

results filter 1

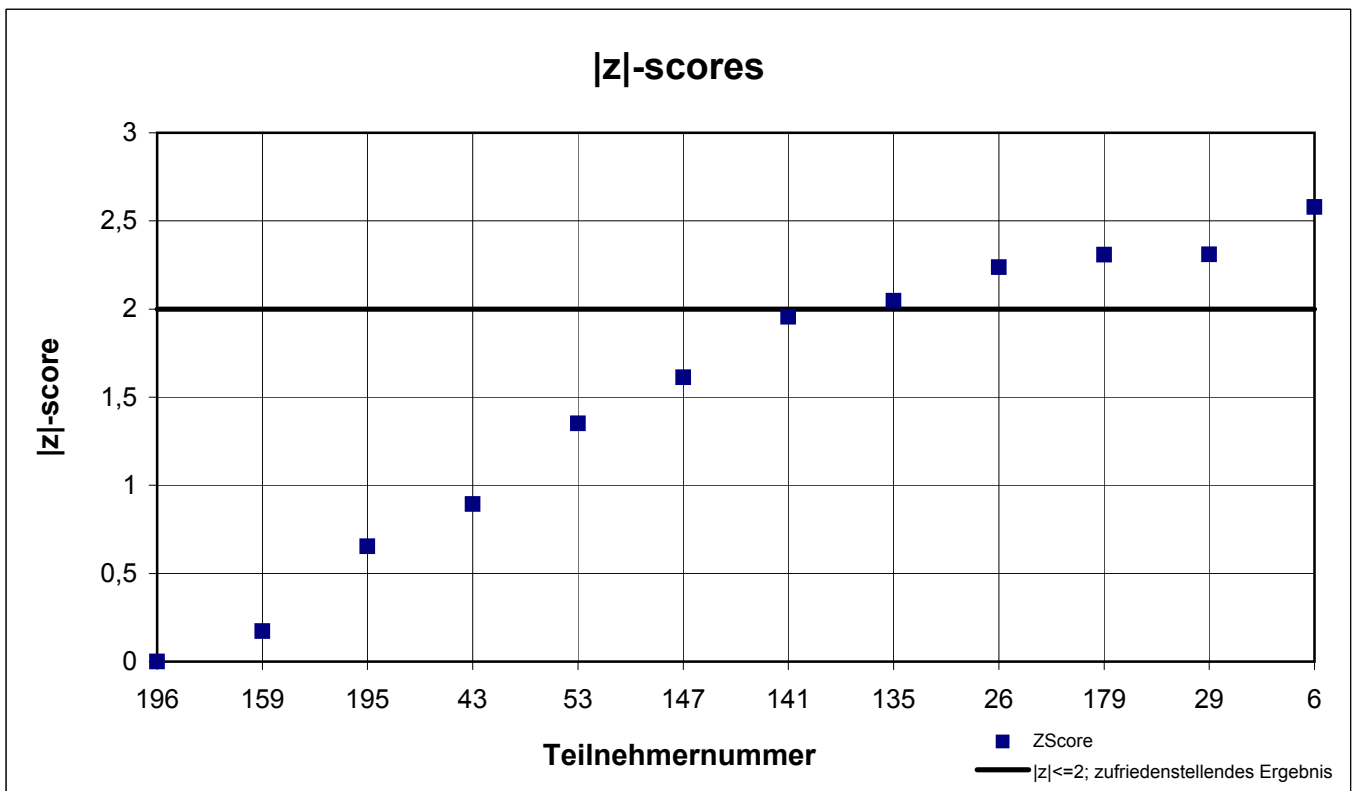
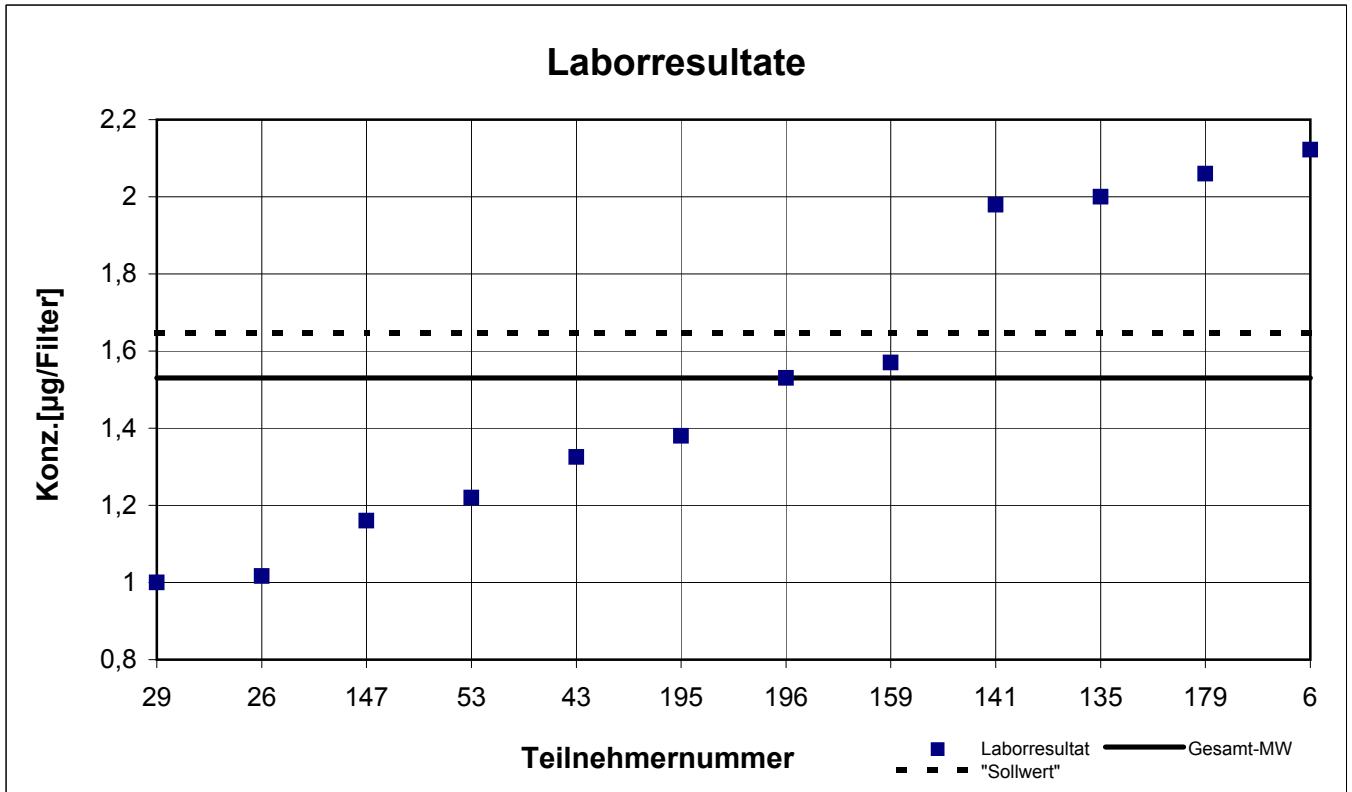
participant number	benzo[a]pyrene		benzo[e]pyrene		benzo[ghi]perylene		benzo[k]fluoranthene		indeno[1,2,3-cd]pyrene	
	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score
6	2,122	2,6	2,200	1,1	2,106	1,0	2,275	1,8	1,720	1,1
26	1,017	2,2	1,490	1,4	1,203	2,3	1,220	2,1	0,970	2,3
29	1,000	2,3	1,300	2,1	0,840	3,6	1,600	0,7	1,300	0,8
43	1,325	0,9	1,612	1,0	1,733	0,3	1,436	1,3	1,445	0,1
53	1,220	1,4	k.A.	k.A.	1,737	0,3	1,183	2,3	1,590	0,6
135	2,000	2,0	1,700	0,7	2,300	1,8	2,400	2,2	1,700	1,1
141	1,979	2,0	2,424	1,9	2,395	2,1	2,547	2,8	1,897	1,9
147	1,160	1,6	1,936	0,2	1,324	1,8	1,702	0,4	1,269	0,9
159	1,570	0,2	1,964	0,3	1,909	0,3	1,909	0,4	1,538	0,3
179	2,060	2,3	k.A.	k.A.	1,700	0,4	0,610	4,4	0,370	5,0
195	1,380	0,7	2,037	0,5	1,757	0,2	1,620	0,7	1,163	1,4
196	1,530	0,0	2,216	1,2	1,871	0,2	1,864	0,3	1,562	0,4

marked are outliers

	benzo[a]-pyrene	benzo[e]-pyrene	benzo[ghi]-perylene	benzo[k]-fluoranthene	indeno[1,2,3-cd]pyrene
mean value c_k [µg / sample]	1,530	1,888	1,821	1,796	1,469
standard deviation S_k [µg / sample]	0,4153	0,3556	0,3622	0,4572	0,2719
relative standard deviation [%]	27,14	18,84	19,89	25,46	18,51
mean value of control samples ("Sollwert")	1,648	2,060	1,868	1,961	1,540

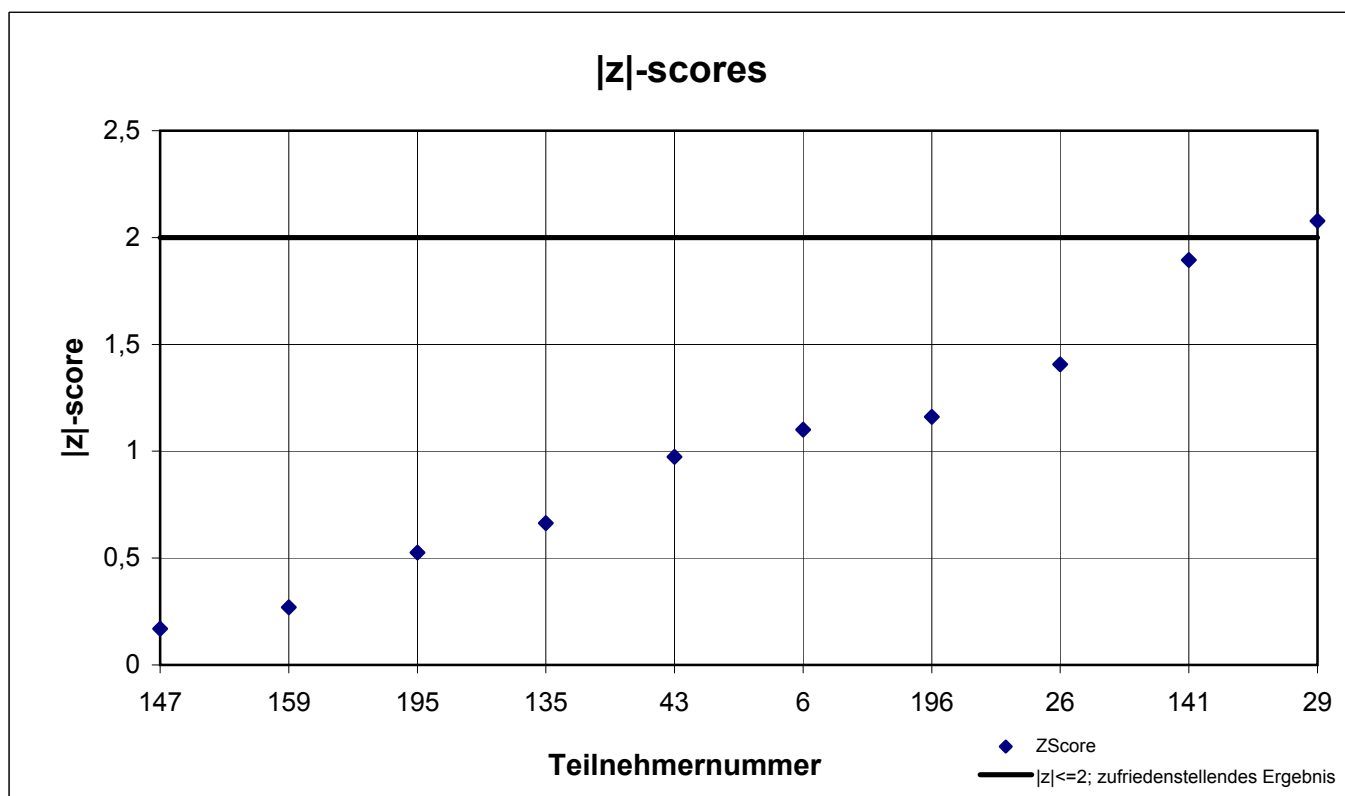
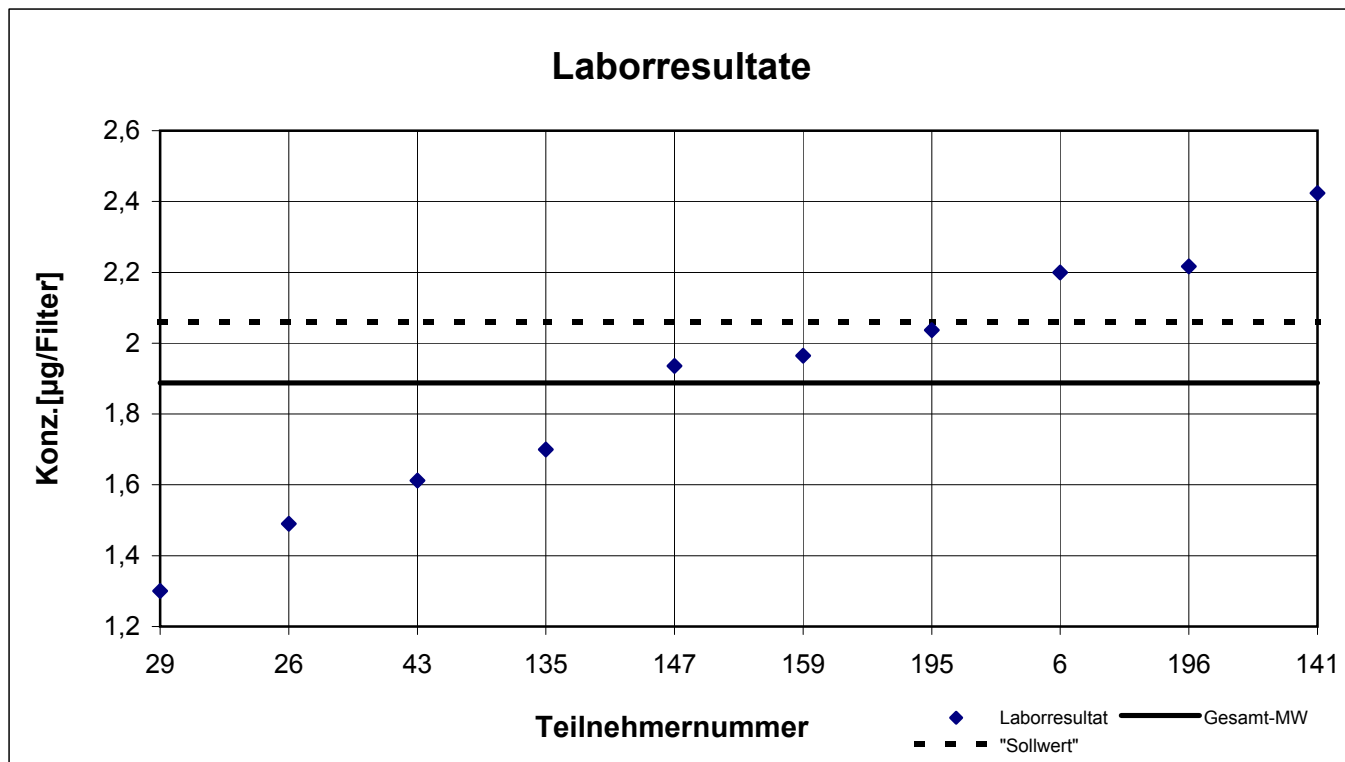
Filter 1

Benzo[a]pyren



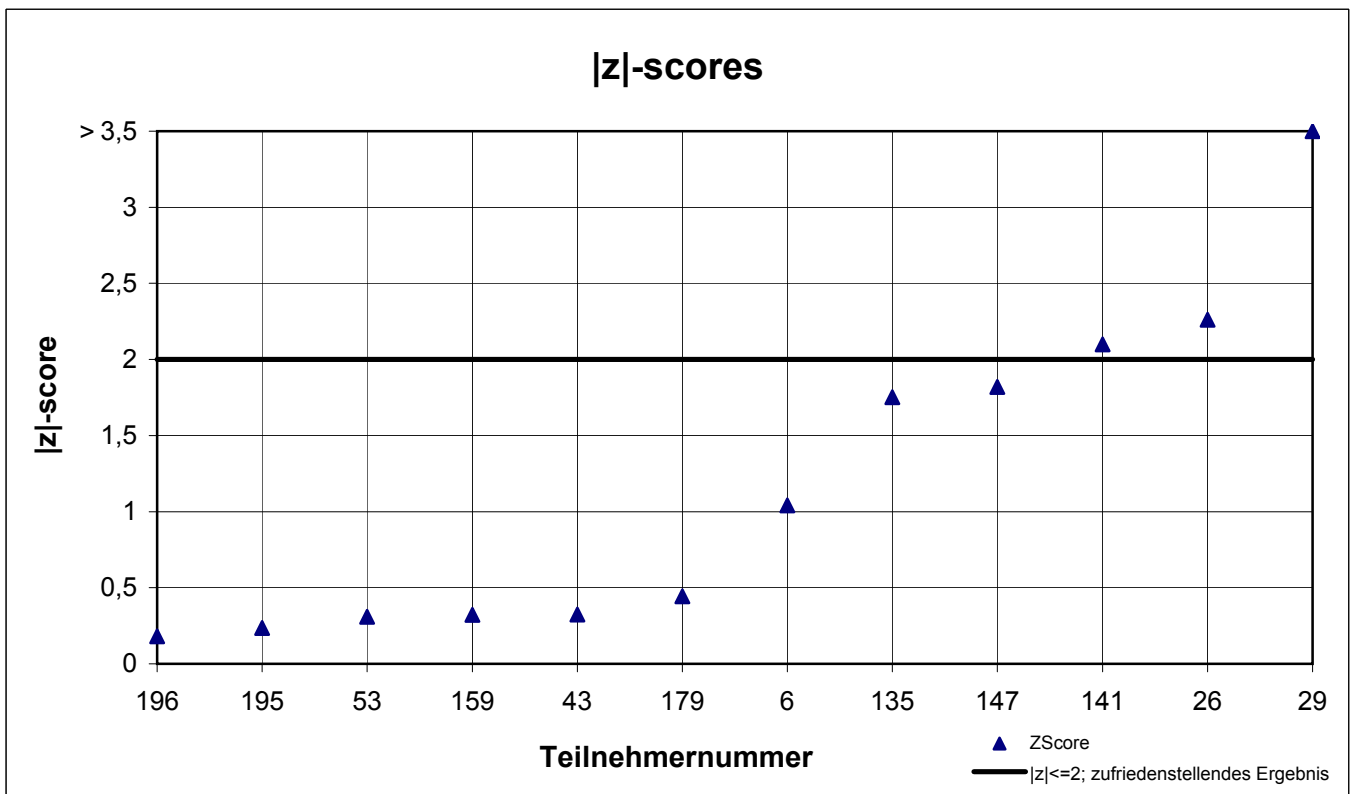
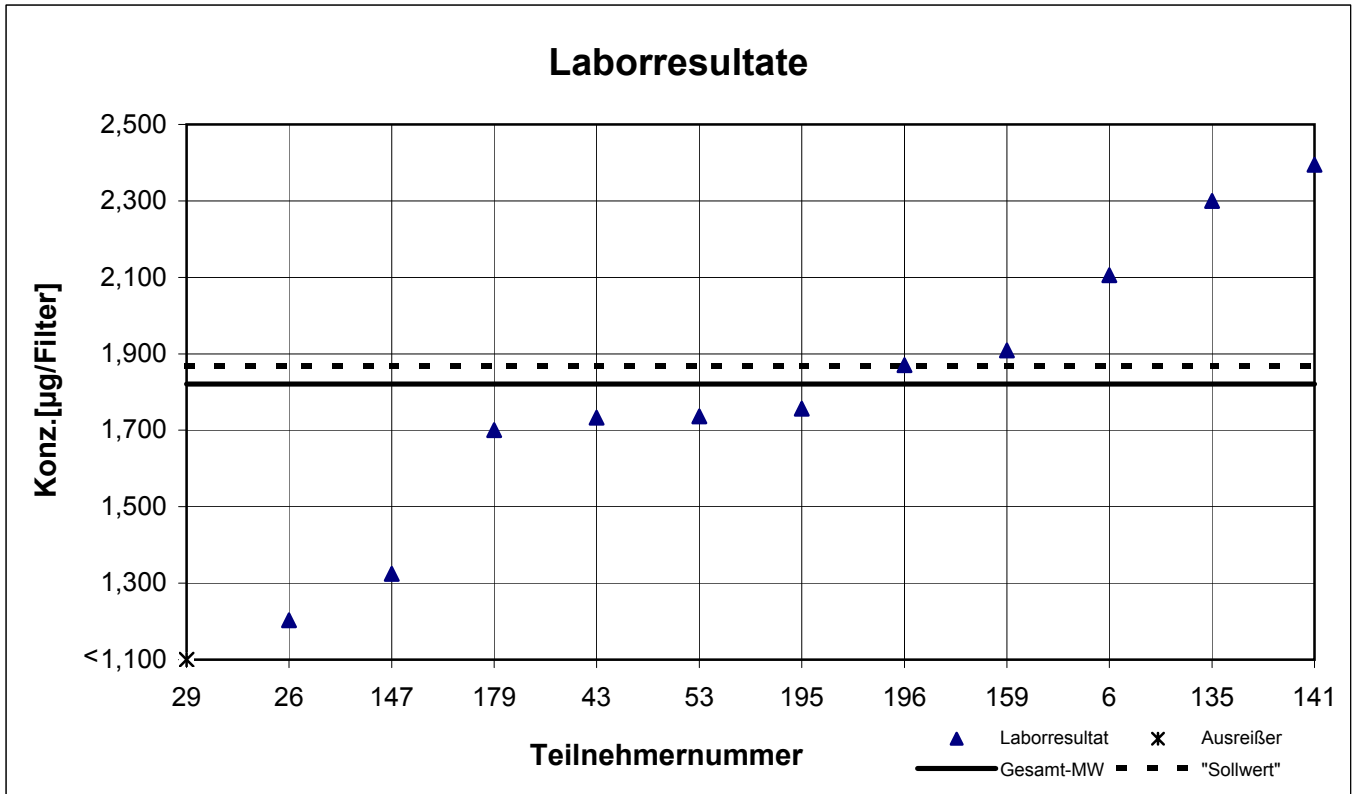
Filter 1

Benzo[e]pyren



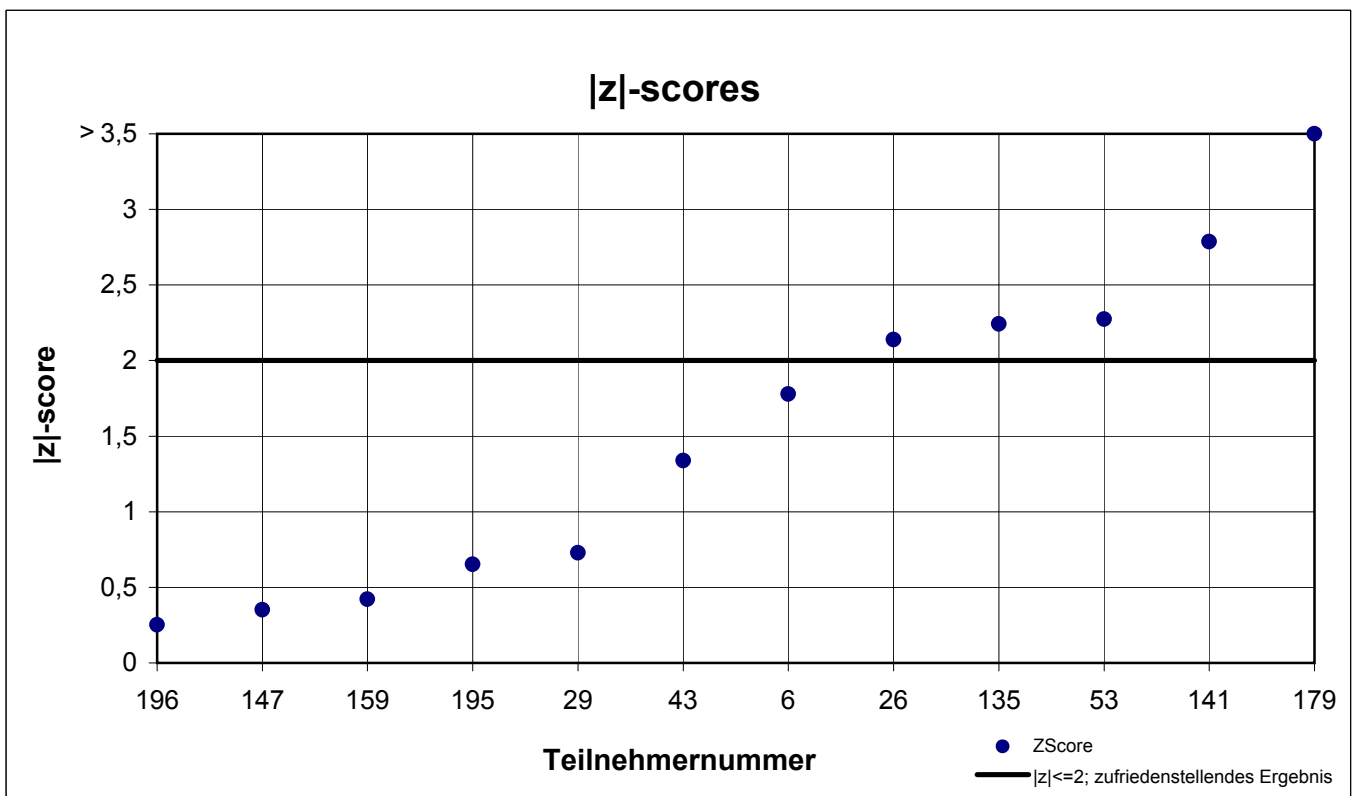
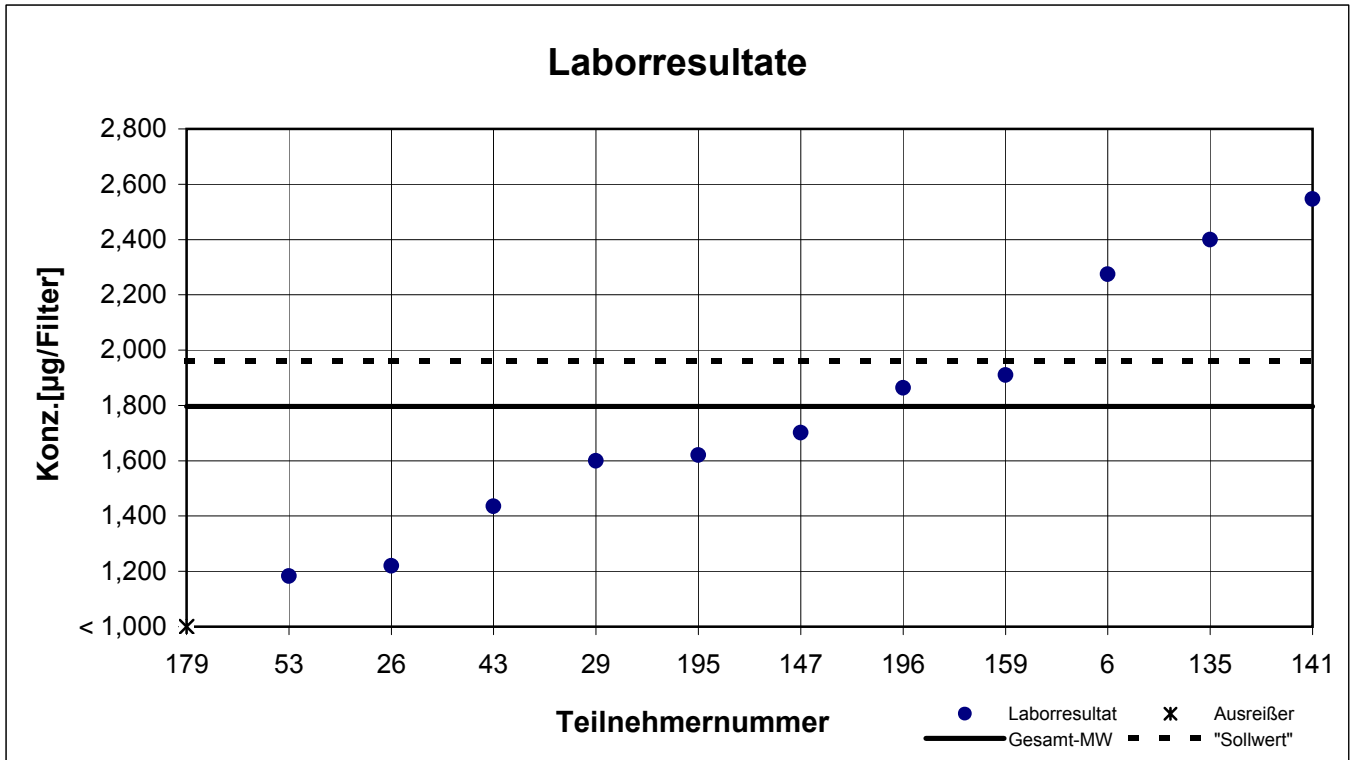
Filter 1

Benzo[ghi]perylen



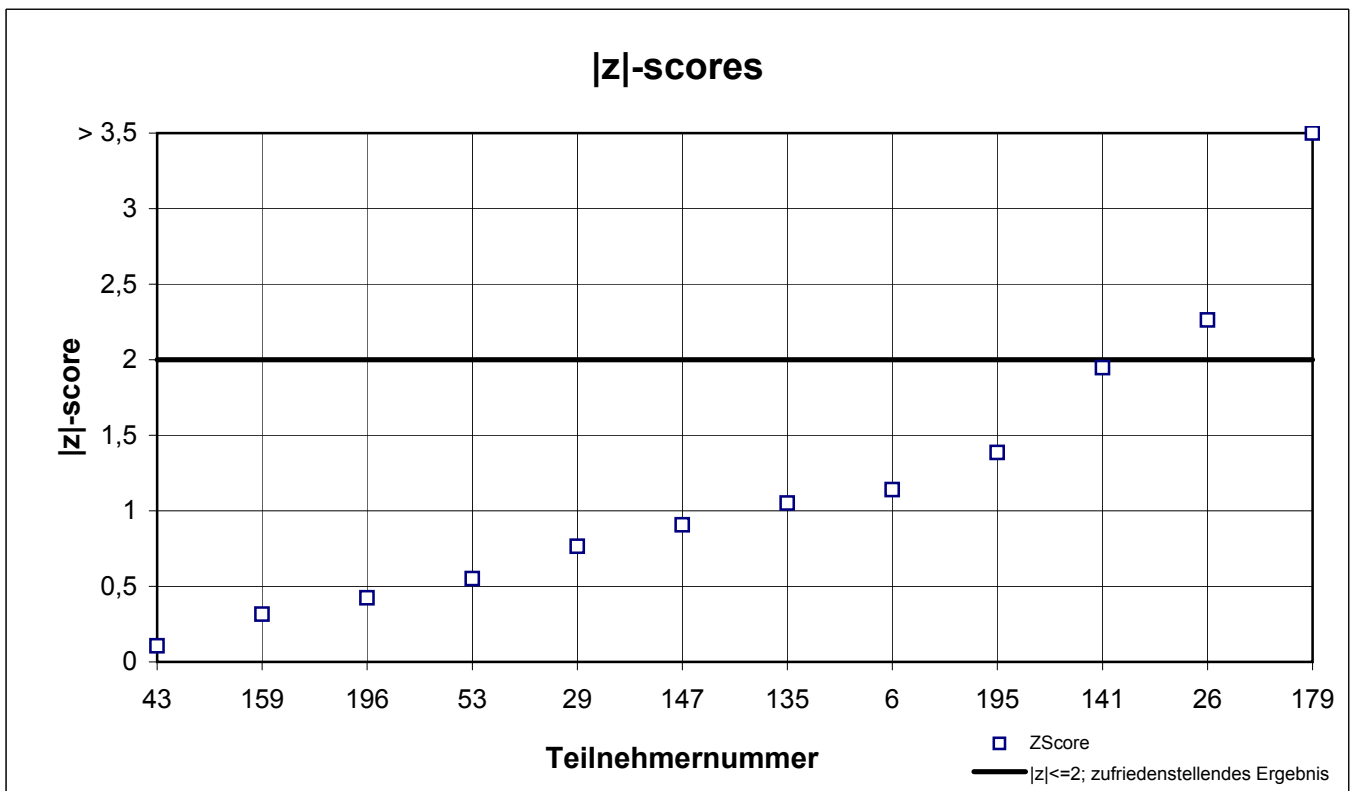
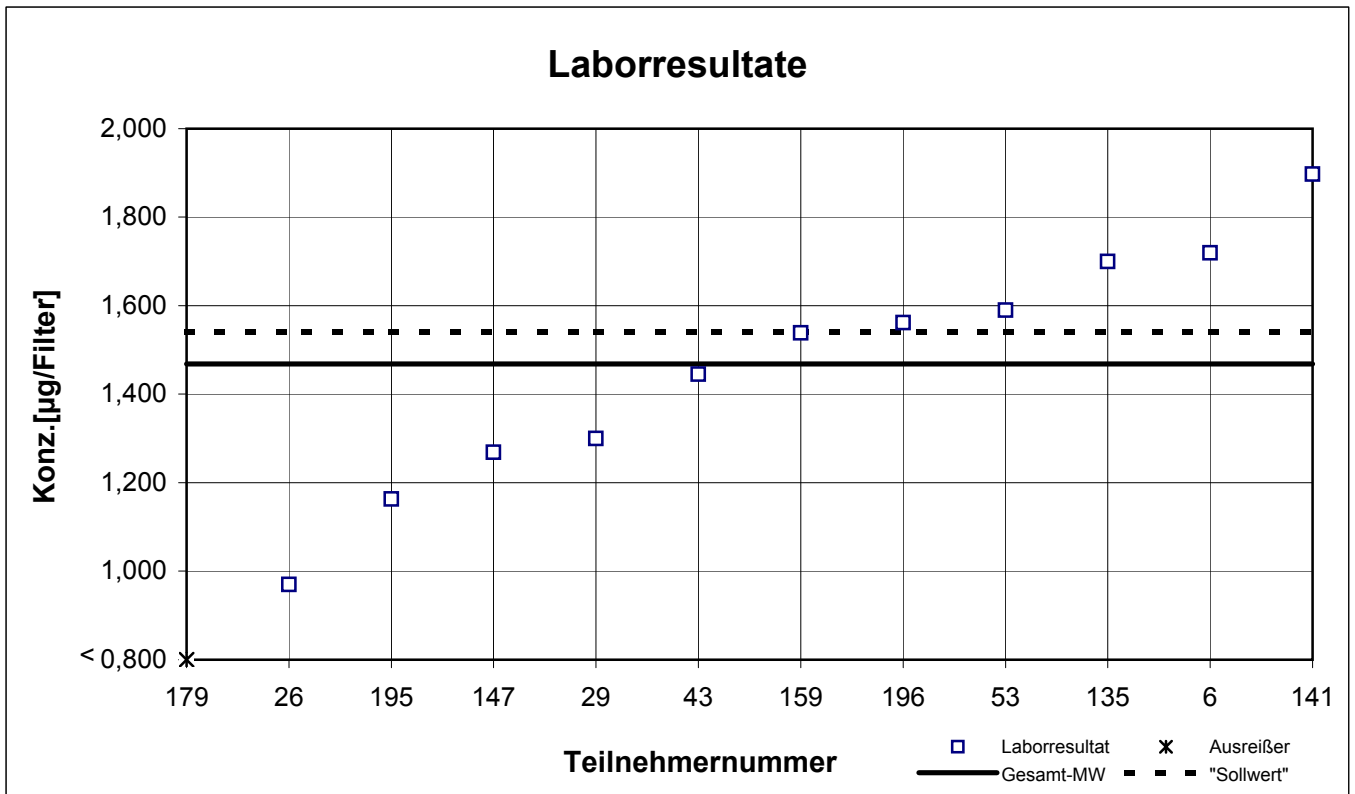
Filter 1

Benzo[k]fluoranthen



Filter 1

Indeno[1,2,3-cd]pyren



results filter 2

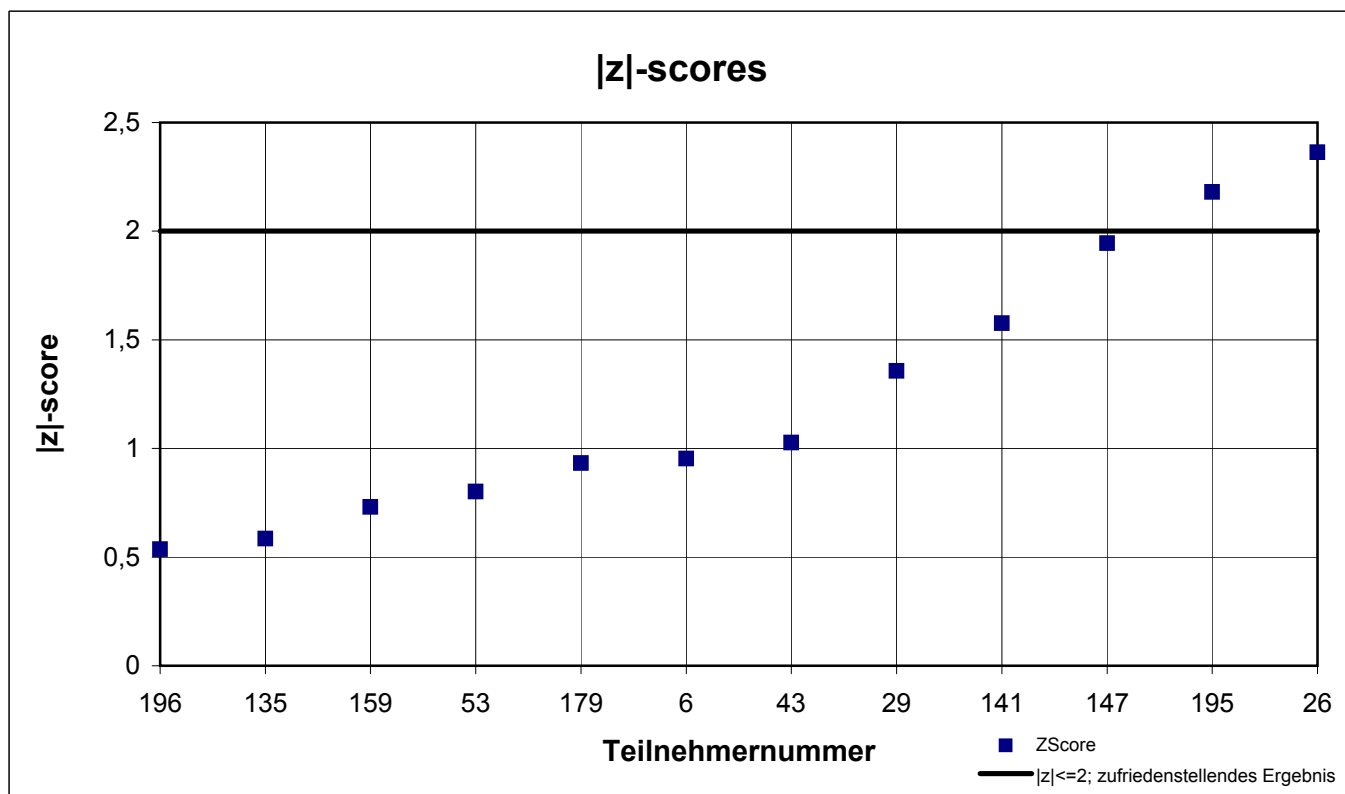
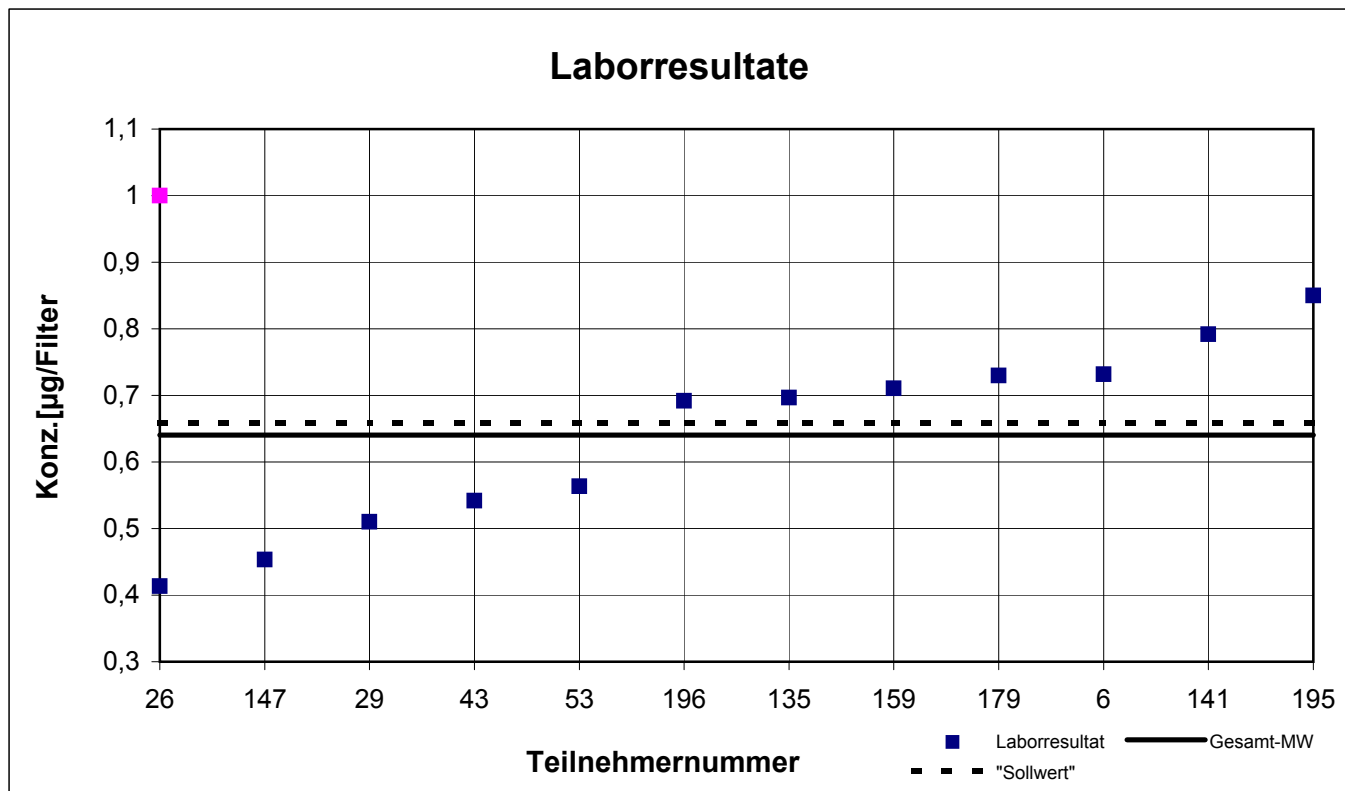
participant number	benzo[a]pyrene		benzo[e]pyrene		benzo[ghi]perylene		benzo[k]fluoranthene		indeno[1,2,3-cd]pyrene	
	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score
6	0,732	1,0	0,844	0,5	0,858	1,3	0,886	1,3	0,672	0,9
26	0,413	2,4	0,617	1,4	0,500	2,0	0,507	2,1	0,450	1,6
29	0,510	1,4	0,690	0,8	0,530	1,8	0,710	0,3	0,540	0,6
43	0,542	1,0	0,614	1,4	0,676	0,4	0,557	1,7	0,567	0,3
53	0,563	0,8	k.A.	k.A.	0,687	0,3	0,510	2,1	0,683	1,0
135	0,697	0,6	0,600	1,5	0,800	0,7	0,850	1,0	0,587	0,0
141	0,792	1,6	0,956	1,5	0,922	1,9	1,004	2,4	0,749	1,8
147	0,454	1,9	0,795	0,1	0,548	1,6	0,666	0,7	0,511	0,9
159	0,711	0,7	0,883	0,9	0,845	1,1	0,852	1,0	0,683	1,0
179	0,730	0,9	k.A.	k.A.	0,790	0,6	0,320	3,8	0,120	5,3
195	0,850	2,2	0,833	0,4	1,510	7,3	0,783	0,4	0,447	1,6
196	0,692	0,5	0,976	1,7	0,779	0,5	0,829	0,8	0,607	0,2

marked are outliers

	benzo[a]-pyrene	benzo[e]-pyrene	benzo[ghi]-perylene	benzo[k]-fluoranthene	indeno[1,2,3-cd]pyrene
mean value c_k [µg / sample]	0,640	0,781	0,721	0,741	0,591
standard deviation S_k [µg / sample]	0,1392	0,1422	0,1441	0,1651	0,0996
relative standard deviation [%]	21,74	18,21	19,98	22,28	16,87
mean value of control samples ("Sollwert")	0,659	0,822	0,740	0,782	0,612

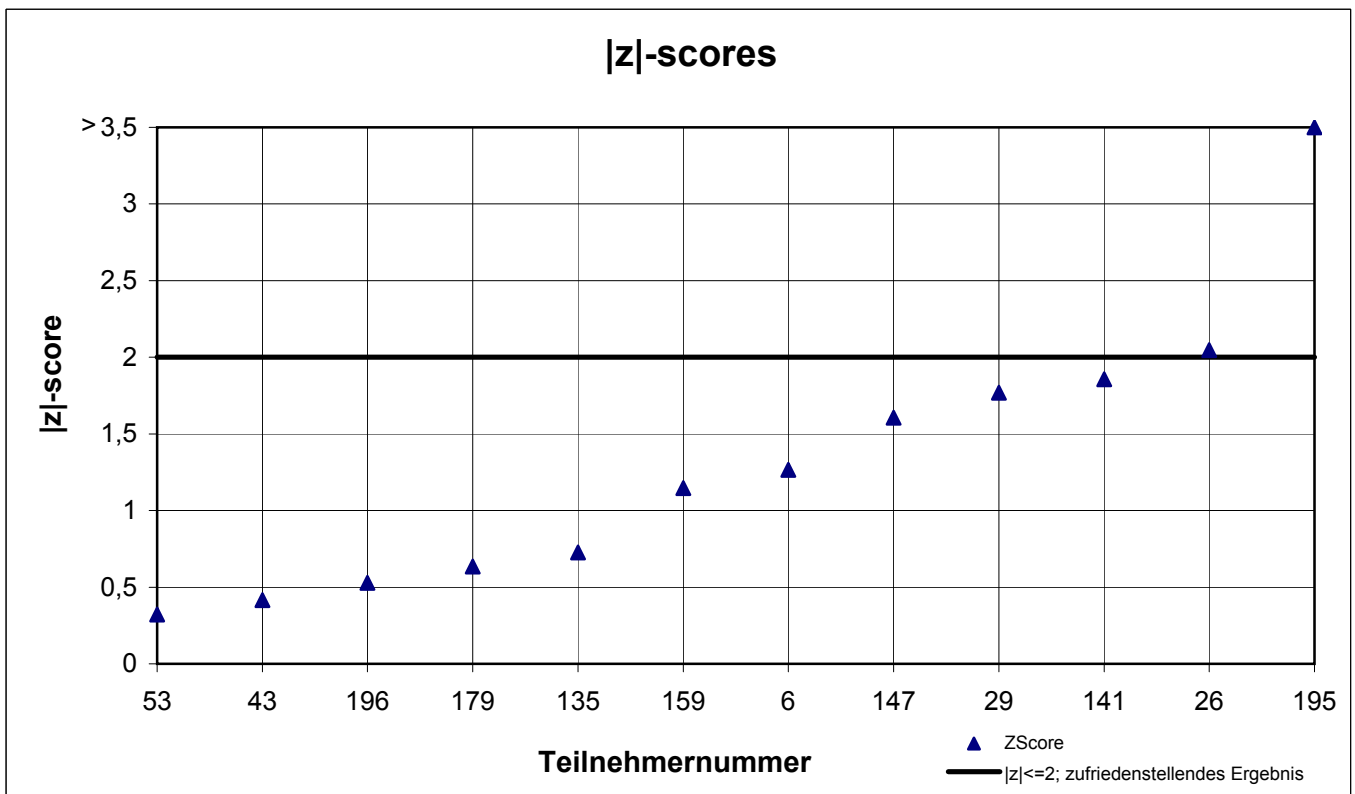
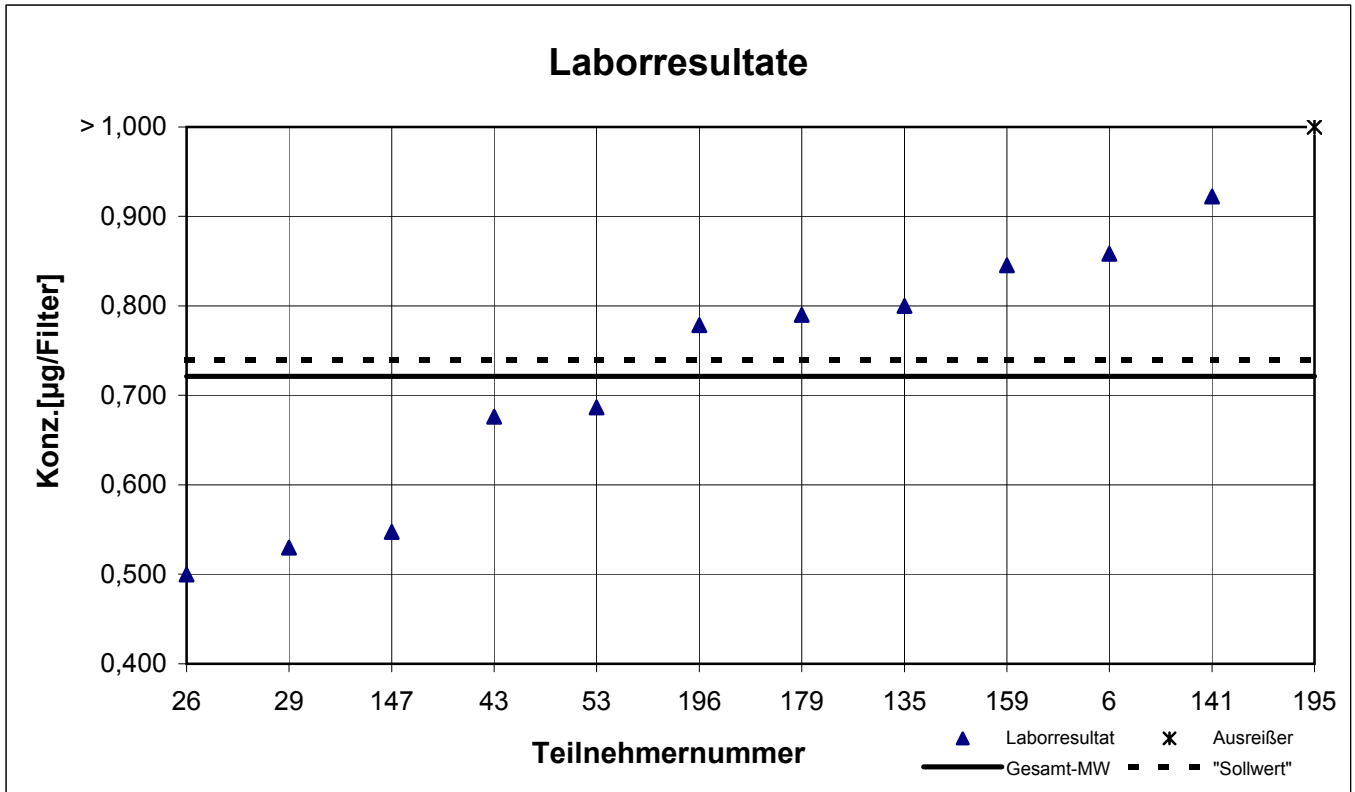
Filter 2

Benzo(a)pyren



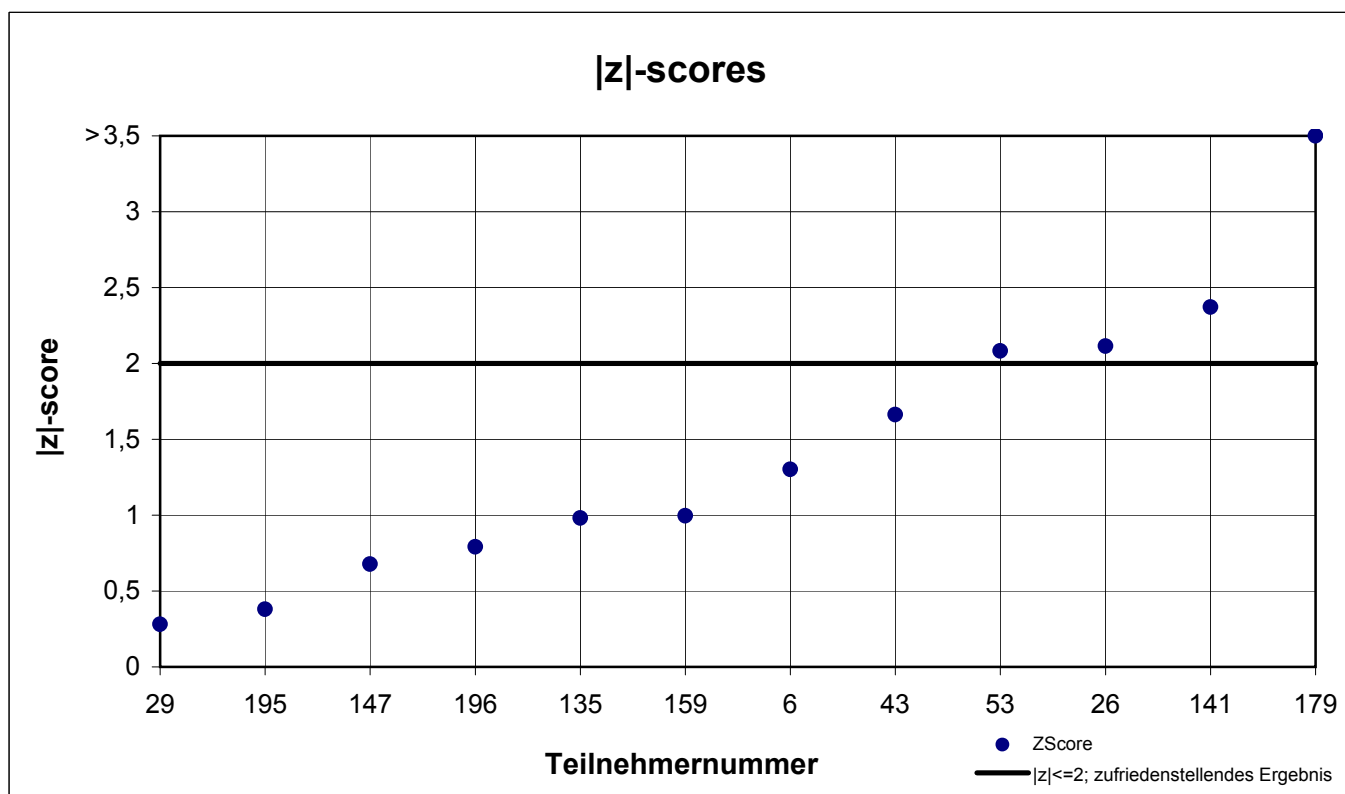
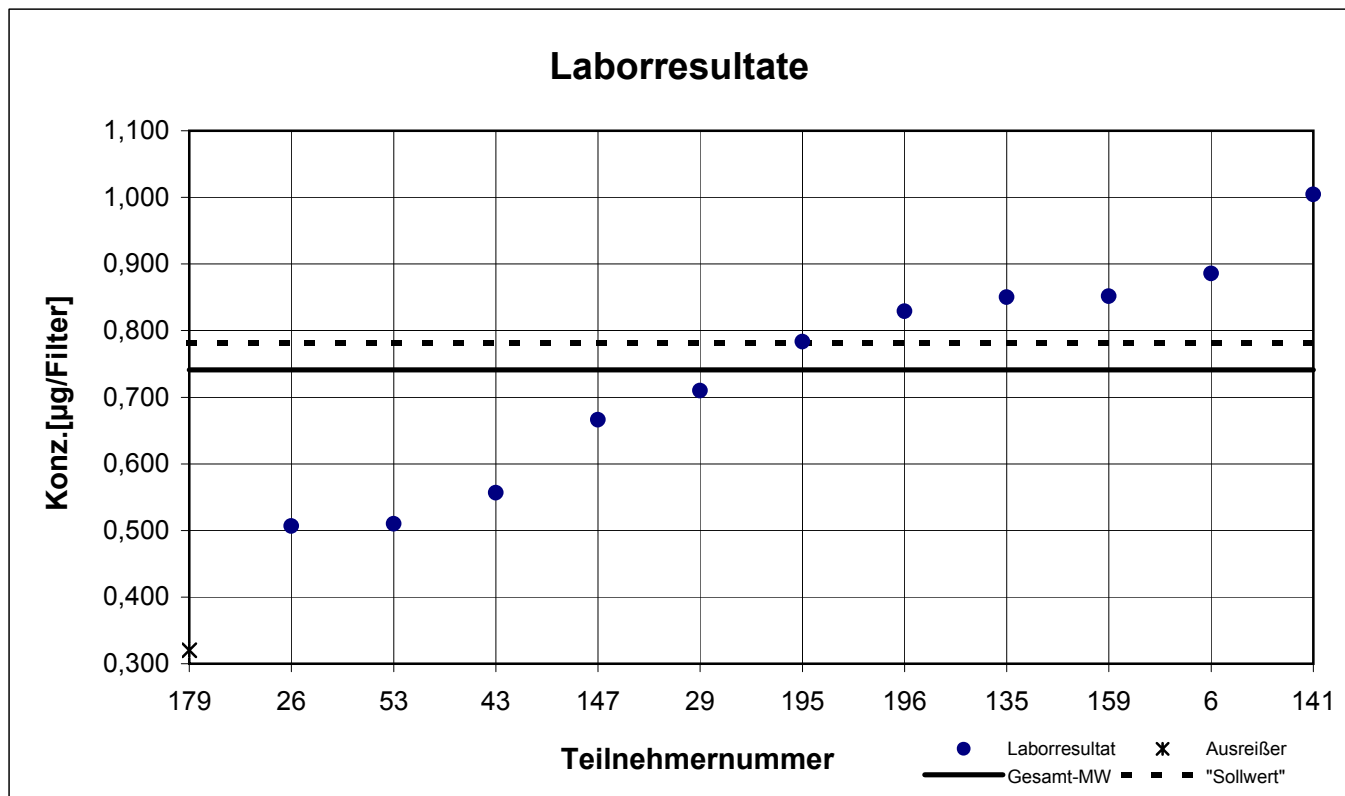
Filter 2

Benzo(ghi)perylen



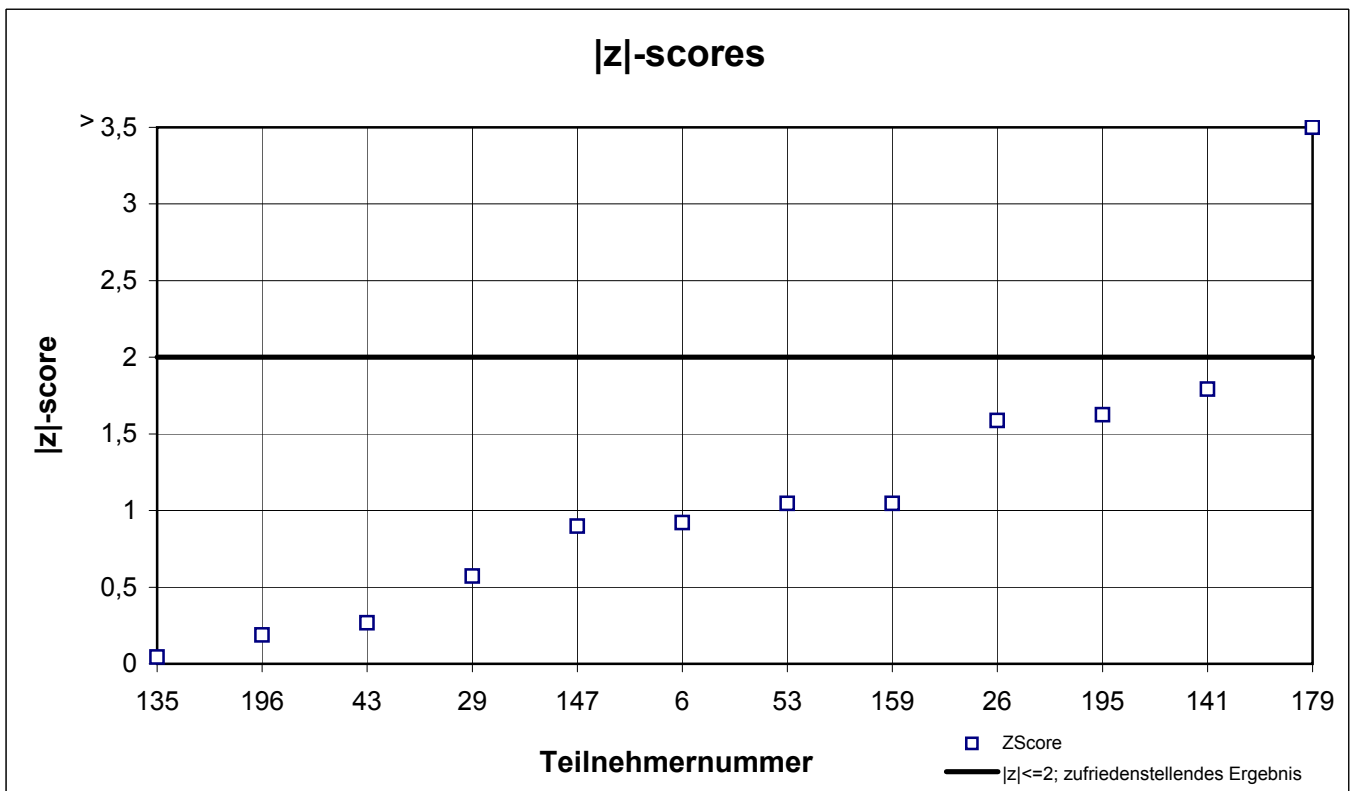
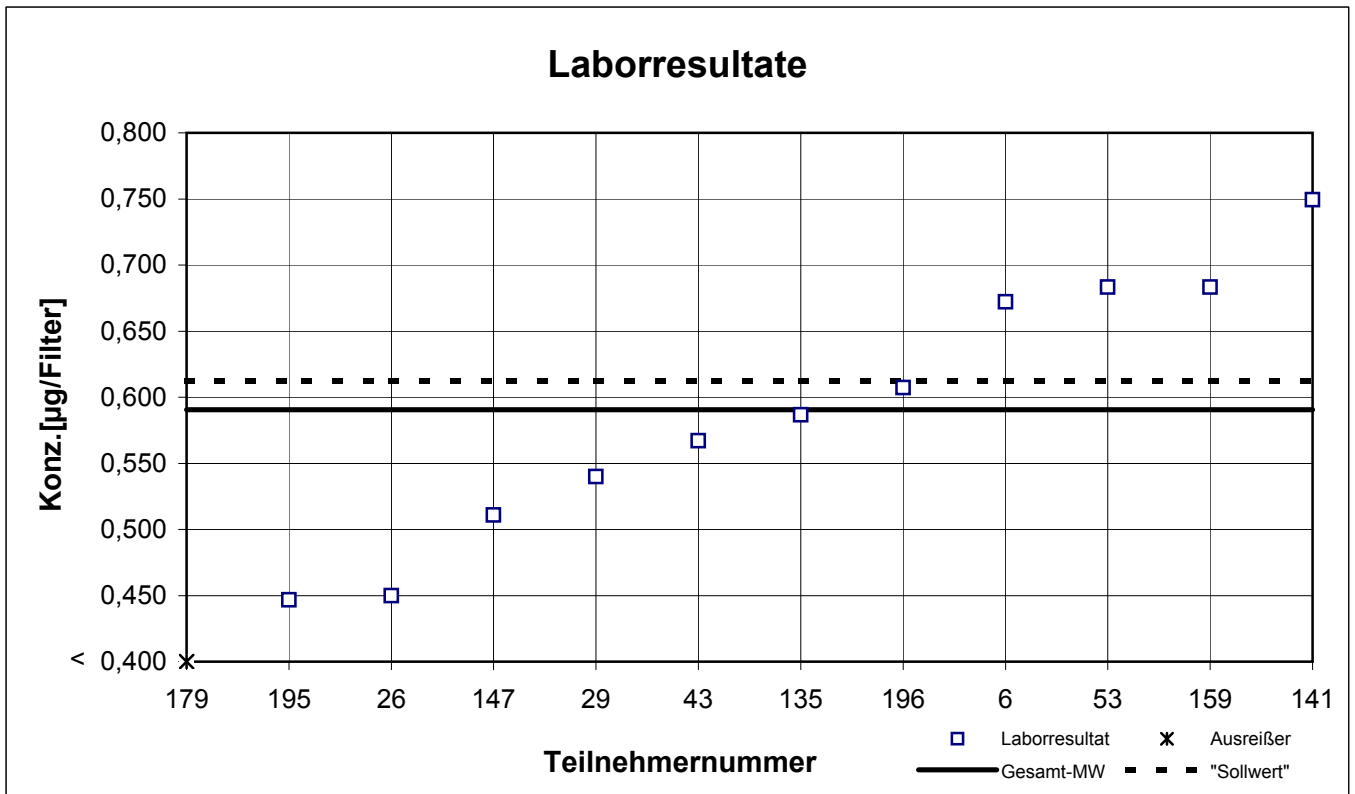
Filter 2

Benzo(k)fluoranthen



Filter 2

Indeno(1,2,3-cd)pyren



results filter 3

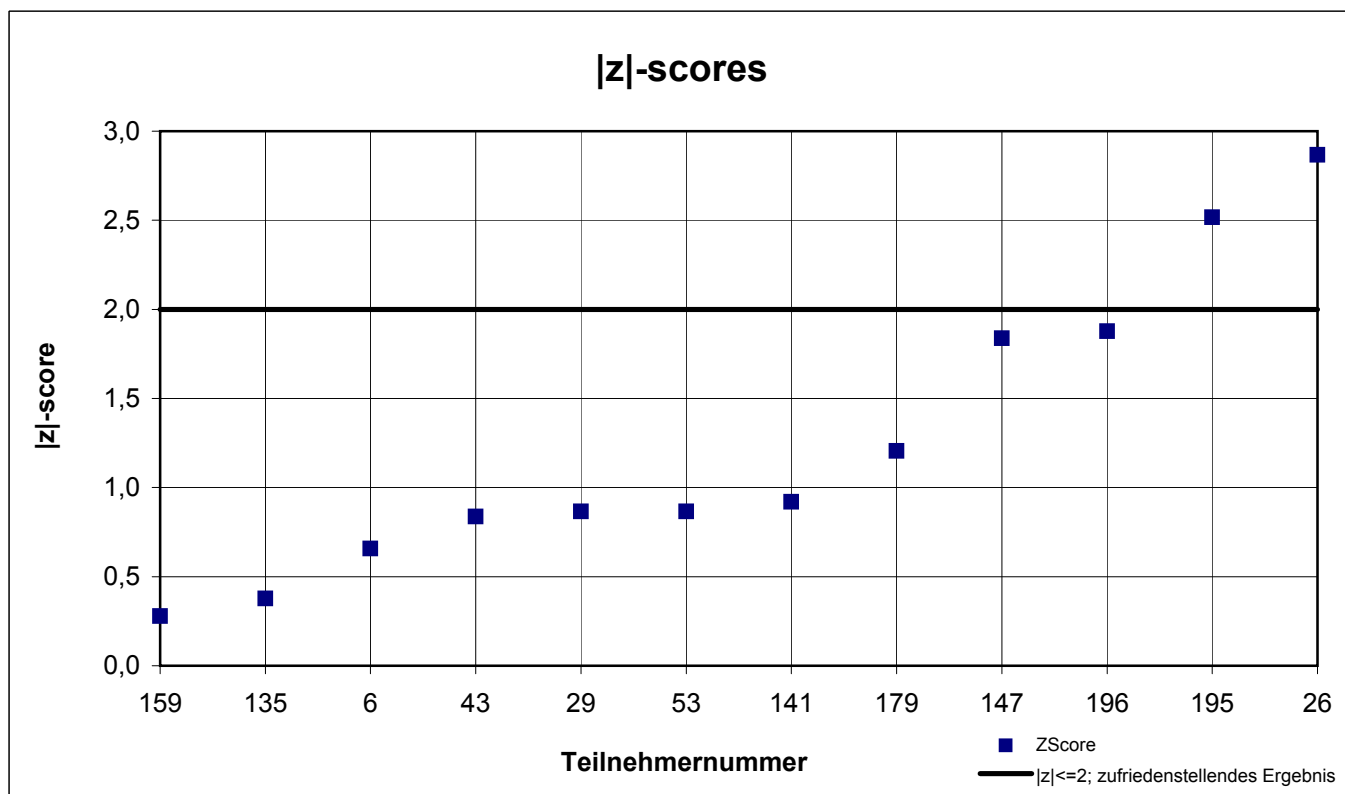
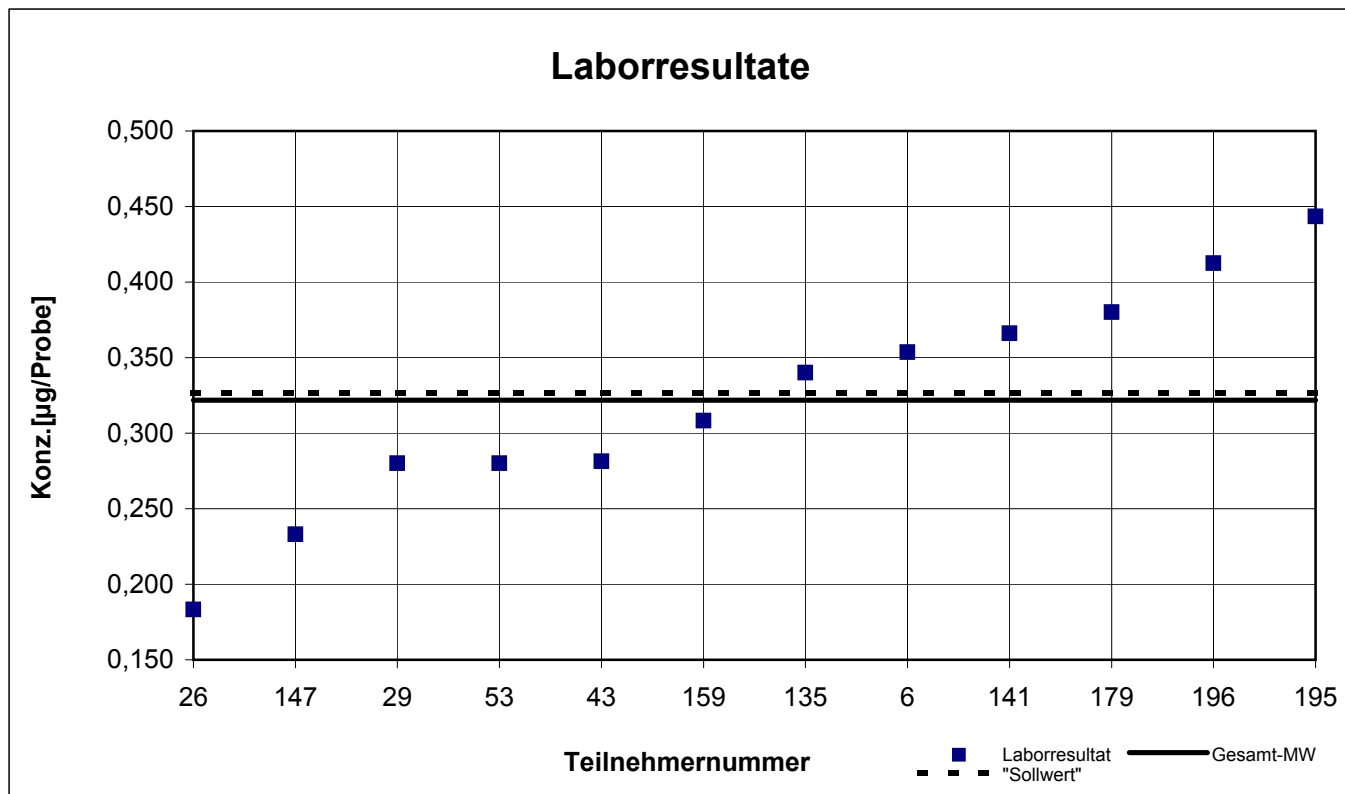
participant number	benzo[a]pyrene		benzo[e]pyrene		benzo[ghi]perylene		benzo[k]fluoranthene		indeno[1,2,3-cd]pyrene	
	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score	result [µg/sample]	z - score
6	0,354	0,7	0,418	0,6	0,419	1,4	0,383	0,3	0,340	1,2
26	0,183	2,9	0,280	1,8	0,223	2,4	0,220	2,7	0,180	2,5
29	0,280	0,9	0,390	0,2	0,310	0,7	0,370	0,1	0,290	0,0
43	0,281	0,8	0,295	1,5	0,342	0,1	0,264	1,9	0,283	0,1
53	0,280	0,9	k.A.	k.A.	0,357	0,2	0,260	1,9	0,347	1,4
135	0,340	0,4	0,290	1,6	0,393	0,9	0,420	1,0	0,280	0,2
141	0,366	0,9	0,432	0,9	0,432	1,6	0,468	1,8	0,348	1,4
147	0,233	1,8	0,371	0,2	0,264	1,6	0,342	0,5	0,265	0,5
159	0,308	0,3	0,383	0,0	0,365	0,3	0,374	0,1	0,298	0,2
179	0,380	1,2	k.A.	k.A.	0,310	0,7	3,000	4,3	0,080	4,8
195	0,443	2,5	0,410	0,5	0,720	7,2	0,403	0,7	0,237	1,2
196	0,413	1,9	0,543	2,8	0,400	1,0	0,532	3,0	0,301	0,3

marked  are outliers

	benzo[a]-pyrene	benzo[e]-pyrene	benzo[ghi]-perylene	benzo[k]-fluoranthene	indeno[1,2,3-cd]pyrene
mean value c_k [µg / sample]	0,322	0,381	0,347	0,367	0,288
standard deviation S_k [µg / sample]	0,0751	0,0796	0,0653	0,0927	0,0499
relative standard deviation [%]	23,34	20,89	18,83	25,28	17,33
mean value of control samples ("Sollwert")	0,327	0,406	0,369	0,391	0,301

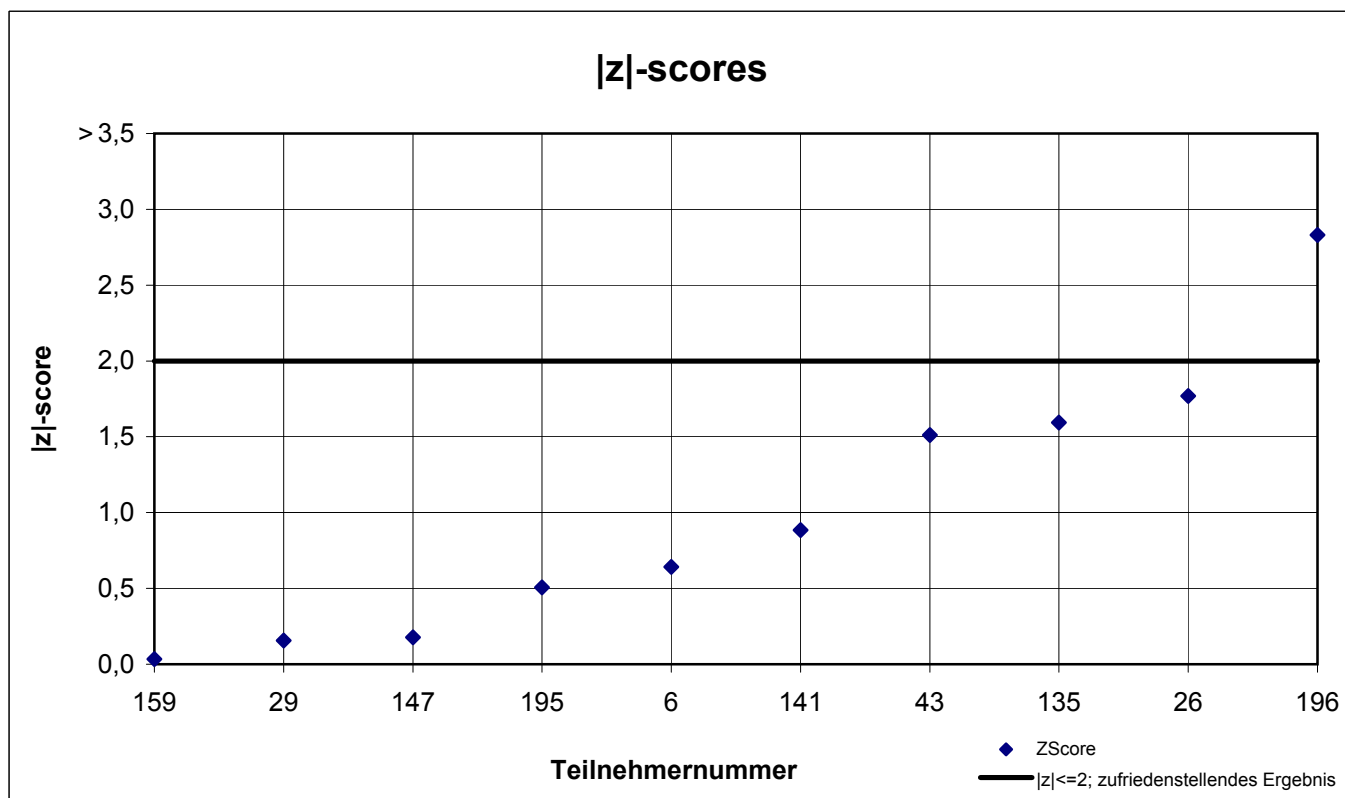
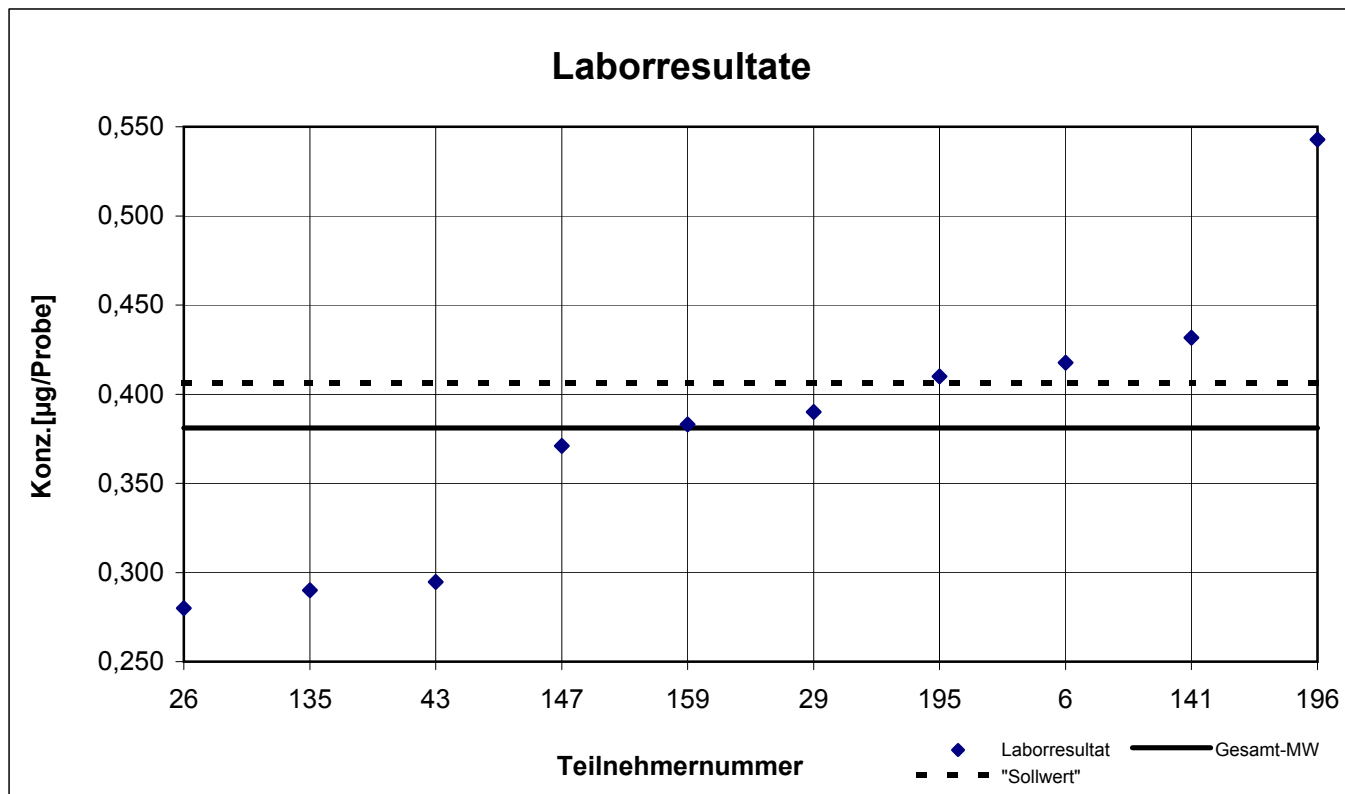
Filter 3

Benzo[a]pyren



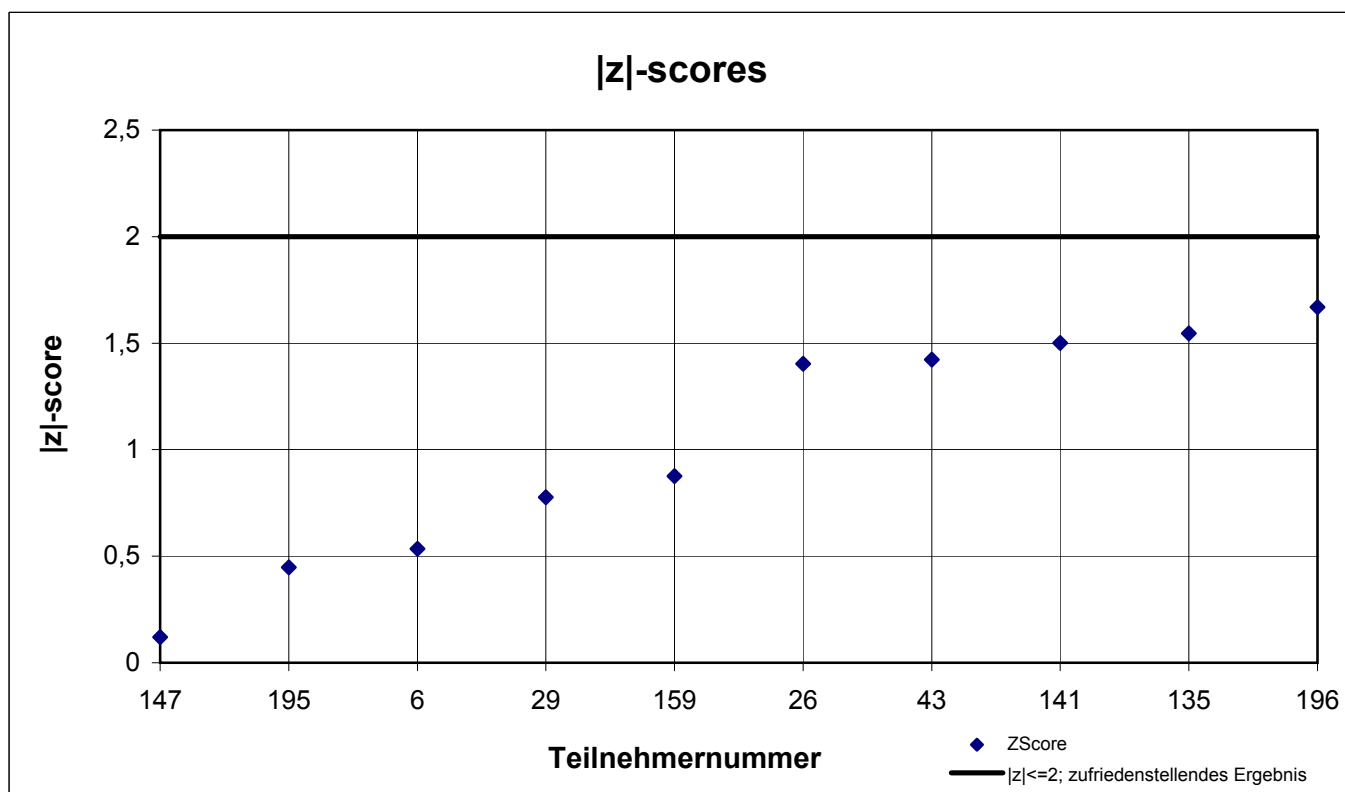
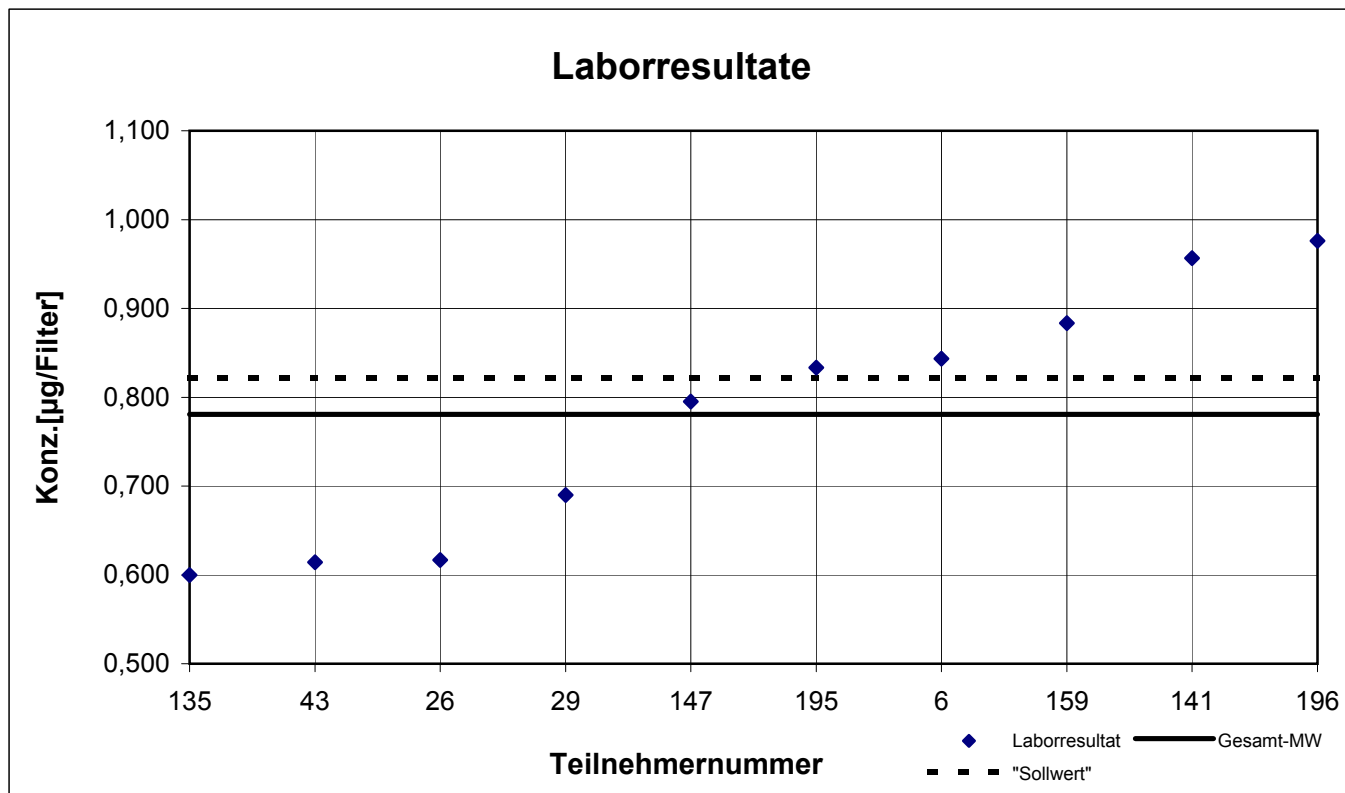
Filter 3

Benzo[e]pyren



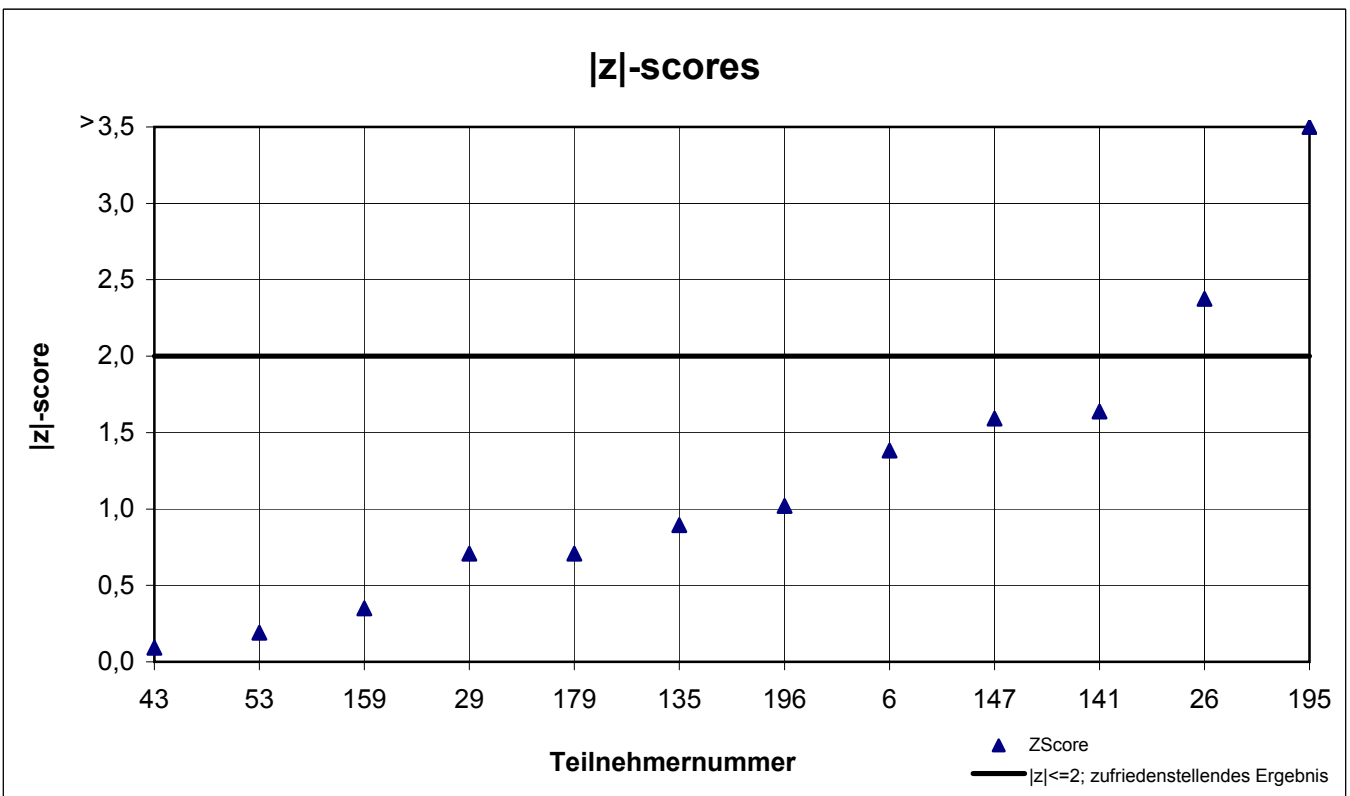
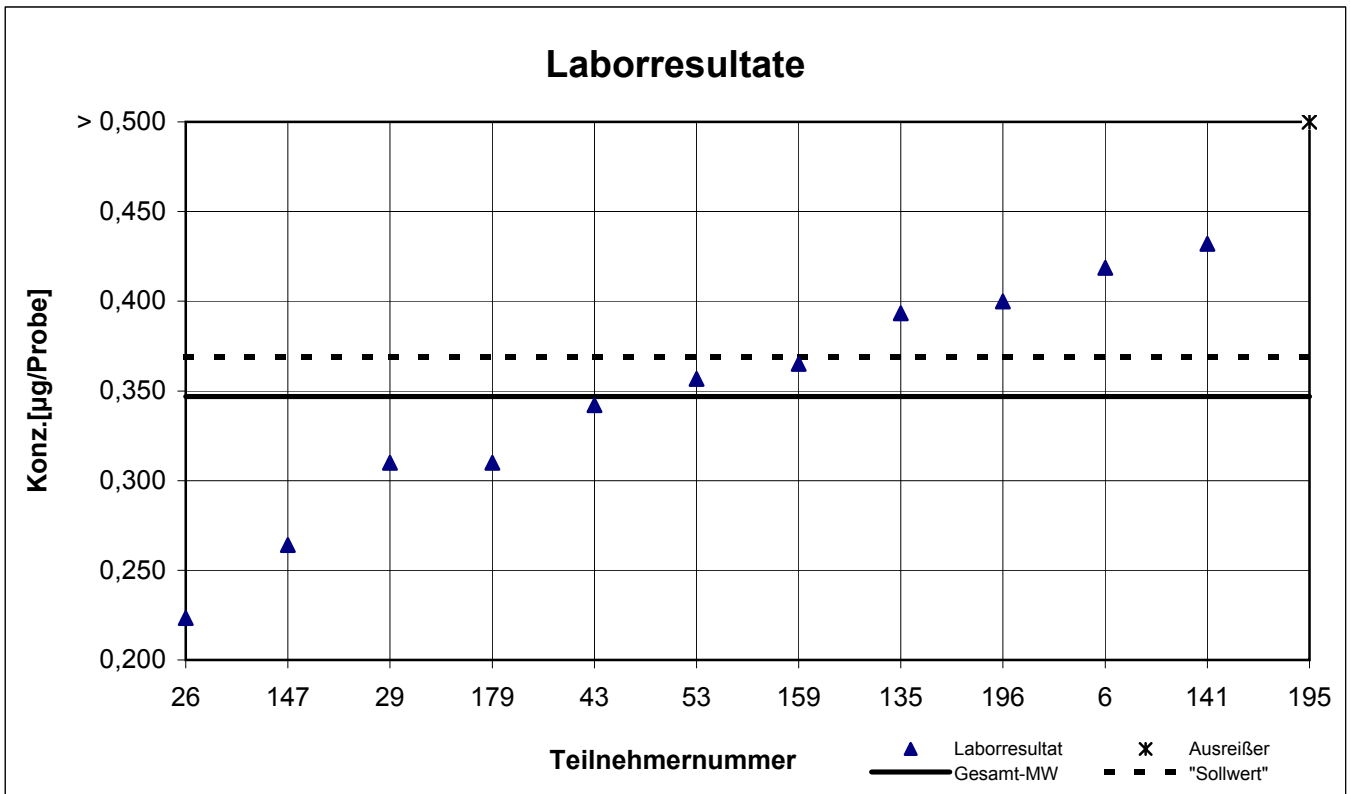
Filter 2

Benzo[e]pyren



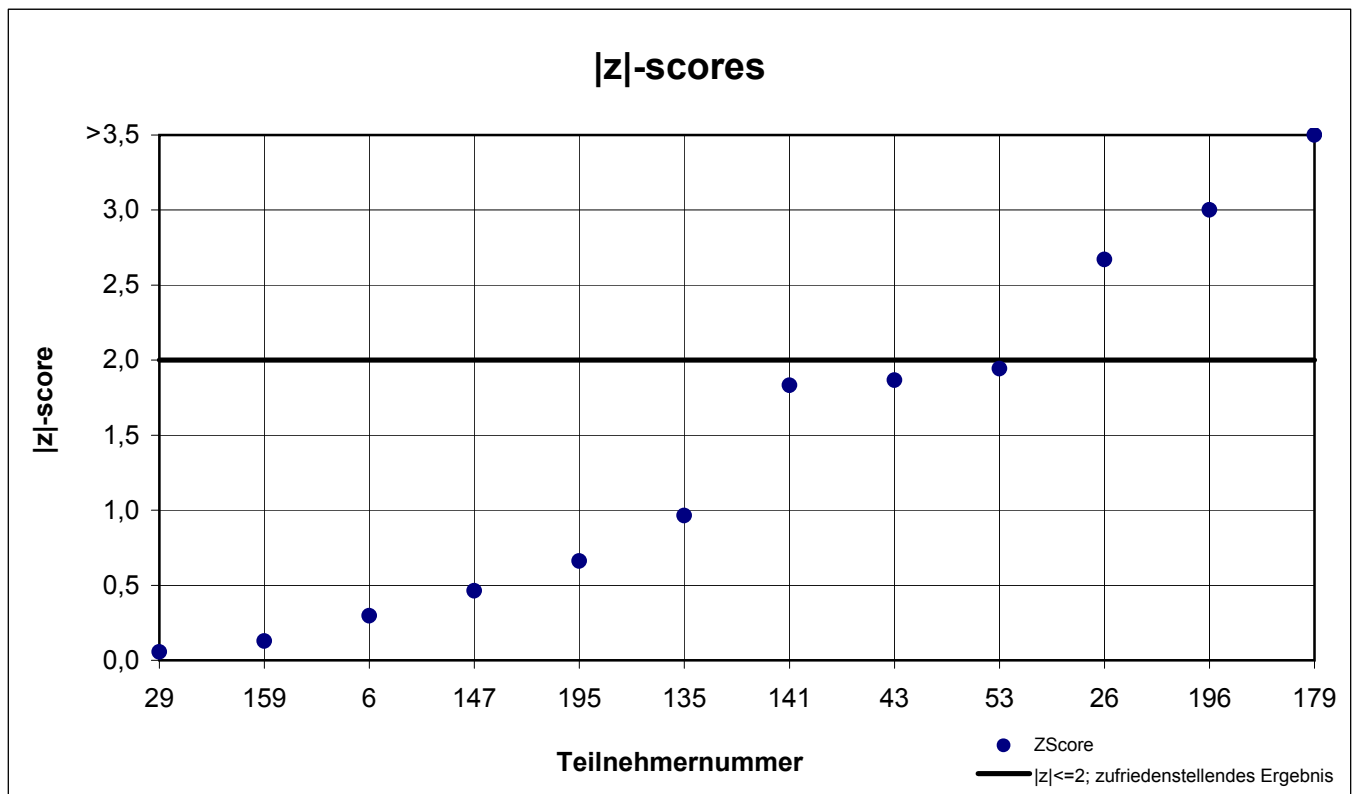
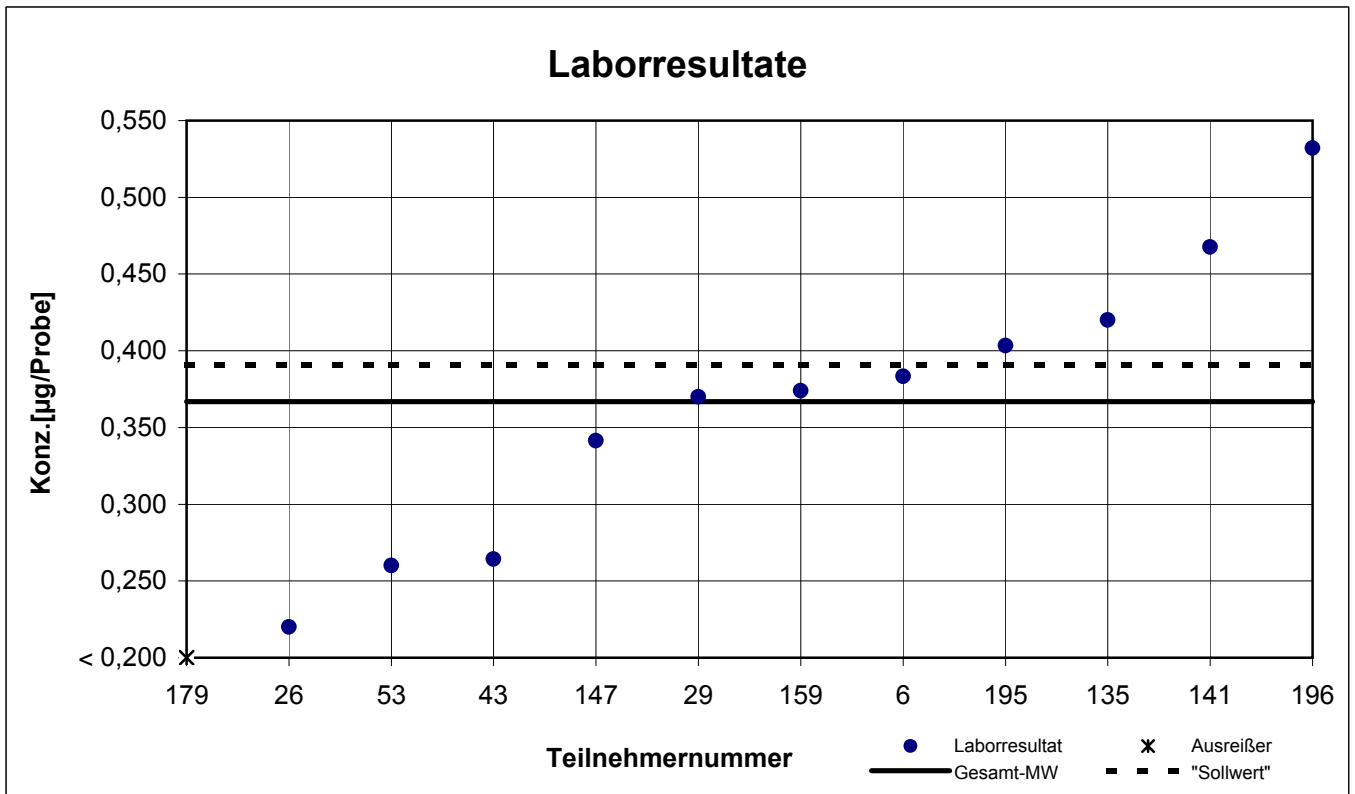
Filter 3

Benzo[ghi]perylen



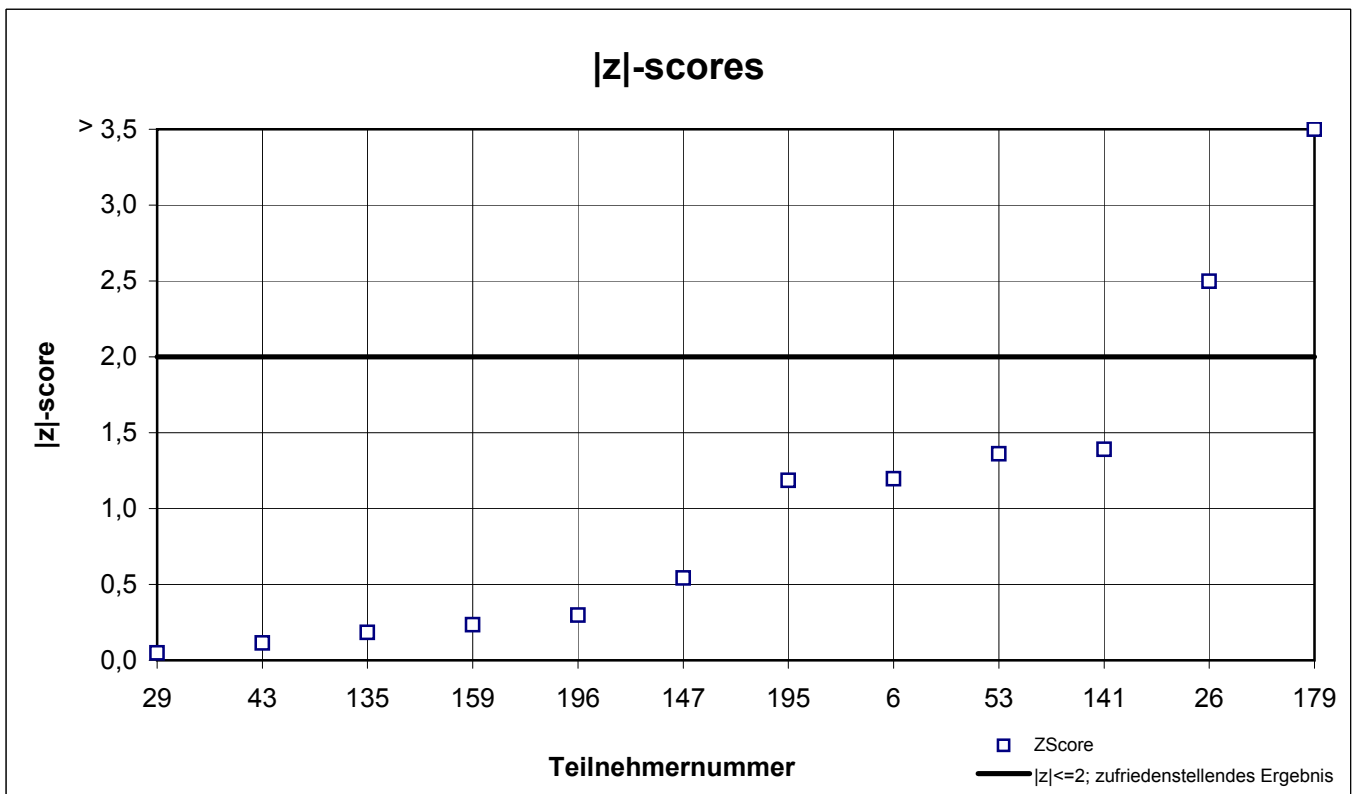
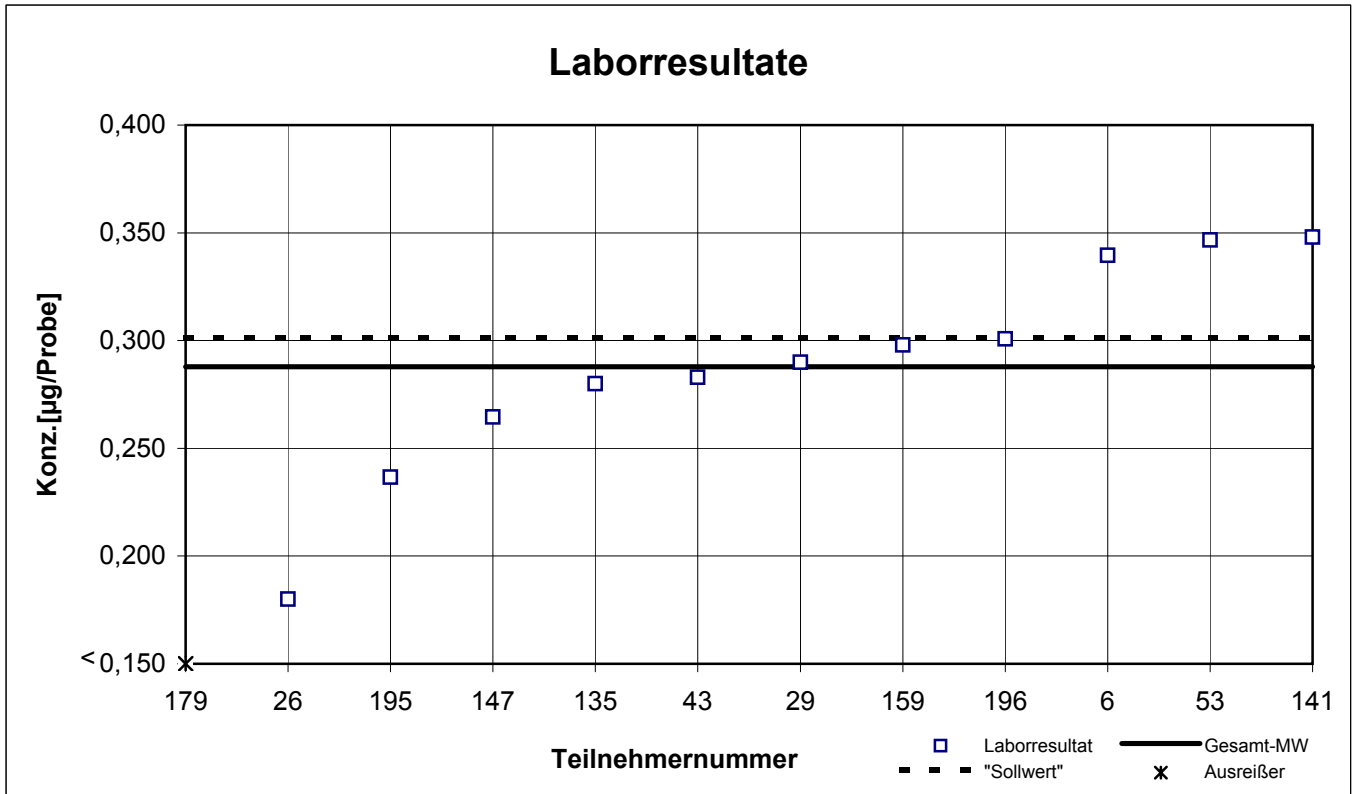
Filter 3

Benzo[k]fluoranthen



Filter 3

Indeno[1,2,3-cd]pyren



results XAD 1

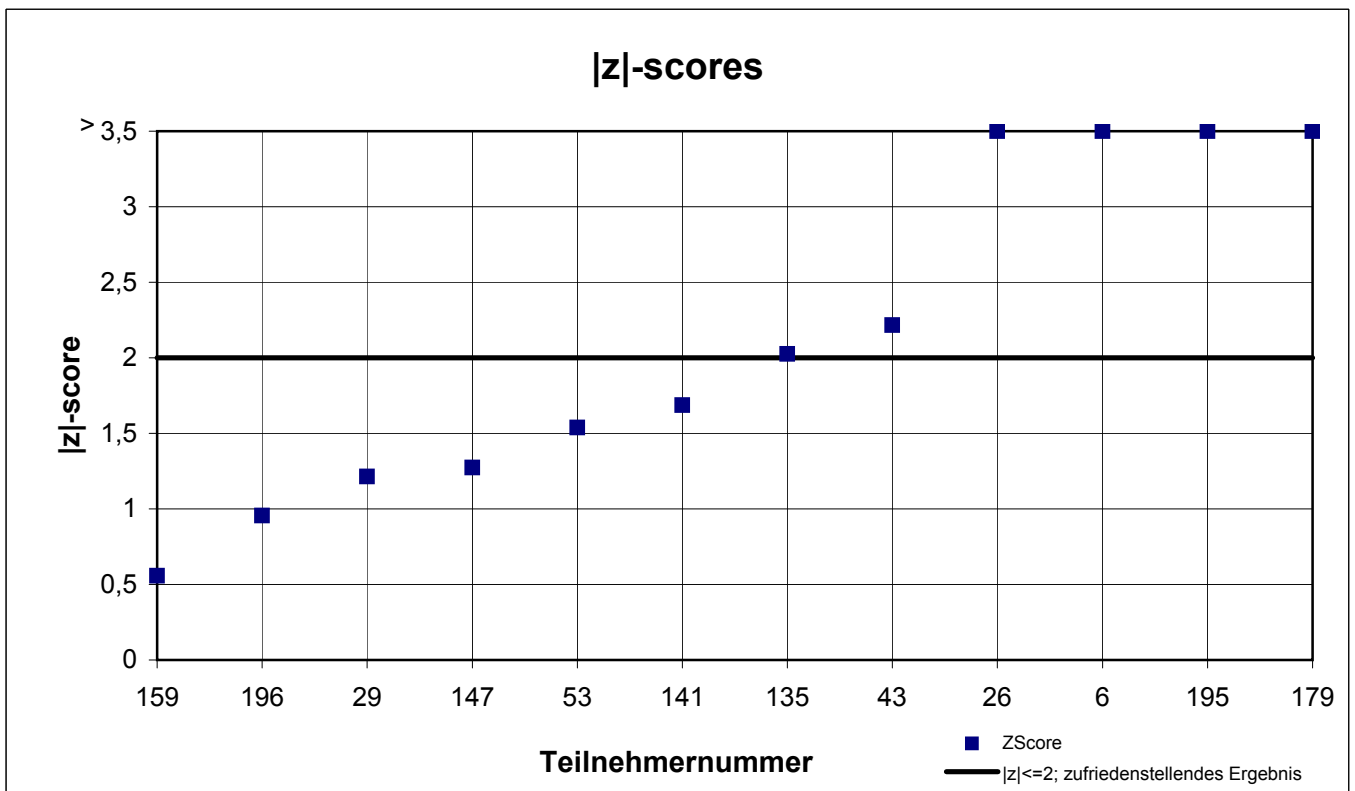
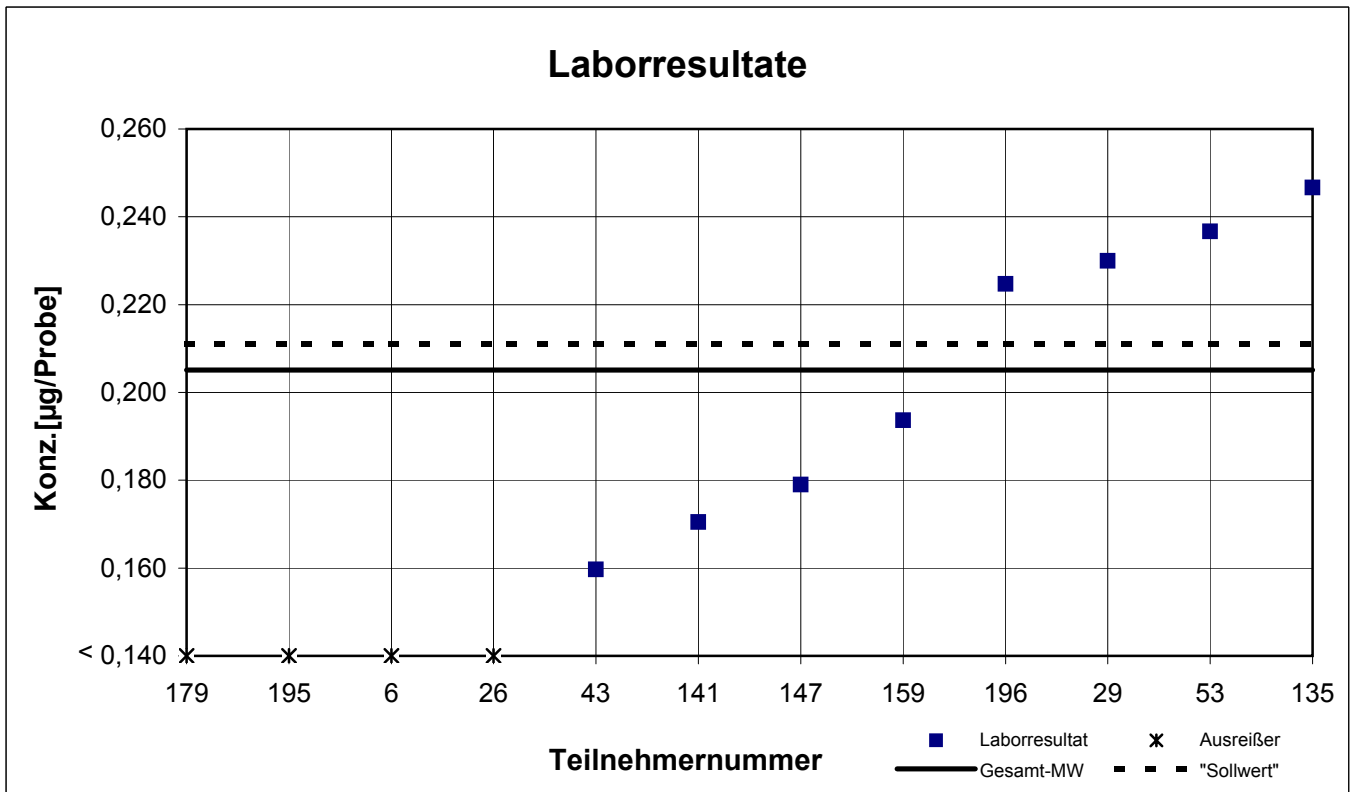
participant number	anthracene		fluoranthene		phenanthrene	
	results [µg/sample]	z -score	results [µg/sample]	z -score	results [µg/sample]	z -score
6	0,104	4,9	2,028	1,3	0,637	0,5
26	0,127	3,8	1,317	2,6	0,533	2,1
29	0,230	1,2	1,900	0,6	0,770	1,4
43	0,160	2,2	1,611	1,0	0,595	1,2
53	0,237	1,5	1,857	0,4	0,743	1,0
135	0,247	2,0	2,100	1,7	0,813	2,1
141	0,171	1,7	1,695	0,5	0,578	1,4
147	0,179	1,3	1,628	0,9	0,661	0,2
159	0,194	0,6	1,823	0,2	0,642	0,5
179	0,030	8,5	0,270	8,5	0,700	0,4
195	0,092	5,5	0,860	5,2	0,327	5,2
196	0,225	1,0	1,941	0,8	0,741	1,0

marked are outliers!

	anthracene	fluoranthene	phenanthrene
mean value c_k [µg / sample]	0,205	1,790	0,674
standard deviation S_k [µg / sample]	0,0333	0,2320	0,0874
relative standard deviation [%]	16,28	12,96	12,97
mean value of control samples ("Sollwert")	0,211	1,868	0,691

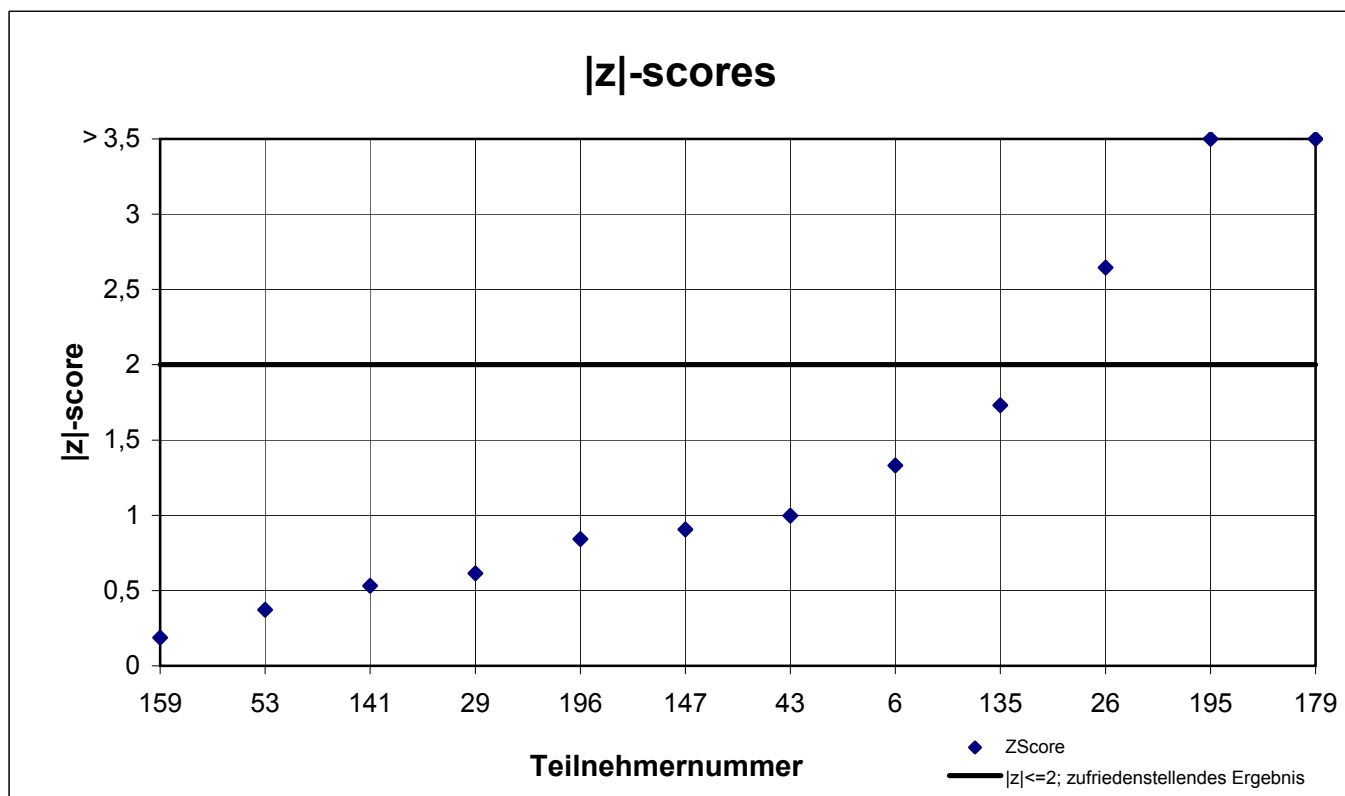
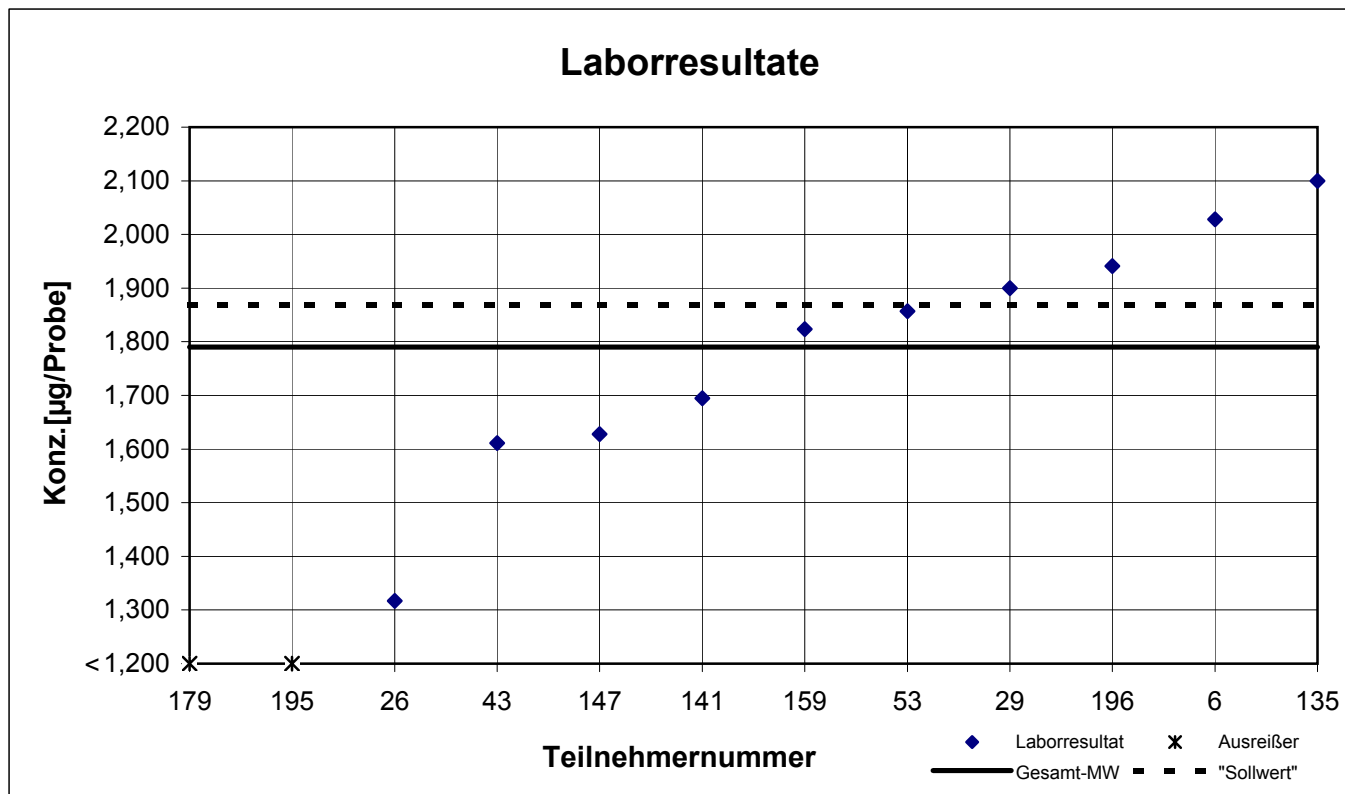
XAD-Röhrchen 1

Anthracen



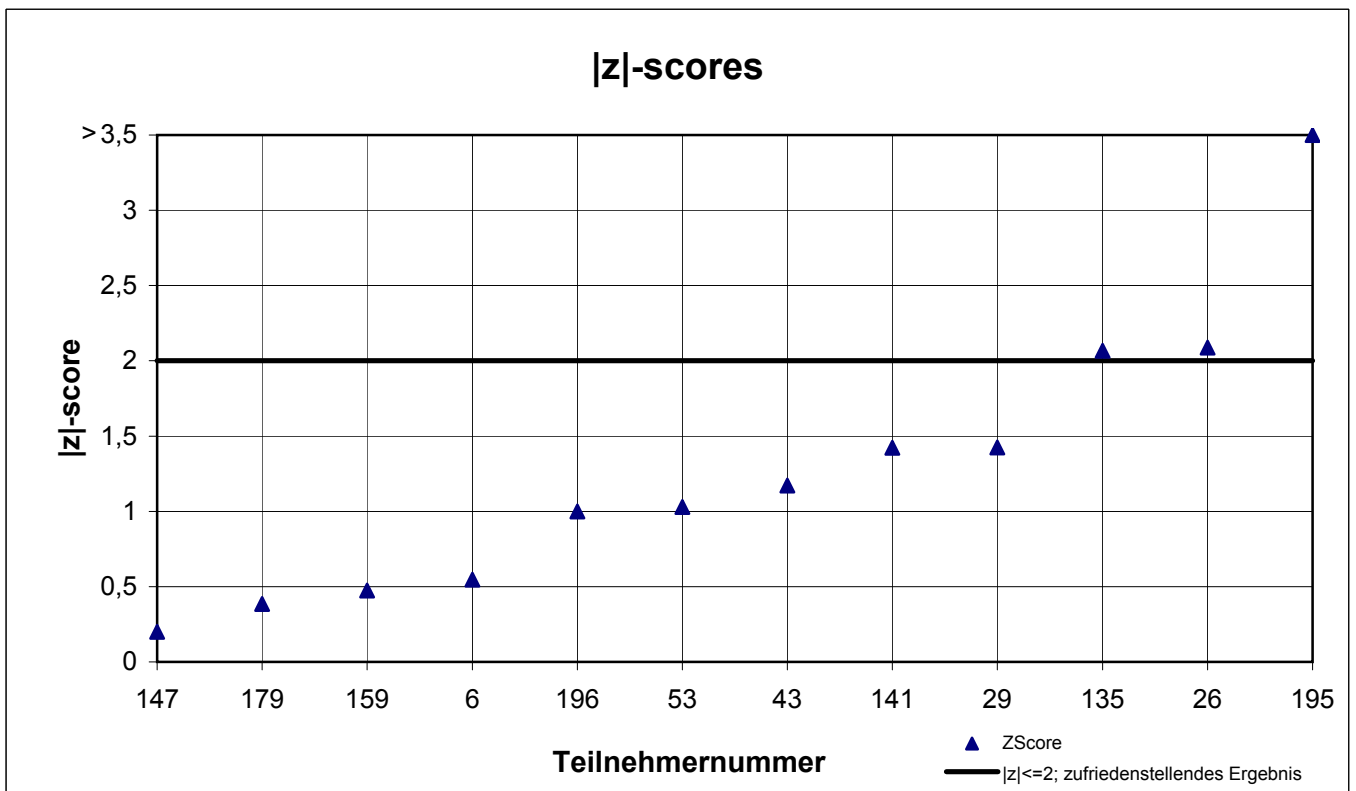
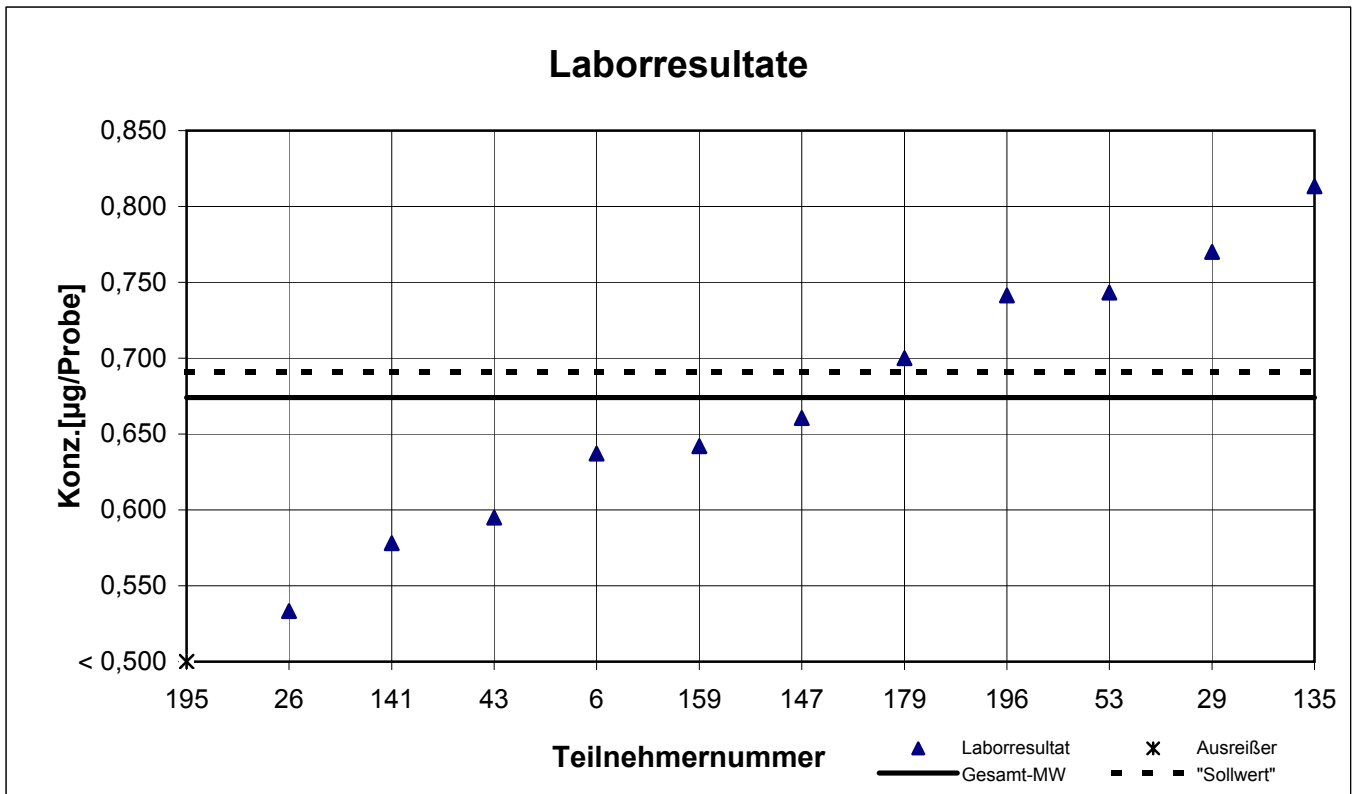
XAD-Röhrchen 1

Fluoranthen



XAD-Röhrchen 1

Phenanthren



results XAD 2

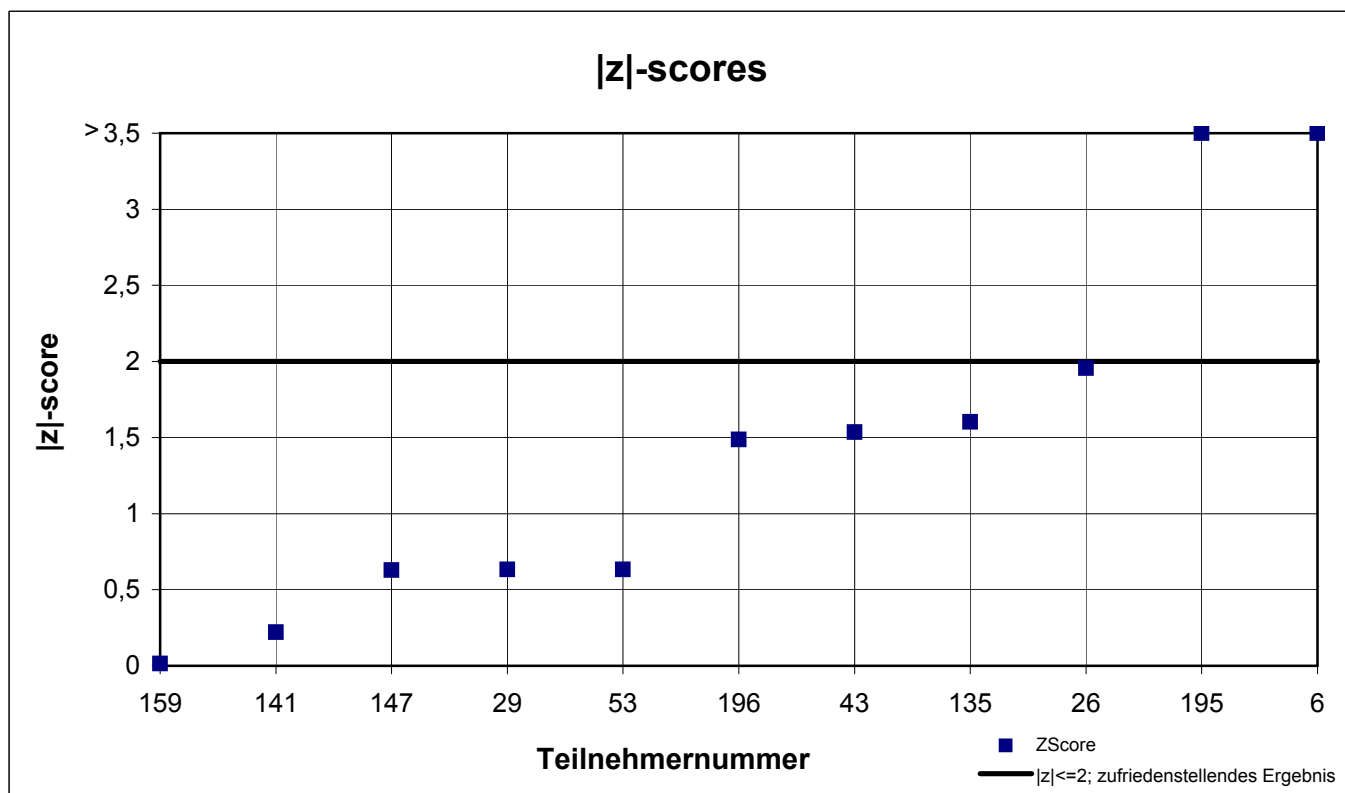
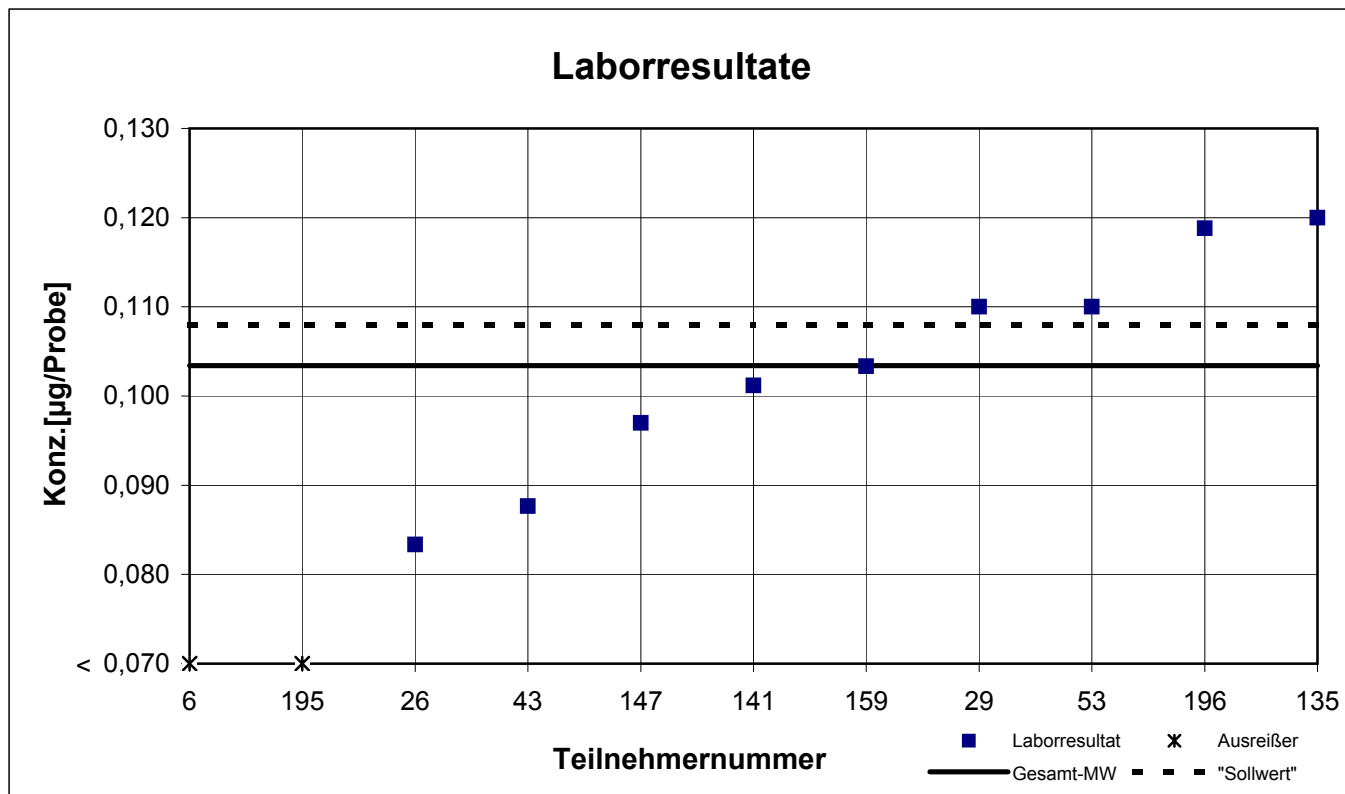
participant number	anthracene		fluoranthene		phenanthrene	
	results [µg/sample]	z -score	results [µg/sample]	z -score	results [µg/sample]	z -score
6	0,052	5,0	0,959	0,1	0,329	0,5
26	0,083	2,0	0,627	3,4	0,290	1,6
29	0,110	0,6	0,940	0,1	0,370	0,7
43	0,088	1,5	0,850	1,0	0,310	1,0
53	0,110	0,6	0,950	0,0	0,330	0,5
135	0,120	1,6	1,100	1,6	0,437	2,6
141	0,101	0,2	1,088	1,5	0,382	1,0
147	0,097	0,6	0,898	0,5	0,354	0,2
159	0,103	0,0	0,946	0,0	0,328	0,5
179	k.A.	k.A.	k.A.	k.A.	0,310	1,0
195	0,055	4,7	0,510	4,6	0,200	4,2
196	0,119	1,5	1,108	1,7	0,363	0,5

marked are outliers!

	anthracene	fluoranthene	phenanthrene
mean value c_k [µg / sample]	0,134	0,947	0,346
standard deviation S_k [µg / sample]	0,0127	0,1429	0,0412
relative standard deviation [%]	12,30	15,10	11,94
mean value of control samples ("Sollwert")	0,108	0,949	0,355

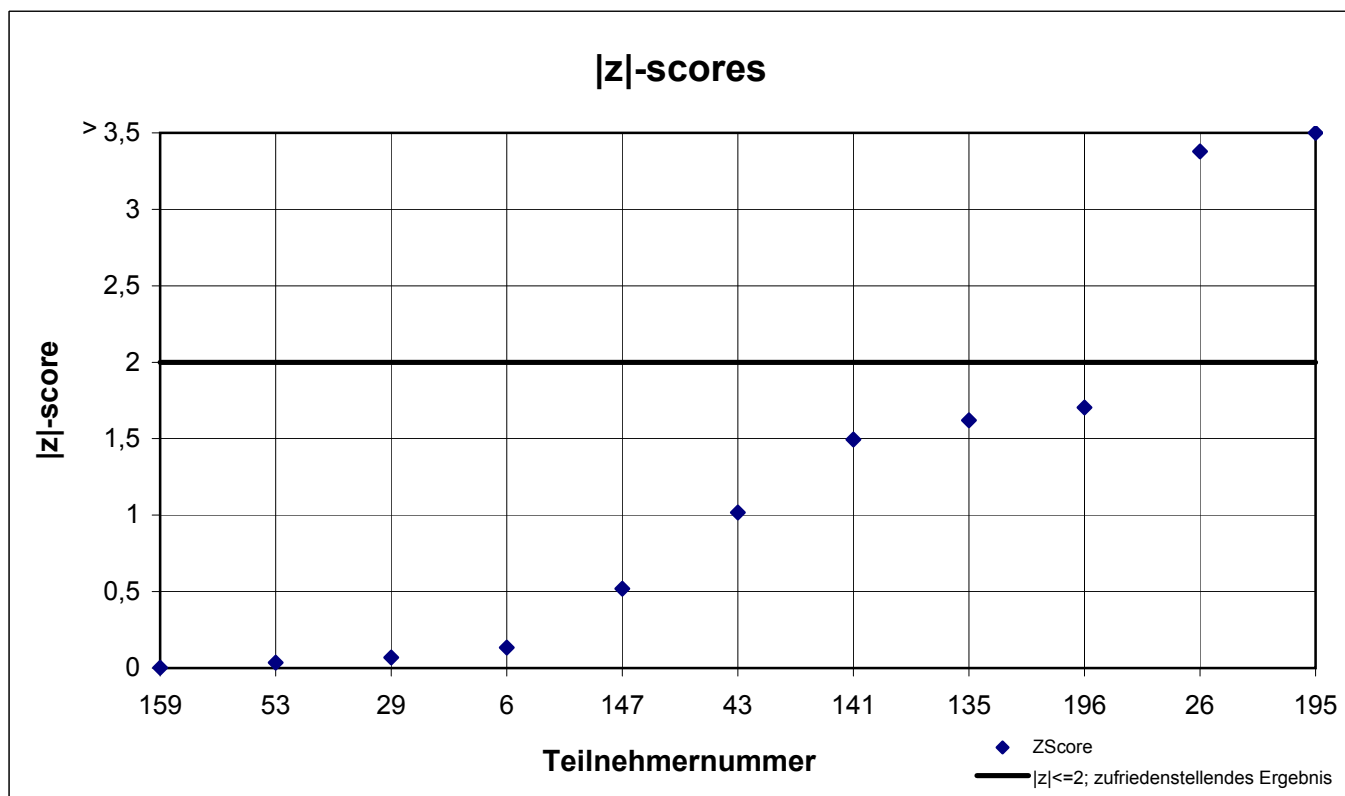
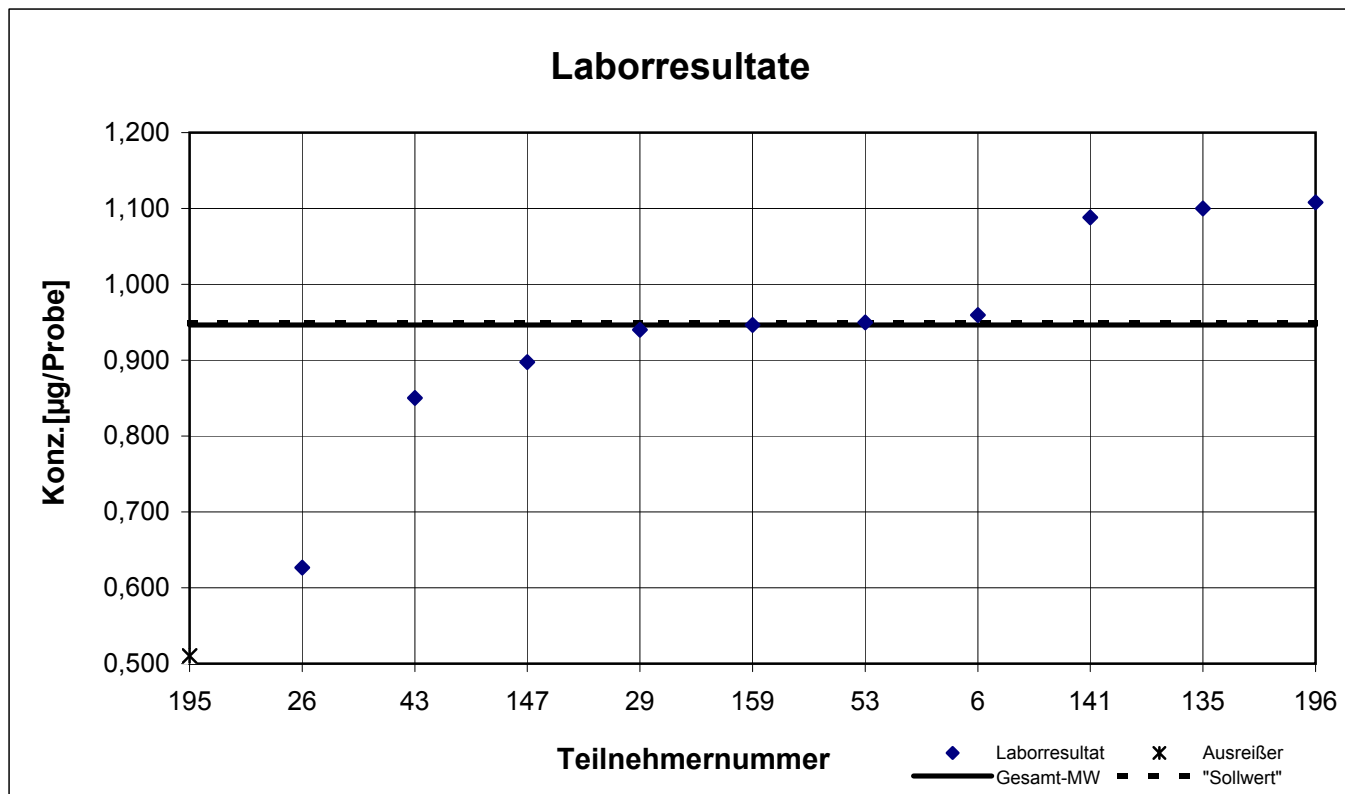
XAD-Röhrchen 2

Anthracen



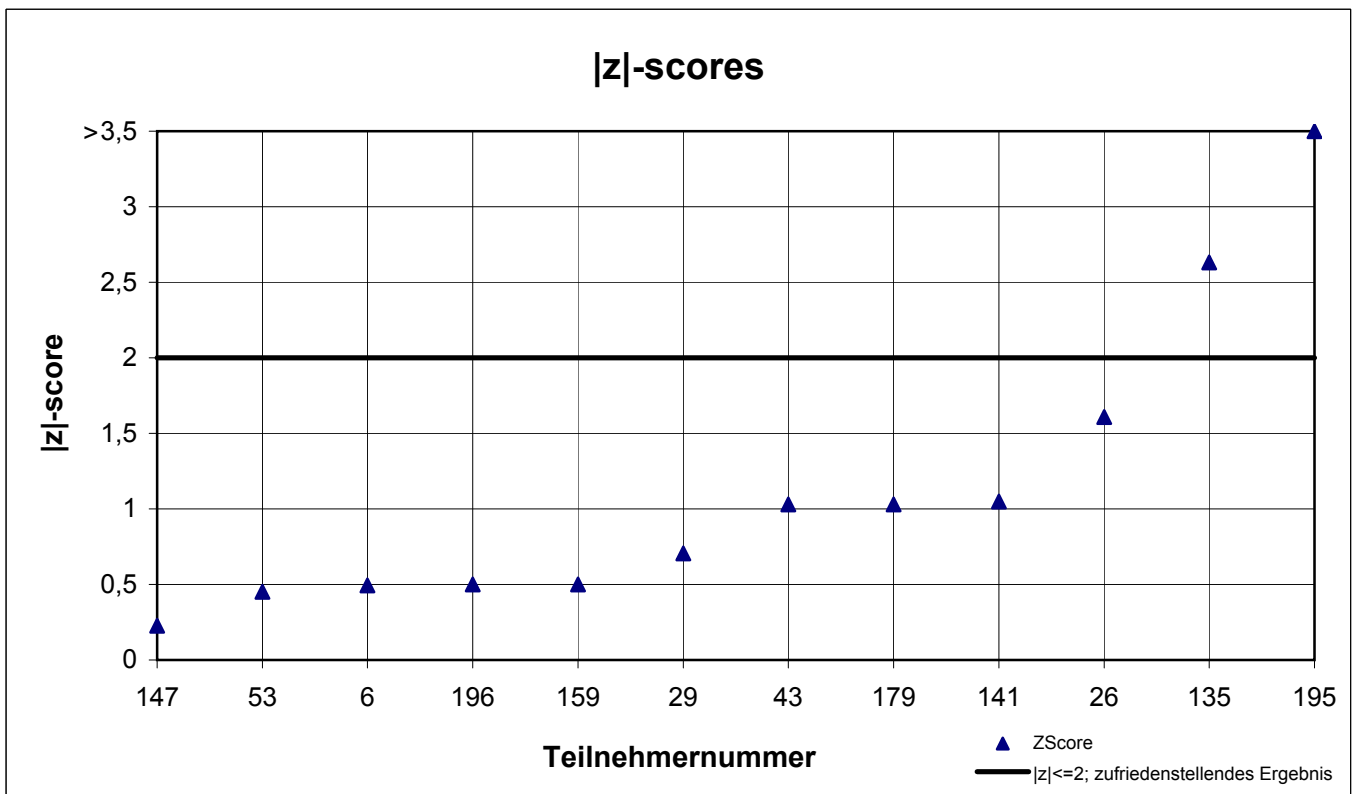
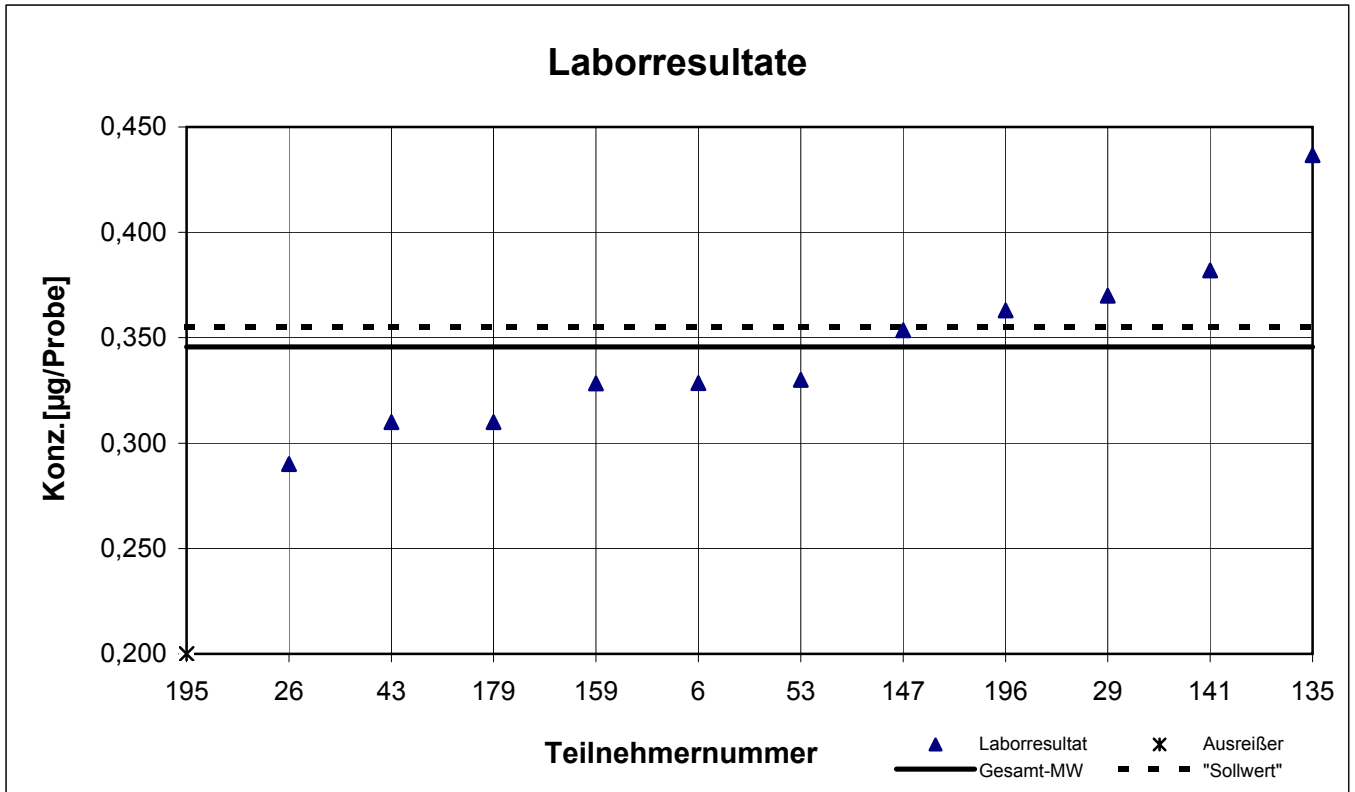
XAD-Röhrchen 2

Fluoranthen



XAD-Röhrchen 2

Phenanthren



results XAD 3

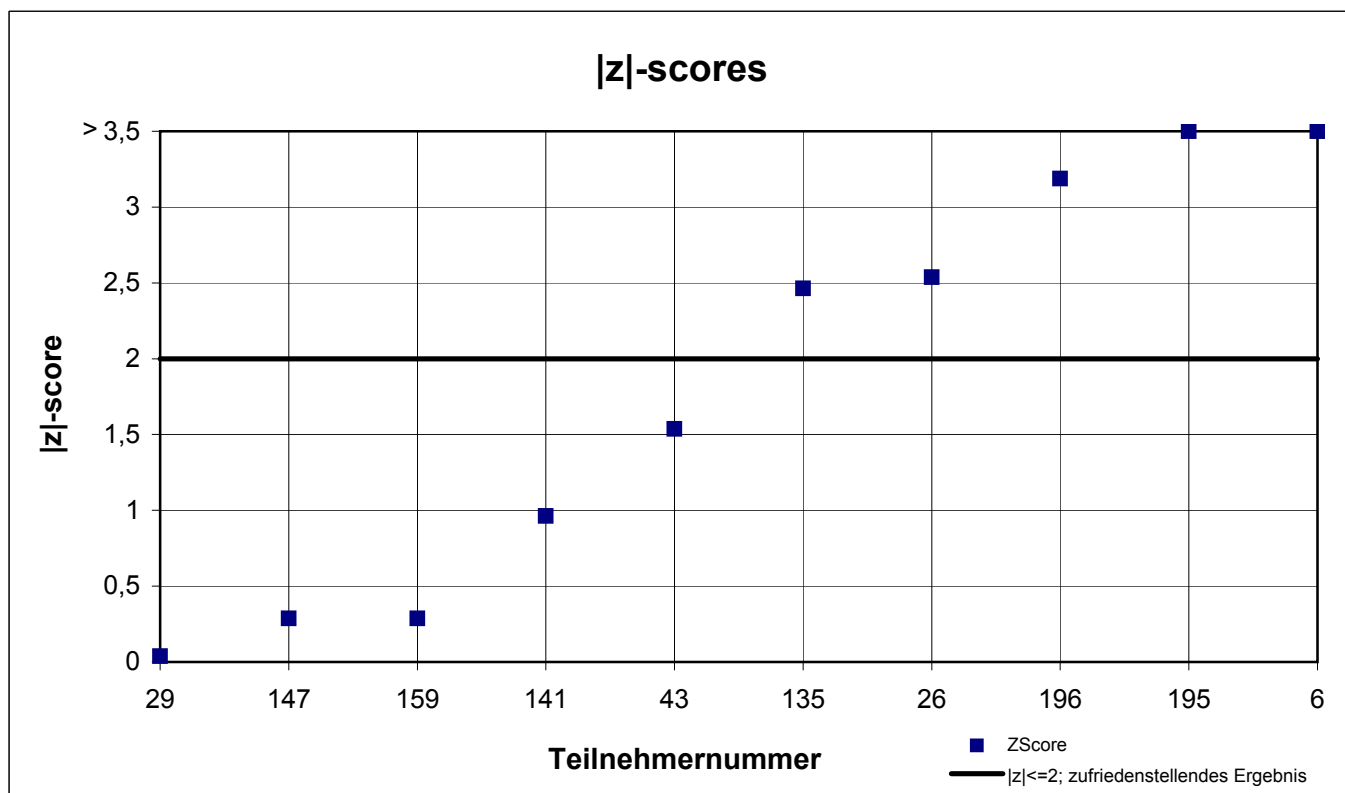
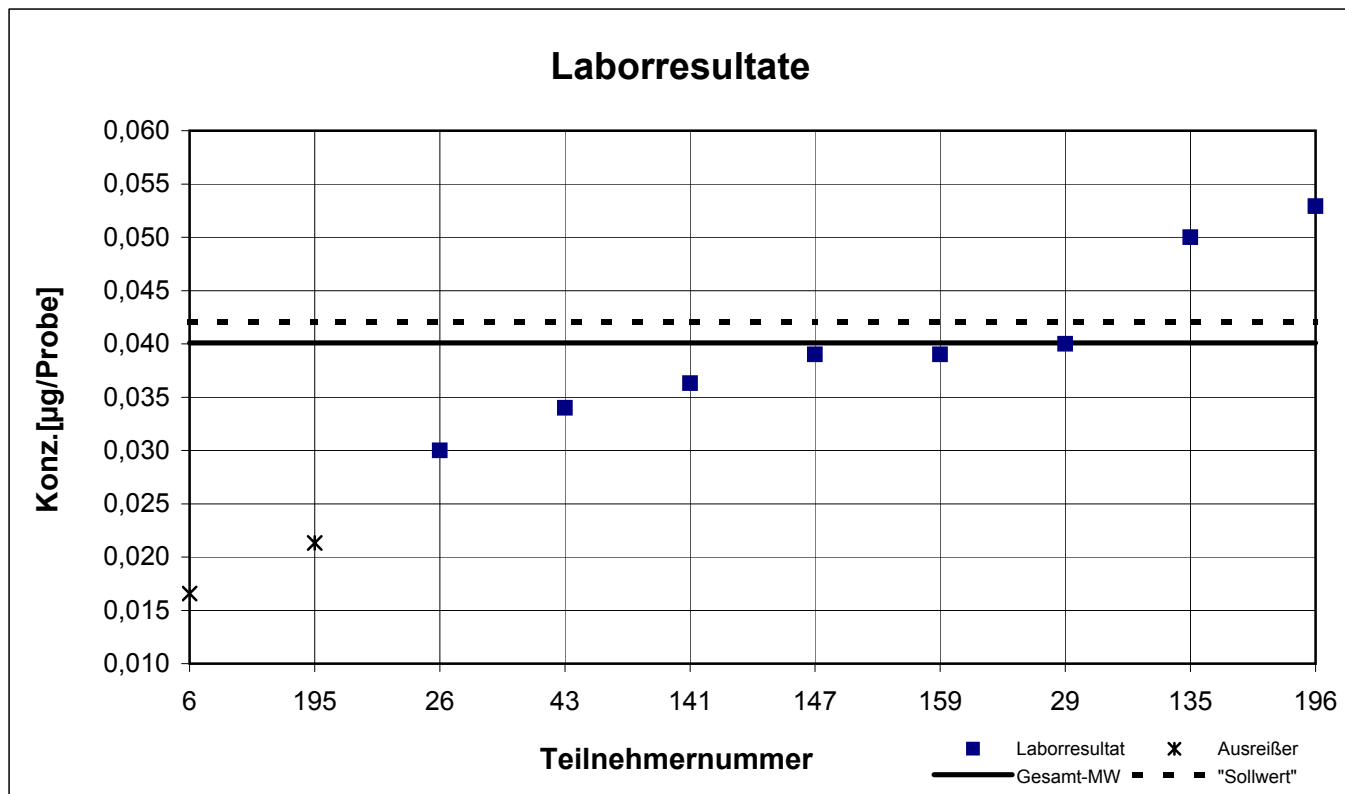
participant number	anthracene		fluoranthene		phenanthrene	
	results [µg/sample]	z -score	results [µg/sample]	z -score	results [µg/sample]	z -score
6	0,017	5,9	0,362	0,1	0,143	0,4
26	0,030	2,5	0,237	3,4	0,110	2,0
29	0,040	0,0	0,400	1,1	0,160	1,6
43	0,034	1,5	0,305	1,5	0,114	1,7
53	0,000		0,360	0,0	0,113	1,8
135	0,050	2,5	0,447	2,4	0,180	3,1
141	0,036	1,0	0,378	0,5	0,134	0,3
147	0,039	0,3	0,364	0,1	0,129	0,6
159	0,039	0,3	0,364	0,1	0,148	0,8
179	k.A.	k.A.	0,050	8,6	0,130	0,6
195	0,021	4,7	0,200	4,5	0,080	4,2
196	0,053	3,2	0,386	0,7	0,154	1,2

marked are outliers!

	anthracene	fluoranthene	phenanthrene
mean value c_k [µg / sample]	0,040	0,360	0,138
standard deviation S_k [µg / sample]	0,0077	0,0562	0,0218
relative standard deviation [%]	19,24	15,60	15,85
mean value of control samples ("Sollwert")	0,042	0,365	0,142

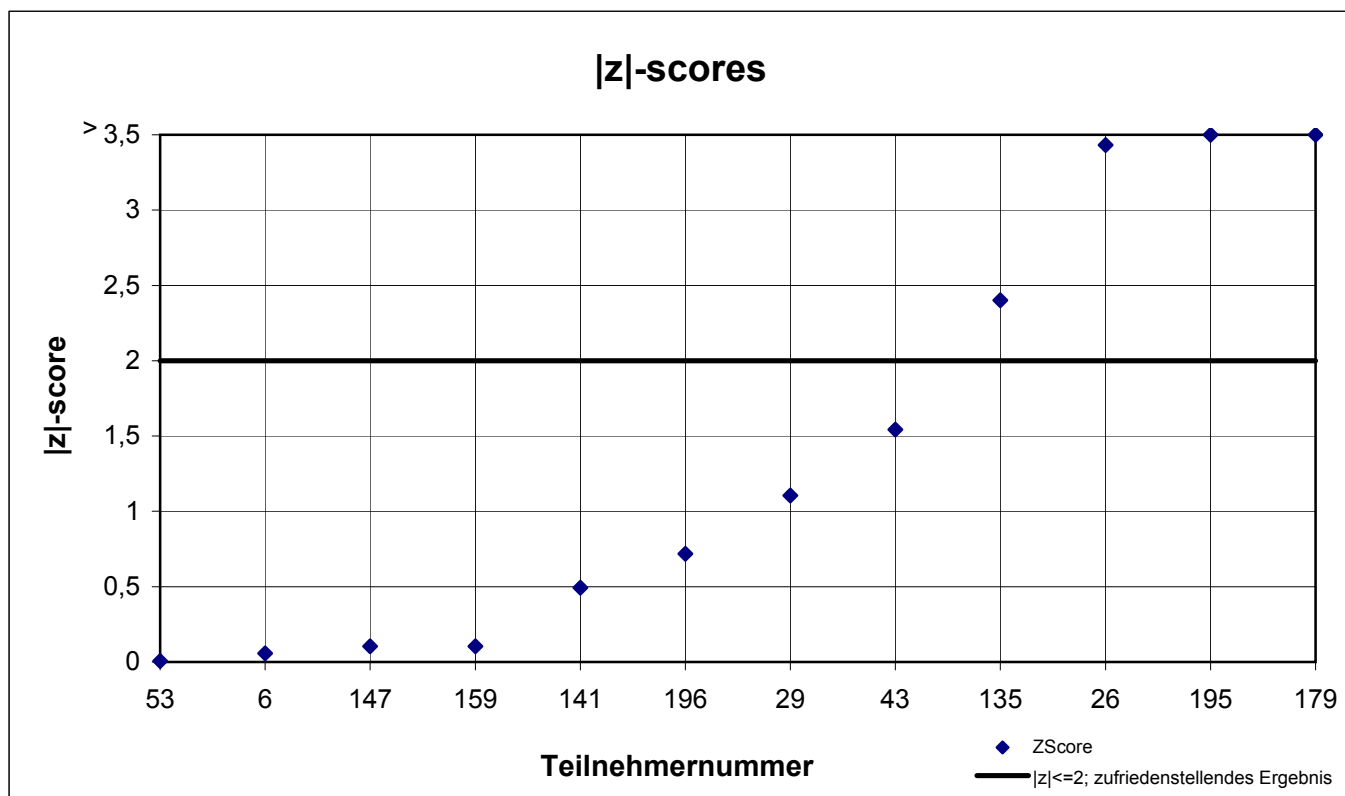
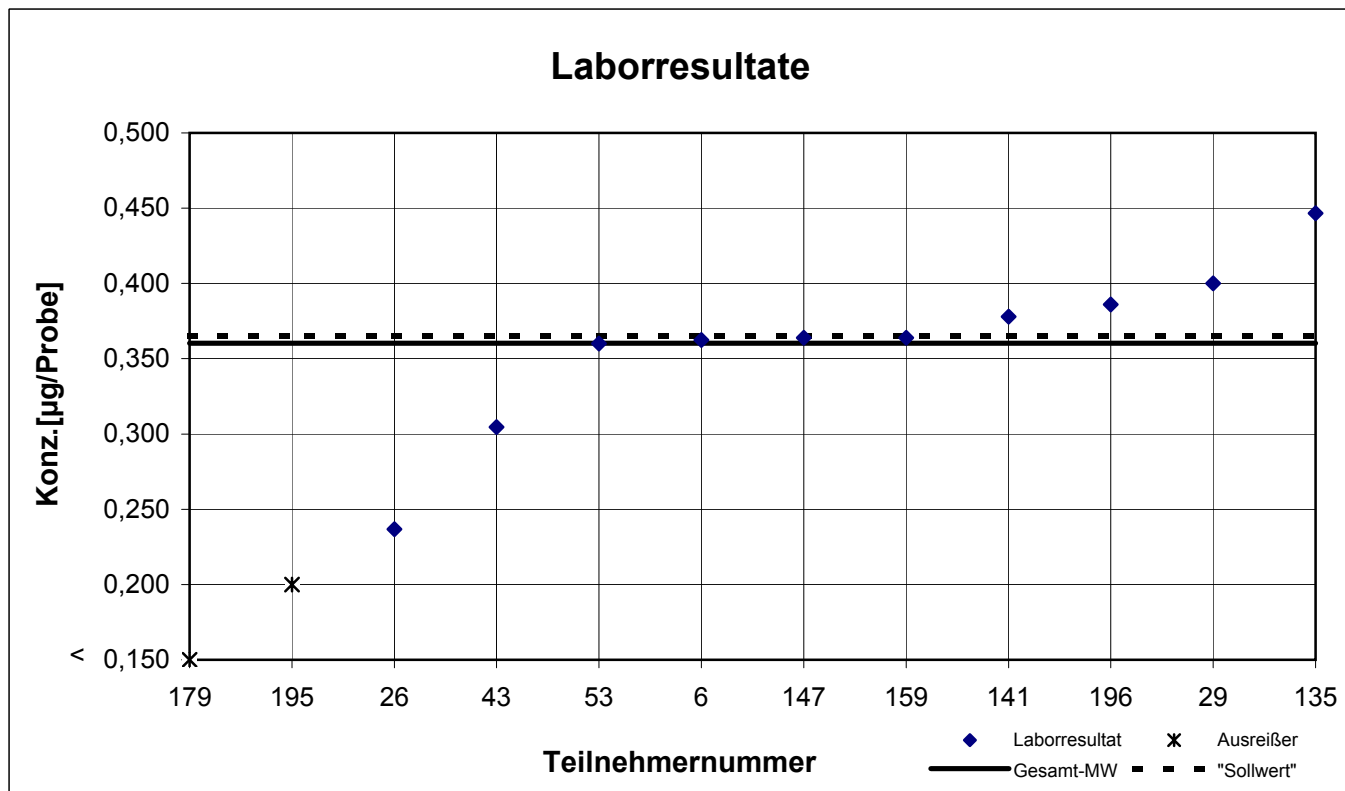
XAD-Röhrchen 3

Anthracen



XAD-Röhrchen 3

Fluoranthen



XAD-Röhrchen 3

Phenanthren

