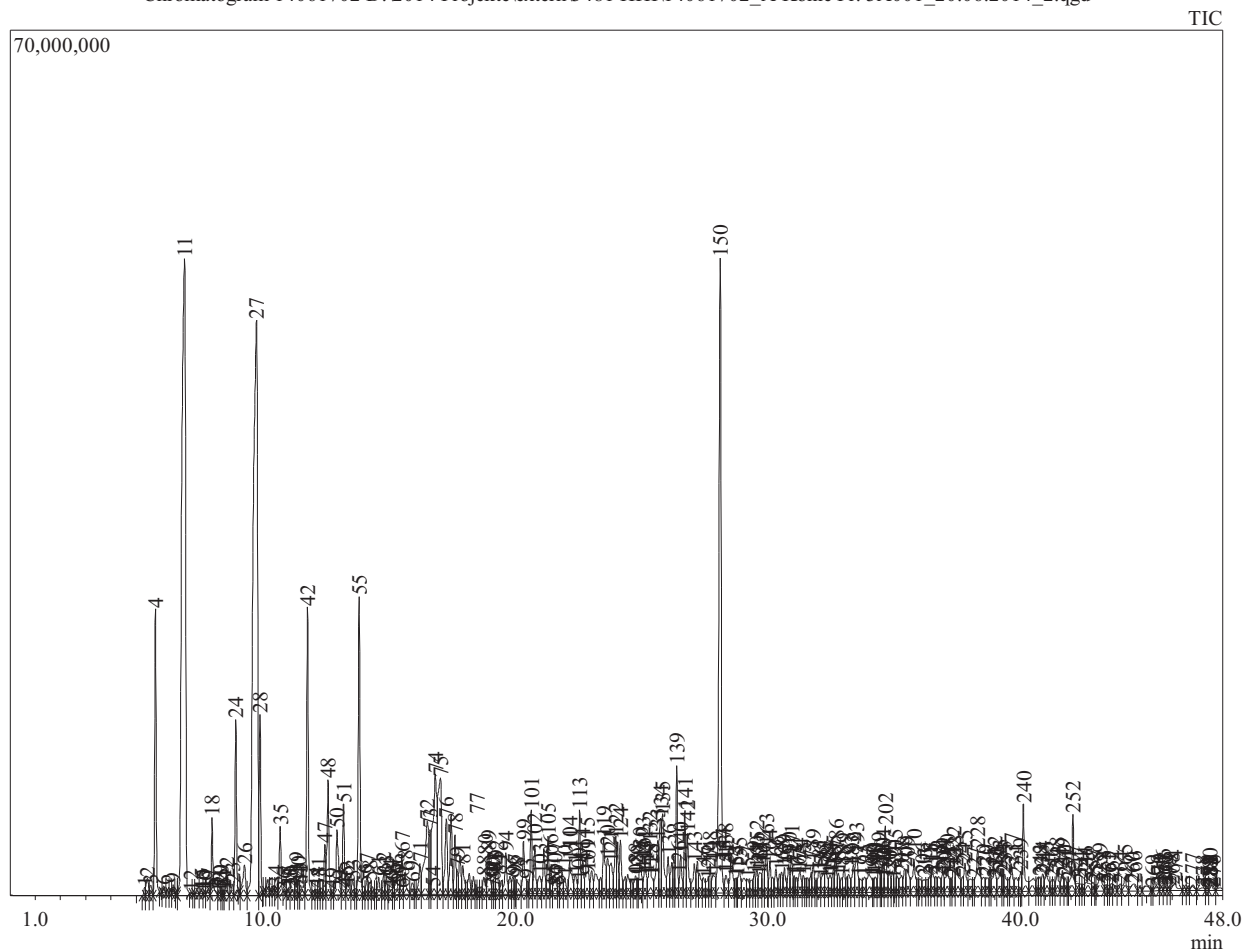


CUTEC-Institut
GC-MS QP 5050 von Shimadzu

Sample Information

Analyzed by : Kiefer
Analyzed : 20.06.2014 10:22:17
Sample Type : Unknown
Sample Name : 14061702
Sample ID : A-Kohle Pr. 3A001
Injection Volume : 1.000
Data File : D:\2014 Projekte\extern\3481 HHI\14061702_A-Kohle Pr. 3A001_20.06.2014_2.qgd
Method File : D:\2014 Projekte\extern\3481 HHI\Rxi_5SilMS_Screen_CS2_Isoprop.qgm
Report File :
Tuning File : C:\GCMSsolution\System\Tune1\14_06_03_scan.qgt
[Comment]
14061702 Aktivkohle-Probe 3 A
Projekt: Fraunhofer - HHI, 38 3481
Probenahme am 17.06.2014
Brandcontainer, Herzogenrath-Merlenheim
Prozess: Schwelen
Aktivkohle Typ G von Dräger
14:45 - 15:20 Uhr, 17,7 L, 29,1 °C
Lagerung: im Kühlschrank
Extraktion am 19.06.2014 mit
5 mL Schwefelkohlenstoff : Isopropanol (90:10)
Säule: Rxi-5 Sil ms, 60 m, ID: 0,25 mm, Film: 0,25 µm
von Retek, Ser.-Nr. 995332
Det.: 1,5 kV, 30 - 500 amu
Koffer 2 (K: 1,0512) durch: Herrn Köhring
Modified by : Admin
Modified : 24.06.2014 12:29:57

Chromatogram 14061702 D:\2014 Projekte\extern\3481 HHI\14061702_A-Kohle Pr. 3A001_20.06.2014_2.qgd



Peak Report TIC				
Peak#	R.Time	Area	Area%	Name
1	5.333	2618744	0.05	
2	5.438	9566308	0.19	
3	5.572	6037029	0.12	
4	5.758	102671382	2.03	Benzol (C6 H6); CAS: 71-43-2
5	5.970	1238907	0.02	
6	6.081	2314280	0.05	
7	6.226	1041549	0.02	
8	6.357	1448471	0.03	
9	6.458	2381722	0.05	
10	6.600	199523	0.00	
11	6.913	553683838	10.93	Carbonic acid, ethyl methyl ester (C4 H8 O3)
12	7.154	277853	0.01	
13	7.276	181991	0.00	
14	7.428	1175168	0.02	
15	7.584	1478742	0.03	
16	7.682	303763	0.01	
17	7.842	1037684	0.02	
18	8.000	29625096	0.58	Pyridin (C5 H5 N); CAS: 110-86-1
19	8.317	3496150	0.07	
20	8.358	2447380	0.05	
21	8.447	1718298	0.03	
22	8.571	7241726	0.14	
23	8.799	5206099	0.10	
24	8.939	59578656	1.18	Toluol (C7 H8); CAS: 108-88-3
25	9.058	60101	0.00	
26	9.288	20844216	0.41	
27	9.757	552926016	10.91	Carbonic acid, diethyl ester (C5 H10 O3)
28	9.901	76738877	1.51	Cyclopentanon (C5 H8 O); CAS: 120-92-3
29	10.008	614	0.00	
30	10.108	899209	0.02	
31	10.190	4550412	0.09	
32	10.332	436345	0.01	
33	10.450	2248632	0.04	
34	10.508	1614526	0.03	
35	10.696	28488393	0.56	Pyridin, methyl- (C6 H7 N)
36	10.835	258573	0.01	
37	11.007	3018370	0.06	
38	11.181	3473461	0.07	
39	11.334	7560748	0.15	
40	11.418	5174045	0.10	
41	11.505	5368941	0.11	
42	11.783	99462957	1.96	Alken, verzweigt (C9 H18)
43	12.033	2559453	0.05	
44	12.115	2680016	0.05	
45	12.259	2798971	0.06	
46	12.308	3271414	0.06	
47	12.469	18413606	0.36	Pyridin, methyl- (C6 H7 N)
48	12.594	46319718	0.91	Ethylbenzol (C8 H10); CAS: 100-41-4
49	12.757	2285542	0.05	
50	12.950	34957962	0.69	Dimethylbenzol (m- + p-Xylol) (C8 H10)
51	13.204	32809309	0.65	Hexannitril (C6 H11 N)
52	13.355	7360459	0.15	
53	13.564	7610301	0.15	
54	13.690	1975966	0.04	
55	13.822	114618368	2.26	Styrol (C8 H8); CAS: 100-42-5
56	13.999	3753949	0.07	
57	14.136	9005447	0.18	
58	14.228	4611438	0.09	
59	14.353	3515978	0.07	
60	14.475	2187866	0.04	
61	14.594	7913598	0.16	
62	14.797	8266399	0.16	
63	14.898	6245893	0.12	
64	15.068	7372038	0.15	
65	15.176	4234528	0.08	
66	15.298	9536566	0.19	
67	15.518	14916985	0.29	Alken, verzweigt
68	15.637	10568615	0.21	
69	15.924	7575163	0.15	
70	16.042	1746127	0.03	
71	16.227	16014847	0.32	
72	16.520	65611329	1.29	
73	16.634	25155903	0.50	
74	16.838	103725982	2.05	Trimethylbenzol (C9 H12)

Peak#	R.Time	Area	Area%	Name
75	17.042	96832072	1.91	Dioxolan-on (C3 H4 O3); CAS: 96-49-1
76	17.278	40530226	0.80	Phenol (C6 H6 O); CAS: 108-95-2
77	17.466	36249303	0.72	Benzonitril (C7 H5 N)
78	17.615	22149818	0.44	Alken, verzweigt (C10 H20)
79	17.693	7165433	0.14	
80	17.810	17605213	0.35	
81	17.930	14070262	0.28	
82	18.075	4739734	0.09	
83	18.182	10057358	0.20	
84	18.344	7348844	0.15	
85	18.434	4100248	0.08	
86	18.544	3129910	0.06	
87	18.649	2719758	0.05	
88	18.760	9744709	0.19	
89	18.936	22551912	0.45	Hexanol, ethyl- (C8 H18 O)
90	19.127	5580357	0.11	
91	19.200	7397021	0.15	
92	19.285	13215311	0.26	
93	19.451	5959686	0.12	
94	19.626	20156996	0.40	Inden (C9 H8); CAS: 95-13-6
95	19.797	8563619	0.17	
96	19.909	6773729	0.13	
97	19.990	6647134	0.13	
98	20.062	9854811	0.19	
99	20.332	27066544	0.53	Acetophenon (C8 H8 O); CAS: 98-86-2
100	20.488	4402295	0.09	
101	20.633	30166434	0.60	Alken, verzweigt (C11 H22)
102	20.774	19876736	0.39	Alken, verzweigt (C11 H22)
103	20.974	12895902	0.25	
104	21.137	21041492	0.42	Undecen (C11 H22)
105	21.303	21198307	0.42	Benzoic acid, methyl ester (C8 H8 O2)
106	21.413	9929019	0.20	
107	21.557	11142876	0.22	
108	21.729	2656573	0.05	
109	21.857	10341616	0.20	
110	21.959	8387720	0.17	
111	22.156	21037199	0.42	
112	22.382	11129228	0.22	
113	22.549	30009906	0.59	Benzoylformic acid (C8 H6 O3)
114	22.671	13648494	0.27	
115	22.839	26877112	0.53	
116	23.028	12091398	0.24	
117	23.168	17581690	0.35	
118	23.382	7668105	0.15	
119	23.507	28425893	0.56	
120	23.659	17364145	0.34	
121	23.797	19073950	0.38	
122	23.980	27756289	0.55	
123	24.048	13700079	0.27	
124	24.168	24143400	0.48	
125	24.358	8567264	0.17	
126	24.453	11067941	0.22	
127	24.602	6022948	0.12	
128	24.772	9937332	0.20	
129	24.851	4753436	0.09	
130	24.954	18880620	0.37	
131	25.138	18047962	0.36	
132	25.337	27796192	0.55	
133	25.641	29751840	0.59	
134	25.756	37642533	0.74	
135	25.835	40034383	0.79	
136	26.055	16242350	0.32	
137	26.199	14190729	0.28	
138	26.282	13896646	0.27	
139	26.393	43490651	0.86	
140	26.554	16788989	0.33	
141	26.718	27228668	0.54	
142	26.818	24964804	0.49	
143	27.093	18346164	0.36	
144	27.213	12666576	0.25	
145	27.298	10063625	0.20	
146	27.449	7934435	0.16	
147	27.647	9078101	0.18	
148	27.720	11224270	0.22	
149	27.834	13753965	0.27	
150	28.118	308206937	6.08	Biphenyl (C12 H10); CAS: 92-52-4

Peak#	R.Time	Area	Area%	Name
151	28.347	11704289	0.23	
152	28.553	23018736	0.45	
153	28.720	5005603	0.10	
154	28.781	4215188	0.08	
155	28.876	13660975	0.27	
156	29.053	12203794	0.24	
157	29.209	6803140	0.13	
158	29.345	7294970	0.14	
159	29.458	7766733	0.15	
160	29.572	11381942	0.22	
161	29.682	12361754	0.24	
162	29.829	13767754	0.27	
163	29.950	20597372	0.41	
164	30.082	13540742	0.27	
165	30.191	7037398	0.14	
166	30.326	11625661	0.23	
167	30.474	8817858	0.17	
168	30.547	7670793	0.15	
169	30.657	11730992	0.23	
170	30.831	12102899	0.24	
171	30.944	15299310	0.30	
172	31.045	6103028	0.12	
173	31.123	5865589	0.12	
174	31.269	12867101	0.25	
175	31.412	8302144	0.16	
176	31.506	4583873	0.09	
177	31.571	6572998	0.13	
178	31.723	9401562	0.19	
179	31.801	12575525	0.25	
180	31.917	3892326	0.08	
181	32.038	13561583	0.27	
182	32.217	11834511	0.23	
183	32.301	13391071	0.26	
184	32.460	8638344	0.17	
185	32.606	11851311	0.23	
186	32.694	15749075	0.31	
187	32.793	8358904	0.16	
188	32.944	6092931	0.12	
189	33.022	11365006	0.22	
190	33.136	5316285	0.10	
191	33.200	9597441	0.19	
192	33.392	14431408	0.28	
193	33.520	22712528	0.45	
194	33.639	8626871	0.17	
195	33.832	9416713	0.19	
196	34.011	18226658	0.36	
197	34.179	4162086	0.08	
198	34.256	7889337	0.16	
199	34.396	12242388	0.24	
200	34.493	6523126	0.13	
201	34.578	11352146	0.22	
202	34.654	29034742	0.57	
203	34.816	9030515	0.18	
204	34.938	9487338	0.19	
205	35.038	12790558	0.25	
206	35.117	6528526	0.13	
207	35.302	11234641	0.22	
208	35.419	10367686	0.20	
209	35.508	16920924	0.33	
210	35.793	20986302	0.41	
211	35.930	5176937	0.10	
212	36.028	7400076	0.15	
213	36.194	7990876	0.16	
214	36.320	6982165	0.14	
215	36.428	7602796	0.15	
216	36.518	10538618	0.21	
217	36.653	7535138	0.15	
218	36.761	10228382	0.20	
219	36.933	11563017	0.23	
220	37.115	17106296	0.34	
221	37.246	4201536	0.08	
222	37.362	14163573	0.28	
223	37.449	21084305	0.42	
224	37.727	5598972	0.11	
225	37.808	15857994	0.31	
226	38.013	10682433	0.21	

Peak#	R.Time	Area	Area%	Name
227	38.149	4399091	0.09	
228	38.311	30118770	0.59	
229	38.534	9656519	0.19	
230	38.673	8541959	0.17	
231	38.804	6569255	0.13	
232	38.992	16824868	0.33	
233	39.199	15523151	0.31	
234	39.317	4399331	0.09	
235	39.378	10962877	0.22	
236	39.558	4904949	0.10	
237	39.658	13995695	0.28	
238	39.834	9902910	0.20	
239	40.013	9981611	0.20	
240	40.121	37489204	0.74	
241	40.509	15812023	0.31	
242	40.680	6030924	0.12	
243	40.760	6312951	0.12	
244	40.888	9222602	0.18	
245	41.026	13438793	0.27	
246	41.251	6020343	0.12	
247	41.307	4977557	0.10	
248	41.456	12162245	0.24	
249	41.663	10455715	0.21	
250	41.766	6803390	0.13	
251	41.895	2873543	0.06	
252	42.083	33117782	0.65	
253	42.258	5775977	0.11	
254	42.383	3225381	0.06	
255	42.469	3382997	0.07	
256	42.613	10579429	0.21	
257	42.869	4564626	0.09	
258	42.958	1563421	0.03	
259	43.147	14111961	0.28	
260	43.400	3697351	0.07	
261	43.508	2026600	0.04	
262	43.600	3803431	0.08	
263	43.676	4644806	0.09	
264	43.955	5411193	0.11	
265	44.142	9391300	0.19	
266	44.518	8858056	0.17	
267	44.692	2891028	0.06	
268	44.991	6930811	0.14	
269	45.217	1052180	0.02	
270	45.460	3855381	0.08	
271	45.557	2568436	0.05	
272	45.747	2493593	0.05	
273	45.879	2029395	0.04	
274	46.117	8734756	0.17	
275	46.505	1631402	0.03	
276	46.608	1327194	0.03	
277	46.791	4139061	0.08	
278	47.227	3485662	0.07	
279	47.392	1308496	0.03	
280	47.543	4929457	0.10	
281	47.919	2850187	0.06	
282	48.110	848211	0.02	
283	48.355	688338	0.01	
284	48.485	463577	0.01	
285	48.576	560802	0.01	
286	48.694	401347	0.01	
287	48.836	205010	0.00	
		5067184787	100.00	

Method

[Comment]

35.1

6

20.8

Rate	Temperature(°C)	Keep Time(min)
-	40.0	5.00
5.0	120.0	0.00
10.0	300.0	10.00

Rate	Pressure(kPa)	Keep Time(min)
-	191.0	5.00
2.0	223.0	0.00
4.0	295.0	10.00

250.00

[GC Program]

[GCMS-QP5050A]

Acquisition Mode	:Scan
Interface Temp.	:300.00 °C
Solvent Cut Time	:0.00 min
Detector Gain Mode	:Absolute
Detector Gain	:1.50 kV
Threshold	:1000
Sampling Rate	:0.50 sec

[Scan Group]

No.	Start Time(min)	End Time(min)	Start m/z	End m/z
1	0.00	49.00	30.00	500.00

Sample Inlet Unit :GC

[MS Program]

Use MS Program	:ON		
No.	Time(min)	Command	Value
1	0.10	Filament OFF	
2	5.30	Filament ON	