

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: 2988S.D
Sample name: 7216/11-1 S, 2988m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\

Misc. info.:

Vial no.: 2
Method: MSD_S_E2
Operator: annex
Date: #VALUE!

Response curve $y = ax$
Response factors equally 1.0

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.06	GC1	C12D26	5183670	3.43
6)	25.37	GC1	C16D34	10173421	3.43
2)	10.37	GC1	nC11	16128	
3)	13.61	GC1	nC12	40066	
4)	16.88	GC1	nC13	20438	
5)	20.05	GC1	nC14	28741	
7)	21.97	GC1	iC16	5648	0.00
8)	23.10	GC1	nC15	22022	0.01
9)	26.00	GC1	nC16	51828	0.02
10)	27.37	GC1	iC18	8333	0.00
11)	28.77	GC1	nC17	36094	0.01
12)	28.93	GC1	pristane	20332	0.01
13)	31.40	GC1	nC18	113067	0.04
14)	31.65	GC1	phytane	21808	0.01
15)	33.91	GC1	nC19	59657	0.02
16)	36.32	GC1	nC20	64422	0.02
17)	38.62	GC1	nC21	69373	0.02
18)	40.83	GC1	nC22	53378	0.02
19)	42.94	GC1	nC23	45884	0.02
20)	44.97	GC1	nC24	51388	0.02
21)	46.93	GC1	nC25	53463	0.02
22)	48.82	GC1	nC26	30388	0.01
23)	50.63	GC1	nC27	33378	0.01
24)	52.39	GC1	nC28	29162	0.01
25)	54.11	GC1	nC29	52486	0.02
26)	55.74	GC1	nC30	21077	0.01
27)	57.33	GC1	nC31	20314	0.01
28)	58.88	GC1	nC32	20902	0.01
29)	60.38	GC1	nC33	17410	0.01
30)	61.84	GC1	nC34	13223	0.00
31)	63.36	GC1	nC35	12186	0.00

Ratios:	Area	Amount
Pr/nC17	0.56	0.56
Ph/nC18	0.19	0.19
(Pr/nC17)/(Ph/nC18)	2.92	2.92
Pr/Ph	0.93	0.93
nC17/(nC17+nC27)	0.52	0.52
CPI-1	1.39	1.39
CPI-2 (2*nC27/(nC26+nC27))	1.05	1.05

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: **2990S.D**
 Sample name: **7216/11-1 S, 2990m SAT**
 Data File Path: C:\HPCHEM1\DATA\7216\
 Misc. info.:

Vial no.: 3
 Method: MSD_S_E2
 Operator: annek
 Date: #VALUE!

Response curve y = ax
 Response factors equally 1.0

#	Rt.min.	Signal	Compound	Area	Amount
FID					ug/mg
Internal standards (if added):					
1)	13.05	GC1	C12D26	4411174	4.00
6)	25.37	GC1	C16D34	9089440	4.00
2)	10.37	GC1	nC11	1966	
3)	13.61	GC1	nC12	14058	
4)	16.88	GC1	nC13	26593	
5)	20.05	GC1	nC14	49680	
7)	21.97	GC1	iC16	19770	0.01
8)	23.10	GC1	nC15	66107	0.03
9)	26.00	GC1	nC16	79143	0.03
10)	27.37	GC1	iC18	17611	0.01
11)	28.77	GC1	nC17	85813	0.04
12)	28.93	GC1	pristane	50582	0.02
13)	31.40	GC1	nC18	82032	0.04
14)	31.65	GC1	phytane	28113	0.01
15)	33.92	GC1	nC19	91659	0.04
16)	36.31	GC1	nC20	111934	0.05
17)	38.61	GC1	nC21	133896	0.06
18)	40.82	GC1	nC22	123438	0.05
19)	42.94	GC1	nC23	107899	0.05
20)	44.97	GC1	nC24	119790	0.05
21)	46.93	GC1	nC25	127802	0.06
22)	48.81	GC1	nC26	115573	0.05
23)	50.63	GC1	nC27	118806	0.05
24)	52.39	GC1	nC28	128752	0.06
25)	54.09	GC1	nC29	198634	0.09
26)	55.74	GC1	nC30	139597	0.06
27)	57.33	GC1	nC31	162272	0.07
28)	58.88	GC1	nC32	159026	0.07
29)	60.38	GC1	nC33	143963	0.06
30)	61.84	GC1	nC34	130969	0.06
31)	63.36	GC1	nC35	115199	0.05

Ratios:	Area	Amount
Pr/nC17	0.59	0.59
Ph/nC18	0.34	0.34
(Pr/nC17)/(Ph/nC18)	1.72	1.72
Pr/Ph	1.80	1.80
nC17/(nC17+nC27)	0.42	0.42
CPI-1	1.16	1.16
CPI-2 (2*nC27/(nC26+nC27))	1.01	1.01

#	Rt.min.	Signal	Compound	Area	Amount
					ug/mg
Internal standards (if added):					
1)	13.04	GC1	C12D26	2330202	3.08
6)	25.33	GC1	C16D34	3971535	3.08
2)	10.37	GC1	nC11	2271	
3)	13.61	GC1	nC12	9152	
4)	16.88	GC1	nC13	6905	
5)	20.05	GC1	nC14	20029	
7)	21.97	GC1	iC16	12220	0.01
8)	23.10	GC1	nC15	48081	0.04
9)	26.00	GC1	nC16	86430	0.07
10)	27.37	GC1	iC18	39466	0.03
11)	28.76	GC1	nC17	140105	0.11
12)	28.93	GC1	pristane	116404	0.09
13)	31.40	GC1	nC18	172000	0.13
14)	31.65	GC1	phytane	89825	0.07
15)	33.91	GC1	nC19	209268	0.16
16)	36.32	GC1	nC20	224125	0.17
17)	38.62	GC1	nC21	244242	0.19
18)	40.82	GC1	nC22	223613	0.17
19)	42.94	GC1	nC23	217224	0.17
20)	44.97	GC1	nC24	271285	0.21
21)	46.93	GC1	nC25	330273	0.26
22)	48.81	GC1	nC26	422370	0.33
23)	50.63	GC1	nC27	495752	0.38
24)	52.39	GC1	nC28	520705	0.40
25)	54.09	GC1	nC29	626981	0.49
26)	55.74	GC1	nC30	491458	0.38
27)	57.33	GC1	nC31	397607	0.31
28)	58.88	GC1	nC32	302934	0.23
29)	60.38	GC1	nC33	248052	0.19
30)	61.84	GC1	nC34	213594	0.17
31)	63.36	GC1	nC35	184259	0.14

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: 2991_10S.D
Sample name: 7216/11-1 S, 2991,10m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\

Misc. info.:

Vial no.: 4
Method: MSD_S_E2
Operator: annek
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.83	0.83
Ph/nC18	0.52	0.52
(Pr/nC17)/(Ph/nC18)	1.59	1.59
Pr/Ph	1.30	1.30
nC17/(nC17+nC27)	0.22	0.22
CPI-1	1.08	1.08
CPI-2 (2*nC27/(nC26+nC27))	1.08	1.08

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: 2991_25S.D
Sample name: 7216/11-1 S, 2991,25m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 5
Method: MSD_S_E2
Operator: annex
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

#	Rt.min.	Signal FID	Compound	Area	Amount µg/mg
Internal standards (if added):					
1)	13.05	GC1	C12D26	3541583	3.90
6)	25.37	GC1	C16D34	8769486	3.90
2)	10.36	GC1	nC11	1418	
3)	13.61	GC1	nC12	6497	
4)	16.88	GC1	nC13	6474	
5)	20.05	GC1	nC14	31204	
7)	58.71	GC1	iC16	489117	0.22
8)	23.09	GC1	nC15	209632	0.09
9)	26.01	GC1	nC16	75909	0.03
10)	27.39	GC1	iC18	153472	0.07
11)	28.79	GC1	nC17	78209	0.03
12)	28.92	GC1	pristane	104845	0.05
13)	31.34	GC1	nC18	493051	0.22
14)	31.64	GC1	phytane	71212	0.03
15)	33.91	GC1	nC19	85280	0.04
16)	36.34	GC1	nC20	45596	0.02
17)	38.68	GC1	nC21	576771	0.26
18)	40.87	GC1	nC22	17353	0.01
19)	43.00	GC1	nC23	25973	0.01
20)	45.00	GC1	nC24	60137	0.03
21)	46.95	GC1	nC25	35173	0.02
22)	48.85	GC1	nC26	26512	0.01
23)	50.69	GC1	nC27	190822	0.08
24)	52.44	GC1	nC28	23305	0.01
25)	54.18	GC1	nC29	1359429	0.61
26)	55.73	GC1	nC30	902192	0.40
27)	57.37	GC1	nC31	34172	0.02
28)	58.83	GC1	nC32	128408	0.06
29)	60.31	GC1	nC33	119462	0.05
30)	61.82	GC1	nC34	108347	0.05
31)	63.36	GC1	nC35	20313	0.01

Ratios:	Area	Amount
Pr/nC17	1.34	1.34
Ph/nC18	0.14	0.14
(Pr/nC17)/(Ph/nC18)	9.28	9.28
Pr/Ph	1.47	1.47
nC17/(nC17+nC27)	0.29	0.29
CPI-1	1.55	1.55
CPI-2 (2*nC27/(nC26+nC27))	1.76	1.76

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: **2991_36S.D**
 Sample name: **7216/11-1 S, 2991,36m SAT**
 Data File Path: C:\HPCHEM\1\DATA\7216\
 Misc. info.:

 Vial no.: 6
 Method: MSD_S_E2
 Operator: annek
 Date: #VALUE!

 Response curve y = ax
 Response factors equally 1.0

#	Rt.min.	Signal	Compound	Area	Amount
		FID			ug/mg
Internal standards (if added):					
1)	13.05	GC1	C12D26	4749019	4.21
6)	25.37	GC1	C16D34	9586230	4.21
2)	10.37	GC1	nC11	2017	
3)	13.61	GC1	nC12	11110	
4)	16.88	GC1	nC13	10800	
5)	20.05	GC1	nC14	31139	
7)	21.97	GC1	iC16	16242	0.01
8)	23.10	GC1	nC15	62454	0.03
9)	26.00	GC1	nC16	109440	0.05
10)	27.37	GC1	iC18	31064	0.01
11)	28.76	GC1	nC17	144500	0.06
12)	28.93	GC1	pristane	77442	0.03
13)	31.40	GC1	nC18	161433	0.07
14)	31.65	GC1	phytane	57747	0.03
15)	33.91	GC1	nC19	206758	0.09
16)	36.31	GC1	nC20	231085	0.10
17)	38.62	GC1	nC21	245877	0.11
18)	40.83	GC1	nC22	207159	0.09
19)	42.94	GC1	nC23	206978	0.09
20)	44.98	GC1	nC24	296430	0.13
21)	46.93	GC1	nC25	507185	0.22
22)	48.82	GC1	nC26	639626	0.28
23)	50.64	GC1	nC27	830407	0.36
24)	52.40	GC1	nC28	951566	0.42
25)	54.10	GC1	nC29	1060959	0.47
26)	55.74	GC1	nC30	934830	0.41
27)	57.34	GC1	nC31	725223	0.32
28)	58.88	GC1	nC32	537908	0.24
29)	60.38	GC1	nC33	388945	0.17
30)	61.84	GC1	nC34	335763	0.15
31)	63.36	GC1	nC35	313090	0.14

Ratios:	Area	Amount
Pr/nC17	0.54	0.54
Ph/nC18	0.36	0.36
(Pr/nC17)/(Ph/nC18)	1.50	1.50
Pr/Ph	1.34	1.34
nC17/(nC17+nC27)	0.15	0.15
CPI-1	1.06	1.06
CPI-2 (2*nC27/(nC26+nC27))	1.13	1.13

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: 2991_43S.D
Sample name: 7216/11-1 S 2991,43m
Data File Path: C:\HPCHEM1\DATA\NAM_BAS\
Misc. info.:

Vial no.: 6
Method: MSD_S_E2
Operator: ANNE-KARIN
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.71	0.71
Ph/nC18	1.53	1.53
(Pr/nC17)/(Ph/nC18)	0.46	0.46
Pr/Ph	0.78	0.78
nC17/(nC17+nC27)	0.75	0.75
CPI-1	1.71	1.71
CPI-2 (2*nC27/(nC26+nC27))	1.32	1.32

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.02	GC1	C12D26	6066912	3.28
6)	25.34	GC1	C16D34	11351682	3.28
2)	10.33	GC1	nC11	2940	
3)	13.57	GC1	nC12	21162	
4)	16.83	GC1	nC13	476945	
5)	20.03	GC1	nC14	2376569	
7)	21.97	GC1	iC16	1605155	0.46
8)	23.07	GC1	nC15	1815402	0.52
9)	25.96	GC1	nC16	517085	0.15
10)	27.32	GC1	iC18	157631	0.05
11)	28.73	GC1	nC17	258742	0.07
12)	28.89	GC1	pristane	182887	0.05
13)	31.36	GC1	nC18	153735	0.04
14)	31.60	GC1	phytane	235646	0.07
15)	33.87	GC1	nC19	134968	0.04
16)	36.28	GC1	nC20	63232	0.02
17)	38.62	GC1	nC21	348708	0.10
18)	40.78	GC1	nC22	38423	0.01
19)	42.90	GC1	nC23	32522	0.01
20)	44.93	GC1	nC24	52219	0.02
21)	46.87	GC1	nC25	53785	0.02
22)	48.79	GC1	nC26	44933	0.01
23)	50.61	GC1	nC27	86418	0.02
24)	52.35	GC1	nC28	8359	0.00
25)	54.09	GC1	nC29	603923	0.17
26)	55.65	GC1	nC30	354788	0.10
27)	57.31	GC1	nC31	28449	0.01
28)	58.83	GC1	nC32	34112	0.01
29)	60.32	GC1	nC33	12849	0.00
30)	61.75	GC1	nC34	49894	0.01
31)	63.29	GC1	nC35	18228	0.01

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: 2991_45S.D
Sample name: 7216/11-1 S, 2991,45m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\

Misc. info.:
Vial no.: 7
Method: MSD_S_E2
Operator: annex
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	2.29	2.29
Ph/nC18	2.29	2.29
(Pr/nC17)/(Ph/nC18)	1.00	1.00
Pr/Ph	0.46	0.46
nC17/(nC17+nC27)	0.25	0.25
CPI-1	1.25	1.25
CPI-2 (2*nC27/(nC26+nC27))	1.80	1.80

#	Rt.min.	Signal	Compound	Area	Amount
FID					ug/mg
Internal standards (if added):					
1)	13.04	GC1	C12D26	2352681	3.70
6)	25.36	GC1	C16D34	6550210	3.70
2)	10.37	GC1	nC11	5398	
3)	13.62	GC1	nC12	26674	
4)	16.87	GC1	nC13	28758	
5)	20.05	GC1	nC14	77567	
7)	22.05	GC1	iC16	459944	0.26
8)	23.09	GC1	nC15	249066	0.14
9)	26.09	GC1	nC16	62874	0.04
10)	27.39	GC1	iC18	78330	0.04
11)	28.85	GC1	nC17	39093	0.02
12)	28.92	GC1	pristane	89676	0.05
13)	31.41	GC1	nC18	84695	0.05
14)	31.65	GC1	phytane	193729	0.11
15)	33.91	GC1	nC19	129819	0.07
16)	36.34	GC1	nC20	74912	0.04
17)	38.69	GC1	nC21	482754	0.27
18)	40.84	GC1	nC22	17418	0.01
19)	42.95	GC1	nC23	17962	0.01
20)	45.02	GC1	nC24	81368	0.05
21)	46.96	GC1	nC25	35593	0.02
22)	48.84	GC1	nC26	12696	0.01
23)	50.70	GC1	nC27	116642	0.07
24)	52.41	GC1	nC28	19142	0.01
25)	54.18	GC1	nC29	1276808	0.72
26)	55.74	GC1	nC30	1178061	0.67
27)	57.39	GC1	nC31	194332	0.11
28)	58.82	GC1	nC32	105219	0.06
29)	60.31	GC1	nC33	115566	0.07
30)	61.82	GC1	nC34	93553	0.05
31)	63.37	GC1	nC35	15721	0.01

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: 2991_50S.D
Sample name: 7216/11-1 S 2991,50m
Data File Path: C:\HPCHEM\1\DATA\NAM_BAS\

Misc. info.:

Vial no.: 7
Method: MSD_S_E2
Operator: ANNE-KARIN
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.01	GC1	C12D26	3762858	3.52
6)	25.32	GC1	C16D34	8032635	3.52
2)	10.33	GC1	nC11	1714	
3)	13.57	GC1	nC12	6868	
4)	16.83	GC1	nC13	105589	
5)	20.01	GC1	nC14	561658	
7)	21.96	GC1	iC16	412579	0.18
8)	23.05	GC1	nC15	471448	0.21
9)	25.96	GC1	nC16	152417	0.07
10)	27.34	GC1	iC18	150226	0.07
11)	28.74	GC1	nC17	124298	0.05
12)	28.90	GC1	pristane	240820	0.11
13)	31.28	GC1	nC18	666320	0.29
14)	31.64	GC1	phytane	594557	0.26
15)	33.85	GC1	nC19	112490	0.05
16)	36.28	GC1	nC20	68219	0.03
17)	38.64	GC1	nC21	620507	0.27
18)	40.79	GC1	nC22	26596	0.01
19)	42.95	GC1	nC23	65420	0.03
20)	44.96	GC1	nC24	69461	0.03
21)	46.90	GC1	nC25	46580	0.02
22)	48.81	GC1	nC26	50379	0.02
23)	50.64	GC1	nC27	143870	0.06
24)	52.31	GC1	nC28	44319	0.02
25)	54.13	GC1	nC29	1392256	0.61
26)	55.67	GC1	nC30	1141908	0.50
27)	57.33	GC1	nC31	84391	0.04
28)	58.77	GC1	nC32	130932	0.06
29)	60.41	GC1	nC33	132137	0.06
30)	61.76	GC1	nC34	97892	0.04
31)	63.29	GC1	nC35	21902	0.01

Ratios:	Area	Amount
Pr/nC17	1.94	1.94
Ph/nC18	0.89	0.89
(Pr/nC17)/(Ph/nC18)	2.17	2.17
Pr/Ph	0.41	0.41
nC17/(nC17+nC27)	0.46	0.46
CPI-1	1.25	1.25
CPI-2 (2*nC27/(nC26+nC27))	1.48	1.48

#	Rt.min.	Signal FID	Compound	Area	Amount µg/mg
Internal standards (if added):					
1)	13.05	GC1	C12D26	4828698	3.53
6)	25.36	GC1	C16D34	8713567	3.53
2)	10.37	GC1	nC11	1716	
3)	13.62	GC1	nC12	6333	
4)	16.87	GC1	nC13	4135	
5)	20.05	GC1	nC14	10117	
7)	22.04	GC1	iC16	5664	0.00
8)	23.09	GC1	nC15	14898	0.01
9)	26.00	GC1	nC16	26542	0.01
10)	27.38	GC1	iC18	7268	0.00
11)	28.76	GC1	nC17	30279	0.01
12)	28.93	GC1	pristane	18492	0.01
13)	31.40	GC1	nC18	36884	0.01
14)	31.65	GC1	phytane	15651	0.01
15)	33.91	GC1	nC19	49455	0.02
16)	36.31	GC1	nC20	54830	0.02
17)	38.61	GC1	nC21	71060	0.03
18)	40.82	GC1	nC22	59503	0.02
19)	42.93	GC1	nC23	56866	0.02
20)	44.97	GC1	nC24	64097	0.03
21)	46.92	GC1	nC25	70022	0.03
22)	48.81	GC1	nC26	62052	0.03
23)	50.63	GC1	nC27	64655	0.03
24)	52.38	GC1	nC28	69667	0.03
25)	54.09	GC1	nC29	122563	0.05
26)	55.73	GC1	nC30	53467	0.02
27)	57.33	GC1	nC31	50534	0.02
28)	58.88	GC1	nC32	36138	0.01
29)	60.38	GC1	nC33	25479	0.01
30)	61.84	GC1	nC34	22807	0.01
31)	63.36	GC1	nC35	12575	0.01

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: 2991_93S.D
Sample name: 7216/11-1 S, 2991,93m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\

Misc. info.:

Vial no.: 8
Method: MSD_S_E2
Operator: annek
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.61	0.61
Ph/nC18	0.42	0.42
(Pr/nC17)/(Ph/nC18)	1.44	1.44
Pr/Ph	1.18	1.18
nC17/(nC17+nC27)	0.32	0.32
CPI-1	1.31	1.31
CPI-2 (2*nC27/(nC26+nC27))	1.02	1.02

Saturated hydrocarbons

GC/FID detection HP-5890
Compound data and ratios



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

Data file name: M2000_S.D
Sample name: 7216/11-1 MUD 2000m SAT
Data File Path: C:\HPCHEM\1\DATA\VRAN_PRI

Misc. info.:

Vial no.: 8
Method: MSD_S_E2
Operator: ANNEK
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.55	0.55
Ph/nC18	0.29	0.29
(Pr/nC17)/(Ph/nC18)	1.89	1.89
Pr/Ph	1.50	1.50
nC17/(nC17+nC27)	0.75	0.75
CPI-1	0.98	0.98
CPI-2 (2*nC27/(nC26+nC27))	1.00	1.00

#	Rt.min.	Signal	Compound	Area	Amount
		FID			ug/mg
Internal standards (if added):					
1)	13.09	GC1	C12D26	13694093	6.88
6)	25.42	GC1	C16D34	25289826	6.88
2)	10.45	GC1	nC11	7711	
3)	13.61	GC1	nC12	17490	
4)	16.86	GC1	nC13	86095	
5)	20.04	GC1	nC14	197065	
7)	21.99	GC1	iC16	87212	0.02
8)	23.09	GC1	nC15	106706	0.03
9)	26.00	GC1	nC16	48414	0.01
10)	27.36	GC1	iC18	6411	0.00
11)	28.76	GC1	nC17	20552	0.01
12)	28.92	GC1	pristane	11321	0.00
13)	31.39	GC1	nC18	25830	0.01
14)	31.64	GC1	phytane	7543	0.00
15)	33.90	GC1	nC19	13438	0.00
16)	36.30	GC1	nC20	17113	0.00
17)	38.61	GC1	nC21	10847	0.00
18)	40.81	GC1	nC22	9781	0.00
19)	42.92	GC1	nC23	5614	0.00
20)	44.96	GC1	nC24	8007	0.00
21)	46.91	GC1	nC25	12849	0.00
22)	48.79	GC1	nC26	6967	0.00
23)	50.62	GC1	nC27	6932	0.00
24)	52.37	GC1	nC28	7186	0.00
25)	54.07	GC1	nC29	8581	0.00
26)	55.72	GC1	nC30	7190	0.00
27)	57.32	GC1	nC31	5272	0.00
28)	58.90	GC1	nC32	20339	0.01
29)	65.57	GC1	nC33	4424721	1.20
30)	61.84	GC1	nC34	2984	0.00
31)	63.33	GC1	nC35	4855	0.00

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: M2758_S.D
Sample name: 7216/11-1 MUD 2758m SAT
Data File Path: C:\HPCHEM\1\DATA\IRAN_P\

Misc. info.:

Vial no.: 9
Method: MSD_S_E2
Operator: ANNEK
Date: #VALUE!

Response curve y = ax
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.54	0.54
Ph/nC18	0.14	0.14
(Pr/nC17)/(Ph/nC18)	3.83	3.83
Pr/Ph	2.27	2.27
nC17/(nC17+nC27)	0.81	0.81
CPI-1	1.23	1.23
CPI-2 (2*nC27/(nC26+nC27))	1.08	1.08

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.08	GC1	C12D26	13908302	3.96
6)	25.41	GC1	C16D34	23253304	3.96
2)	10.43	GC1	nC11	8159	
3)	13.61	GC1	nC12	28291	
4)	16.86	GC1	nC13	170534	
5)	20.04	GC1	nC14	406646	
7)	21.99	GC1	iC16	166390	0.03
8)	23.08	GC1	nC15	194437	0.03
9)	25.99	GC1	nC16	92007	0.02
10)	27.36	GC1	iC18	10598	0.00
11)	28.75	GC1	nC17	27005	0.00
12)	28.92	GC1	pristane	14666	0.00
13)	31.39	GC1	nC18	45631	0.01
14)	31.64	GC1	phytane	6466	0.00
15)	33.90	GC1	nC19	11424	0.00
16)	36.30	GC1	nC20	29353	0.00
17)	38.60	GC1	nC21	7603	0.00
18)	40.80	GC1	nC22	13357	0.00
19)	42.92	GC1	nC23	5206	0.00
20)	44.95	GC1	nC24	8607	0.00
21)	46.91	GC1	nC25	7425	0.00
22)	48.79	GC1	nC26	5412	0.00
23)	50.61	GC1	nC27	6367	0.00
24)	52.37	GC1	nC28	4185	0.00
25)	54.07	GC1	nC29	6322	0.00
26)	55.72	GC1	nC30	5167	0.00
27)	57.31	GC1	nC31	6022	0.00
28)	58.87	GC1	nC32	4572	0.00
29)	60.36	GC1	nC33	4021	0.00
30)	61.83	GC1	nC34	3277	0.00
31)	63.36	GC1	nC35	2589	0.00

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: **M3200_S.D**
Sample name: **7216/11-1 MUD 3200m SAT**
Data File Path: **C:\HPCHEM\1\DATA\VRAN_PR**
Misc. info.:

Vial no.: 10
Method: **MSD_S_E2**
Operator: **ANNEK**
Date: **#VALUE!**

Response curve $y = ax$
Response factors equally 1.0

Ratios:	Area	Amount
Pr/nC17	0.68	0.68
Ph/nC18	0.21	0.21
(Pr/nC17)/(Ph/nC18)	3.24	3.24
Pr/Ph	2.20	2.20
nC17/(nC17+nC27)	0.76	0.76
CPI-1	1.11	1.11
CPI-2 (2*nC27/(nC26+nC27))	0.94	0.94

#	Rt.min.	Signal	Compound	Area	Amount
FID					ug/mg
Internal standards (if added):					
1)	13.07	GC1	C12D26	9995931	6.00
6)	25.39	GC1	C16D34	17437983	6.00
2)	10.36	GC1	nC11	5186	
3)	13.60	GC1	nC12	14666	
4)	16.86	GC1	nC13	46437	
5)	20.04	GC1	nC14	116012	
7)	21.99	GC1	iC16	43838	0.02
8)	23.08	GC1	nC15	61757	0.02
9)	25.99	GC1	nC16	42370	0.01
10)	27.35	GC1	iC18	4883	0.00
11)	28.75	GC1	nC17	19919	0.01
12)	28.92	GC1	pristane	13475	0.00
13)	31.38	GC1	nC18	29371	0.01
14)	31.64	GC1	phytane	6138	0.00
15)	33.90	GC1	nC19	17418	0.01
16)	36.30	GC1	nC20	23319	0.01
17)	38.60	GC1	nC21	14253	0.00
18)	40.81	GC1	nC22	13671	0.00
19)	42.92	GC1	nC23	13169	0.00
20)	44.96	GC1	nC24	10132	0.00
21)	46.91	GC1	nC25	7363	0.00
22)	48.79	GC1	nC26	7130	0.00
23)	50.62	GC1	nC27	6383	0.00
24)	52.37	GC1	nC28	5595	0.00
25)	54.08	GC1	nC29	7683	0.00
26)	55.72	GC1	nC30	4280	0.00
27)	57.31	GC1	nC31	5551	0.00
28)	58.86	GC1	nC32	4828	0.00
29)	60.35	GC1	nC33	3094	0.00
30)	61.82	GC1	nC34	2011	0.00
31)	63.34	GC1	nC35	1838	0.00

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: **M4230_S.D**
Sample name: **7216/11-1 MUD 4230m SAT**
Data File Path: **C:\HPCHEM1\DATA\IRAN_PV**
Misc. info.:

Vial no.: 11
Method: MSD_S_E2
Operator: ANNEK
Date: #VALUE!

Response curve $y = ax$
Response factors equally 1.0

#	Rt.min.	Signal FID	Compound	Area	Amount µg/mg
Internal standards (if added):					
1)	13.08	GC1	C12D26	14084386	3.92
6)	25.41	GC1	C16D34	24354426	3.92
2)	10.37	GC1	nC11	3790	
3)	13.60	GC1	nC12	13613	
4)	16.86	GC1	nC13	39487	
5)	20.03	GC1	nC14	113780	
7)	21.98	GC1	iC16	47934	0.01
8)	23.08	GC1	nC15	62879	0.01
9)	25.99	GC1	nC16	51290	0.01
10)	27.35	GC1	iC18	8034	0.00
11)	28.75	GC1	nC17	20188	0.00
12)	28.92	GC1	pristane	13272	0.00
13)	31.38	GC1	nC18	32574	0.01
14)	31.63	GC1	phytane	5467	0.00
15)	33.90	GC1	nC19	14484	0.00
16)	36.30	GC1	nC20	23346	0.00
17)	38.60	GC1	nC21	10740	0.00
18)	40.80	GC1	nC22	13376	0.00
19)	42.91	GC1	nC23	9142	0.00
20)	44.95	GC1	nC24	11181	0.00
21)	46.91	GC1	nC25	8421	0.00
22)	48.79	GC1	nC26	5521	0.00
23)	50.61	GC1	nC27	4610	0.00
24)	52.37	GC1	nC28	3632	0.00
25)	54.07	GC1	nC29	5775	0.00
26)	55.71	GC1	nC30	2702	0.00
27)	57.31	GC1	nC31	4095	0.00
28)	58.87	GC1	nC32	2885	0.00
29)	60.36	GC1	nC33	3166	0.00
30)	61.82	GC1	nC34	1106	0.00
31)	63.35	GC1	nC35	1193	0.00

Ratios:	Area	Amount
Pr/nC17	0.66	0.66
Ph/nC18	0.17	0.17
(Pr/nC17)/(Ph/nC18)	3.92	3.92
Pr/Ph	2.43	2.43
nC17/(nC17+nC27)	0.81	0.81
CPI-1	1.27	1.27
CPI-2 (2*nC27/(nC26+nC27))	0.91	0.91

#	Rt.min.	Signal	Compound	Area	Amount
		FID		ug/mg	
Internal standards (if added):					
1)	13.04	GC1	C12D26	3061906	4.00
6)	25.34	GC1	C16D34	4153316	4.00
2)	10.37	GC1	nC11	5049484	
3)	13.63	GC1	nC12	5524030	
4)	16.91	GC1	nC13	5681589	
5)	20.09	GC1	nC14	5857112	
7)	21.98	GC1	iC16	2424029	2.33
8)	23.14	GC1	nC15	5951558	5.73
9)	26.05	GC1	nC16	5151592	4.96
10)	27.39	GC1	iC18	1737090	1.67
11)	28.81	GC1	nC17	4977670	4.79
12)	28.96	GC1	pristane	2816028	2.71
13)	31.44	GC1	nC18	4139517	3.99
14)	31.67	GC1	phytane	2022394	1.95
15)	33.95	GC1	nC19	3691139	3.55
16)	36.35	GC1	nC20	3341044	3.22
17)	38.65	GC1	nC21	2971095	2.86
18)	40.86	GC1	nC22	2680284	2.58
19)	42.96	GC1	nC23	2407501	2.32
20)	45.00	GC1	nC24	2391381	2.30
21)	46.95	GC1	nC25	2030961	1.96
22)	48.84	GC1	nC26	1703989	1.64
23)	50.66	GC1	nC27	1408957	1.36
24)	52.41	GC1	nC28	1311040	1.26
25)	54.11	GC1	nC29	1292862	1.25
26)	55.76	GC1	nC30	869212	0.84
27)	57.35	GC1	nC31	867857	0.84
28)	58.89	GC1	nC32	649325	0.63
29)	60.40	GC1	nC33	611513	0.59
30)	61.86	GC1	nC34	790001	0.76
31)	63.38	GC1	nC35	553206	0.53

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_2S.D
Sample name: nso1 sat
Data File Path: C:\HPCHEM\1\DATA\7216\

Misc. info.:

Vial no.: 1
Method: MSD_S_E2
Operator: annek
Date: #VALUE!

Response curve y = ax
Response factors 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	1.39	1.39
nC17/(nC17+nC27)	0.78	0.78
CPI-1	1.06	1.06
CPI-2 (2*nC27/(nC26+nC27))	0.91	0.91

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_26S.D
 Sample name: nso1_26ref.sat
 Data File Path: C:\HPCHEM1\DATA\IRAN_PR\

Misc. info.:

Vial no.: 1
 Method: MSD_S_E2
 Operator: ANNEK
 Date: #VALUE!

Response curve y = ax
 Response factors equally 1.0

#	Rt.min.	Signal	Compound	Area	Amount
		FID			ug/mg
Internal standards (if added):					
1)	13.06	GC1	C12D26	7353392	4.00
6)	25.37	GC1	C16D34	8347684	4.00
2)	10.40	GC1	nC11	12995173	
3)	13.66	GC1	nC12	12993449	
4)	16.94	GC1	nC13	12133174	
5)	20.12	GC1	nC14	12010629	
7)	21.99	GC1	iC16	4948332	2.37
8)	23.18	GC1	nC15	11944659	5.72
9)	26.08	GC1	nC16	11093909	5.32
10)	27.40	GC1	iC18	3459163	1.66
11)	28.84	GC1	nC17	10179240	4.88
12)	28.99	GC1	pristane	5645425	2.71
13)	31.47	GC1	nC18	8364062	4.01
14)	31.69	GC1	phytane	4068905	1.95
15)	33.98	GC1	nC19	7487036	3.59
16)	36.38	GC1	nC20	6731290	3.23
17)	38.67	GC1	nC21	5955826	2.85
18)	40.88	GC1	nC22	5374061	2.58
19)	42.98	GC1	nC23	4827794	2.31
20)	45.02	GC1	nC24	4676045	2.24
21)	46.97	GC1	nC25	4018135	1.93
22)	48.85	GC1	nC26	3413417	1.64
23)	50.66	GC1	nC27	2780972	1.33
24)	52.42	GC1	nC28	2582887	1.24
25)	54.12	GC1	nC29	2605757	1.25
26)	55.76	GC1	nC30	1741027	0.83
27)	57.35	GC1	nC31	1706545	0.82
28)	58.89	GC1	nC32	1368453	0.66
29)	60.39	GC1	nC33	1228060	0.59
30)	61.85	GC1	nC34	1542495	0.74
31)	63.37	GC1	nC35	1099277	0.53

Ratios:	Area	Amount
Pr/nC17	0.55	0.55
Ph/nC18	0.49	0.49
(Pr/nC17)/(Ph/nC18)	1.14	1.14
Pr/Ph	1.39	1.39
nC17/(nC17+nC27)	0.79	0.79
CPI-1	1.06	1.06
CPI-2 (2*nC27/(nC26+nC27))	0.90	0.90

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_13S.D**
Sample name: **nso1_13 ref.sat**
Data File Path: **C:\HPCHEM1\DATA\NAM_BAS**
Misc. info.:

Vial no.: **1**
Method: **MSD_S_E2**
Operator: **ANNE-KARIN**
Date: **#VALUE!**

Response curve $y = ax$
Response factors equally 1.0

#	Rt.min.	Signal FID	Compound	Area	Amount ug/mg
Internal standards (if added):					
1)	13.02	GC1	C12D26	5466273	4.00
6)	25.32	GC1	C16D34	6827965	4.00
2)	10.34	GC1	nC11	9825032	
3)	13.61	GC1	nC12	10573346	
4)	16.89	GC1	nC13	10083009	
5)	20.07	GC1	nC14	10035008	
7)	21.94	GC1	iC16	4059232	2.38
8)	23.12	GC1	nC15	9792196	5.74
9)	26.03	GC1	nC16	8748419	5.13
10)	27.36	GC1	iC18	2870588	1.68
11)	28.79	GC1	nC17	7960954	4.66
12)	28.94	GC1	pristane	4453676	2.61
13)	31.42	GC1	nC18	6558497	3.84
14)	31.65	GC1	phytane	3193074	1.87
15)	33.93	GC1	nC19	5827585	3.41
16)	36.33	GC1	nC20	5229643	3.06
17)	38.62	GC1	nC21	4688021	2.75
18)	40.82	GC1	nC22	4186531	2.45
19)	42.94	GC1	nC23	3775984	2.21
20)	44.96	GC1	nC24	3758903	2.20
21)	46.92	GC1	nC25	3241118	1.90
22)	48.80	GC1	nC26	2677184	1.57
23)	50.62	GC1	nC27	2197259	1.29
24)	52.38	GC1	nC28	2011525	1.18
25)	54.07	GC1	nC29	2114805	1.24
26)	55.72	GC1	nC30	1431786	0.84
27)	57.30	GC1	nC31	1329695	0.78
28)	58.85	GC1	nC32	1022439	0.60
29)	60.35	GC1	nC33	952210	0.56
30)	61.81	GC1	nC34	1126361	0.66
31)	63.32	GC1	nC35	660822	0.39

Ratios:	Area	Amount
Pr/nC17	0.56	0.56
Ph/nC18	0.49	0.49
(Pr/nC17)/(Ph/nC18)	1.15	1.15
Pr/Ph	1.39	1.39
nC17/(nC17+nC27)	0.78	0.78
CPI-1	1.07	1.07
CPI-2 (2*nC27/(nC26+nC27))	0.90	0.90

Appendix F:

GC- MSD of the C15+ saturate hydrocarbons in core samples

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Diterpanes:						
2)	34.16	191.2	s1	19/3	27	0
3)	36.15	191.2	s1	20/3	28	0
4)	38.19	191.2	s1	21/3	57	0
5)	42.18	191.2	s1	23/3	161	1
6)	43.30	191.2	s1	24/3	90	1
7)	45.60	191.2	s1	25/3	33	0
8)	47.13	191.2	s1	24/4	122	1
9)	47.22	191.2	s1	26/3R	26	0
10)	47.36	191.2	s1	26/3S	21	0
11)	50.87	191.2	s1	28/3R	25	0
12)	51.13	191.2	s1	28/3S	17	0
13)	51.91	191.2	s1	29/3R	24	0
14)	52.24	191.2	s1	29/3S	43	0
Triterpanes:						
15)	53.09	191.2	s1	27Ts	122	1
16)	53.34	177.15	s1	25nor28ab	516	3
17)	53.77	191.2	s1	27Tm	81	0
18)	54.14	177.15	s1	25nor29ab	63	0
19)	54.20	191.2	s1	27b	12	0
20)	55.29	191.2	s1	28ab	150	1
21)	55.53	177.15	s1	25nor30ab	55	0
22)	56.03	191.2	s1	29ab	204	1
23)	56.14	191.2	s1	29Ts	76	0
24)	56.38	191.2	s1	30D	36	0
25)	56.82	191.2	s1	29ba	42	0
26)	57.41	191.2	s2	30ab	303	1
27)	57.75	191.2	s1	30D13	23	0
28)	58.03	191.2	s2	30ba	36	0
29)	58.99	191.2	s1	31abS	122	1
30)	59.19	191.2	s1	31abR	99	1
31)	59.52	191.2	s1	30G	17	0
32)	59.72	191.2	s1	31ba	24	0
33)	60.23	191.2	s1	32abS	75	0
34)	60.49	191.2	s1	32abR	65	0
35)	61.66	191.2	s1	33abS	54	0
36)	62.03	191.2	s1	33abR	47	0
37)	63.24	191.2	s1	34abS	34	0
38)	63.74	191.2	s1	34abR	33	0
39)	65.03	191.2	s1	35abS	28	0
40)	65.77	191.2	s1	35abR	31	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: 2988S.D
Sample name: 7216/11-1 S, 2988m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 2
Method: MSD_S_E2
Operator: annek
Date: 1 Nov 2000 16:41

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)	38.70	217.2	s3	21aa	34	0
42)	40.38	217.2	s3	21bb	54	0
43)	40.49	217.2	s3	22aa	33	0
44)	42.73	217.2	s3	22bb	38	0
45)	49.06	217.2	s3	27dbS	97	1
46)	49.68	217.2	s3	27dbR	58	1
47)	52.05	218.2	s3	27bbR	72	1
48)	52.20	218.2	s3	27bbS	52	0
49)	52.59	217.2	s3	27aaR	40	0
50)	53.80	218.2	s3	28bbR	31	0
51)	53.94	218.2	s3	28bbS	41	0
52)	54.92	217.2	s3	29aaS	29	0
53)	55.22	218.2	s3	29bbR	54	0
54)	55.33	218.2	s3	29bbS	42	0
55)	55.93	217.2	s3	29aaR	50	0
56)	56.42	218.2	s3	30bbR	15	0
57)	56.45	218.2	s3	30bbS	14	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: 2988S.D
Sample name: 7216/11-1 S, 2988m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 2
Method: MSD_S_E2
Operator: annek
Date: 1 Nov 2000 16:41

Terpane ratios, heights and amounts		Height	Amount
$100 * ((\text{sum}20-25)/3 + 26/3(R+S)) /$			
$((\text{sum}20-25)/3 + 26/3(R+S) + 27(Ts+Tm) + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%Tri	21	23
$100 * 20/3 / ((\text{sum}20-25)/3 + 26/3(R+S))$	%20/3	7	7
$100 * 23/3 / (23/3 + 24/3 + 25/3)$	%23/3	57	57
$100 * 24/4 / (24/4 + 24/3 + 25/3)$	%24/4	50	50
$100 * Ts / (Ts + Tm)$	%27Ts	60	60
$100 * 28ab / (28ab + 30ab)$	%28ab	33	43
$100 * 29Ts / (29Ts + 29ab)$	%29Ts	27	27
$100 * 25nor30ab / (25nor30ab + 30ab)$	%25nor30ab	15	22
$100 * 29ab / (29ab + 30ab)$	%29ab	40	51
$100 * 30ba / (30ba + 30ab)$	%30ba	11	11
$100 * 30D / (30D + 30ab)$	%30D	11	16
$100 * 30G / (30G + 30ab)$	%30G	5	8
$100 * 32abS / (32ab(S+R))$	%32abS	54	54
$100 * 35ab(S+R) / (34-35ab(S+R))$	%35ab	47	47
$100 * (27Ts + 27Tm) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%27HOP	13	14
$100 * (28ab) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%28HOP	10	11
$100 * (29ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%29HOP	16	18
$100 * (30ab + ba) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%30HOP	22	16
$100 * 31ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%31HOP	14	16
$100 * 32ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%32HOP	9	10
$100 * 33ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%33HOP	7	7
$100 * 34ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%34HOP	4	5
$100 * 35ab(S+R) / (27Ts + 27Tm + 28ab + \text{sum}29-30(ab+ba) + \text{sum}31-35ab(R+S))$	%35HOP	4	4
Sterane ratios			
$100 * (21+22)bb / ((21+22)bb + (27+28+29+30)bb(R+S))$	%Preg	22	22
$100 * 29aaS / 29aa(R+S)$	%29aaS	37	37
$100 * 29bb(R+S) / (29bb(R+S) + 29aa(S+R))$	%29bb	55	55
$100 * 27db(S+R) / ((27db(S+R) + 27bb(R+S))$	%27dia	56	56
$100 * 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	39	39
$100 * 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	22	22
$100 * 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	30	30
$100 * 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	9	9
Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	5	3

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Diterpanes:						
2)	34.16	191.2	s1	19/3	20	0
3)	36.15	191.2	s1	20/3	13	0
4)	38.19	191.2	s1	21/3	31	0
5)	42.17	191.2	s1	23/3	105	1
6)	43.29	191.2	s1	24/3	68	1
7)	45.58	191.2	s1	25/3	32	0
8)	47.12	191.2	s1	24/4	63	0
9)	47.22	191.2	s1	26/3R	19	0
10)	47.35	191.2	s1	26/3S	22	0
11)	50.88	191.2	s1	28/3R	9	0
12)	51.12	191.2	s1	28/3S	19	0
13)	51.90	191.2	s1	29/3R	21	0
14)	52.23	191.2	s1	29/3S	42	0
Triterpanes:						
15)	53.09	191.2	s1	27Ts	82	1
16)	53.33	177.15	s1	25nor28ab	913	7
17)	53.76	191.2	s1	27Tm	85	1
18)	54.14	177.15	s1	25nor29ab	96	1
19)	54.21	191.2	s1	27b	10	0
20)	55.29	191.2	s1	28ab	994	8
21)	55.53	177.15	s1	25nor30ab	53	0
22)	56.02	191.2	s1	29ab	207	2
23)	56.12	191.2	s1	29Ts	60	0
24)	56.37	191.2	s1	30D	30	0
25)	56.83	191.2	s1	29ba	75	1
26)	57.40	191.2	s2	30ab	315	2
27)	57.72	191.2	s1	30D13	35	0
28)	58.04	191.2	s2	30ba	48	0
29)	58.99	191.2	s1	31abS	106	1
30)	59.18	191.2	s1	31abR	110	1
31)	59.52	191.2	s1	30G	27	0
32)	59.71	191.2	s1	31ba	37	0
33)	60.22	191.2	s1	32abS	64	1
34)	60.50	191.2	s1	32abR	59	0
35)	61.66	191.2	s1	33abS	51	0
36)	62.04	191.2	s1	33abR	43	0
37)	63.23	191.2	s1	34abS	32	0
38)	63.73	191.2	s1	34abR	19	0
39)	65.02	191.2	s1	35abS	29	0
40)	65.75	191.2	s1	35abR	15	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: 2990S.D
Sample name: 7216/11-1 S, 2990m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info.:

Vial no.: 3
Method: MSD_S_E2
Operator: annek
Date: 1 Nov 2000 18:10

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)	38.70	217.2	s3	21aa	39	0
42)	40.37	217.2	s3	21bb	47	1
43)	40.49	217.2	s3	22aa	38	0
44)	42.72	217.2	s3	22bb	38	0
45)	49.05	217.2	s3	27dbS	95	1
46)	49.68	217.2	s3	27dbR	54	1
47)	52.05	218.2	s3	27bbR	68	1
48)	52.20	218.2	s3	27bbS	41	0
49)	52.60	217.2	s3	27aaR	55	1
50)	53.80	218.2	s3	28bbR	33	0
51)	53.93	218.2	s3	28bbS	34	0
52)	54.92	217.2	s3	29aaS	19	0
53)	55.21	218.2	s3	29bbR	50	1
54)	55.32	218.2	s3	29bbS	51	1
55)	55.93	217.2	s3	29aaR	64	1
56)	56.40	218.2	s3	30bbR	13	0
57)	56.46	218.2	s3	30bbS	8	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: 2990S.D
Sample name: 7216/11-1 S, 2990m SAT
Data File Path: C:\HPCHEM\1\DATA\7216
Misc. info.:

Vial no.: 3
Method: MSD_S_E2
Operator: annek
Date: 1 Nov 2000 18:10

Terpane ratios, heights and amounts

		Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(R+S)) / ((\text{sum}20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%Tri	11	12
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	4	4
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	51	51
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	39	39
$100 \cdot Ts / (Ts+Tm)$	%27Ts	49	49
$100 \cdot 28ab / (28ab+30ab)$	%28ab	76	83
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	22	22
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	14	21
$100 \cdot 29ab / (29ab+30ab)$	%29ab	40	51
$100 \cdot 30ba / (30ba+30ab)$	%30ba	13	13
$100 \cdot 30D / (30D+30ab)$	%30D	9	13
$100 \cdot 30G / (30G+30ab)$	%30G	8	12
$100 \cdot 32abS / (32ab(S+R))$	%32abS	52	52
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	46	46
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	7	8
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	43	45
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	12	13
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	16	11
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	9	10
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%32HOP	5	6
$100 \cdot 33ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%33HOP	4	4
$100 \cdot 34ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%34HOP	2	2
$100 \cdot 35ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%35HOP	2	2

Sterane ratios

$100 \cdot (21+22)bb / ((21+22)bb+(27+28+29+30)bb(R+S))$	%Preg	22	22
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	23	23
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	55	55
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	58	58
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	37	37
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	22	22
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	34	34
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	7	7

Hopanes/Steranes ratio-2 (only bb steranes)

Ho/St2	8	5
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#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Diterpanes:						
2)	34.16	191.2	s1	19/3	267	3
3)	36.16	191.2	s1	20/3	155	2
4)	38.18	191.2	s1	21/3	148	2
5)	42.17	191.2	s1	23/3	235	3
6)	43.29	191.2	s1	24/3	213	3
7)	45.57	191.2	s1	25/3	59	1
8)	47.12	191.2	s1	24/4	407	5
9)	47.21	191.2	s1	26/3R	50	1
10)	47.34	191.2	s1	26/3S	56	1
11)	50.88	191.2	s1	28/3R	41	1
12)	51.13	191.2	s1	28/3S	42	1
13)	51.91	191.2	s1	29/3R	68	1
14)	52.21	191.2	s1	29/3S	66	1
Triterpanes:						
15)	53.09	191.2	s1	27Ts	674	9
16)	53.33	177.15	s1	25nor28ab	1741	23
17)	53.76	191.2	s1	27Tm	1077	14
18)	54.13	177.15	s1	25nor29ab	2998	39
19)	54.20	191.2	s1	27b	29	0
20)	55.31	191.2	s1	28ab	421	5
21)	55.54	177.15	s1	25nor30ab	2111	27
22)	56.02	191.2	s1	29ab	706	9
23)	56.14	191.2	s1	29Ts	1135	15
24)	56.37	191.2	s1	30D	316	4
25)	56.83	191.2	s1	29ba	483	6
26)	57.40	191.2	s2	30ab	1127	9
27)	57.76	191.2	s1	30D13	323	4
28)	58.04	191.2	s2	30ba	416	3
29)	59.00	191.2	s1	31abS	528	7
30)	59.19	191.2	s1	31abR	298	4
31)	59.53	191.2	s1	30G	189	2
32)	59.70	191.2	s1	31ba	118	2
33)	60.23	191.2	s1	32abS	477	6
34)	60.50	191.2	s1	32abR	316	4
35)	61.66	191.2	s1	33abS	364	5
36)	62.03	191.2	s1	33abR	263	3
37)	63.23	191.2	s1	34abS	204	3
38)	63.73	191.2	s1	34abR	134	2
39)	65.02	191.2	s1	35abS	119	2
40)	65.76	191.2	s1	35abR	94	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: 2991_10S.D
Sample name: 7216/11-1 S, 2991,10m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\
Misc. info:

Vial no.: 4
Method: MSD_S_E2
Operator: annex
Date: 1 Nov 2000 19:38

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)	38.70	217.2	s3	21aa	176	3
42)	40.36	217.2	s3	21bb	204	4
43)	40.48	217.2	s3	22aa	162	3
44)	42.72	217.2	s3	22bb	131	2
45)	49.05	217.2	s3	27dbS	559	10
46)	49.69	217.2	s3	27dbR	368	7
47)	52.04	218.2	s3	27bbR	337	6
48)	52.19	218.2	s3	27bbS	215	4
49)	52.59	217.2	s3	27aaR	988	19
50)	53.80	218.2	s3	28bbR	221	4
51)	53.94	218.2	s3	28bbS	230	4
52)	54.91	217.2	s3	29aaS	216	4
53)	55.23	218.2	s3	29bbR	354	7
54)	55.34	218.2	s3	29bbS	243	5
55)	55.93	217.2	s3	29aaR	981	18
56)	56.41	218.2	s3	30bbR	55	1
57)	56.47	218.2	s3	30bbS	65	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: 2991_10S.D
Sample name: 7216/11-1 S, 2991,10m SAT
Data File Path: C:\HPCHEM\1\DATA\7216\

Misc. info.:

Vial no.: 4
Method: MSD_S_E2
Operator: annek
Date: 1 Nov 2000 19:38

Terpane ratios, heights and amounts		Height	Amount
$100 \cdot ((\text{sum}20-25)/3+26/3(R+S)) / ((\text{sum}20-25)/3+26/3(R+S)+27(Ts+Tm)+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%Tri	11	11
$100 \cdot 20/3 / ((\text{sum}20-25)/3+26/3(R+S))$	%20/3	17	17
$100 \cdot 23/3 / (23/3+24/3+25/3)$	%23/3	46	46
$100 \cdot 24/4 / (24/4+24/3+25/3)$	%24/4	60	60
$100 \cdot Ts / (Ts+Tm)$	%27Ts	38	38
$100 \cdot 28ab / (28ab+30ab)$	%28ab	27	37
$100 \cdot 29Ts / (29Ts+29ab)$	%29Ts	62	62
$100 \cdot 25nor30ab / (25nor30ab+30ab)$	%25nor30ab	65	74
$100 \cdot 29ab / (29ab+30ab)$	%29ab	39	49
$100 \cdot 30ba / (30ba+30ab)$	%30ba	27	27
$100 \cdot 30D / (30D+30ab)$	%30D	22	30
$100 \cdot 30G / (30G+30ab)$	%30G	14	21
$100 \cdot 32abS / (32ab(S+R))$	%32abS	60	60
$100 \cdot 35ab(S+R) / (34-35ab(S+R))$	%35ab	39	39
$100 \cdot (27Ts+27Tm) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%27HOP	23	24
$100 \cdot (28ab) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%28HOP	5	6
$100 \cdot (29ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%29HOP	15	17
$100 \cdot (30ab+ba) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%30HOP	20	14
$100 \cdot 31ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%31HOP	11	12
$100 \cdot 32ab(S+R) / (27Ts+27Tm+28ab+\text{sum}29-30(ab+ba)+\text{sum}31-35ab(R+S))$	%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	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	16	16
$100 \cdot 29aaS / 29aa(R+S)$	%29aaS	18	18
$100 \cdot 29bb(R+S) / (29bb(R+S)+29aa(S+R))$	%29bb	33	33
$100 \cdot 27db(S+R) / ((27db(S+R)+27bb(R+S))$	%27dia	63	63
$100 \cdot 27bb(R+S) / (27+28+29+30)bb(R+S)$	%27STER	32	32
$100 \cdot 28bb(R+S) / (27+28+29+30)bb(R+S)$	%28STER	26	26
$100 \cdot 29bb(R+S) / (27+28+29+30)bb(R+S)$	%29STER	35	35
$100 \cdot 30bb(R+S) / (27+28+29+30)bb(R+S)$	%30STER	7	7
Hopanes/Steranes ratio-2 (only bb steranes)	Ho/St2	4	3