Steranes:						
41)	38.18	217.2	s3	21aa	367	2
42)	39.84	217.2	s3	21bb	449	2
43)	39.96	217.2	s3	22aa	404	2
44)	42.18	217.2	s3	22bb	265	1
45)	48.52	217.2	s3	27dbS	846	4
46)	49.16	217.2	s3	27dbR	505	3
47)	51.50	218.2	s3	27bbR	539	3
48)	51.65	218.2	s3	27bbS	340	2
49)	52.07	217.2	s3	27aaR	179	1
50)	53.25	218.2	s3	28bbR	287	1
51)	53.40	218.2	s3	28bbS	364	2
52)	54.37	217.2	s3	29aaS	138	1
53)	54.67	218.2	s3	29bbR	381	2
54)	54.78	218.2	s3	29bbS	365	2
55)	55.40	217.2	s3	29aaR	145	1
56)	55.85	218.2	s3	30bbR	155	1
57)	55.92	218.2	s3	30bbS	147	1

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2124_50S.D
Sample name: 24/6-2, 2124.50m sat
Data File Path: C:\HPCHEM\1\DATA\24_6_2
Misc. info.:

Vial no.: 3
Method: MSD_S_D
Operator: Reidun
Date: 5 Oct 1998 22:57

Terpane ratios, heights and amounts

	Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(R+S)) / ((\text{sum}20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%Tn	22 24
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	11 11
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	45 45
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	29 29
$100 \cdot Ts / (Ts+Tm)$	%27Ts	75 75
$100 \cdot 28ab / (28ab+30ab)$	%28ab	18 26
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	33 33
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	3 4
$100 \cdot 29ab / (29ab+30ab)$	%29ab	31 41
$100 \cdot 30ba / (30ba+30ab)$	%30ba	8 8
$100 \cdot 30D / (30D+30ab)$	%30D	19 27
$100 \cdot 30G / (30G+30ab)$	%30G	8 12
$100 \cdot 32abS / (32ab(S+R))$	%32abS	58 58
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	41 41
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	15 16
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	5 6
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	14 15
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	26 19
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	15 17
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	10 11
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	8 9
$100 \cdot 34ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	4 4
$100 \cdot 35ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	3 3

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	22 22
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	49 49
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	72 72
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	61 61
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	34 34
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	25 25
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	29 29
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	12 12

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	2 1
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Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2147_25S.D
Sample name: 24/6-2, 2147.25m sat
Data File Path: C:\HPCHEM1\DATA\24_6_2\
Misc. info.:

Vial no.: 4
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 00:25

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
Internal standard (if added):						
1)	45.99	217.2		24baa	904	21
Diterpanes:						
2)	33.65	191.2	s1	19/3	253	4
3)	35.62	191.2	s1	20/3	181	3
4)	37.85	191.2	s1	21/3	253	4
5)	41.85	191.2	s1	23/3	402	7
6)	42.76	191.2	s1	24/3	352	6
7)	45.04	191.2	s1	25/3	171	3
8)	46.56	191.2	s1	24/4	180	3
9)	46.70	191.2	s1	26/3R	154	3
10)	46.82	191.2	s1	26/3S	142	2
11)	50.34	191.2	s1	28/3R	154	3
12)	50.60	191.2	s1	28/3S	153	3
13)	51.39	191.2	s1	29/3R	182	3
14)	51.68	191.2	s1	29/3S	205	3
Triterpanes:						
15)	52.53	191.2	s1	27Ts	701	12
16)	52.76	177.2	s1	25nor28ab	18	0
17)	53.20	191.2	s1	27Tm	209	3
18)	53.55	177.2	s1	25nor29ab	73	1
19)	53.66	191.2	s1	27b	121	2
20)	54.76	191.2	s1	28ab	344	6
21)	54.97	177.2	s1	25nor30ab	36	1
22)	55.46	191.2	s1	29ab	643	11
23)	55.57	191.2	s1	29Ts	393	6
24)	55.83	191.2	s1	30D	404	7
25)	56.26	191.2	s1	29ba	125	2
26)	56.84	191.2	s2	30ab	1618	17
27)	57.19	191.2	s1	30D13	100	2
28)	57.48	191.2	s2	30ba	127	1
29)	58.43	191.2	s1	31abS	604	10
30)	58.63	191.2	s1	31abR	436	7
31)	58.94	191.2	s1	30G	136	2
32)	59.22	191.2	s1	31ba	102	2
33)	59.67	191.2	s1	32abS	442	7
34)	59.95	191.2	s1	32abR	304	5
35)	61.11	191.2	s1	33abS	349	6
36)	61.48	191.2	s1	33abR	213	3
37)	62.61	191.2	s1	34abS	175	3
38)	63.11	191.2	s1	34abR	113	2
39)	64.31	191.2	s1	35abS	118	2
40)	65.02	191.2	s1	35abR	81	1

#	Rt.min.	m/z	Rf.	Name	Height	Amount
Steranes:						
41)	38.17	217.2	s3	21aa	530	13
42)	39.83	217.2	s3	21bb	589	14
43)	39.96	217.2	s3	22aa	549	13
44)	42.19	217.2	s3	22bb	326	8
45)	48.52	217.2	s3	27dbS	1318	31
46)	49.16	217.2	s3	27dbR	722	17
47)	51.51	218.2	s3	27bbR	835	20
48)	51.66	218.2	s3	27bbS	511	12
49)	52.06	217.2	s3	27aaR	227	5
50)	53.27	218.2	s3	28bbR	444	11
51)	53.40	218.2	s3	28bbS	535	13
52)	54.36	217.2	s3	29aaS	216	5
53)	54.69	218.2	s3	29bbR	577	14
54)	54.78	218.2	s3	29bbS	520	12
55)	55.39	217.2	s3	29aaR	211	5
56)	55.87	218.2	s3	30bbR	235	6
57)	55.92	218.2	s3	30bbS	226	5

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2147_25S.D
Sample name: 24/6-2, 2147.25m sat
Data File Path: C:\HPCHEM\1\DATA\24_6_2
Misc. info.:

Vial no.: 4
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 00:25

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(R+S)) / ((\text{sum}20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%Tri	20	22
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	11	11
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	43	43
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	26	26
$100 \cdot Ts / (Ts+Tm)$	%27Ts	77	77
$100 \cdot 28ab / (28ab+30ab)$	%28ab	18	25
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	38	38
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	2	3
$100 \cdot 29ab / (29ab+30ab)$	%29ab	28	38
$100 \cdot 30ba / (30ba+30ab)$	%30ba	7	7
$100 \cdot 30D / (30D+30ab)$	%30D	20	28
$100 \cdot 30G / (30G+30ab)$	%30G	8	12
$100 \cdot 32abS / (32ab(S+R))$	%32abS	59	59
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	41	41
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	14	15
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	5	6
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	12	13
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	26	19
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	16	17
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	11	12
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	9	9
$100 \cdot 34ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	4	5
$100 \cdot 35ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	3	3

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	19	19
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	51	51
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	72	72
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	60	60
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	35	35
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	25	25
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	28	28
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	12	12

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2 2 1

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2152_75S.D
Sample name: 24/6-2, 2152.75m sat
Data File Path: C:\HPCHEM1\DATA\24_6_2\
Misc. info.:

Vial no.: 5
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 1:54

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
1)	46.00	217.2		24baa	942	24
Diterpanes:						
2)	33.64	191.2	s1	19/3	280	5
3)	35.64	191.2	s1	20/3	242	5
4)	37.67	191.2	s1	21/3	311	6
5)	41.65	191.2	s1	23/3	487	9
6)	42.77	191.2	s1	24/3	422	8
7)	45.06	191.2	s1	25/3	204	4
8)	46.58	191.2	s1	24/4	228	4
9)	46.69	191.2	s1	26/3R	157	3
10)	46.84	191.2	s1	26/3S	175	3
11)	50.36	191.2	s1	28/3R	175	3
12)	50.60	191.2	s1	28/3S	184	4
13)	51.39	191.2	s1	29/3R	273	5
14)	51.68	191.2	s1	29/3S	258	5
Triterpanes:						
15)	52.53	191.2	s1	27Ts	860	17
16)	52.77	177.2	s1	25nor28ab	48	1
17)	53.21	191.2	s1	27Tm	259	5
18)	53.55	177.2	s1	25nor29ab	53	1
19)	53.65	191.2	s1	27b	111	2
20)	54.78	191.2	s1	28ab	401	8
21)	54.91	177.2	s1	25nor30ab	85	2
22)	55.47	191.2	s1	29ab	821	16
23)	55.58	191.2	s1	29Ts	471	9
24)	55.83	191.2	s1	30D	497	10
25)	56.27	191.2	s1	29ba	194	4
26)	56.85	191.2	s2	30ab	2072	26
27)	57.18	191.2	s1	30D13	106	2
28)	57.48	191.2	s2	30ba	165	2
29)	58.44	191.2	s1	31abS	760	15
30)	58.64	191.2	s1	31abR	551	11
31)	58.97	191.2	s1	30G	180	3
32)	59.23	191.2	s1	31ba	159	3
33)	59.67	191.2	s1	32abS	582	11
34)	59.95	191.2	s1	32abR	364	7
35)	61.11	191.2	s1	33abS	434	8
36)	61.48	191.2	s1	33abR	281	5
37)	62.62	191.2	s1	34abS	224	4
38)	63.11	191.2	s1	34abR	161	3
39)	64.32	191.2	s1	35abS	148	3
40)	65.00	191.2	s1	35abR	104	2

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Steranes:						
41)	38.17	217.2	s3	21aa	616	17
42)	39.84	217.2	s3	21bb	760	21
43)	39.96	217.2	s3	22aa	686	19
44)	42.19	217.2	s3	22bb	388	11
45)	48.52	217.2	s3	27dbS	1546	43
46)	49.16	217.2	s3	27dbR	924	26
47)	51.51	218.2	s3	27bbR	976	27
48)	51.67	218.2	s3	27bbS	662	18
49)	52.06	217.2	s3	27aaR	295	8
50)	53.25	218.2	s3	28bbR	516	14
51)	53.40	218.2	s3	28bbS	695	19
52)	54.40	217.2	s3	29aaS	260	7
53)	54.68	218.2	s3	29bbR	742	21
54)	54.78	218.2	s3	29bbS	717	20
55)	55.39	217.2	s3	29aaR	230	6
56)	55.88	218.2	s3	30bbR	318	9
57)	55.91	218.2	s3	30bbS	284	8

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2152_78S.D
Sample name: 24/6-2, 2152.75m sat
Data File Path: C:\HPCHEM\1\DATA\24_6_2
Misc. info.:

Vial no.: 5
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 1:54

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3 + 26/3(R+S)) / ((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tri	19	21
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	12	12
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	44	44
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	27	27
$100 \cdot Ts / (Ts + Tm)$	%27Ts	77	77
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	16	23
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	36	36
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	4	6
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	28	38
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	7	7
$100 \cdot 30D / (30D + 30ab)$	%30D	19	27
$100 \cdot 30G / (30G + 30ab)$	%30G	8	12
$100 \cdot 32abS / (32ab(S+R))$	%32abS	62	62
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	40	40
$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	13	15
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	5	5
$100 \cdot (29ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	12	13
$100 \cdot (30ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	27	19
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	16	17
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	11	12
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	9	9
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	5	5
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	3	3

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	19	19
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	53	53
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	75	75
$100 \cdot 27db(S+R) / ((27db(S+R) + 27bb(R+S)))$	%27dia	60	60
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	33	33
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	25	25
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	30	30
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	12	12

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	2	1
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Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2164S.D
Sample name: 24/6-2, 2164.00m, mdt, sat
Data File Path: C:\HPCHEM\1\DATA\MICHAEL
Misc. info.:

Vial no.: 2
Method: MSD_S_D
Operator: Reidun
Date: 17 Nov 1998 20:25

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

#	Rt.min.	mvz	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
1)	45.97	217,2		24baa	3756	27
Diterpanes:						
2)	33,63	191,2	s1	19/3	807	4
3)	35,61	191,2	s1	20/3	660	4
4)	37,65	191,2	s1	21/3	852	5
5)	41,63	191,2	s1	23/3	1331	7
6)	42,75	191,2	s1	24/3	1171	6
7)	45,03	191,2	s1	25/3	545	3
8)	46,56	191,2	s1	24/4	597	3
9)	46,68	191,2	s1	26/3R	506	3
10)	46,81	191,2	s1	26/3S	520	3
11)	50,33	191,2	s1	28/3R	548	3
12)	50,57	191,2	s1	28/3S	585	3
13)	51,37	191,2	s1	29/3R	866	5
14)	51,65	191,2	s1	29/3S	708	4
Triterpanes:						
15)	52,51	191,2	s1	27Ts	2766	15
16)	52,76	177,2	s1	25nor28ab	76	0
17)	53,19	191,2	s1	27Tm	806	4
18)	53,54	177,2	s1	25nor29ab	161	1
19)	53,64	191,2	s1	27b	509	3
20)	54,75	191,2	s1	28ab	1322	7
21)	54,90	177,2	s1	25nor30ab	92	1
22)	55,45	191,2	s1	29ab	2543	14
23)	55,55	191,2	s1	29Ts	1605	9
24)	55,81	191,2	s1	30D	1738	9
25)	56,25	191,2	s1	29ba	564	3
26)	56,82	191,2	s2	30ab	6814	24
27)	57,16	191,2	s1	30D13	363	2
28)	57,45	191,2	s2	30ba	538	2
29)	58,41	191,2	s1	31abS	2543	14
30)	58,61	191,2	s1	31abR	1858	10
31)	58,92	191,2	s1	30G	457	2
32)	59,19	191,2	s1	31ba	508	3
33)	59,65	191,2	s1	32abS	1934	11
34)	59,92	191,2	s1	32abR	1295	7
35)	61,08	191,2	s1	33abS	1530	8
36)	61,45	191,2	s1	33abR	963	5
37)	62,59	191,2	s1	34abS	910	5
38)	63,08	191,2	s1	34abR	505	3
39)	64,29	191,2	s1	35abS	624	3
40)	64,97	191,2	s1	35abR	382	2

#	Rt.min.	mvz	Rf.	Name	Height	Amount
						ng/mg
Steranes:						
41)	38,15	217,2	s3	21aa	1970	16
42)	39,81	217,2	s3	21bb	2007	16
43)	39,94	217,2	s3	22aa	1995	16
44)	42,17	217,2	s3	22bb	1138	9
45)	48,50	217,2	s3	27dbS	5079	40
46)	49,14	217,2	s3	27dbR	2993	24
47)	51,49	218,2	s3	27bbR	3264	26
48)	51,65	218,2	s3	27bbS	2216	17
49)	52,04	217,2	s3	27aaR	974	8
50)	53,24	218,2	s3	28bbR	1844	15
51)	53,37	218,2	s3	28bbS	2291	18
52)	54,36	217,2	s3	29aaS	897	7
53)	54,66	218,2	s3	29bbR	2528	20
54)	54,76	218,2	s3	29bbS	2195	17
55)	55,37	217,2	s3	29aaR	872	7
56)	55,83	218,2	s3	30bbR	1129	9
57)	55,89	218,2	s3	30bbS	938	7

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2164S.D
 Sample name: 24/6-2, 2164.00m, mdt, sat
 Data File Path: C:\HPCHEM\1\DATA\MICHAEL
 Misc. info.:

Vial no.: 2
 Method: MSD_S_D
 Operator: Reidun
 Date: 17 Nov 1998 20:25

Terpane ratios, heights and amounts		Height	Amount
$100 \cdot ((\text{sum}20-25)/3 + 26/3(R+S)) / ((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tri	17	18
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	12	12
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	44	44
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	26	26
$100 \cdot Ts / (Ts + Tm)$	%27Ts	77	77
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	16	23
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	39	39
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	1	2
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	27	37
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	7	7
$100 \cdot 30D / (30D + 30ab)$	%30D	20	28
$100 \cdot 30G / (30G + 30ab)$	%30G	6	9
$100 \cdot 32abS / (32ab(S+R))$	%32abS	60	60
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	42	42
$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	13	14
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	5	5
$100 \cdot (29ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	11	12
$100 \cdot (30ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	26	19
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	16	17
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	12	13
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	9	10
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	5	6
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	4	4
Sterane ratios			
$100 \cdot (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	16	16
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	51	51
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	73	73
$100 \cdot 27db(S+R) / ((27db(S+R) + 27bb(R+S))$	%27dia	60	60
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	33	33
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	25	25
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	29	29
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	13	13
Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	2	1

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2165_75S.D
 Sample name: 24/6-2, 2165.27m, oil sat
 Data File Path: C:\HPCHEM\1\DATA\24_6_2
 Misc. info:
 Vial no.: 8
 Method: MSD_S_D
 Operator: Reidun
 Date: 6 Oct 1998 6:20

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added)						
1)	46.00	217.2		24baa	1395	23
Diterpanes:						
2)	33.65	191.2	s1	19/3	325	4
3)	35.63	191.2	s1	20/3	297	4
4)	37.67	191.2	s1	21/3	426	5
5)	41.65	191.2	s1	23/3	566	7
6)	42.77	191.2	s1	24/3	524	7
7)	45.11	191.2	s1	25/3	242	3
8)	46.59	191.2	s1	24/4	247	3
9)	46.69	191.2	s1	26/3R	222	3
10)	46.82	191.2	s1	26/3S	220	3
11)	50.36	191.2	s1	28/3R	207	3
12)	50.61	191.2	s1	28/3S	222	3
13)	51.40	191.2	s1	29/3R	356	4
14)	51.68	191.2	s1	29/3S	309	4
Triterpanes:						
15)	52.54	191.2	s1	27Ts	1039	13
16)	52.78	177.2	s1	25nor28ab	30	0
17)	53.21	191.2	s1	27Tm	360	4
18)	53.57	177.2	s1	25nor29ab	72	1
19)	53.65	191.2	s1	27b	131	2
20)	54.77	191.2	s1	28ab	525	7
21)	54.96	177.2	s1	25nor30ab	84	1
22)	55.47	191.2	s1	29ab	1003	12
23)	55.58	191.2	s1	29Ts	608	8
24)	55.83	191.2	s1	30D	644	8
25)	56.27	191.2	s1	29ba	225	3
26)	56.85	191.2	s2	30ab	2496	20
27)	57.18	191.2	s1	30D13	143	2
28)	57.47	191.2	s2	30ba	237	2
29)	58.44	191.2	s1	31abS	942	12
30)	58.64	191.2	s1	31abR	656	8
31)	58.98	191.2	s1	30G	228	3
32)	59.20	191.2	s1	31ba	146	2
33)	59.67	191.2	s1	32abS	674	8
34)	59.95	191.2	s1	32abR	476	6
35)	61.11	191.2	s1	33abS	508	6
36)	61.49	191.2	s1	33abR	354	4
37)	62.63	191.2	s1	34abS	263	3
38)	63.12	191.2	s1	34abR	155	2
39)	64.32	191.2	s1	35abS	183	2
40)	64.99	191.2	s1	35abR	108	1

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Steranes:						
41)	38.17	217.2	s3	21aa	858	15
42)	39.84	217.2	s3	21bb	929	17
43)	39.96	217.2	s3	22aa	838	15
44)	42.20	217.2	s3	22bb	467	8
45)	48.52	217.2	s3	27dbS	1966	35
46)	49.16	217.2	s3	27dbR	1191	21
47)	51.51	218.2	s3	27bbR	1277	23
48)	51.66	218.2	s3	27bbS	801	14
49)	52.07	217.2	s3	27aaR	368	7
50)	53.26	218.2	s3	28bbR	696	13
51)	53.40	218.2	s3	28bbS	815	15
52)	54.41	217.2	s3	29aaS	326	6
53)	54.68	218.2	s3	29bbR	975	18
54)	54.78	218.2	s3	29bbS	839	15
55)	55.40	217.2	s3	29aaR	313	6
56)	55.86	218.2	s3	30bbR	371	7
57)	55.93	218.2	s3	30bbS	347	6

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2165_75S.D
Sample name: 24/6-2, 2165.27m, oil sat
Data File Path: C:\HPCHEM\DATA\24_6_2
Misc. info.:

Vial no.: 8
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 6:20

Terpane ratios, heights and amounts		Height	Amount
$100 \cdot ((\text{sum}20-25)/3 + 26/3(R+S)) / ((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tri	20	21
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	12	12
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	42	42
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	24	24
$100 \cdot Ts / (Ts + Tm)$	%27Ts	75	75
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	17	25
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	38	38
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	3	5
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	29	38
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	9	9
$100 \cdot 30D / (30D + 30ab)$	%30D	21	29
$100 \cdot 30G / (30G + 30ab)$	%30G	8	12
$100 \cdot 32abS / (32ab(S+R))$	%32abS	59	59
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	41	41
$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	14	15
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	5	6
$100 \cdot (29ab+ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	12	13
$100 \cdot (30ab+ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	27	19
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	16	17
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	11	12
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	8	9
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	4	5
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	3	3
Sterane ratios			
$100 \cdot (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	19	19
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	51	51
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	74	74
$100 \cdot 27db(S+R) / ((27db(S+R) + 27bb(R+S)))$	%27dia	60	60
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	34	34
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	25	25
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	30	30
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	12	12
Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	2	1

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2167_00S.D

Sample name: 24/8-2, 2167.00m, oil sat

Data File Path: C:\HPCHEM1\DATA\24_6_2

Misc. info.:

Vial no.: 9
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 7:48

Response curve y = ax

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

#	Rt.min.	m/z	RI	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
1)	46.02	217.2		24baa	2954	31
Diterpanes:						
2)	33.67	191.2	s1	19/3	576	5
3)	35.64	191.2	s1	20/3	474	4
4)	37.68	191.2	s1	21/3	624	5
5)	41.66	191.2	s1	23/3	886	7
6)	42.80	191.2	s1	24/3	854	7
7)	45.06	191.2	s1	25/3	375	3
8)	46.59	191.2	s1	24/4	393	3
9)	46.71	191.2	s1	26/3R	339	3
10)	46.83	191.2	s1	26/3S	374	3
11)	50.38	191.2	s1	28/3R	349	3
12)	50.61	191.2	s1	28/3S	386	3
13)	51.41	191.2	s1	29/3R	525	4
14)	51.70	191.2	s1	29/3S	510	4
Triterpanes:						
15)	52.55	191.2	s1	27Ts	1761	14
16)	52.90	177.2	s1	25nor28ab	81	1
17)	53.22	191.2	s1	27Tm	602	5
18)	53.59	177.2	s1	25nor29ab	128	1
19)	53.89	191.2	s1	27b	428	3
20)	54.78	191.2	s1	28ab	853	7
21)	54.95	177.2	s1	25nor30ab	74	1
22)	55.48	191.2	s1	29ab	1670	13
23)	55.59	191.2	s1	29Ts	1050	8
24)	55.85	191.2	s1	30D	1044	8
25)	56.27	191.2	s1	29ba	415	3
26)	56.87	191.2	s2	30ab	4212	21
27)	57.21	191.2	s1	30D13	246	2
28)	57.50	191.2	s2	30ba	393	2
29)	58.45	191.2	s1	31abS	1601	13
30)	58.65	191.2	s1	31abR	1134	9
31)	58.98	191.2	s1	30G	350	3
32)	59.22	191.2	s1	31ba	334	3
33)	59.69	191.2	s1	32abS	1188	9
34)	59.97	191.2	s1	32abR	808	6
35)	61.13	191.2	s1	33abS	946	7
36)	61.50	191.2	s1	33abR	645	5
37)	62.64	191.2	s1	34abS	518	4
38)	63.12	191.2	s1	34abR	297	2
39)	64.34	191.2	s1	35abS	325	3
40)	65.02	191.2	s1	35abR	226	2

#	Rt.min.	m/z	RI	Name	Height	Amount
					ng/mg	
Steranes:						
41)	38.19	217.2	s3	21aa	1309	15
42)	39.85	217.2	s3	21bb	1453	16
43)	39.97	217.2	s3	22aa	1354	15
44)	42.20	217.2	s3	22bb	747	8
45)	48.54	217.2	s3	27dbS	3207	36
46)	49.18	217.2	s3	27dbR	1923	22
47)	51.53	218.2	s3	27bbR	2081	24
48)	51.68	218.2	s3	27bbS	1389	16
49)	52.08	217.2	s3	27aaR	657	7
50)	53.28	218.2	s3	28bbR	1098	12
51)	53.42	218.2	s3	28bbS	1445	16
52)	54.40	217.2	s3	29aaS	613	7
53)	54.70	218.2	s3	29bbR	1574	18
54)	54.81	218.2	s3	29bbS	1473	17
55)	55.41	217.2	s3	29aaR	528	6
56)	55.89	218.2	s3	30bbR	673	8
57)	55.93	218.2	s3	30bbS	589	7

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2167_00S.D
Sample name: 24/6-2, 2167.00m, oil sat
Data File Path: C:\HPCHEM\1\DATA\24_6_2
Misc. info.:

Vial no.: 9
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 7:48

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3 + 26/3(R+S)) / ((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tri	18	20
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	12	12
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	42	42
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	24	24
$100 \cdot Ts / (Ts + Tm)$	%27Ts	75	75
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	17	24
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	39	39
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	2	3
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	28	38
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	9	9
$100 \cdot 30D / (30D + 30ab)$	%30D	20	28
$100 \cdot 30G / (30G + 30ab)$	%30G	8	11
$100 \cdot 32abS / (32ab(S+R))$	%32abS	60	60
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	40	40
$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	13	15
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	5	5
$100 \cdot (29ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	12	13
$100 \cdot (30ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	26	19
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	16	17
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	11	13
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	9	10
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	5	5
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	3	3

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	18	18
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	54	54
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	73	73
$100 \cdot 27db(S+R) / ((27db(S+R) + 27bb(R+S))$	%27dia	60	60
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	34	34
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	25	25
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	30	30
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	12	12

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2 2 1

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
1)	45.98	217.2		24baa	7348	22
Diterpanes:						
2)	33.63	191.2	s1	19/3	137	0
3)	35.55	191.2	s1	20/3	70	0
4)	37.66	191.2	s1	21/3	72	0
5)	41.62	191.2	s1	23/3	145	0
6)	42.75	191.2	s1	24/3	97	0
7)	45.09	191.2	s1	25/3	57	0
8)	46.56	191.2	s1	24/4	68	0
9)	46.67	191.2	s1	26/3R	45	0
10)	46.81	191.2	s1	26/3S	47	0
11)	50.32	191.2	s1	28/3R	35	0
12)	50.56	191.2	s1	28/3S	44	0
13)	51.35	191.2	s1	29/3R	49	0
14)	51.66	191.2	s1	29/3S	59	0
Triterpanes:						
15)	52.50	191.2	s1	27Ts	149	0
16)	52.76	177.2	s1	25nor28ab	1203	3
17)	53.19	191.2	s1	27Tm	112	0
18)	53.60	177.2	s1	25nor29ab	247	1
19)	53.71	191.2	s1	27b	249	1
20)	54.73	191.2	s1	28ab	301	1
21)	55.03	177.2	s1	25nor30ab	106	0
22)	55.48	191.2	s1	29ab	294	1
23)	55.56	191.2	s1	29Ts	145	0
24)	55.80	191.2	s1	30D	121	0
25)	56.26	191.2	s1	29ba	120	0
26)	56.83	191.2	s2	30ab	516	1
27)	57.17	191.2	s1	30D13	80	0
28)	57.45	191.2	s2	30ba	96	0
29)	58.42	191.2	s1	31abS	185	0
30)	58.61	191.2	s1	31abR	259	1
31)	58.96	191.2	s1	30G	47	0
32)	59.13	191.2	s1	31ba	88	0
33)	59.66	191.2	s1	32abS	121	0
34)	59.93	191.2	s1	32abR	159	0
35)	61.08	191.2	s1	33abS	81	0
36)	61.45	191.2	s1	33abR	93	0
37)	62.60	191.2	s1	34abS	56	0
38)	63.07	191.2	s1	34abR	57	0
39)	64.29	191.2	s1	35abS	31	0
40)	64.97	191.2	s1	35abR	59	0

Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2173_30S.D
Sample name: 24/6-2, 2173.30m sat
Data File Path: C:\HPCHEM1\DATA\24_6_2
Misc. info.:

Vial no.: 6
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 3:22

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Steranes:						
41)	38.16	217.2	s3	21aa	112	0
42)	39.82	217.2	s3	21bb	146	0
43)	39.94	217.2	s3	22aa	104	0
44)	42.17	217.2	s3	22bb	87	0
45)	48.50	217.2	s3	27abS	282	1
46)	49.14	217.2	s3	27abR	166	1
47)	51.49	218.2	s3	27bbR	175	1
48)	51.64	218.2	s3	27bbS	109	0
49)	52.04	217.2	s3	27aaR	100	0
50)	53.25	218.2	s3	28bbR	89	0
51)	53.39	218.2	s3	28bbS	108	0
52)	54.38	217.2	s3	29aaS	63	0
53)	54.67	218.2	s3	29bbR	124	0
54)	54.77	218.2	s3	29bbS	117	0
55)	55.39	217.2	s3	29aaR	132	0
56)	55.86	218.2	s3	30bbR	34	0
57)	55.91	218.2	s3	30bbS	35	0

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2173_30S.D
Sample name: 24/6-2, 2173.30m sat
Data File Path: C:\HPCHEM\1\DATA\24_6_2
Misc. info.:

Vial no.: 6
Method: MSD_S_D
Operator: Reidun
Date: 6 Oct 1998 3:22

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3 + 26/3(R+S)) / ((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tri	17	18
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	13	13
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	48	48
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	31	31
$100 \cdot Ts / (Ts + Tm)$	%27Ts	57	57
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	37	48
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	33	33
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	17	24
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	36	47
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	16	16
$100 \cdot 30D / (30D + 30ab)$	%30D	19	27
$100 \cdot 30G / (30G + 30ab)$	%30G	8	12
$100 \cdot 32abS / (32ab(S+R))$	%32abS	43	43
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	44	44

$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	10	11
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	11	12
$100 \cdot (29ab+ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	15	17
$100 \cdot (30ab+ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	23	16
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	17	18
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	10	11
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	6	7
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	4	5
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	3	4

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	23	23
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	32	32
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	55	55
$100 \cdot 27db(S+R) / ((27db(S+R) + 27bb(R+S)))$	%27dia	61	61
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	36	36
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	25	25
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	30	30
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	9	9

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

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2179_50S.D
 Sample name: 24/6-2, 2179.50m sat
 Data File Path: C:\HPCHEM\1\DATA\24 6 2\
 Misc. info.:
 Vial no.: 7
 Method: MSD_S_D
 Operator: Reidun
 Date: Tue Oct 06 06:13:30 1998
 Response curve y = ax
 Response factor groups: s1...s3, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng	mg
Internal standard (if added):						
1)	45.98	217.2		24baa	6302	22
Diterpanes:						
2)	33.62	191.2	s1	19/3	148	0
3)	35.54	191.2	s1	20/3	68	0
4)	37.65	191.2	s1	21/3	69	0
5)	41.63	191.2	s1	23/3	190	1
6)	42.75	191.2	s1	24/3	118	0
7)	45.04	191.2	s1	25/3	54	0
8)	46.57	191.2	s1	24/4	81	0
9)	46.67	191.2	s1	26/3R	29	0
10)	46.82	191.2	s1	26/3S	40	0
11)	50.33	191.2	s1	28/3R	35	0
12)	50.56	191.2	s1	28/3S	33	0
13)	51.35	191.2	s1	29/3R	41	0
14)	51.63	191.2	s1	29/3S	43	0
Triterpanes:						
15)	52.50	191.2	s1	27Ts	98	0
16)	52.76	177.2	s1	25nor28ab	728	2
17)	53.19	191.2	s1	27Tm	102	0
18)	53.55	177.2	s1	25nor29ab	122	0
19)	53.72	191.2	s1	27b	383	1
20)	54.72	191.2	s1	28ab	235	1
21)	55.02	177.2	s1	25nor30ab	70	0
22)	55.45	191.2	s1	29ab	240	1
23)	55.56	191.2	s1	29Ts	100	0
24)	55.80	191.2	s1	30D	64	0
25)	56.26	191.2	s1	29ba	72	0
26)	56.82	191.2	s2	30ab	359	1
27)	57.19	191.2	s1	30D13	51	0
28)	57.45	191.2	s2	30ba	83	0
29)	58.42	191.2	s1	31abS	147	0
30)	58.62	191.2	s1	31abR	161	0
31)	58.96	191.2	s1	30G	26	0
32)	59.13	191.2	s1	31ba	56	0
33)	59.67	191.2	s1	32abS	83	0
34)	59.92	191.2	s1	32abR	86	0
35)	61.08	191.2	s1	33abS	43	0
36)	61.46	191.2	s1	33abR	53	0
37)	62.60	191.2	s1	34abS	26	0
38)	63.08	191.2	s1	34abR	27	0
39)	64.31	191.2	s1	35abS	19	0
40)	65.00	191.2	s1	35abR	32	0

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

Steranes:						
41)	38.15	217.2	s3	21aa	78	0
42)	39.82	217.2	s3	21bb	99	0
43)	39.93	217.2	s3	22aa	62	0
44)	42.16	217.2	s3	22bb	67	0
45)	48.51	217.2	s3	27dbS	162	1
46)	49.14	217.2	s3	27dbR	117	0
47)	51.49	218.2	s3	27bbR	123	0
48)	51.63	218.2	s3	27bbS	71	0
49)	52.04	217.2	s3	27aaR	81	0
50)	53.24	218.2	s3	28bbR	54	0
51)	53.37	218.2	s3	28bbS	62	0
52)	54.37	217.2	s3	29aaS	37	0
53)	54.67	218.2	s3	29bbR	90	0
54)	54.77	218.2	s3	29bbS	70	0
55)	55.37	217.2	s3	29aaR	106	0
56)	55.85	218.2	s3	30bbR	14	0
57)	55.90	218.2	s3	30bbS	10	0

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2179_50S.D
Sample name: 24/6-2, 2179.50m sat
Data File Path: C:\HPCHEM\1\DATA\24 6 2
Misc. info.:

Vial no.: 7
Method: MSD_S_D
Operator: Reidun
Date: Tue Oct 06 06:13:30 1998

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3 + 26/3(R+S)) / ((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tri	23	25
$100 \cdot 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	12	12
$100 \cdot 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	52	52
$100 \cdot 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	32	32
$100 \cdot Ts / (Ts + Tm)$	%27Ts	49	49
$100 \cdot 28ab / (28ab + 30ab)$	%28ab	40	50
$100 \cdot 29Ts / (29Ts + 29ab)$	%29Ts	29	29
$100 \cdot 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	16	23
$100 \cdot 29ab / (29ab + 30ab)$	%29ab	40	51
$100 \cdot 30ba / (30ba + 30ab)$	%30ba	19	19
$100 \cdot 30D / (30D + 30ab)$	%30D	15	22
$100 \cdot 30G / (30G + 30ab)$	%30G	7	10
$100 \cdot 32abS / (32ab(S+R))$	%32abS	49	49
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	49	49
$100 \cdot (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	11	12
$100 \cdot (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	13	14
$100 \cdot (29ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	17	18
$100 \cdot (30ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	24	17
$100 \cdot 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	17	18
$100 \cdot 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	9	10
$100 \cdot 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	5	6
$100 \cdot 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	3	3
$100 \cdot 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	3	3

Sterane ratios

$100 \cdot (21 + 22)bb / ((21 + 22)bb + (27 + 28 + 29 + 30)bb(R+S))$	%Preg	25	25
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	26	26
$100 \cdot 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	53	53
$100 \cdot 27db(S+R) / ((27db(S+R) + 27bb(R+S))$	%27dia	59	59
$100 \cdot 27bb(R+S) / (27 + 28 + 29 + 30)bb(R+S)$	%27STER	39	39
$100 \cdot 28bb(R+S) / (27 + 28 + 29 + 30)bb(R+S)$	%28STER	23	23
$100 \cdot 29bb(R+S) / (27 + 28 + 29 + 30)bb(R+S)$	%29STER	32	32
$100 \cdot 30bb(R+S) / (27 + 28 + 29 + 30)bb(R+S)$	%30STER	5	5

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2	4	2
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Saturated biomarkers

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 24_6_2.D
Sample name: 24/6-2, 2673,sat
Data File Path: K:\CAP\MSE\FIDW95\CANADA41
Misc. info:

Vial no.: 12
Method: MSD_S_D
Operator: Birthe
Date: 21 Jul 1998 10:27

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added)						
1)	46.10	217.2		24baa	3898	22
Diterpanes:						
2)	33.74	191.2	s1	19/3	553	2
3)	35.72	191.2	s1	20/3	464	2
4)	37.77	191.2	s1	21/3	624	3
5)	41.75	191.2	s1	23/3	1372	6
6)	42.86	191.2	s1	24/3	1014	5
7)	45.15	191.2	s1	25/3	488	2
8)	46.68	191.2	s1	24/4	665	3
9)	46.78	191.2	s1	26/3R	420	2
10)	46.92	191.2	s1	26/3S	414	2
11)	50.45	191.2	s1	28/3R	492	2
12)	50.69	191.2	s1	28/3S	522	2
13)	51.48	191.2	s1	29/3R	679	3
14)	51.78	191.2	s1	29/3S	609	3
Triterpanes:						
15)	52.63	191.2	s1	27Ts	1956	9
16)	52.86	177.2	s1	25nor28ab	145	1
17)	53.30	191.2	s1	27Tm	936	4
18)	53.67	177.2	s1	25nor29ab	203	1
19)	53.75	191.2	s1	27b	348	2
20)	54.88	191.2	s1	28ab	423	2
21)	55.06	177.2	s1	25nor30ab	130	1
22)	55.57	191.2	s1	29ab	2089	9
23)	55.68	191.2	s1	29Ts	828	4
24)	55.91	191.2	s1	30D	1063	5
25)	56.36	191.2	s1	29ba	235	1
26)	56.94	191.2	s2	30ab	2338	7
27)	57.29	191.2	s1	30D13	64	0
28)	57.58	191.2	s2	30ba	264	1
29)	58.53	191.2	s1	31abS	887	4
30)	58.72	191.2	s1	31abR	759	3
31)	59.05	191.2	s1	30G	293	1
32)	59.16	191.2	s1	31ba	149	1
33)	59.77	191.2	s1	32abS	596	3
34)	60.03	191.2	s1	32abR	377	2
35)	61.20	191.2	s1	33abS	431	2
36)	61.59	191.2	s1	33abR	278	1
37)	62.70	191.2	s1	34abS	276	1
38)	63.21	191.2	s1	34abR	176	1
39)	64.43	191.2	s1	35abS	161	1
40)	65.12	191.2	s1	35abR	97	0

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Steranes:						
41)	38.27	217.2	s3	21aa	1273	8
42)	39.93	217.2	s3	21bb	1480	10
43)	40.05	217.2	s3	22aa	1506	10
44)	42.29	217.2	s3	22bb	648	4
45)	48.62	217.2	s3	27dbS	3463	22
46)	49.26	217.2	s3	27dbR	2151	14
47)	51.61	218.2	s3	27bbR	1749	11
48)	51.76	218.2	s3	27bbS	1117	7
49)	52.17	217.2	s3	27aaR	641	4
50)	53.36	218.2	s3	28bbR	785	5
51)	53.49	218.2	s3	28bbS	1125	7
52)	54.46	217.2	s3	29aaS	427	3
53)	54.78	218.2	s3	29bbR	1265	8
54)	54.88	218.2	s3	29bbS	1103	7
55)	55.48	217.2	s3	29aaR	425	3
56)	55.96	218.2	s3	30bbR	474	3
57)	56.00	218.2	s3	30bbS	430	3

Saturated biomarkers

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 24_6_2.D
Sample name: 24/6-2, 2673.sat
Data File Path: K:\CAP\MS\FIDW95\CANADA\A
Misc. info.:

Vial no.: 12
Method: MSD_S_D
Operator: Birthe
Date: 21 Jul 1998 10:27

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(R+S)) / ((\text{sum}20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%Tn	28	30
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	10	10
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	48	48
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	31	31
$100 \cdot Ts / (Ts+Tm)$	%27Ts	68	68
$100 \cdot 28ab / (28ab+30ab)$	%28ab	15	22
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	28	28
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	5	8
$100 \cdot 29ab / (29ab+30ab)$	%29ab	47	58
$100 \cdot 30ba / (30ba+30ab)$	%30ba	10	10
$100 \cdot 30D / (30D+30ab)$	%30D	31	41
$100 \cdot 30G / (30G+30ab)$	%30G	11	16
$100 \cdot 32abS / (32ab(S+R))$	%32abS	61	61
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	36	36
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	24	25
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	3	4
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	19	20
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	21	15
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	13	15
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	8	9
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	6	6
$100 \cdot 34ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	4	4
$100 \cdot 35ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	2	2

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	21	21
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	50	50
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	74	74
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	66	66
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	36	36
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	24	24
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	29	29
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	11	11

Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	2	1
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Page

Appendix IV

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

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.40	136		d8N	81607	43
16)	20.84	154		d10B	56514	42
59)	29.21	188		d10P	16409	43
79)	44.66	240		d12C	13541	43
Aryl isoprenoids:						
1)	20.53	133	0	C13AI	10	
2)	22.37	133	0	C14AI	12	
3)	26.68	133	0	C15AI	12	
4)	29.00	133	0	C16AI	15	
5)	30.99	133	0	C17AI	15	
6)	34.04	133	0	C18AI	25	
7)	35.00	133	0	C19AI	12	
8)	37.99	133	0	C20AI	20	
9)	40.01	133	0	C21AI	7	
10)	43.01	133	0	C22AI	20	
11)	44.94	133	0	C23AI	10	
12)	55.97	133	0	C30AI	9	
13)	56.99	133	0	C31AI	29	
Naphthalenes:						
15)	11.49	128	a1	N	1508	1
17)	15.05	142	a2	2-MN	1300	1
18)	15.60	142	a2	1-MN	841	0
19)	18.24	156	a3	2-EN	84	0
20)	18.35	156	a3	1-EN	31	0
21)	18.57	156	a3	2.6+2.7-DMN	293	0
22)	19.02	156	a3	1.3+1.7-DMN	420	0
23)	19.13	156	a3	1.6-DMN	350	0
24)	19.62	156	a3	2.3+1.4-DMN	168	0
25)	19.74	156	a3	1.5-DMN	106	0
26)	20.11	156	a3	1.2-DMN	78	0
27)	21.80	170	a4	C3-N-1	25	0
28)	22.15	170	a4	C3-N-2	30	0
29)	22.28	170	a4	1.3.7-TMN	108	0
30)	22.41	170	a4	1.3.6-TMN	165	0
31)	22.89	170	a4	1.3.5+1.4.6-TMN	144	0
32)	22.97	170	a4	2.3.6-TMN	107	0
33)	23.37	170	a4	1.6.7+1.2.7-TMN	92	0
34)	23.44	170	a4	1.2.6-TMN	58	0
35)	23.88	170	a4	1.2.4-TMN	18	0
36)	24.07	170	a4	1.2.5-TMN	65	0
Biphenyls:						
37)	17.78	154	a5	BP	395	0
38)	21.07	168	a5	3-MBP	259	0
39)	21.33	168	a5	4-MBP	104	0
40)	21.38	182	a4	2.3'-DMBP	9	0
41)	21.58	182	a4	2.5'-DMBP	6	0
42)	21.76	182	a4	2.4+2.4'-DMBP	11	0
43)	22.38	182	a4	2.3'-DMBP	16	0
44)	23.77	182	a4	3-EBP	21	0
45)	24.10	182	a4	3.5'-DMBP	36	0
46)	24.19	182	a4	3.3'-DMBP	85	0
47)	24.27	182	a4	4-EBP	23	0
48)	24.48	182	a4	3.4'-DMBP	81	0
49)	24.71	182	a4	4.4'-DMBP	22	0
50)	25.26	182	a4	3.4'-DMBP	34	0

Aromatic hydrocarbons
GC/MS detection HP-6890/5973
Compound data



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

Data file name: 2096_00A.D
Sample name: 24/6-2, 2096.00m, mud aro
Data File Path: C:\HPCHEM\1\DATA\24_6_2\
Misc. info.:

Vial no.: 24
Method: MSD_A_D
Operator: Reidun
Date: Wed Oct 07 14:00:24 1998

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Dibenzofuranes:						
51)	21.95	168	a5	DBF	268	0
52)	25.04	182	a4	MDBF-1	74	0
53)	25.40	182	a4	MDBF-2	61	0
54)	25.69	182	a4	MDBF-3	30	0
Fluorenes:						
55)	23.91	166	a6	F	174	0
56)	27.19	180	a6	C1-F-1	26	0
57)	27.36	180	a6	C1-F-2	60	0
58)	27.66	180	a6	1-MF	17	0
Dibenzothiophenes:						
60)	28.60	184	a7	DBT	66	0
61)	31.22	198	a7	4-MDBT	61	0
62)	31.74	198	a7	3+2-MDBT	16	0
63)	32.32	198	a7	1-MDBT	15	0
Phenanthrenes:						
64)	29.32	178	a8	P	1317	0
65)	32.26	192	a9	3-MP	155	0
66)	32.40	192	a9	2-MP	171	0
67)	32.88	192	a9	9-MP	172	0
68)	33.00	192	a9	1-MP	135	0
69)	34.99	206	a10	2EP+9EP+3.6-DMP	33	0
70)	35.21	206	a10	1EP	43	0
71)	35.32	206	a10	2.6+2.7+3.5-DMP	25	0
72)	35.63	206	a10	1.3+2.10+3.9+3.10-DMP	136	0
73)	35.80	206	a10	1.6+2.5+2.9-DMP	82	0
74)	35.93	206	a10	1.7-DMP	231	0
75)	36.07	206	a10	2.3-DMP	20	0
76)	36.19	206	a10	1.9+4.9+4.10-DMP	29	0
77)	36.49	206	a10	1.8-DMP	21	0
Retene:						
78)	39.80	219	a8	Retene	47	0
Triaromatic steroids:						
80)	44.26	231	a11	20TA	11	0
81)	46.14	231	a11	21TA	14	0
82)	53.14	231	a11	S26TA	3	0
83)	54.29	231	a11	R26TA/S27TA	22	0
84)	55.30	231	a11	S28TA	22	0
85)	55.81	231	a11	R27TA	16	0
86)	57.01	231	a11	R28TA	15	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2096_00A.D
 Sample name: 24/6-2, 2096.00m, mud aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_2\1
 Misc. info.:
 Vial no.: 24
 Method: MSD_A_D
 Operator: Reidun
 Date: Wed Oct 07 14:00:24 1998

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	1508	1
C1 Naphthanes	Sum C1 Naphthanes	2141	1
C2 Naphthanes	Sum C2 Naphthanes	1530	1
C3 Naphthanes	Sum C3 Naphthanes	812	0
Phenanthrene	Phenanthrene	1317	0
C1 Phenanthrenes	Sum C1 Phenanthrenes	633	0
C2 Phenanthrenes	Sum C2 Phenanthrenes	620	0
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.3	0.3
$(3MP+2MPI)/(3MP+2MP+9MP+1MP)$	F1	0.5	0.5
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.3	0.3
$(2.6+2.7)DMN/1.5DMN$	DNR	2.8	2.8
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	22.9	22.9
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.1	0.2
BP/1.6DMN	BP/1.6DMN	1.1	0.8
2MN/1MN	2MN/1MN	1.5	1.5
2EN/1EN	2EN/1EN	2.7	2.7
4MDBT/1MDBT	4MDBT/1MDBT	4.1	4.1

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
14)	11.44	136		IBN	14359	52
16)	20.87	164		310BP	16503	50
59)	29.23	158		310P	33249	52
79)	44.66	240		d12C	23169	52
Aryl isoprenoids:						
1)	20.55	133	0	C13AI	952	
2)	22.37	133	0	C14AI	2571	
3)	26.70	133	0	C15AI	4430	
4)	28.95	133	0	C16AI	852	
5)	30.99	133	0	C17AI	1027	
6)	34.06	133	0	C18AI	944	
7)	35.02	133	0	C19AI	434	
8)	38.01	133	0	C20AI	633	
9)	39.92	133	0	C21AI	108	
10)	43.01	133	0	C22AI	282	
11)	45.08	133	0	C23AI	205	
12)	56.04	133	0	C30AI	54	
13)	56.99	133	0	C31AI	47	
Naphthalenes:						
15)	11.53	128	a1	N	7184	24
17)	15.10	142	a2	2-MN	18950	57
18)	15.64	142	a2	1-MN	15441	46
19)	18.26	156	a3	2-EN	3805	11
20)	18.38	156	a3	1-EN	1720	5
21)	18.61	156	a3	2.6+2.7-DMN	31605	89
22)	19.06	156	a3	1.3+1.7-DMN	62895	177
23)	19.17	156	a3	1.6-DMN	44117	124
24)	19.66	156	a3	2.3+1.4-DMN	20754	58
25)	19.76	156	a3	1.5-DMN	14088	40
26)	20.13	156	a3	1.2-DMN	7371	21
27)	21.83	170	a4	C3-N-1	5122	15
28)	22.19	170	a4	C3-N-2	6878	20
29)	22.31	170	a4	1.3.7-TMN	49497	142
30)	22.45	170	a4	1.3.6-TMN	67831	194
31)	22.92	170	a4	1.3.5+1.4.6-TMN	60553	173
32)	23.00	170	a4	2.3.6-TMN	39968	114
33)	23.42	170	a4	1.6.7+1.2.7-TMN	33475	96
34)	23.47	170	a4	1.2.6-TMN	15310	44
35)	23.90	170	a4	1.2.4-TMN	4160	12
36)	24.10	170	a4	1.2.5-TMN	13653	39
Biphenyls:						
37)	17.82	154	a5	BP	15988	32
38)	21.10	168	a5	3-MBP	58403	111
39)	21.35	168	a5	4-MBP	24063	47
40)	21.42	182	a4	2.3'-DMBP	1587	5
41)	21.62	182	a4	2.5-DMBP	865	2
42)	21.79	182	a4	2.4+2.4'-DMBP	1953	6
43)	22.41	182	a4	2.3-DMBP	4114	12
44)	23.78	182	a4	3-EBP	5098	15
45)	24.12	182	a4	3.5-DMBP	13878	40
46)	24.22	182	a4	3.3'-DMBP	33362	96
47)	24.33	182	a4	4-EBP	2198	6
48)	24.51	182	a4	3.4'-DMBP	32865	94
49)	24.73	182	a4	4.4'-DMBP	7585	22
50)	25.27	182	a4	3.4-DMBP	13449	39

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2096_50A.D
Sample name: 24/6-2, 2096.50m aro
Data File Path: C:\HPCHEM\1\DATA\24_6_2\1
Misc. info.:
Vial no.: 16
Method: MSD_A_D
Operator: Reidun
Date: Tue Oct 06 22:27:57 1998

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Dibenzofuranes:						
51)	21.98	168	a5	DBF	4970	10
52)	25.06	182	a4	MDBF-1	9637	28
53)	25.41	182	a4	MDBF-2	4411	13
54)	25.72	182	a4	MDBF-3	6547	19
Fluorenes:						
55)	23.94	166	a6	F	7924	19
56)	27.21	180	a6	C1-F-1	5051	12
57)	27.38	180	a6	C1-F-2	20976	50
58)	27.69	180	a6	1-MF	1748	4
Dibenzothiophenes:						
60)	28.63	184	a7	DBT	16782	8
61)	31.24	198	a7	4-MDBT	32614	15
62)	31.76	198	a7	3+2-MDBT	7254	3
63)	32.34	198	a7	1-MDBT	5752	3
Phenanthrenes:						
64)	29.34	178	a8	P	104996	137
65)	32.28	192	a9	3-MP	44504	68
66)	32.43	192	a9	2-MP	52471	81
67)	32.90	192	a9	9-MP	84830	130
68)	33.03	192	a9	1-MP	64208	99
69)	35.01	206	a10	2EP+9EP+3.6-DMP	8876	13
70)	35.23	206	a10	1EP	17652	26
71)	35.33	206	a10	2.6+2.7+3.5-DMP	9633	14
72)	35.67	206	a10	1.3+2.10+3.9+3.10-DMP	79402	117
73)	35.82	206	a10	1.6+2.5+2.9-DMP	39916	59
74)	35.95	206	a10	1.7-DMP	32458	48
75)	36.10	206	a10	2.3-DMP	10105	15
76)	36.21	206	a10	1.9+4.9+4.10-DMP	24460	36
77)	36.52	206	a10	1.8-DMP	10068	15
Retene:						
78)	39.82	219	a8	Retene	2384	3
Triaromatic steroids:						
80)	44.29	231	a11	20TA	2825	1
81)	46.15	231	a11	21TA	2597	1
82)	53.12	231	a11	S26TA	674	0
83)	54.32	231	a11	R26TA/S27TA	1713	1
84)	55.32	231	a11	S28TA	813	0
85)	55.81	231	a11	R27TA	719	0
86)	57.04	231	a11	R28TA	736	0

Aromatic hydrocarbons

GC/MS detection: HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2098_50A.D
Sample name: 24/6-2, 2098.50m aro
Data File Path: C:\HPCHEM\1\DATA\24_6_2\1
Misc. info.:

Vial no.: 16
Method: MSD_A_D
Operator: Reidun
Date: Tue Oct 06 22:27:57 1998

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	7184	24
C1 Naphthanes	Sum C1 Naphthanes	34391	103
C2 Naphthanes	Sum C2 Naphthanes	186355	525
C3 Naphthanes	Sum C3 Naphthanes	296447	849
Phenanthrene	Phenanthrene	104996	137
C1 Phenanthrenes	Sum C1 Phenanthrenes	246013	378
C2 Phenanthrenes	Sum C2 Phenanthrenes	232570	342
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.6	0.6
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	2.2	2.2
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	64.6	64.6
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.1	0.1
BP/1.6DMN	BP/1.6DMN	0.4	0.3
2MN/1MN	2MN/1MN	1.2	1.2
2EN/1EN	2EN/1EN	2.2	2.2
4MDBT/1MDBT	4MDBT/1MDBT	5.7	5.7

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2124_50A.D
Sample name: 246-2, 2124.50m aro
Data File Path: C:\HPCHEM\1\DATA\24_6_2\1
Misc. info.:
Vial no.: 17
Method: MSD_A_D
Operator: Reidun
Date: Tue Oct 06 23:56:30 1998
Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	rvz	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.45	136		dBN	49027	42
16)	20.67	164		d10BP	56213	41
59)	29.24	189		d10P	95644	42
79)	44.68	240		d12C	79793	42

Aryl isoprenoids:						
1)	20.55	133	0	C13AI	726	
2)	22.37	133	0	C14AI	555	
3)	26.71	133	0	C15AI	7197	
4)	28.96	133	0	C16AI	1090	
5)	30.98	133	0	C17AI	1951	
6)	34.07	133	0	C18AI	2158	
7)	35.03	133	0	C19AI	1095	
8)	38.01	133	0	C20AI	2929	
9)	40.00	133	0	C21AI	143	
10)	43.01	133	0	C22AI	433	
11)	44.96	133	0	C23AI	178	
12)	55.97	133	0	C30AI	88	
13)	57.00	133	0	C31AI	57	

Naphthalenes:						
15)	11.54	128	a1	N	27572	22
17)	15.09	142	a2	2-MN	56428	39
18)	15.64	142	a2	1-MN	42714	30
19)	18.26	156	a3	2-EN	4842	3
20)	18.37	156	a3	1-EN	2213	1
21)	18.60	156	a3	2,6+2,7-DMN	47005	31
22)	19.06	156	a3	1,3+1,7-DMN	84974	56
23)	19.16	156	a3	1,6-DMN	63852	42
24)	19.66	156	a3	2,3+1,4-DMN	31099	20
25)	19.76	156	a3	1,5-DMN	19487	13
26)	20.14	156	a3	1,2-DMN	10730	7
27)	21.82	170	a4	C3-N-1	5938	4
28)	22.19	170	a4	C3-N-2	8711	6
29)	22.31	170	a4	1,3,7-TMN	65739	44
30)	22.45	170	a4	1,3,6-TMN	93251	62
31)	22.93	170	a4	1,3,5+1,4,6-TMN	89223	60
32)	23.01	170	a4	2,3,6-TMN	59784	40
33)	23.41	170	a4	1,6,7+1,2,7-TMN	50287	34
34)	23.46	170	a4	1,2,6-TMN	23104	15
35)	23.91	170	a4	1,2,4-TMN	6308	4
36)	24.11	170	a4	1,2,5-TMN	21222	14

Biphenyls:						
37)	17.81	154	a5	BP	37348	17
38)	21.10	168	a5	3-MBP	77652	36
39)	21.36	168	a5	4-MBP	35374	16
40)	21.41	182	a4	2,3'-DMBP	1535	1
41)	21.62	182	a4	2,5-DMBP	885	1
42)	21.80	182	a4	2,4+2,4'-DMBP	2053	1
43)	22.41	182	a4	2,3-DMBP	5169	3
44)	23.79	182	a4	3-EBP	7373	5
45)	24.12	182	a4	3,5-DMBP	18931	13
46)	24.23	182	a4	3,3'-DMBP	48624	32
47)	24.33	182	a4	4-EBP	3509	2
48)	24.52	182	a4	3,4'-DMBP	47706	32
49)	24.72	182	a4	4,4'-DMBP	11472	8
50)	25.28	182	a4	3,4-DMBP	22240	15

#	Rt.min.	rvz	Rf.	Name	Height	Amount
						ng/mg

Dibenzofuranes:						
51)	21.97	168	a5	DBF	11380	5
52)	25.05	182	a4	MDBF-1	17053	11
53)	25.42	182	a4	MDBF-2	9220	6
54)	25.71	182	a4	MDBF-3	12788	9

Fluorenes:						
55)	23.93	166	a6	F	14097	8
56)	27.22	180	a6	C1-F-1	8984	5
57)	27.39	180	a6	C1-F-2	38406	21
58)	27.70	180	a6	1-MF	2502	1

Dibenzothiophenes:						
60)	28.63	184	a7	DBT	39051	5
61)	31.25	198	a7	4-MDBT	68566	9
62)	31.77	198	a7	3+2-MDBT	14772	2
63)	32.35	198	a7	1-MDBT	10915	1

Phenanthrenes:						
64)	29.37	178	a8	P	245672	91
65)	32.30	192	a9	3-MP	92505	40
66)	32.44	192	a9	2-MP	114106	50
67)	32.92	192	a9	9-MP	180151	78
68)	33.05	192	a9	1-MP	142949	62
69)	35.03	206	a10	2EP+9EP+3,6-DMP	17272	7
70)	35.24	206	a10	1EP	36496	15
71)	35.34	206	a10	2,6+2,7+3,5-DMP	21946	9
72)	35.69	206	a10	1,3+2,10+3,9+3,10-DMP	158223	66
73)	35.83	206	a10	1,6+2,5+2,9-DMP	93116	39
74)	35.97	206	a10	1,7-DMP	78490	33
75)	36.11	206	a10	2,3-DMP	22163	9
76)	36.22	206	a10	1,9+4,9+4,10-DMP	54607	23
77)	36.52	206	a10	1,8-DMP	22126	9

Retene:						
78)	39.83	219	a8	Retene	3949	1

Triaromatic steroids:						
80)	44.30	231	a11	20TA	4873	1
81)	46.16	231	a11	21TA	4396	1
82)	53.12	231	a11	S26TA	742	0
83)	54.32	231	a11	R26TA/S27TA	1932	0
84)	55.32	231	a11	S28TA	967	0
85)	55.81	231	a11	R27TA	859	0
86)	57.04	231	a11	R28TA	834	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios from heights and amounts



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

Data file name: 2124_50A.D
 Sample name: 24/6-2, 2124.50m aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_2\
 Misc. info.:
 Vial no.: 17
 Method: MSD_A_D
 Operator: Reidun
 Date: Tue Oct 06 23:56:30 1998

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	27572	22
C1 Naphthanes	Sum C1 Naphthanes	99142	69
C2 Naphthanes	Sum C2 Naphthanes	264202	173
C3 Naphthanes	Sum C3 Naphthanes	423567	283
Phenanthrene	Phenanthrene	245672	91
C1 Phenanthrenes	Sum C1 Phenanthrenes	529711	230
C2 Phenanthrenes	Sum C2 Phenanthrenes	504439	210
3/2*(3MP+2MP)/(P+9MP+1MP)	MP11	0.5	0.6
(3MP+2MP)/(3MP+2MP+9MP+1MP)	F1	0.4	0.4
2MP/(3MP+2MP+9MP+1MP)	F2	0.2	0.2
(2.6+2.7)DMN/1.5DMN	DNR	2.4	2.4
100*20TA/(20TA+S28TA+R28TA)	%-TAS'n	73.0	73.0
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.1	0.1
BP/1.6DMN	BP/1.6DMN	0.6	0.4
2MN/1MN	2MN/1MN	1.3	1.3
2EN/1EN	2EN/1EN	2.2	2.2
4MDBT/1MDBT	4MDBT/1MDBT	6.3	6.3

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2147_25A.D
Sample name: 24/6-2, 2147.25m aro
Data File Path: C:\HPCHEM\1\DATA\24_6_2\
Misc. info.:
Vial no.: 18
Method: MSD_A_D
Operator: Reidun
Date: Wed Oct 07 01:25:03 1998
Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added)						
14)	11.46	136		DBN	8945	39
16)	20.87	184		DBF	11445	37
59)	29.23	188		DMB	24378	39
79)	44.67	240		DBT	18840	39

Aryl isoprenoids:

1)	20.55	133	0	C13AI	1651	
2)	22.37	133	0	C14AI	855	
3)	26.71	133	0	C15AI	6696	
4)	28.96	133	0	C16AI	1278	
5)	31.00	133	0	C17AI	1804	
6)	34.07	133	0	C18AI	1733	
7)	35.02	133	0	C19AI	758	
8)	38.02	133	0	C20AI	1162	
9)	39.95	133	0	C21AI	349	
10)	43.02	133	0	C22AI	578	
11)	45.07	133	0	C23AI	498	
12)	55.98	133	0	C30AI	99	
13)	57.00	133	0	C31AI	26	

Naphthalenes:

15)	11.53	128	a1	N	2983	12
17)	15.09	142	a2	2-MN	35557	109
18)	15.64	142	a2	1-MN	32143	99
19)	18.26	156	a3	2-EN	8930	26
20)	18.38	156	a3	1-EN	3830	11
21)	18.61	156	a3	2.6+2.7-DMN	71805	207
22)	19.06	156	a3	1.3+1.7-DMN	128122	369
23)	19.17	156	a3	1.6-DMN	97977	282
24)	19.66	156	a3	2.3+1.4-DMN	40324	116
25)	19.76	156	a3	1.5-DMN	26950	78
26)	20.13	156	a3	1.2-DMN	13508	39
27)	21.82	170	a4	C3-N-1	8671	25
28)	22.19	170	a4	C3-N-2	11836	35
29)	22.31	170	a4	1.3.7-TMN	77852	228
30)	22.45	170	a4	1.3.6-TMN	108733	318
31)	22.93	170	a4	1.3.5+1.4.6-TMN	95066	278
32)	23.01	170	a4	2.3.6-TMN	62145	182
33)	23.41	170	a4	1.6.7+1.2.7-TMN	49484	145
34)	23.48	170	a4	1.2.6-TMN	24128	71
35)	23.91	170	a4	1.2.4-TMN	6549	19
36)	24.11	170	a4	1.2.5-TMN	20684	61

Biphenyls:

37)	17.82	154	a5	BP	36392	73
38)	21.10	168	a5	3-MBP	91433	184
39)	21.35	168	a5	4-MBP	37342	75
40)	21.42	182	a4	2.3'-DMBP	2843	8
41)	21.62	182	a4	2.5-DMBP	1483	4
42)	21.79	182	a4	2.4+2.4'-DMBP	3293	10
43)	22.41	182	a4	2.3-DMBP	6867	20
44)	23.80	182	a4	3-EBP	8347	24
45)	24.13	182	a4	3.5-DMBP	19615	57
46)	24.23	182	a4	3.3'-DMBP	49767	146
47)	24.33	182	a4	4-EBP	3560	10
48)	24.52	182	a4	3.4'-DMBP	47420	139
49)	24.72	182	a4	4.4'-DMBP	11227	33
50)	25.28	182	a4	3.4-DMBP	21694	64

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

Dibenzofuranes:

51)	21.98	168	a5	DBF	6344	13
52)	25.06	182	a4	MDBF-1	12478	37
53)	25.42	182	a4	MDBF-2	5897	17
54)	25.72	182	a4	MDBF-3	8535	25

Fluorenes:

55)	23.94	166	a6	F	15696	38
56)	27.22	180	a6	C1-F-1	11240	27
57)	27.40	180	a6	C1-F-2	42414	104
58)	27.70	180	a6	1-MF	5749	14

Dibenzothiophenes:

60)	28.63	184	a7	DBT	22447	10
61)	31.25	198	a7	4-MDBT	44671	20
62)	31.76	198	a7	3+2-MDBT	9930	5
63)	32.35	198	a7	1-MDBT	7908	4

Phenanthrenes:

64)	29.36	178	a8	P	121216	160
65)	32.29	192	a9	3-MP	55331	86
66)	32.44	192	a9	2-MP	63605	99
67)	32.91	192	a9	9-MP	106071	165
68)	33.04	192	a9	1-MP	80075	124
69)	35.03	206	a10	2EP+9EP+3.6-DMP	12014	18
70)	35.24	206	a10	1EP	23270	35
71)	35.34	206	a10	2.6+2.7+3.5-DMP	13533	20
72)	35.68	206	a10	1.3+2.10+3.9+3.10-DMP	107833	160
73)	35.82	206	a10	1.6+2.5+2.9-DMP	55438	82
74)	35.96	206	a10	1.7-DMP	44653	68
75)	36.11	206	a10	2.3-DMP	13591	20
76)	36.22	206	a10	1.9+4.9+4.10-DMP	32442	48
77)	36.53	206	a10	1.8-DMP	12829	19

Retene:

78)	39.83	219	a8	Retene	3419	5
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Triaromatic steroids:

80)	44.29	231	a11	20TA	4503	2
81)	46.16	231	a11	21TA	4113	2
82)	53.13	231	a11	S26TA	967	0
83)	54.32	231	a11	R26TA/S27TA	2674	1
84)	55.33	231	a11	S28TA	1293	1
85)	55.82	231	a11	R27TA	1131	1
86)	57.06	231	a11	R28TA	1237	1

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2147_25A.D
Sample name: 24/6-2, 2147.25m aro
Data File Path: C:\HPCHEM\1\DATA\24_6_2\
Misc. info.:

Vial no.: 18
Method: MSD_A_D
Operator: Reidun
Date: Wed Oct 07 01:25:03 1998

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	2983	12
C1 Naphthanes	Sum C1 Naphthanes	67700	208
C2 Naphthanes	Sum C2 Naphthanes	391446	1127
C3 Naphthanes	Sum C3 Naphthanes	465148	1362
Phenanthrene	Phenanthrene	121216	160
C1 Phenanthrenes	Sum C1 Phenanthrenes	305082	473
C2 Phenanthrenes	Sum C2 Phenanthrenes	315603	468
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.6	0.6
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	2.7	2.7
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	64.0	64.0
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.1	0.2
BP/1.6DMN	BP/1.6DMN	0.4	0.3
2MN/1MN	2MN/1MN	1.1	1.1
2EN/1EN	2EN/1EN	2.3	2.3
4MDBT/1MDBT	4MDBT/1MDBT	5.6	5.6

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2152_75A.D
Sample name: 24/6-2, 2152.75m aro
Data File Path: C:\HPCHEM\1\DATA\24_6_2\1
Misc. info.:
Vial no.: 19
Method: MSD_A_D
Operator: Reidun
Date: Wed Oct 07 02:53:37 1998
Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.45	136		DBN	12206	43
16)	20.87	164		DBBP	15150	42
50)	29.24	188		DBP	33904	43
79)	44.69	240		DB2C	23117	43

Aryl isoprenoids:

1)	20.55	133	0	C13AI	2419	
2)	22.38	133	0	C14AI	1398	
3)	26.72	133	0	C15AI	994	
4)	28.96	133	0	C16AI	2123	
5)	31.01	133	0	C17AI	2719	
6)	34.08	133	0	C18AI	2326	
7)	34.98	133	0	C19AI	922	
8)	38.02	133	0	C20AI	1927	
9)	39.96	133	0	C21AI	263	
10)	43.02	133	0	C22AI	856	
11)	44.97	133	0	C23AI	349	
12)	55.97	133	0	C30AI	129	
13)	56.97	133	0	C31AI	37	

Naphthalenes:

15)	11.54	128	a1	N	14821	48
17)	15.10	142	a2	2-MN	112867	295
18)	15.64	142	a2	1-MN	100795	263
19)	18.27	156	a3	2-EN	16744	41
20)	18.39	156	a3	1-EN	7394	18
21)	18.62	156	a3	2,6+2,7-DMN	131428	322
22)	19.09	156	a3	1,3+1,7-DMN	218720	536
23)	19.18	156	a3	1,6-DMN	179789	441
24)	19.67	156	a3	2,3+1,4-DMN	70752	173
25)	19.77	156	a3	1,5-DMN	50096	123
26)	20.14	156	a3	1,2-DMN	24332	60
27)	21.83	170	a4	C3-N-1	13719	34
28)	22.20	170	a4	C3-N-2	17037	42
29)	22.32	170	a4	1,3,7-TMN	123412	308
30)	22.46	170	a4	1,3,6-TMN	168043	419
31)	22.94	170	a4	1,3,5+1,4,6-TMN	147400	367
32)	23.02	170	a4	2,3,6-TMN	99707	249
33)	23.42	170	a4	1,6,7+1,2,7-TMN	76728	191
34)	23.48	170	a4	1,2,6-TMN	37696	94
35)	23.91	170	a4	1,2,4-TMN	10114	25
36)	24.11	170	a4	1,2,5-TMN	32464	81

Biphenyls:

37)	17.81	154	a5	BP	73395	126
38)	21.11	168	a5	3-MBP	139746	240
39)	21.36	168	a5	4-MBP	59927	103
40)	21.43	182	a4	2,3'-DMBP	4335	11
41)	21.83	182	a4	2,5'-DMBP	2307	6
42)	21.80	182	a4	2,4+2,4'-DMBP	5331	13
43)	22.42	182	a4	2,3'-DMBP	10740	27
44)	23.81	182	a4	3-EBP	12139	30
45)	24.12	182	a4	3,5'-DMBP	29660	74
46)	24.24	182	a4	3,3'-DMBP	78888	197
47)	24.34	182	a4	4-EBP	5075	13
48)	24.53	182	a4	3,4'-DMBP	75232	188
49)	24.73	182	a4	4,4'-DMBP	17223	43
50)	25.29	182	a4	3,4'-DMBP	31296	78

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

Dibenzofuranes:

51)	21.99	168	a5	DBF	9085	16
52)	25.07	182	a4	MDBF-1	20104	50
53)	25.43	182	a4	MDBF-2	9299	23
54)	25.73	182	a4	MDBF-3	13271	33

Fluorenes:

55)	23.95	168	a6	F	25678	53
56)	27.16	180	a6	C1-F-1	16204	34
57)	27.41	180	a6	C1-F-2	73188	152
58)	27.71	180	a6	1-MF	10362	22

Dibenzothiophenes:

60)	28.64	184	a7	DBT	34208	13
61)	31.26	198	a7	4-MDBT	65865	24
62)	31.78	198	a7	3+2-MDBT	15451	6
63)	32.36	198	a7	1-MDBT	11907	4

Phenanthrenes:

64)	29.37	178	a8	P	182954	196
65)	32.31	192	a9	3-MP	85448	107
66)	32.44	192	a9	2-MP	99736	125
67)	32.93	192	a9	9-MP	158185	198
68)	33.06	192	a9	1-MP	120576	151
69)	35.05	206	a10	2EP+9EP+3,6-DMP	19584	23
70)	35.26	206	a10	1EP	35155	42
71)	35.35	206	a10	2,6+2,7+3,5-DMP	20784	25
72)	35.71	206	a10	1,3+2,10+3,9+3,10-DMP	158400	190
73)	35.85	206	a10	1,6+2,5+2,9-DMP	91616	110
74)	35.99	206	a10	1,7-DMP	70328	84
75)	36.12	206	a10	2,3-DMP	21976	26
76)	36.24	206	a10	1,9+4,9+4,10-DMP	51655	62
77)	36.54	206	a10	1,8-DMP	20912	25

Retene:

78)	39.84	219	a8	Retene	5180	6
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Triaromatic steroids:

80)	44.30	231	a11	20TA	6747	3
81)	46.18	231	a11	21TA	5997	2
82)	53.14	231	a11	S26TA	1642	1
83)	54.34	231	a11	R26TA/S27TA	4586	2
84)	55.34	231	a11	S28TA	2314	1
85)	55.84	231	a11	R27TA	2007	1
86)	57.06	231	a11	R28TA	2232	1

Aromatic hydrocarbons

GC/MS detection HP-6890/5972

Ratios, from heights and amounts



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

Data file name: 2152_75A.D
 Sample name: 24/6-2, 2152.75m aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_2\
 Misc. info.:

Vial no.: 19
 Method: MSD_A_D
 Operator: Reidun
 Date: Wed Oct 07 02:53:37 1998

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	14821	48
C1 Naphthanes	Sum C1 Naphthanes	213662	558
C2 Naphthanes	Sum C2 Naphthanes	699255	1714
C3 Naphthanes	Sum C3 Naphthanes	726320	1810
Phenanthrene	Phenanthrene	182954	196
C1 Phenanthrenes	Sum C1 Phenanthrenes	463945	582
C2 Phenanthrenes	Sum C2 Phenanthrenes	490410	568
3/2*(3MP+2MP)/(P+9MP+1MP)	MPI1	0.6	0.6
(3MP+2MP)/(3MP+2MP+9MP+1MP)	F1	0.4	0.4
2MP/(3MP+2MP+9MP+1MP)	F2	0.2	0.2
(2.6+2.7)DMN/1.5DMN	DNR	2.6	2.6
100*20TA/(20TA+S28TA+R28TA)	%-TAS'n	59.7	59.7
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.1	0.3
BP/1.6DMN	BP/1.6DMN	0.4	0.3
2MN/1MN	2MN/1MN	1.1	1.1
2EN/1EN	2EN/1EN	2.3	2.3
4MDBT/1MDBT	4MDBT/1MDBT	5.5	5.5

Aromatic hydrocarbons
 GC/MS detection HP-6890/5973
 Compound data



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

Data file name: 2164A.D
 Sample name: 246-2, 2164.00m, mdt, aro
 Data File Path: C:\HPCHEM1\DATA\MICHAEL
 Misc. info.:
 Vial no.: 17
 Method: MSD_A_D
 Operator: Reidun
 Date: #VALUE!
 Response curve: y = ax+b
 Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	RI	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
14)	11.47	136		DBN	54194	49
16)	20.88	164		11DBP	72223	17
59)	29.28	188		11DBP	54392	49
79)	44.76	240		11DBP	51297	49

Aryl isoprenoids:						
1)	20.27	133	0	C13AI	1773	
2)	22.11	133	0	C14AI	1039	
3)	26.45	133	0	C15AI	2893	
4)	28.79	133	0	C16AI	1539	
5)	30.80	133	0	C17AI	1089	
6)	33.69	133	0	C18AI	521	
7)	34.80	133	0	C19AI	785	
8)	37.78	133	0	C20AI	2493	
9)	39.78	133	0	C21AI	472	
10)	42.81	133	0	C22AI	982	
11)	44.77	133	0	C23AI	2	
12)	55.78	133	0	C30AI	1337	
13)	56.70	133	0	C31AI	720	

Naphthalenes:						
15)	11.55	128	a1	N	889347	730
17)	15.17	142	a2	2-MN	1678545	1035
18)	15.70	142	a2	1-MN	1471706	907
19)	18.30	156	a3	2-EN	141244	82
20)	18.40	156	a3	1-EN	62424	36
21)	18.68	156	a3	2,6+2,7-DMN	1091397	631
22)	19.17	156	a3	1,3+1,7-DMN	1116211	645
23)	19.28	156	a3	1,6-DMN	1309498	757
24)	19.73	156	a3	2,3+1,4-DMN	521300	301
25)	19.84	156	a3	1,5-DMN	461454	267
26)	20.18	156	a3	1,2-DMN	200951	116
27)	21.86	170	a4	C3-N-1	90136	53
28)	22.23	170	a4	C3-N-2	106563	63
29)	22.38	170	a4	1,3,7-TMN	673446	396
30)	22.53	170	a4	1,3,6-TMN	912902	537
31)	23.00	170	a4	1,3,5+1,4,6-TMN	718682	423
32)	23.08	170	a4	2,3,6-TMN	648664	381
33)	23.49	170	a4	1,6,7+1,2,7-TMN	430408	253
34)	23.54	170	a4	1,2,6-TMN	246976	145
35)	23.96	170	a4	1,2,4-TMN	59966	35
36)	24.16	170	a4	1,2,5-TMN	195225	115

Biphenyls:						
37)	17.85	154	a5	BP	775916	314
38)	21.16	168	a5	3-MBP	895082	363
39)	21.40	168	a5	4-MBP	403232	163
40)	21.45	182	a4	2,3'-DMBP	31055	18
41)	21.66	182	a4	2,5'-DMBP	16254	10
42)	21.82	182	a4	2,4+2,4'-DMBP	35882	21
43)	22.47	182	a4	2,3'-DMBP	74757	44
44)	23.83	182	a4	3-EBP	75781	45
45)	24.16	182	a4	3,5'-DMBP	161556	95
46)	24.28	182	a4	3,3'-DMBP	431260	254
47)	24.38	182	a4	4-EBP	30011	18
48)	24.57	182	a4	3,4'-DMBP	439131	258
49)	24.77	182	a4	4,4'-DMBP	101666	60
50)	25.33	182	a4	3,4'-DMBP	181457	107

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

Dibenzofuranes:						
51)	22.01	168	a5	DBF	72315	29
52)	25.10	182	a4	MDBF-1	119892	70
53)	25.47	182	a4	MDBF-2	52406	31
54)	25.76	182	a4	MDBF-3	76729	45

Fluorenes:						
55)	23.98	166	a6	F	175131	86
56)	27.20	180	a6	C1-F-1	83938	41
57)	27.47	180	a6	C1-F-2	352487	173
58)	27.76	180	a6	1-MF	56647	28

Dibenzothiophenes						
60)	28.69	184	a7	DBT	175357	16
61)	31.32	198	a7	4-MDBT	320340	29
62)	31.82	198	a7	3+2-MDBT	73922	7
63)	32.41	198	a7	1-MDBT	53834	5

Phenanthrenes:						
64)	29.43	178	a8	P	811013	214
65)	32.36	192	a9	3-MP	348557	108
66)	32.51	192	a9	2-MP	423033	131
67)	33.00	192	a9	9-MP	539134	167
68)	33.13	192	a9	1-MP	498070	154
69)	35.09	206	a10	2EP+9EP+3,6-DMP	81019	24
70)	35.31	206	a10	1EP	147125	44
71)	35.41	206	a10	2,6+2,7+3,5-DMP	92056	27
72)	35.79	206	a10	1,3+2,10+3,9+3,10-DA	558666	165
73)	35.92	206	a10	1,6+2,5+2,9-DMP	336210	100
74)	36.06	206	a10	1,7-DMP	289402	86
75)	36.18	206	a10	2,3-DMP	87248	26
76)	36.31	206	a10	1,9+4,9+4,10-DMP	208021	62
77)	36.60	206	a10	1,8-DMP	78287	23

Retene:						
78)	39.90	219	a8	Retene	19625	5

Triaromatic steroids:						
80)	44.36	231	a11	20TA	28456	2
81)	46.22	231	a11	21TA	25871	2
82)	53.19	231	a11	S26TA	7686	1
83)	54.39	231	a11	R26TA/S27TA	20961	1
84)	55.38	231	a11	S28TA	11401	1
85)	55.88	231	a11	R27TA	9653	1
86)	57.09	231	a11	R28TA	11556	1

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios from heights and amounts



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

Data file name: 2164A.D
Sample name: 24/6-2, 2164.00m, mdt, aro
Data File Path: C:\HPCHEM\1\DATA\M\CHAE\1
Misc. info:

Vial no.: 17
Method: MSD_A_D
Operator: Reidun
Date: #VALUE!

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	889347	730
C1 Naphthanes	Sum C1 Naphthanes	3150251	1942
C2 Naphthanes	Sum C2 Naphthanes	4904479	2836
C3 Naphthanes	Sum C3 Naphthanes	4082968	2401
Phenanthrene	Phenanthrene	811013	214
C1 Phenanthrenes	Sum C1 Phenanthrene	1808794	560
C2 Phenanthrenes	Sum C2 Phenanthrene	1875234	556
3/2*(3MP+2MP)/(P+9MP+1MP)	MP11	0,6	0,7
(3MP+2MP)/(3MP+2MP+9MP+1MP)	F1	0,4	0,4
2MP/(3MP+2MP+9MP+1MP)	F2	0,2	0,2
(2.6+2.7)DMN/1.5DMN	DNR	2,4	2,4
100*20TA/(20TA+S28TA+R28TA)	%-TAS'n	55,3	55,3
DBT/P	DBT/P	0,2	0,1
F/P	F/P	0,2	0,4
BP/1.6DMN	BP/1.6DMN	0,6	0,4
2MN/1MN	2MN/1MN	1,1	1,1
2EN/1EN	2EN/1EN	2,3	2,3
4MDBT/1MDBT	4MDBT/1MDBT	6,0	6,0

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
14)	11.45	136		BN	1251	1
16)	20.92	164		110BP	154378	20
59)	29.33	186		110P	18316	1
79)	44.83	246		112C	89869	31
Aryl isoprenoids:						
1)	20.60	133	0	C13AI	14773	1
2)	22.36	133	0	C14AI	16071	1
3)	26.69	133	0	C15AI	574	1
4)	29.04	133	0	C16AI	9837	1
5)	31.07	133	0	C17AI	18951	1
6)	33.98	133	0	C18AI	109177	1
7)	34.98	133	0	C19AI	3076	1
8)	38.01	133	0	C20AI	226	1
9)	39.96	133	0	C21AI	908	1
10)	42.97	133	0	C22AI	85211	1
11)	45.01	133	0	C23AI	394	1
12)	55.96	133	0	C30AI	1721	1
13)	57.02	133	0	C31AI	632	1
Naphthalenes:						
15)	11.54	128	a1	N	235254	709
17)	15.17	142	a2	2-MN	1E+006	857
18)	15.72	142	a2	1-MN	1E+006	747
19)	18.31	156	a3	2-EN	105465	69
20)	18.41	156	a3	1-EN	47710	31
21)	18.71	156	a3	2,6+2,7-DMN	912579	593
22)	19.23	156	a3	1,3+1,7-DMN	1E+006	664
23)	19.32	156	a3	1,6-DMN	1E+006	775
24)	19.76	156	a3	2,3+1,4-DMN	448371	292
25)	19.86	156	a3	1,5-DMN	420229	273
26)	20.21	156	a3	1,2-DMN	186792	121
27)	21.90	170	a4	C3-N-1	84039	56
28)	22.27	170	a4	C3-N-2	88183	58
29)	22.42	170	a4	1,3,7-TMN	574961	380
30)	22.59	170	a4	1,3,6-TMN	853935	565
31)	23.06	170	a4	1,3,5+1,4,6-TMN	665378	440
32)	23.13	170	a4	2,3,6-TMN	590656	391
33)	23.54	170	a4	1,6,7+1,2,7-TMN	400385	265
34)	23.59	170	a4	1,2,6-TMN	238720	158
35)	24.00	170	a4	1,2,4-TMN	57192	38
36)	24.20	170	a4	1,2,5-TMN	183768	122
Biphenyls:						
37)	17.87	154	a5	BP	594857	271
38)	21.20	168	a5	3-MBP	768067	350
39)	21.44	168	a5	4-MBP	354024	161
40)	21.48	182	a4	2,3'-DMBP	29044	19
41)	21.70	182	a4	2,5-DMBP	14839	10
42)	21.86	182	a4	2,4+2,4'-DMBP	33688	22
43)	22.51	182	a4	2,3-DMBP	75101	50
44)	23.88	182	a4	3-EBP	67411	45
45)	24.21	182	a4	3,5-DMBP	145773	96
46)	24.33	182	a4	3,3'-DMBP	375795	248
47)	24.42	182	a4	4-EBP	28299	19
48)	24.62	182	a4	3,4'-DMBP	393166	260
49)	24.81	182	a4	4,4'-DMBP	92331	61
50)	25.38	182	a4	3,4-DMBP	172175	114

Aromatic hydrocarbons
GC/MS detection HP-5890/5973
Compound data



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

Data file name: 2165_75A.D
Sample name: 24/6-2, 2165.27m, oil aro
Data File Path: C:\HPCHEM\1\DATA\24_6_2
Misc. info.:
Vial no.: 22
Method: MSD_A_D
Operator: Reidun
Date: Wed Oct 07 07:19:17 1998
Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Dibenzofuranes:						
51)	22.05	168	a5	DBF	63867	29
52)	25.16	182	a4	MDBF-1	113359	75
53)	25.52	182	a4	MDBF-2	49939	33
54)	25.82	182	a4	MDBF-3	66779	44
Fluorenes:						
55)	24.04	166	a6	F	165616	92
56)	27.33	180	a6	C1-F-1	99256	55
57)	27.53	180	a6	C1-F-2	293131	162
58)	27.81	180	a6	1-MF	50087	28
Dibenzothiophenes:						
60)	28.73	184	a7	DBT	142920	14
61)	31.37	198	a7	4-MDBT	245120	25
62)	31.87	198	a7	3+2-MDBT	54006	5
63)	32.46	198	a7	1-MDBT	40092	4
Phenanthrenes:						
64)	29.49	178	a8	P	705736	206
65)	32.43	192	a9	3-MP	278944	96
66)	32.57	192	a9	2-MP	348330	119
67)	33.07	192	a9	9-MP	428885	147
68)	33.20	192	a9	1-MP	393657	135
69)	35.15	206	a10	2EP+9EP+3,6-DMP	65102	21
70)	35.37	206	a10	1EP	115883	38
71)	35.46	206	a10	2,6+2,7+3,5-DMP	70771	23
72)	35.85	206	a10	1,3+2,10+3,9+3,10-DMP	463112	152
73)	35.99	206	a10	1,6+2,5+2,9-DMP	285219	94
74)	36.13	206	a10	1,7-DMP	258656	85
75)	36.26	206	a10	2,3-DMP	71518	23
76)	36.37	206	a10	1,9+4,9+4,10-DMP	169725	56
77)	36.66	206	a10	1,8-DMP	63256	21
Retene:						
78)	39.96	219	a8	Retene	16240	5
Triaromatic steroids:						
80)	44.42	231	a11	20TA	21973	2
81)	46.29	231	a11	21TA	21175	2
82)	53.25	231	a11	S26TA	6092	1
83)	54.45	231	a11	R26TA/S27TA	17149	2
84)	55.45	231	a11	S28TA	8477	1
85)	55.94	231	a11	R27TA	7621	1
86)	57.16	231	a11	R28TA	8284	1

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts


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

 Data file name: 2165_75A.D
 Sample name: 24/6-2, 2165.27m, oil aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_2\
 Misc. info.:

 Vial no.: 22
 Method: MSD_A_D
 Operator: Reidun
 Date: Wed Oct 07 07:19:17 1998
Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	235254	709
C1 Naphthanes	Sum C1 Naphthanes	2314345	1605
C2 Naphthanes	Sum C2 Naphthanes	4334171	2818
C3 Naphthanes	Sum C3 Naphthanes	3737217	2471
Phenanthrene	Phenanthrene	705736	206
C1 Phenanthrenes	Sum C1 Phenanthrenes	1449816	497
C2 Phenanthrenes	Sum C2 Phenanthrenes	1563242	513
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.6	0.7
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	2.2	2.2
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	56.7	56.7
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.2	0.4
BP/1.6DMN	BP/1.6DMN	0.5	0.3
2MN/1MN	2MN/1MN	1.1	1.1
2EN/1EN	2EN/1EN	2.2	2.2
4MDBT/1MDBT	4MDBT/1MDBT	6.1	6.1

Aromatic hydrocarbons
 GC/MS detection HP-6890/5973
 Compound data



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

Data file name: 2167_00A.D
 Sample name: 24/6-2, 2167.00m, oil aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_2\
 Misc. info.:
 Vial no.: 23
 Method: MSD_A_D
 Operator: Reidun
 Date: Wed Oct 07 08:47:51 1998
 Response curve: y = ax+b
 Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
14)	11.47	136		GEN	31145	755
16)	20.89	164		d10BP	37186	53
59)	29.28	188		d10P	9001	55
79)	44.74	240		d12C	63840	55

Aryl isoprenoids:

1)	20.59	133	0	C13AI	7485	
2)	22.42	133	0	C14AI	4546	
3)	26.66	133	0	C15AI	2690	
4)	29.00	133	0	C16AI	4263	
5)	31.04	133	0	C17AI	8290	
6)	33.91	133	0	C18AI	4833	
7)	35.00	133	0	C19AI	2349	
8)	37.97	133	0	C20AI	240	
9)	40.00	133	0	C21AI	649	
10)	43.06	133	0	C22AI	1530	
11)	44.95	133	0	C23AI	1843	
12)	55.99	133	0	C30AI	324	
13)	57.01	133	0	C31AI	182	

Naphthalenes:

15)	11.57	128	a1	N	455763	738
17)	15.16	142	a2	2-MN	951599	1291
18)	15.70	142	a2	1-MN	800709	1086
19)	18.30	156	a3	2-EN	66492	85
20)	18.41	156	a3	1-EN	29053	37
21)	18.67	156	a3	2.6+2.7-DMN	522021	664
22)	19.15	156	a3	1.3+1.7-DMN	651873	829
23)	19.25	156	a3	1.6-DMN	672933	856
24)	19.72	156	a3	2.3+1.4-DMN	241466	307
25)	19.82	156	a3	1.5-DMN	210027	267
26)	20.18	156	a3	1.2-DMN	87452	111
27)	21.86	170	a4	C3-N-1	39624	51
28)	22.23	170	a4	C3-N-2	48170	62
29)	22.37	170	a4	1.3.7-TMN	303477	393
30)	22.52	170	a4	1.3.6-TMN	433902	561
31)	22.99	170	a4	1.3.5+1.4.6-TMN	352927	457
32)	23.07	170	a4	2.3.6-TMN	299712	388
33)	23.48	170	a4	1.6.7+1.2.7-TMN	201127	260
34)	23.50	170	a4	1.2.6-TMN	115312	149
35)	23.95	170	a4	1.2.4-TMN	25636	33
36)	24.15	170	a4	1.2.5-TMN	83017	107

Biphenyls:

37)	17.85	154	a5	BP	369829	330
38)	21.16	168	a5	3-MBP	421413	376
39)	21.40	168	a5	4-MBP	186747	166
40)	21.45	182	a4	2.3'-DMBP	13158	17
41)	21.66	182	a4	2.5'-DMBP	6986	9
42)	21.82	182	a4	2.4+2.4'-DMBP	14787	19
43)	22.46	182	a4	2.3'-DMBP	32380	42
44)	23.83	182	a4	3-EBP	30963	40
45)	24.16	182	a4	3.5'-DMBP	73118	95
46)	24.28	182	a4	3.3'-DMBP	185161	240
47)	24.38	182	a4	4-EBP	13021	17
48)	24.57	182	a4	3.4'-DMBP	193637	251
49)	24.77	182	a4	4.4'-DMBP	43323	56
50)	25.33	182	a4	3.4'-DMBP	78766	102

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

Dibenzofuranes:

51)	22.01	168	a5	DBF	31169	28
52)	25.10	182	a4	MDBF-1	49260	64
53)	25.47	182	a4	MDBF-2	21952	28
54)	25.77	182	a4	MDBF-3	30444	39

Fluorenes:

55)	23.98	166	a6	F	74832	81
56)	27.20	180	a6	C1-F-1	36521	39
57)	27.46	180	a6	C1-F-2	153190	166
58)	27.75	180	a6	1-MF	24247	26

Dibenzothiophenes:

60)	28.68	184	a7	DBT	64220	13
61)	31.30	198	a7	4-MDBT	112759	23
62)	31.81	198	a7	3+2-MDBT	23591	5
63)	32.40	198	a7	1-MDBT	17668	4

Phenanthrenes:

64)	29.42	178	a8	P	362895	210
65)	32.35	192	a9	3-MP	150133	102
66)	32.50	192	a9	2-MP	176072	119
67)	32.98	192	a9	9-MP	265775	180
68)	33.11	192	a9	1-MP	215022	146
69)	35.08	206	a10	2EP+9EP+3.6-DMP	31871	21
70)	35.30	206	a10	1EP	60505	39
71)	35.39	206	a10	2.6+2.7+3.5-DMP	34569	22
72)	35.76	206	a10	1.3+2.10+3.9+3.10-DMP	254868	165
73)	35.90	206	a10	1.6+2.5+2.9-DMP	152220	99
74)	36.04	206	a10	1.7-DMP	117559	76
75)	36.17	206	a10	2.3-DMP	34925	23
76)	36.29	206	a10	1.9+4.9+4.10-DMP	84702	55
77)	36.58	206	a10	1.8-DMP	32177	21

Retene:

78)	39.89	219	a8	Retene	8255	5
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Triaromatic steroids:

80)	44.35	231	a11	20TA	11292	2
81)	46.21	231	a11	21TA	10868	2
82)	53.18	231	a11	S26TA	2955	1
83)	54.39	231	a11	R26TA/S27TA	8556	2
84)	55.38	231	a11	S28TA	4468	1
85)	55.87	231	a11	R27TA	3838	1
86)	57.09	231	a11	R28TA	4417	1

Aromatic hydrocarbons

GC/MS detection HP 6890/5973

Ratios from heights and amounts



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

Data file name: 2167_00A.D
 Sample name: 24/6-2. 2167.00m, oil aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_2\
 Misc. info.:

 Vial no.: 23
 Method: MSD_A_D
 Operator: Reidun
 Date: Wed Oct 07 08:47:51 1998

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	455763	738
C1 Naphthanes	Sum C1 Naphthanes	1752308	2377
C2 Naphthanes	Sum C2 Naphthanes	2481317	3157
C3 Naphthanes	Sum C3 Naphthanes	1902904	2462
Phenanthrene	Phenanthrene	362895	210
C1 Phenanthrenes	Sum C1 Phenanthrenes	807002	547
C2 Phenanthrenes	Sum C2 Phenanthrenes	803396	521
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MP1	0.6	0.6
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	2.5	2.5
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	56.0	56.0
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.2	0.4
BP/1.6DMN	BP/1.6DMN	0.5	0.4
2MN/1MN	2MN/1MN	1.2	1.2
2EN/1EN	2EN/1EN	2.3	2.3
4MDBT/1MDBT	4MDBT/1MDBT	6.4	6.4

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng	mg
Internal standard (if added):						
14)	11.48	136	0		61550	39
16)	20.87	164	0	110BP	88811	38
59)	29.22	188	0	110I	18734	39
79)	44.08	240	0	112C	88547	39
Aryl isoprenoids:						
1)	20.55	133	0	C13AI	428	
2)	22.37	133	0	C14AI	3198	
3)	26.71	133	0	C15AI	1828	
4)	28.97	133	0	C16AI	3258	
5)	31.00	133	0	C17AI	247	
6)	33.98	133	0	C18AI	237	
7)	35.03	133	0	C19AI	199	
8)	38.01	133	0	C20AI	378	
9)	39.97	133	0	C21AI	35	
10)	43.01	133	0	C22AI	86	
11)	45.07	133	0	C23AI	38	
12)	55.96	133	0	C30AI	68	
13)	57.00	133	0	C31AI	44	
Naphthalenes:						
15)	11.55	128	a1	N	32134	19
17)	15.09	142	a2	2-MN	80026	42
18)	15.64	142	a2	1-MN	64900	34
19)	18.26	156	a3	2-EN	8009	4
20)	18.38	156	a3	1-EN	3715	2
21)	18.61	156	a3	2,6+2,7-DMN	69541	34
22)	19.06	156	a3	1,3+1,7-DMN	115485	57
23)	19.17	156	a3	1,6-DMN	93926	46
24)	19.66	156	a3	2,3+1,4-DMN	41707	20
25)	19.76	156	a3	1,5-DMN	26783	13
26)	20.14	156	a3	1,2-DMN	14259	7
27)	21.82	170	a4	C3-N-1	5809	3
28)	22.19	170	a4	C3-N-2	8258	4
29)	22.31	170	a4	1,3,7-TMN	59531	30
30)	22.45	170	a4	1,3,6-TMN	86966	43
31)	22.93	170	a4	1,3,5+1,4,6-TMN	73115	36
32)	22.99	170	a4	2,3,6-TMN	55611	28
33)	23.41	170	a4	1,6,7+1,2,7-TMN	44104	22
34)	23.47	170	a4	1,2,6-TMN	20816	10
35)	23.90	170	a4	1,2,4-TMN	5887	3
36)	24.10	170	a4	1,2,5-TMN	19127	10
Biphenyls:						
37)	17.82	154	a5	BP	58707	20
38)	21.10	168	a5	3-MBP	85612	29
39)	21.35	168	a5	4-MBP	39696	14
40)	21.42	182	a4	2,3'-DMBP	1732	1
41)	21.62	182	a4	2,5'-DMBP	887	0
42)	21.79	182	a4	2,4+2,4'-DMBP	1994	1
43)	22.41	182	a4	2,3'-DMBP	5360	3
44)	23.80	182	a4	3-EBP	6122	3
45)	24.11	182	a4	3,5'-DMBP	13767	7
46)	24.22	182	a4	3,3'-DMBP	37583	19
47)	24.33	182	a4	4-EBP	2591	1
48)	24.51	182	a4	3,4'-DMBP	38014	19
49)	24.72	182	a4	4,4'-DMBP	9476	5
50)	25.27	182	a4	3,4'-DMBP	16577	8

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: 2173_30A.D
Sample name: 24/6-2, 2173.30m aro
Data File Path: C:\HPCHEM\DATA\24_6_2\
Misc. info.:

Vial no.: 20
Method: MSD_A_D
Operator: Reidun
Date: Wed Oct 07 04:22:11 1998

Response curve: y = ax+b
Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng	mg
Dibenzofuranes:						
51)	21.98	168	a5	DBF	12911	4
52)	25.06	182	a4	MDBF-1	16900	8
53)	25.42	182	a4	MDBF-2	8816	4
54)	25.72	182	a4	MDBF-3	12473	6
Fluorenes:						
55)	23.94	166	a6	F	18159	8
56)	27.22	180	a6	C1-F-1	9415	4
57)	27.38	180	a6	C1-F-2	39244	16
58)	27.69	180	a6	1-MF	3411	1
Dibenzothiophenes:						
60)	28.63	184	a7	DBT	38498	4
61)	31.24	198	a7	4-MDBT	54368	5
62)	31.76	198	a7	3+2-MDBT	12423	1
63)	32.34	198	a7	1-MDBT	9833	1
Phenanthrenes:						
64)	29.36	178	a8	P	257388	71
65)	32.29	192	a9	3-MP	74091	24
66)	32.43	192	a9	2-MP	95465	31
67)	32.91	192	a9	9-MP	148193	48
68)	33.03	192	a9	1-MP	119392	39
69)	35.02	206	a10	2EP+9EP+3,6-DMP	11226	3
70)	35.23	206	a10	1EP	21986	7
71)	35.33	206	a10	2,6+2,7+3,5-DMP	13868	4
72)	35.68	206	a10	1,3+2,10+3,9+3,10-DMP	107989	34
73)	35.82	206	a10	1,6+2,5+2,9-DMP	56937	18
74)	35.95	206	a10	1,7-DMP	49313	15
75)	36.10	206	a10	2,3-DMP	15399	5
76)	36.21	206	a10	1,9+4,9+4,10-DMP	34563	11
77)	36.52	206	a10	1,8-DMP	14610	5
Retene:						
78)	39.82	219	a8	Retene	11817	3
Triaromatic steroids:						
80)	44.29	231	a11	20TA	999	0
81)	46.15	231	a11	21TA	698	0
82)	53.10	231	a11	S26TA	287	0
83)	54.32	231	a11	R26TA/S27TA	490	0
84)	55.31	231	a11	S28TA	229	0
85)	55.81	231	a11	R27TA	221	0
86)	57.04	231	a11	R28TA	224	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2173_30A.D
 Sample name: 24/6-2, 2173.30m aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_2\
 Misc. info.:

 Vial no.: 20
 Method: MSD_A_D
 Operator: Reidun
 Date: Wed Oct 07 04:22:11 1998

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	32134	19
C1 Naphthanes	Sum C1 Naphthanes	144926	76
C2 Naphthanes	Sum C2 Naphthanes	373405	183
C3 Naphthanes	Sum C3 Naphthanes	379224	189
Phenanthrene	Phenanthrene	257388	71
C1 Phenanthrenes	Sum C1 Phenanthrenes	437141	142
C2 Phenanthrenes	Sum C2 Phenanthrenes	325891	102
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.5	0.5
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	2.6	2.6
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	68.8	68.8
DBT/P	DBT/P	0.1	0.1
F/P	F/P	0.1	0.1
BP/1.6DMN	BP/1.6DMN	0.6	0.4
2MN/1MN	2MN/1MN	1.2	1.2
2EN/1EN	2EN/1EN	2.2	2.2
4MDBT/1MDBT	4MDBT/1MDBT	5.6	5.6

Aromatic hydrocarbons
 GC/MS detection HP-6890/5973
 Compound data



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

Data file name: 2179_50A.D
 Sample name: 24/6-2, 2179.50m aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_21
 Misc. info.:
 Vial no.: 21
 Method: MSD_A_D
 Operator: Reidun
 Date: Wed Oct 07 05:50:43 1998
 Response curve: y = ax+b
 Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
					ng/mg	
Internal standard (if added):						
14)	11.45	136		DN	49317	40
16)	20.87	164		d10BP	55318	39
59)	29.22	188		d10	9555	40
79)	44.67	240		d12C	91947	40

Aryl isoprenoids:

1)	20.55	133	0	C13AI	175	
2)	22.37	133	0	C14AI	24	
3)	26.69	133	0	C15AI	437	
4)	28.96	133	0	C16AI	279	
5)	30.99	133	0	C17AI	106	
6)	33.98	133	0	C18AI	32	
7)	35.02	133	0	C19AI	147	
8)	38.01	133	0	C20AI	120	
9)	40.02	133	0	C21AI	29	
10)	43.07	133	0	C22AI	157	
11)	44.95	133	0	C23AI	98	
12)	56.03	133	0	C30AI	30	
13)	56.97	133	0	C31AI	59	

Naphthalenes:

15)	11.54	128	a1	N	54092	40
17)	15.10	142	a2	2-MN	116899	77
18)	15.64	142	a2	1-MN	87903	58
19)	18.26	156	a3	2-EN	8507	5
20)	18.39	156	a3	1-EN	4390	3
21)	18.60	156	a3	2.6+2.7-DMN	69252	43
22)	19.07	156	a3	1.3+1.7-DMN	121057	75
23)	19.17	156	a3	1.6-DMN	96249	60
24)	19.66	156	a3	2.3+1.4-DMN	44100	27
25)	19.77	156	a3	1.5-DMN	28402	18
26)	20.14	156	a3	1.2-DMN	16517	10
27)	21.82	170	a4	C3-N-1	4987	3
28)	22.19	170	a4	C3-N-2	7451	5
29)	22.30	170	a4	1.3.7-TMN	43203	27
30)	22.44	170	a4	1.3.6-TMN	60740	38
31)	22.93	170	a4	1.3.5+1.4.6-TMN	58160	37
32)	23.00	170	a4	2.3.6-TMN	40956	26
33)	23.41	170	a4	1.6.7+1.2.7-TMN	35601	22
34)	23.46	170	a4	1.2.6-TMN	16976	11
35)	23.89	170	a4	1.2.4-TMN	5462	3
36)	24.11	170	a4	1.2.5-TMN	19462	12

Biphenyls:

37)	17.81	154	a5	BP	73534	32
38)	21.10	168	a5	3-MBP	75344	33
39)	21.36	168	a5	4-MBP	34054	15
40)	21.41	182	a4	2.3'-DMBP	1731	1
41)	21.62	182	a4	2.5'-DMBP	783	0
42)	21.80	182	a4	2.4+2.4'-DMBP	1536	1
43)	22.41	182	a4	2.3'-DMBP	4020	3
44)	23.79	182	a4	3-EBP	6983	4
45)	24.11	182	a4	3.5'-DMBP	8419	5
46)	24.21	182	a4	3.3'-DMBP	23377	15
47)	24.33	182	a4	4-EBP	1888	1
48)	24.50	182	a4	3.4'-DMBP	18551	12
49)	24.72	182	a4	4.4'-DMBP	4838	3
50)	25.28	182	a4	3.4'-DMBP	10983	7

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

Dibenzofuranes:

51)	21.97	168	a5	DBF	14840	6
52)	25.05	182	a4	MDBF-1	19110	12
53)	25.42	182	a4	MDBF-2	11456	7
54)	25.71	182	a4	MDBF-3	14086	9

Fluorenes:

55)	23.93	166	a6	F	22190	12
56)	27.21	180	a6	C1-F-1	9970	5
57)	27.39	180	a6	C1-F-2	43407	23
58)	27.69	180	a6	1-MF	3941	2

Dibenzothiophenes:

60)	28.63	184	a7	DBT	44338	5
61)	31.24	198	a7	4-MDBT	46884	6
62)	31.75	198	a7	3+2-MDBT	11825	1
63)	32.34	198	a7	1-MDBT	10143	1

Phenanthrenes:

64)	29.36	178	a8	P	278387	95
65)	32.29	192	a9	3-MP	66746	27
66)	32.43	192	a9	2-MP	84488	34
67)	32.91	192	a9	9-MP	137631	55
68)	33.03	192	a9	1-MP	104724	42
69)	35.01	206	a10	2EP+9EP+3.6-DMP	10456	4
70)	35.24	206	a10	1EP	11767	4
71)	35.34	206	a10	2.6+2.7+3.5-DMP	6692	3
72)	35.67	206	a10	1.3+2.10+3.9+3.10-DMP	55538	21
73)	35.81	206	a10	1.6+2.5+2.9-DMP	29666	11
74)	35.95	206	a10	1.7-DMP	24851	9
75)	36.10	206	a10	2.3-DMP	9168	3
76)	36.21	206	a10	1.9+4.9+4.10-DMP	20319	8
77)	36.51	206	a10	1.8-DMP	8790	3

Retene:

78)	39.82	219	a8	Retene	23330	8
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Triaromatic steroids:

80)	44.24	231	a11	20TA	429	0
81)	46.17	231	a11	21TA	340	0
82)	53.11	231	a11	S26TA	330	0
83)	54.32	231	a11	R26TA/S27TA	353	0
84)	55.31	231	a11	S28TA	167	0
85)	55.80	231	a11	R27TA	156	0
86)	57.04	231	a11	R28TA	181	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts


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

 Data file name: 2179_50A.D
 Sample name: 24/6-2, 2179.50m aro
 Data File Path: C:\HPCHEM\1\DATA\24_6_2\
 Misc. info.:

 Vial no.: 21
 Method: MSD_A_D
 Operator: Reidun
 Date: Wed Oct 07 05:50:43 1998
Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	54092	40
C1 Naphthanes	Sum C1 Naphthanes	204802	135
C2 Naphthanes	Sum C2 Naphthanes	388474	241
C3 Naphthanes	Sum C3 Naphthanes	292998	185
Phenanthrene	Phenanthrene	278387	95
C1 Phenanthrenes	Sum C1 Phenanthrenes	393589	157
C2 Phenanthrenes	Sum C2 Phenanthrenes	177247	68
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MP11	0.4	0.5
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2,6+2,7)DMN/1,5DMN$	DNR	2.4	2.4
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	55.2	55.2
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.1	0.1
BP/1,6DMN	BP/1,6DMN	0.8	0.5
2MN/1MN	2MN/1MN	1.3	1.3
2EN/1EN	2EN/1EN	1.9	1.9
4MDBT/1MDBT	4MDBT/1MDBT	4.6	4.6

Aromatic hydrocarbons
 GC/MS detection HP-6890/5973
 Compound data



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

Data file name: 2673A.D
 Sample name: 24/6-2.2673.aro
 Data File Path: C:\HPCHEM\1\DATA\CANADA\3
 Misc. info.:
 Vial no.: 15
 Method: MSD_A_D
 Operator: Birthe
 Date: Thu Jul 16 13:20:05 1998
 Response curve: y = ax+b
 Response factor groups: a1...a11, responses as defined in method

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added)						
14)	11.53	136	0	13N	31350	39
16)	20.97	184	0	10BF	45220	38
59)	29.33	186	0	110P	58256	39
79)	44.79	240	0	112C	74329	39

Aryl isoprenoids:

1)	20.50	133	0	C13AI	5666	
2)	22.34	133	0	C14AI	3315	
3)	26.69	133	0	C15AI	3221	
4)	29.03	133	0	C16AI	3126	
5)	31.09	133	0	C17AI	5419	
6)	33.94	133	0	C18AI	4140	
7)	34.97	133	0	C19AI	888	
8)	38.02	133	0	C20AI	139	
9)	40.04	133	0	C21AI	788	
10)	42.96	133	0	C22AI	1840	
11)	45.01	133	0	C23AI	1902	
12)	56.03	133	0	C30AI	254	
13)	57.01	133	0	C31AI	414	

Naphthalenes:

15)	11.62	128	a1	N	130515	150
17)	15.21	142	a2	2-MN	492247	392
18)	15.74	142	a2	1-MN	407596	324
19)	18.36	156	a3	2-EN	45520	34
20)	18.48	156	a3	1-EN	18964	14
21)	18.72	156	a3	2,6+2,7-DMN	385361	288
22)	19.20	156	a3	1,3+1,7-DMN	565131	422
23)	19.30	156	a3	1,6-DMN	516097	385
24)	19.77	156	a3	2,3+1,4-DMN	185334	138
25)	19.88	156	a3	1,5-DMN	132563	99
26)	20.24	156	a3	1,2-DMN	62492	47
27)	21.92	170	a4	C3-N-1	24784	19
28)	22.29	170	a4	C3-N-2	28909	22
29)	22.42	170	a4	1,3,7-TMN	217112	165
30)	22.56	170	a4	1,3,6-TMN	292234	222
31)	23.04	170	a4	1,3,5+1,4,6-TMN	260670	198
32)	23.12	170	a4	2,3,6-TMN	169549	129
33)	23.53	170	a4	1,6,7+1,2,7-TMN	147284	112
34)	23.55	170	a4	1,2,6-TMN	81824	62
35)	24.01	170	a4	1,2,4-TMN	16167	12
36)	24.21	170	a4	1,2,5-TMN	52940	40

Biphenyls:

37)	17.92	154	a5	BP	296179	155
38)	21.21	168	a5	3-MBP	389638	204
39)	21.47	168	a5	4-MBP	155318	81
40)	21.52	182	a4	2,3'-DMBP	11556	9
41)	21.72	182	a4	2,5-DMBP	5810	4
42)	21.89	182	a4	2,4+2,4'-DMBP	12049	9
43)	22.51	182	a4	2,3-DMBP	23819	18
44)	23.90	182	a4	3-EBP	22891	17
45)	24.23	182	a4	3,5-DMBP	54156	41
46)	24.33	182	a4	3,3'-DMBP	137346	104
47)	24.43	182	a4	4-EBP	7849	6
48)	24.62	182	a4	3,4'-DMBP	125019	95
49)	24.82	182	a4	4,4'-DMBP	25438	19
50)	25.38	182	a4	3,4-DMBP	56611	43

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

Dibenzofuranes:

51)	22.08	168	a5	DBF	23241	12
52)	25.15	182	a4	MDBF-1	29113	22
53)	25.52	182	a4	MDBF-2	11636	9
54)	25.82	182	a4	MDBF-3	20214	15

Fluorenes:

55)	24.04	166	a6	F	43138	27
56)	27.25	180	a6	C1-F-1	20313	13
57)	27.50	180	a6	C1-F-2	97783	62
58)	27.80	180	a6	1-MF	12714	8

Dibenzothiophenes:

60)	28.73	184	a7	DBT	41020	5
61)	31.34	198	a7	4-MDBT	81737	11
62)	31.87	198	a7	3+2-MDBT	15529	2
63)	32.44	198	a7	1-MDBT	11207	1

Phenanthrenes:

64)	29.45	178	a8	P	254843	95
65)	32.39	192	a9	3-MP	89138	39
66)	32.53	192	a9	2-MP	104356	46
67)	33.02	192	a9	9-MP	175217	77
68)	33.15	192	a9	1-MP	133538	59
69)	35.13	206	a10	2EP+9EP+3,6-DMP	14160	6
70)	35.34	206	a10	1EP	27699	12
71)	35.44	206	a10	2,6+2,7+3,5-DMP	15290	6
72)	35.79	206	a10	1,3+2,10+3,9+3,10-DMP	139874	59
73)	35.93	206	a10	1,6+2,5+2,9-DMP	74431	31
74)	36.07	206	a10	1,7-DMP	61948	26
75)	36.21	206	a10	2,3-DMP	18522	8
76)	36.33	206	a10	1,9+4,9+4,10-DMP	49680	21
77)	36.63	206	a10	1,8-DMP	18631	8

Retene:

78)	39.93	219	a8	Retene	4779	2
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Triaromatic steroids:

80)	44.39	231	a11	20TA	7850	1
81)	46.27	231	a11	21TA	6806	1
82)	53.23	231	a11	S26TA	1531	0
83)	54.43	231	a11	R26TA/S27TA	3483	0
84)	55.42	231	a11	S28TA	1552	0
85)	55.93	231	a11	R27TA	1296	0
86)	57.15	231	a11	R28TA	1487	0

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Ratios, from heights and amounts



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

Data file name: 2673A.D
 Sample name: 24/6-2.2673.aro
 Data File Path: C:\HPCHEM\1\DATA\CANADA3\
 Misc. info.:

 Vial no.: 15
 Method: MSD_A_D
 Operator: Birthe
 Date: Thu Jul 16 13:20:05 1998

Aromatic HC ratios, heights and amounts

		Height	Amount
Naphthalene	Naphthalene	130515	150
C1 Naphthanes	Sum C1 Naphthanes	899843	716
C2 Naphthanes	Sum C2 Naphthanes	1911462	1427
C3 Naphthanes	Sum C3 Naphthanes	1291473	980
Phenanthrene	Phenanthrene	254843	95
C1 Phenanthrenes	Sum C1 Phenanthrenes	502249	220
C2 Phenanthrenes	Sum C2 Phenanthrenes	420235	176
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.5	0.6
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.4	0.4
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	2.9	2.9
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	72.1	72.1
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.2	0.3
BP/1.6DMN	BP/1.6DMN	0.6	0.4
2MN/1MN	2MN/1MN	1.2	1.2
2EN/1EN	2EN/1EN	2.4	2.4
4MDBT/1MDBT	4MDBT/1MDBT	7.3	7.3