

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: **A2320.D**
 Sample name: **30/6-25S 2320m ARO**
 Data File Path: **C:\HPCHEM\2\DATA\306_25S1**
 Misc. info.:

Vial no.: **11**
 Method: **MSD_A_D**
 Operator: **Arne**
 Date: **#VALUE!**

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	27332	36
C1 Naphthanes	Sum C1 Naphthanes	202618	210
C2 Naphthanes	Sum C2 Naphthanes	643592	625
C3 Naphthanes	Sum C3 Naphthanes	711652	703
Phenanthrene	Phenanthrene	306849	115
C1 Phenanthrenes	Sum C1 Phenanthrenes	700291	308
C2 Phenanthrenes	Sum C2 Phenanthrenes	615827	259
3/2*(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	2.2	2.2
100*20TA/(20TA+S28TA+R28TA)	%-TAS'n	20.1	20.1
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.1	0.2
BP/1.6DMN	BP/1.6DMN	0.6	0.4
2MN/1MN	2MN/1MN	1.0	1.0
2EN/1EN	2EN/1EN	1.4	1.4
4MDBT/1MDBT	4MDBT/1MDBT	2.6	2.6

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
14)	11.43	136		d8N	2709	32
16)	20.83	164		d10BP	4406	31
59)	29.19	188		d10P	36992	32
79)	44.64	240		d12C	39431	32
Aryl isoprenoids:						
1)	20.22	133	0	C13AI	928	
2)	22.13	133	0	C14AI	456	
3)	26.43	133	0	C15AI	905	
4)	28.81	133	0	C16AI	774	
5)	30.72	133	0	C17AI	656	
6)	33.79	133	0	C18AI	520	
7)	34.54	133	0	C19AI	943	
8)	37.80	133	0	C20AI	138	
9)	39.73	133	0	C21AI	264	
10)	42.75	133	0	C22AI	387	
11)	44.73	133	0	C23AI	173	
12)	55.79	133	0	C30AI	183	
13)	56.67	133	0	C31AI	55	
Naphthalenes:						
15)	11.52	128	a1	N	1529	17
17)	15.07	142	a2	2-MN	5949	40
18)	15.62	142	a2	1-MN	5744	38
19)	18.24	156	a3	2-EN	1598	10
20)	18.35	156	a3	1-EN	1122	7
21)	18.58	156	a3	2,6+2,7-DMN	9849	62
22)	19.03	156	a3	1,3+1,7-DMN	17378	109
23)	19.13	156	a3	1,6-DMN	11986	75
24)	19.64	156	a3	2,3+1,4-DMN	7597	48
25)	19.74	156	a3	1,5-DMN	4666	29
26)	20.11	156	a3	1,2-DMN	3612	23
27)	21.80	170	a4	C3-N-1	1877	12
28)	22.16	170	a4	C3-N-2	1978	13
29)	22.27	170	a4	1,3,7-TMN	10128	65
30)	22.41	170	a4	1,3,6-TMN	15121	96
31)	22.89	170	a4	1,3,5+1,4,6-TMN	14565	93
32)	22.97	170	a4	2,3,6-TMN	10447	67
33)	23.38	170	a4	1,6,7+1,2,7-TMN	9763	62
34)	23.44	170	a4	1,2,6-TMN	6443	41
35)	23.87	170	a4	1,2,4-TMN	2046	13
36)	24.08	170	a4	1,2,5-TMN	9186	59
Biphenyls:						
37)	17.78	154	a5	BP	13883	61
38)	21.06	168	a5	3-MBP	25958	114
39)	21.33	168	a5	4-MBP	11147	49
40)	21.38	182	a4	2,3'-DMBP	1520	10
41)	21.60	182	a4	2,5-DMBP	584	4
42)	21.76	182	a4	2,4+2,4'-DMBP	1486	9
43)	22.37	182	a4	2,3-DMBP	5042	32
44)	23.76	182	a4	3-EBP	2049	13
45)	24.09	182	a4	3,5-DMBP	6016	38
46)	24.19	182	a4	3,3'-DMBP	14406	92
47)	24.29	182	a4	4-EBP	809	5
48)	24.48	182	a4	3,4'-DMBP	12522	80
49)	24.70	182	a4	4,4'-DMBP	2455	16
50)	25.25	182	a4	3,4-DMBP	9242	59

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: **A2340.D**
Sample name: **30/6-25S 2340m ARO**
Data File Path: **C:\HPCHEM2\DATA\306_25S1**
Misc. info.:

Vial no.: 12
Method: MSD_A_D
Operator: Arne
Date: #VALUE!

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)	21.94	168	a5	DBF	10200	45
52)	25.02	182	a4	MDBF-1	12885	82
53)	25.39	182	a4	MDBF-2	12883	82
54)	25.68	182	a4	MDBF-3	11313	72
Fluorenes:						
55)	23.90	166	a6	F	2083	11
56)	27.18	180	a6	C1-F-1	1527	8
57)	27.36	180	a6	C1-F-2	9257	49
58)	27.66	180	a6	1-MF	598	3
Dibenzothiophenes:						
60)	28.59	184	a7	DBT	9225	2
61)	31.20	198	a7	4-MDBT	10652	3
62)	31.72	198	a7	3+2-MDBT	3254	1
63)	32.30	198	a7	1-MDBT	4781	1
Phenanthrenes:						
64)	29.32	178	a8	P	118115	86
65)	32.26	192	a9	3-MP	47335	41
66)	32.39	192	a9	2-MP	56860	49
67)	32.87	192	a9	9-MP	80660	69
68)	32.99	192	a9	1-MP	80448	69
69)	34.99	206	a10	2EP+9EP+3,6-DMP	8495	7
70)	35.19	206	a10	1EP	14656	12
71)	35.29	206	a10	2,6+2,7+3,5-DMP	8391	7
72)	35.64	206	a10	1,3+2,10+3,9+3,10-DMI	66925	55
73)	35.78	206	a10	1,6+2,5+2,9-DMP	35488	29
74)	35.91	206	a10	1,7-DMP	42387	35
75)	36.07	206	a10	2,3-DMP	11880	10
76)	36.18	206	a10	1,9+4,9+4,10-DMP	24153	20
77)	36.48	206	a10	1,8-DMP	10660	9
Retene:						
78)	39.79	219	a8	Retene	21007	15
Triaromatic steroids:						
80)	44.25	231	a11	20TA	3915	1
81)	46.12	231	a11	21TA	4343	1
82)	53.08	231	a11	S26TA	4986	1
83)	54.29	231	a11	R26TAS27TA	15445	3
84)	55.28	231	a11	S28TA	7233	1
85)	55.78	231	a11	R27TA	7018	1
86)	57.01	231	a11	R28TA	8038	1

Aromatic hydrocarbons

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Data file name **A2340.D**
 Sample name: **30/6-25S 2340m ARO**
 Data File Path **C:\HPCHEM\2\DATA\306_25S1**
 Misc. info.:

Vial no.: 12
 Method: MSD_A_D
 Operator: Arne
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	1529	17
C1 Naphthanes	Sum C1 Naphthanes	11693	78
C2 Naphthanes	Sum C2 Naphthanes	57808	362
C3 Naphthanes	Sum C3 Naphthanes	81554	520
Phenanthrene	Phenanthrene	118115	86
C1 Phenanthrenes	Sum C1 Phenanthrenes	265303	228
C2 Phenanthrenes	Sum C2 Phenanthrenes	223035	183
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	2.1	2.1
100*20TA/(20TA+S28TA+R28TA)	%-TAS'n	20.4	20.4
DBT/P	DBT/P	0.1	0.0
F/P	F/P	0.0	0.1
BP/1.6DMN	BP/1.6DMN	1.2	0.8
2MN/1MN	2MN/1MN	1.0	1.0
2EN/1EN	2EN/1EN	1.4	1.4
4MDBT/1MDBT	4MDBT/1MDBT	2.2	2.2

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.43	136		d8N	27650	46
16)	20.84	164		d10BP	31515	45
59)	29.19	188		d10P	67575	46
79)	44.64	240		d12C	64026	46
Aryl isoprenoids:						
1)	20.23	133	0	C13AI	308	
2)	22.03	133	0	C14AI	132	
3)	26.44	133	0	C15AI	124	
4)	28.78	133	0	C16AI	154	
5)	30.72	133	0	C17AI	52	
6)	33.77	133	0	C18AI	47	
7)	34.74	133	0	C19AI	38	
8)	37.79	133	0	C20AI	18	
9)	39.72	133	0	C21AI	142	
10)	42.72	133	0	C22AI	149	
11)	44.77	133	0	C23AI	77	
12)	55.77	133	0	C30AI	18	
13)	56.78	133	0	C31AI	22	
Naphthalenes:						
15)	11.52	128	a1	N	56214	86
17)	15.07	142	a2	2-MN	87369	117
18)	15.62	142	a2	1-MN	58370	78
19)	18.24	156	a3	2-EN	9434	12
20)	18.35	156	a3	1-EN	5108	6
21)	18.57	156	a3	2.6+2.7-DMN	17675	22
22)	19.04	156	a3	1.3+1.7-DMN	41518	52
23)	19.14	156	a3	1.6-DMN	31691	40
24)	19.64	156	a3	2.3+1.4-DMN	23187	29
25)	19.74	156	a3	1.5-DMN	10214	13
26)	20.11	156	a3	1.2-DMN	11309	14
27)	21.80	170	a4	C3-N-1	1966	3
28)	22.15	170	a4	C3-N-2	2845	4
29)	22.27	170	a4	1.3.7-TMN	7539	10
30)	22.41	170	a4	1.3.6-TMN	14011	18
31)	22.89	170	a4	1.3.5+1.4.6-TMN	15135	19
32)	22.97	170	a4	2.3.6-TMN	8762	11
33)	23.38	170	a4	1.6.7+1.2.7-TMN	13115	17
34)	23.44	170	a4	1.2.6-TMN	9846	13
35)	23.87	170	a4	1.2.4-TMN	2897	4
36)	24.08	170	a4	1.2.5-TMN	47320	61
Biphenyls:						
37)	17.79	154	a5	BP	8342	7
38)	21.06	168	a5	3-MBP	6672	6
39)	21.33	168	a5	4-MBP	2075	2
40)	21.39	182	a4	2.3'-DMBP	380	0
41)	21.59	182	a4	2.5-DMBP	169	0
42)	21.76	182	a4	2.4+2.4'-DMBP	231	0
43)	22.37	182	a4	2.3-DMBP	585	1
44)	23.76	182	a4	3-EBP	972	1
45)	24.09	182	a4	3.5-DMBP	1091	1
46)	24.19	182	a4	3.3'-DMBP	1934	2
47)	24.29	182	a4	4-EBP	330	0
48)	24.48	182	a4	3.4'-DMBP	1394	2
49)	24.70	182	a4	4.4'-DMBP	252	0
50)	25.25	182	a4	3.4-DMBP	751	1

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: **A2673.D**
 Sample name: **30/6-25S 2673m ARO**
 Data File Path: **C:\HPCHEM2\DATA\306_25S1**
 Misc. info.:
 Vial no.: 13
 Method: MSD_A_D
 Operator: Arne
 Date: #VALUE!
 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	20142	18
52)	25.03	182	a4	MDBF-1	11005	14
53)	25.39	182	a4	MDBF-2	16599	21
54)	25.68	182	a4	MDBF-3	7746	10
Fluorenes:						
55)	23.90	166	a6	F	7836	8
56)	27.18	180	a6	C1-F-1	2144	2
57)	27.34	180	a6	C1-F-2	5082	5
58)	27.66	180	a6	1-MF	1049	1
Dibenzothiophenes:						
60)	28.59	184	a7	DBT	1685	0
61)	31.20	198	a7	4-MDBT	685	0
62)	31.72	198	a7	3+2-MDBT	305	0
63)	32.29	198	a7	1-MDBT	333	0
Phenanthrenes:						
64)	29.30	178	a8	P	59598	34
65)	32.25	192	a9	3-MP	13188	9
66)	32.38	192	a9	2-MP	14894	10
67)	32.87	192	a9	9-MP	19627	13
68)	32.99	192	a9	1-MP	17222	12
69)	34.95	206	a10	2EP+9EP+3.6-DMP	3074	2
70)	35.19	206	a10	1EP	3157	2
71)	35.28	206	a10	2.6+2.7+3.5-DMP	1235	1
72)	35.63	206	a10	1.3+2.10+3.9+3.10-DMI	7571	5
73)	35.77	206	a10	1.6+2.5+2.9-DMP	8891	6
74)	35.91	206	a10	1.7-DMP	9890	6
75)	36.07	206	a10	2.3-DMP	3144	2
76)	36.17	206	a10	1.9+4.9+4.10-DMP	3619	2
77)	36.47	206	a10	1.8-DMP	1848	1
Retene:						
78)	39.78	219	a8	Retene	23535	14
Triaromatic steroids:						
80)	44.25	231	a11	20TA	486	0
81)	46.11	231	a11	21TA	380	0
82)	53.07	231	a11	S26TA	250	0
83)	54.27	231	a11	R26TA/S27TA	903	0
84)	55.27	231	a11	S28TA	1117	0
85)	55.77	231	a11	R27TA	439	0
86)	56.99	231	a11	R28TA	1141	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: **A2673.D**
 Sample name: **30/6-25S 2673m ARO**
 Data File Path: **C:\HPCHEM\2\DATA\306_25S\1**
 Misc. info.:

Vial no.: 13
 Method: MSD_A_D
 Operator: Ame
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	56214	86
C1 Naphthanes	Sum C1 Naphthanes	145739	196
C2 Naphthanes	Sum C2 Naphthanes	150136	189
C3 Naphthanes	Sum C3 Naphthanes	123436	158
Phenanthrene	Phenanthrene	59598	34
C1 Phenanthrenes	Sum C1 Phenanthrenes	64931	44
C2 Phenanthrenes	Sum C2 Phenanthrenes	42429	27
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	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	1.7	1.7
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	17.7	17.7
DBT/P	DBT/P	0.0	0.0
F/P	F/P	0.1	0.2
BP/1.6DMN	BP/1.6DMN	0.3	0.2
2MN/1MN	2MN/1MN	1.5	1.5
2EN/1EN	2EN/1EN	1.8	1.8
4MDBT/1MDBT	4MDBT/1MDBT	2.1	2.1

#	Rt.min.	m/z	Rf.	Name	Height	Amount ng/mg
Internal standard (if added):						
14)	11.43	136		d8N	32367	41
16)	20.84	164		d10BP	39989	39
59)	29.19	188		d10P	81548	41
79)	44.64	240		d12C	86059	41
Aryl isoprenoids:						
1)	20.23	133	0	C13AI	187	
2)	22.15	133	0	C14AI	228	
3)	26.36	133	0	C15AI	273	
4)	28.70	133	0	C16AI	518	
5)	30.71	133	0	C17AI	287	
6)	33.79	133	0	C18AI	332	
7)	34.74	133	0	C19AI	280	
8)	37.81	133	0	C20AI	175	
9)	39.73	133	0	C21AI	1133	
10)	42.71	133	0	C22AI	1200	
11)	44.78	133	0	C23AI	593	
12)	55.70	133	0	C30AI	37	
13)	56.87	133	0	C31AI	21	
Naphthalenes:						
15)	11.52	128	a1	N	9327	11
17)	15.07	142	a2	2-MN	20793	19
18)	15.61	142	a2	1-MN	14143	13
19)	18.23	156	a3	2-EN	3457	3
20)	18.35	156	a3	1-EN	1947	2
21)	18.58	156	a3	2,6+2,7-DMN	6892	6
22)	19.03	156	a3	1,3+1,7-DMN	14834	13
23)	19.14	156	a3	2,6-DMN	10954	10
24)	19.63	156	a3	2,3+1,4-DMN	8708	8
25)	19.73	156	a3	1,5-DMN	3254	3
26)	20.10	156	a3	1,2-DMN	4236	4
27)	21.80	170	a4	C3-N-1	983	1
28)	22.15	170	a4	C3-N-2	1428	1
29)	22.28	170	a4	1,3,7-TMN	3534	3
30)	22.41	170	a4	1,3,6-TMN	6588	6
31)	22.89	170	a4	1,3,5+1,4,6-TMN	6648	6
32)	22.97	170	a4	2,3,6-TMN	4126	4
33)	23.37	170	a4	1,6,7+1,2,7-TMN	5999	5
34)	23.44	170	a4	1,2,6-TMN	3779	3
35)	23.87	170	a4	1,2,4-TMN	1361	1
36)	24.07	170	a4	1,2,5-TMN	10640	9
Biphenyls:						
37)	17.79	154	a5	BP	2683	2
38)	21.07	168	a5	3-MBP	3467	2
39)	21.32	168	a5	4-MBP	975	1
40)	21.39	182	a4	2,3'-DMBP	173	0
41)	21.59	182	a4	2,5-DMBP	86	0
42)	21.76	182	a4	2,4+2,4'-DMBP	119	0
43)	22.37	182	a4	2,3-DMBP	305	0
44)	23.75	182	a4	3-EBP	483	0
45)	24.09	182	a4	3,5-DMBP	789	1
46)	24.19	182	a4	3,3'-DMBP	1326	1
47)	24.29	182	a4	4-EBP	157	0
48)	24.48	182	a4	3,4'-DMBP	962	1
49)	24.70	182	a4	4,4'-DMBP	172	0
50)	25.24	182	a4	3,4-DMBP	483	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: **A2688.D**
Sample name: **30/6-25S 2688m ARO**
Data File Path: **C:\HPCHEM\2\DATA\306_25S1**
Misc. info.:
Vial no.: 14
Method: MSD_A_D
Operator: Arne
Date: #VALUE!

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	8961	5
52)	25.03	182	a4	MDBF-1	5454	5
53)	25.38	182	a4	MDBF-2	8594	8
54)	25.69	182	a4	MDBF-3	3770	3
Fluorenes:						
55)	23.89	166	a6	F	3749	3
56)	27.18	180	a6	C1-F-1	863	1
57)	27.34	180	a6	C1-F-2	2511	2
58)	27.66	180	a6	1-MF	376	0
Dibenzothiophenes:						
60)	28.59	184	a7	DBT	1091	0
61)	31.20	198	a7	4-MDBT	542	0
62)	31.72	198	a7	3+2-MDBT	201	0
63)	32.29	198	a7	1-MDBT	162	0
Phenanthrenes:						
64)	29.30	178	a8	P	45692	19
65)	32.25	192	a9	3-MP	9521	5
66)	32.38	192	a9	2-MP	12670	6
67)	32.86	192	a9	9-MP	15993	8
68)	32.98	192	a9	1-MP	11101	5
69)	34.96	206	a10	2EP+9EP+3,6-DMP	2977	1
70)	35.19	206	a10	1EP	2696	1
71)	35.29	206	a10	2,6+2,7+3,5-DMP	1241	1
72)	35.62	206	a10	1,3+2,10+3,9+3,10-DMI	7377	3
73)	35.77	206	a10	1,6+2,5+2,9-DMP	6049	3
74)	35.90	206	a10	1,7-DMP	4432	2
75)	36.07	206	a10	2,3-DMP	2545	1
76)	36.17	206	a10	1,9+4,9+4,10-DMP	3150	1
77)	36.47	206	a10	1,8-DMP	1332	1
Retene:						
78)	39.78	219	a8	Retene	7834	3
Triaromatic steroids:						
80)	44.25	231	a11	20TA	351	0
81)	46.11	231	a11	21TA	261	0
82)	53.06	231	a11	S26TA	179	0
83)	54.27	231	a11	R26TA/S27TA	622	0
84)	55.28	231	a11	S28TA	567	0
85)	55.77	231	a11	R27TA	308	0
86)	56.98	231	a11	R28TA	593	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: A2688.D
 Sample name: 30/6-25S 2688m ARO
 Data File Path: C:\HPCHEM\2\DATA\306_25S1\1
 Misc. info.:

 Vial no.: 14
 Method: MSD_A_D
 Operator: Arne
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	9327	11
C1 Naphthanes	Sum C1 Naphthanes	34936	32
C2 Naphthanes	Sum C2 Naphthanes	54282	47
C3 Naphthanes	Sum C3 Naphthanes	45086	40
Phenanthrene	Phenanthrene	45692	19
C1 Phenanthrenes	Sum C1 Phenanthrenes	49285	24
C2 Phenanthrenes	Sum C2 Phenanthrenes	31799	15
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.5	0.5
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.5	0.5
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.3	0.3
$(2.6+2.7)DMN/1.5DMN$	DNR	2.1	2.1
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	23.2	23.2
DBT/P	DBT/P	0.0	0.0
F/P	F/P	0.1	0.1
BP/1.6DMN	BP/1.6DMN	0.2	0.2
2MN/1MN	2MN/1MN	1.5	1.5
2EN/1EN	2EN/1EN	1.8	1.8
4MDBT/1MDBT	4MDBT/1MDBT	3.3	3.3

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.43	136		d8N	37	45
16)	20.83	164		d10BP	71	43
59)	29.19	188		d10P	900	45
79)	44.62	240		d12C	9387	45
Aryl isoprenoids:						
1)	20.29	133	0	C13AI	3	
2)	22.10	133	0	C14AI	2	
3)	26.42	133	0	C15AI	3	
4)	28.76	133	0	C16AI	2	
5)	30.78	133	0	C17AI	37	
6)	33.78	133	0	C18AI	4	
7)	34.73	133	0	C19AI	5	
8)	37.81	133	0	C20AI	7	
9)	39.75	133	0	C21AI	3	
10)	42.71	133	0	C22AI	13	
11)	44.78	133	0	C23AI	11	
12)	55.72	133	0	C30AI	7	
13)	56.69	133	0	C31AI	5	
Naphthalenes:						
15)	11.52	128	a1	N	244	270
17)	15.08	142	a2	2-MN	85	49
18)	15.62	142	a2	1-MN	50	29
19)	18.24	156	a3	2-EN	7	4
20)	18.34	156	a3	1-EN	3	2
21)	18.57	156	a3	2.6+2.7-DMN	15	8
22)	19.03	156	a3	1.3+1.7-DMN	25	14
23)	19.13	156	a3	1.6-DMN	20	11
24)	19.62	156	a3	2.3+1.4-DMN	11	6
25)	19.73	156	a3	1.5-DMN	7	4
26)	20.11	156	a3	1.2-DMN	5	3
27)	21.85	170	a4	C3-N-1	4	2
28)	22.14	170	a4	C3-N-2	3	2
29)	22.27	170	a4	1.3.7-TMN	7	4
30)	22.41	170	a4	1.3.6-TMN	9	5
31)	22.89	170	a4	1.3.5+1.4.6-TMN	9	5
32)	22.96	170	a4	2.3.6-TMN	5	3
33)	23.38	170	a4	1.6.7+1.2.7-TMN	8	4
34)	23.41	170	a4	1.2.6-TMN	5	3
35)	23.85	170	a4	1.2.4-TMN	4	2
36)	24.06	170	a4	1.2.5-TMN	6	3
Biphenyls:						
37)	17.79	154	a5	BP	28	11
38)	21.06	168	a5	3-MBP	16	6
39)	21.32	168	a5	4-MBP	8	3
40)	21.42	182	a4	2.3'-DMBP	3	2
41)	21.66	182	a4	2.5-DMBP	2	1
42)	21.76	182	a4	2.4+2.4'-DMBP	3	2
43)	22.37	182	a4	2.3-DMBP	10	5
44)	23.78	182	a4	3-EBP	4	2
45)	24.08	182	a4	3.5-DMBP	5	3
46)	24.18	182	a4	3.3'-DMBP	5	3
47)	24.33	182	a4	4-EBP	1	1
48)	24.47	182	a4	3.4'-DMBP	7	4
49)	24.70	182	a4	4.4'-DMBP	3	2
50)	25.27	182	a4	3.4-DMBP	7	4

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: **A2860.D**
Sample name: **30/6-25S 2860m ARO**
Data File Path: **K:\CAP\MSFIDW95\306_25S1**
Misc. info.:

Vial no.: 15
Method: MSD_A_D
Operator: Arne
Date: #VALUE!

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)	21.94	168	a5	DBF	24	9
52)	25.02	182	a4	MDBF-1	8	4
53)	25.39	182	a4	MDBF-2	10	5
54)	25.65	182	a4	MDBF-3	3	2
Fluorenes:						
55)	23.90	166	a6	F	24	11
56)	27.17	180	a6	C1-F-1	9	4
57)	27.35	180	a6	C1-F-2	26	12
58)	27.65	180	a6	1-MF	12	6
Dibenzothiophenes:						
60)	28.59	184	a7	DBT	3	0
61)	31.20	198	a7	4-MDBT	5	0
62)	31.69	198	a7	3+2-MDBT	3	0
63)	32.44	198	a7	1-MDBT	4	0
Phenanthrenes:						
64)	29.30	178	a8	P	68	3
65)	32.23	192	a9	3-MP	60	3
66)	32.38	192	a9	2-MP	24	1
67)	32.86	192	a9	9-MP	27	1
68)	32.98	192	a9	1-MP	23	1
69)	34.98	206	a10	2EP+9EP+3.6-DMP	7	0
70)	35.18	206	a10	1EP	11	1
71)	35.29	206	a10	2.6+2.7+3.5-DMP	5	0
72)	35.62	206	a10	1.3+2.10+3.9+3.10-DMI	25	1
73)	35.77	206	a10	1.6+2.5+2.9-DMP	15	1
74)	35.90	206	a10	1.7-DMP	15	1
75)	36.04	206	a10	2.3-DMP	11	1
76)	36.16	206	a10	1.9+4.9+4.10-DMP	12	1
77)	36.48	206	a10	1.8-DMP	8	0
Retene:						
78)	39.77	219	a8	Retene	18	1
Triaromatic steroids:						
80)	44.25	231	a11	20TA	3	0
81)	46.11	231	a11	21TA	4	0
82)	53.12	231	a11	S26TA	7	0
83)	54.39	231	a11	R26TA/S27TA	12	0
84)	55.37	231	a11	S28TA	16	0
85)	55.78	231	a11	R27TA	14	0
86)	56.98	231	a11	R28TA	5	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: A2860.D
 Sample name: 30/6-25S 2860m ARO
 Data File Path: K:\CAPMS\FIDW95\306_25S1\
 Misc. info.:
 Vial no.: 15
 Method: MSD_A_D
 Operator: Ame
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	244	270
C1 Naphthanes	Sum C1 Naphthanes	135	78
C2 Naphthanes	Sum C2 Naphthanes	93	50
C3 Naphthanes	Sum C3 Naphthanes	60	33
Phenanthrene	Phenanthrene	68	3
C1 Phenanthrenes	Sum C1 Phenanthrenes	134	7
C2 Phenanthrenes	Sum C2 Phenanthrenes	109	5
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	1.1	1.2
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.6	0.6
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.2	0.2
$(2.6+2.7)DMN/1.5DMN$	DNR	2.1	2.1
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	12.5	12.5
DBT/P	DBT/P	0.0	0.0
F/P	F/P	0.4	3.9
BP/1.6DMN	BP/1.6DMN	1.4	1.0
2MN/1MN	2MN/1MN	1.7	1.7
2EN/1EN	2EN/1EN	2.3	2.3
4MDBT/1MDBT	4MDBT/1MDBT	1.3	1.3

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.43	136		d8N	45722	46
16)	20.84	164		d10BP	53976	45
59)	29.19	188		d10P	109411	46
79)	44.64	240		d12C	115868	46
Aryl isoprenoids:						
1)	20.23	133	0	C13AI	67	
2)	22.03	133	0	C14AI	118	
3)	26.44	133	0	C15AI	37	
4)	28.72	133	0	C16AI	40	
5)	30.72	133	0	C17AI	41	
6)	33.78	133	0	C18AI	42	
7)	34.81	133	0	C19AI	28	
8)	37.77	133	0	C20AI	25	
9)	39.73	133	0	C21AI	191	
10)	42.72	133	0	C22AI	203	
11)	44.77	133	0	C23AI	73	
12)	55.68	133	0	C30AI	43	
13)	56.79	133	0	C31AI	13	
Naphthalenes:						
15)	11.52	128	a1	N	55570	52
17)	15.07	142	a2	2-MN	67299	53
18)	15.61	142	a2	1-MN	39666	31
19)	18.23	156	a3	2-EN	7203	5
20)	18.35	156	a3	1-EN	3732	3
21)	18.58	156	a3	2,6+2,7-DMN	14777	11
22)	19.12	156	a3	1,3+1,7-DMN	20989	15
23)	19.12	156	a3	1,6-DMN	20984	15
24)	19.63	156	a3	2,3+1,4-DMN	14929	11
25)	19.74	156	a3	1,5-DMN	5422	4
26)	20.10	156	a3	1,2-DMN	8043	6
27)	21.80	170	a4	C3-N-1	1549	1
28)	22.15	170	a4	C3-N-2	2374	2
29)	22.27	170	a4	1,3,7-TMN	5317	4
30)	22.41	170	a4	1,3,6-TMN	10221	8
31)	22.89	170	a4	1,3,5+1,4,6-TMN	8150	6
32)	22.97	170	a4	2,3,6-TMN	6807	5
33)	23.37	170	a4	1,6,7+1,2,7-TMN	6611	5
34)	23.44	170	a4	1,2,6-TMN	7346	5
35)	23.87	170	a4	1,2,4-TMN	2080	2
36)	24.07	170	a4	1,2,5-TMN	19443	15
Biphenyls:						
37)	17.79	154	a5	BP	4553	2
38)	21.07	168	a5	3-MBP	5242	3
39)	21.33	168	a5	4-MBP	1634	1
40)	21.38	182	a4	2,3'-DMBP	254	0
41)	21.59	182	a4	2,5-DMBP	124	0
42)	21.76	182	a4	2,4+2,4'-DMBP	202	0
43)	22.38	182	a4	2,3-DMBP	625	0
44)	23.76	182	a4	3-EBP	573	0
45)	24.09	182	a4	3,5-DMBP	1198	1
46)	24.19	182	a4	3,3'-DMBP	2240	2
47)	24.29	182	a4	4-EBP	200	0
48)	24.48	182	a4	3,4'-DMBP	1675	1
49)	24.70	182	a4	4,4'-DMBP	258	0
50)	25.26	182	a4	3,4-DMBP	750	1

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: **A2907_5.D**
 Sample name: **30/6-25S 2907.5m ARO**
 Data File Path: **C:\HPCHEM2\DATA\306_25S1**
 Misc. info.:
 Vial no.: 16
 Method: MSD_A_D
 Operator: Arne
 Date: #VALUE!
 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	17849	9
52)	25.03	182	a4	MDBF-1	9800	7
53)	25.38	182	a4	MDBF-2	14087	11
54)	25.68	182	a4	MDBF-3	6617	5
Fluorenes:						
55)	23.90	166	a6	F	9811	6
56)	27.18	180	a6	C1-F-1	2971	2
57)	27.36	180	a6	C1-F-2	6697	4
58)	27.66	180	a6	1-MF	1295	1
Dibenzothiophenes:						
60)	28.59	184	a7	DBT	2231	0
61)	31.20	198	a7	4-MDBT	911	0
62)	31.72	198	a7	3+2-MDBT	449	0
63)	32.29	198	a7	1-MDBT	242	0
Phenanthrenes:						
64)	29.30	178	a8	P	87073	31
65)	32.25	192	a9	3-MP	21691	9
66)	32.38	192	a9	2-MP	30514	13
67)	32.86	192	a9	9-MP	38077	16
68)	32.99	192	a9	1-MP	25497	11
69)	34.95	206	a10	2EP+9EP+3,6-DMP	7370	3
70)	35.19	206	a10	1EP	5677	2
71)	35.28	206	a10	2,6+2,7+3,5-DMP	2530	1
72)	35.63	206	a10	1,3+2,10+3,9+3,10-DMI	17103	7
73)	35.77	206	a10	1,6+2,5+2,9-DMP	12305	5
74)	35.90	206	a10	1,7-DMP	7839	3
75)	36.06	206	a10	2,3-DMP	4884	2
76)	36.17	206	a10	1,9+4,9+4,10-DMP	6626	3
77)	36.47	206	a10	1,8-DMP	2412	1
Retene:						
78)	39.78	219	a8	Retene	19398	7
Triaromatic steroids:						
80)	44.25	231	a11	20TA	406	0
81)	46.12	231	a11	21TA	498	0
82)	53.07	231	a11	S26TA	338	0
83)	54.28	231	a11	R26TA/S27TA	991	0
84)	55.29	231	a11	S28TA	641	0
85)	55.78	231	a11	R27TA	439	0
86)	57.00	231	a11	R28TA	629	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: **A2907_5.D**
 Sample name: **30/6-25S 2907.5m ARO**
 Data File Path: **C:\HPCHEM\2\DATA\306_25S1**
 Misc. info.:

 Vial no.: 16
 Method: MSD_A_D
 Operator: Ame
 Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	55570	52
C1 Naphthanes	Sum C1 Naphthanes	106965	84
C2 Naphthanes	Sum C2 Naphthanes	96079	71
C3 Naphthanes	Sum C3 Naphthanes	69898	52
Phenanthrene	Phenanthrene	87073	31
C1 Phenanthrenes	Sum C1 Phenanthrenes	115779	48
C2 Phenanthrenes	Sum C2 Phenanthrenes	66746	27
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	MPI1	0.5	0.6
$(3MP+2MP)/(3MP+2MP+9MP+1MP)$	F1	0.5	0.5
$2MP/(3MP+2MP+9MP+1MP)$	F2	0.3	0.3
$(2.6+2.7)DMN/1.5DMN$	DNR	2.7	2.7
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	24.2	24.2
DBT/P	DBT/P	0.0	0.0
F/P	F/P	0.1	0.2
BP/1.6DMN	BP/1.6DMN	0.2	0.2
2MN/1MN	2MN/1MN	1.7	1.7
2EN/1EN	2EN/1EN	1.9	1.9
4MDBT/1MDBT	4MDBT/1MDBT	3.8	3.8

#	Rt.min.	m/z	Rf.	Name	Height	Amount
						ng/mg
Internal standard (if added):						
14)	11.43	136		d8N	26270	52
16)	20.85	164		d10BP	37078	50
59)	29.21	188		d10P	77577	52
79)	44.66	240		d12C	66769	52
Aryl isoprenoids:						
1)	20.23	133	0	C13AI	12208	
2)	22.16	133	0	C14AI	10545	
3)	26.39	133	0	C15AI	7317	
4)	28.73	133	0	C16AI	5414	
5)	30.74	133	0	C17AI	5662	
6)	33.81	133	0	C18AI	5546	
7)	34.71	133	0	C19AI	1488	
8)	37.70	133	0	C20AI	1593	
9)	39.73	133	0	C21AI	2278	
10)	42.74	133	0	C22AI	4686	
11)	44.81	133	0	C23AI	1891	
12)	55.73	133	0	C30AI	286	
13)	56.67	133	0	C31AI	616	
Naphthalenes:						
15)	11.52	128	a1	N	558387	1010
17)	15.09	142	a2	2-MN	1033083	1323
18)	15.64	142	a2	1-MN	804219	1030
19)	18.25	156	a3	2-EN	104105	125
20)	18.36	156	a3	1-EN	51587	62
21)	18.60	156	a3	2.6+2.7-DMN	523982	629
22)	19.07	156	a3	1.3+1.7-DMN	756501	908
23)	19.18	156	a3	1.6-DMN	689052	827
24)	19.66	156	a3	2.3+1.4-DMN	293020	352
25)	19.76	156	a3	1.5-DMN	182618	219
26)	20.13	156	a3	1.2-DMN	115628	139
27)	21.81	170	a4	C3-N-1	57393	70
28)	22.18	170	a4	C3-N-2	63116	77
29)	22.30	170	a4	1.3.7-TMN	277267	339
30)	22.44	170	a4	1.3.6-TMN	415477	507
31)	22.92	170	a4	1.3.5+1.4.6-TMN	339767	415
32)	22.99	170	a4	2.3.6-TMN	265613	324
33)	23.41	170	a4	1.6.7+1.2.7-TMN	201104	246
34)	23.46	170	a4	1.2.6-TMN	138672	169
35)	23.90	170	a4	1.2.4-TMN	40281	49
36)	24.10	170	a4	1.2.5-TMN	145507	178
Biphenyls:						
37)	17.80	154	a5	BP	315481	265
38)	21.10	168	a5	3-MBP	311150	262
39)	21.35	168	a5	4-MBP	108460	91
40)	21.40	182	a4	2.3'-DMBP	12890	16
41)	21.61	182	a4	2.5-DMBP	6042	7
42)	21.77	182	a4	2.4+2.4'-DMBP	11879	15
43)	22.39	182	a4	2.3-DMBP	23974	29
44)	23.78	182	a4	3-EBP	30699	37
45)	24.11	182	a4	3.5-DMBP	47151	58
46)	24.21	182	a4	3.3'-DMBP	115334	141
47)	24.31	182	a4	4-EBP	11127	14
48)	24.51	182	a4	3.4'-DMBP	93719	114
49)	24.71	182	a4	4.4'-DMBP	17895	22
50)	25.27	182	a4	3.4-DMBP	48045	59

Aromatic hydrocarbons

GC/MS detection HP-6890/5973

Compound data



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

Data file name: NSO_11A.D
Sample name: nso1-11A ref. sample ARO
Data File Path: C:\HPCHEM\2\DATA\306_25S\1
Misc. info.:
Vial no.: 2
Method: MSD_A_D
Operator: Arne
Date: #VALUE!

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)	21.96	168	a5	DBF	76739	65
52)	25.05	182	a4	MDBF-1	98458	120
53)	25.41	182	a4	MDBF-2	68550	84
54)	25.70	182	a4	MDBF-3	52889	65
Fluorenes:						
55)	23.92	166	a6	F	112523	115
56)	27.14	180	a6	C1-F-1	47679	49
57)	27.20	180	a6	C1-F-2	52948	54
58)	27.69	180	a6	1-MF	32104	33
Dibenzothiophenes:						
60)	28.61	184	a7	DBT	93004	18
61)	31.24	198	a7	4-MDBT	118979	23
62)	31.75	198	a7	3+2-MDBT	38916	8
63)	32.33	198	a7	1-MDBT	39459	8
Phenanthrenes:						
64)	29.34	178	a8	P	452276	254
65)	32.28	192	a9	3-MP	190647	126
66)	32.43	192	a9	2-MP	216248	142
67)	32.90	192	a9	9-MP	294291	194
68)	33.03	192	a9	1-MP	240169	158
69)	34.99	206	a10	2EP+9EP+3.6-DMP	45068	28
70)	35.23	206	a10	1EP	59374	37
71)	35.33	206	a10	2.6+2.7+3.5-DMP	33279	21
72)	35.67	206	a10	1.3+2.10+3.9+3.10-DMI	248998	157
73)	35.81	206	a10	1.6+2.5+2.9-DMP	134003	84
74)	35.96	206	a10	1.7-DMP	136030	86
75)	36.10	206	a10	2.3-DMP	36991	23
76)	36.21	206	a10	1.9+4.9+4.10-DMP	78815	50
77)	36.51	206	a10	1.8-DMP	33535	21
Retene:						
78)	39.82	219	a8	Retene	135096	76
Triaromatic steroids:						
80)	44.28	231	a11	20TA	24180	4
81)	46.14	231	a11	21TA	27051	5
82)	53.11	231	a11	S26TA	24673	4
83)	54.32	231	a11	R26TA/S27TA	69037	12
84)	55.31	231	a11	S28TA	36104	6
85)	55.81	231	a11	R27TA	33274	6
86)	57.04	231	a11	R28TA	36739	6

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: NSO_11A.D
Sample name: nso1-11A ref. sample ARO
Data File Path: C:\HPCHEM\2\DATA\306_25S11
Misc. info.:

Vial no.: 2
Method: MSD_A_D
Operator: Ame
Date: #VALUE!

Aromatic HC ratios, heights and amounts		Height	Amount
Naphthalene	Naphthalene	558387	1010
C1 Naphthanes	Sum C1 Naphthanes	1837302	2353
C2 Naphthanes	Sum C2 Naphthanes	2716493	3262
C3 Naphthanes	Sum C3 Naphthanes	1944197	2374
Phenanthrene	Phenanthrene	452276	254
C1 Phenanthrenes	Sum C1 Phenanthrenes	941355	620
C2 Phenanthrenes	Sum C2 Phenanthrenes	806093	508
$3/2 \cdot (3MP+2MP)/(P+9MP+1MP)$	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	2.9	2.9
$100 \cdot 20TA/(20TA+S28TA+R28TA)$	%-TAS'n	24.9	24.9
DBT/P	DBT/P	0.2	0.1
F/P	F/P	0.2	0.5
BP/1.6DMN	BP/1.6DMN	0.5	0.3
2MN/1MN	2MN/1MN	1.3	1.3
2EN/1EN	2EN/1EN	2.0	2.0
4MDBT/1MDBT	4MDBT/1MDBT	3.0	3.0