

### sample 1 - results (part 1)

participant number	2-Butoxyethanol		2-Ethylhexanol		2-Phenoxyethanol		Dodecane		Hexanal	
	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score
5*	13,47		36,40	0,1	227,4	0,0	16,11	0,3	11,28	
27	k.A.		k.A.	k.A.	54,45	7,6	11,10	2,9	6,15	
30	6,00		k.A.	k.A.	k.A.	k.A.	14,85	0,5	13,90	
32	k.A.		k.A.	k.A.	74,00	6,7	8,45	4,6	4,60	
34*	k.A.		71,09	9,6	8,64	9,6	31,57	10,1	54,75	
35*	13,00		51,00	4,1	290,0	2,8	19,00	2,1	12,00	
46	5,55		33,95	0,6	157,5	3,1	14,40	0,8	12,85	
50	5,95		38,00	0,5	366,0	6,1	14,25	0,9	16,55	
55	k.A.		k.A.	k.A.	k.A.	k.A.	19,60	2,5	4,50	
65	19,87		41,88	1,6	214,7	0,5	16,01	0,2	11,77	
68	17,77		33,10	0,9	219,7	0,3	14,60	0,7	12,95	
86*	17,30		41,90	1,6	279,0	2,3	17,30	1,0	10,60	
117*	23,37		40,52	1,2	237,2	0,5	19,19	2,2	16,84	
179*	2,80		25,35	3,0	321,8	4,2	14,50	0,8	5,00	
186	15,30		35,20	0,3	214,9	0,5	12,75	1,9	18,95	
213*	11,30		33,95	0,6	203,8	1,0	14,44	0,8	8,93	
269*	23,83		37,78	0,4	225,6	0,1	17,08	0,9	17,16	

marked

fields are outliers

\* eigene Probenahme vor Ort

	2-Butoxyethanol	2-Ethylhexanol	2-Phenoxyethanol	Dodecane	Hexanal
mean $c_k$ [ $\mu\text{g} / \text{m}^3$ ]		36,18	227,0	15,68	
standard deviation $S_k$ [ $\mu\text{g} / \text{m}^3$ ]		4,771	37,276	2,415	
rel. standard deviation [%]		13,19	16,42	15,40	
"true result" [ $\mu\text{g} / \text{m}^3$ ]	13,20	38,40	231,5	15,30	18,00

## sample 1 - results (part 2)

participant number	n-Butyl acetate		Octamethylcyclo-tetrasiloxane		p-Xylene		R(+)-Limonene		Toluene	
	result (µg / m³)	z  - score	result (µg / m³)	z  - score	result (µg / m³)	z  - score	result (µg / m³)	z  - score	result (µg / m³)	z  - score
5*	16,63	0,2	47,37	5,6	13,88	0,3	22,47	2,4	19,93	0,0
27	8,65	4,9	35,25	1,6	17,95	2,6	43,40	4,8	21,30	0,7
30	15,10	1,1	32,75	0,8	14,15	0,1	28,15	0,4	20,50	0,3
32	21,35	2,6	18,00	4,1	4,35	7,0	22,35	2,4	4,85	7,6
34*	39,00	13,0	73,73	14,3	32,07	12,5	99,84	23,9	52,09	16,2
35*	20,00	1,8	36,00	1,8	14,00	0,2	37,00	2,6	23,00	1,6
46	14,00	1,7	25,75	1,5	12,15	1,5	26,50	1,0	19,00	0,4
50	12,55	2,6	31,60	0,4	14,05	0,1	29,40	0,0	18,05	0,9
55	k.A.	k.A.	k.A.	k.A.	12,70	1,1	32,60	1,1	18,50	0,7
65	19,39	1,4	29,91	0,2	17,56	2,3	42,40	4,4	15,92	2,0
68	19,29	1,4	25,38	1,7	14,97	0,5	31,45	0,7	22,21	1,2
86*	15,80	0,7	27,60	0,9	12,40	1,3	34,40	1,7	18,10	0,9
117*	16,44	0,3	23,65	2,2	19,95	4,0	31,23	0,6	31,33	5,7
179*	7,55	5,6	55,45	8,2	6,10	5,7	27,00	0,8	11,85	4,0
186	15,20	1,0	33,75	1,1	12,30	1,4	27,95	0,5	19,90	0,0
213*	15,18	1,1	28,97	0,5	13,11	0,8	26,77	0,9	20,11	0,1
269*	19,69	1,6	34,25	1,3	16,19	1,4	34,57	1,8	22,12	1,1

marked

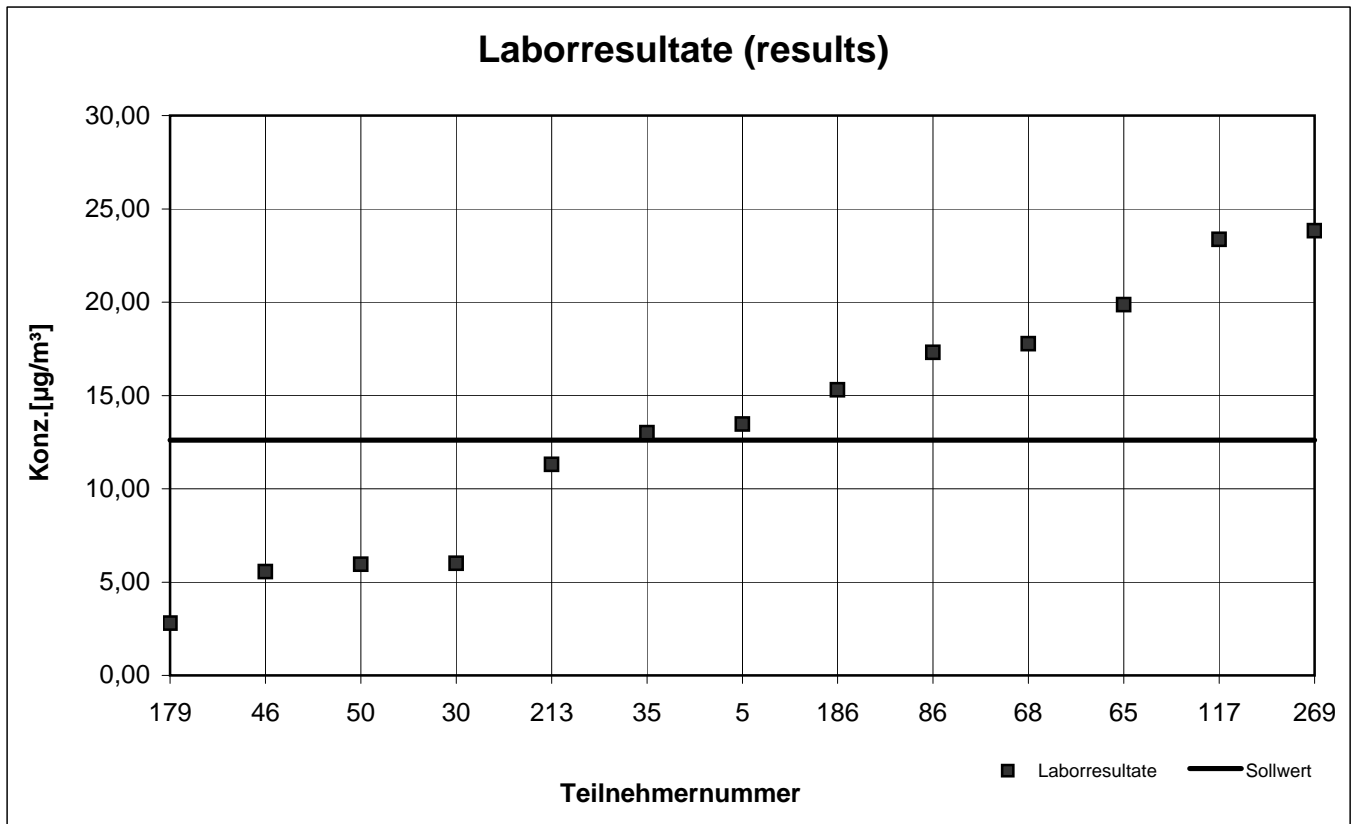
fields are outliers

\* eigene Probenahme vor Ort

	n-Butyl acetate	OMCTS	p-Xylene	R(+)-Limonene	Toluene
mean $c_k$ [µg / m³]	16,97	30,40	14,26	29,42	19,89
standard deviation $S_k$ [µg / m³]	2,691	4,161	1,925	4,383	1,988
rel. standard deviation [%]	15,86	13,69	13,50	14,90	9,99
"true result" [µg / m³]	15,90	29,70	13,20	32,20	17,50

# Probe 1 (sample 1)

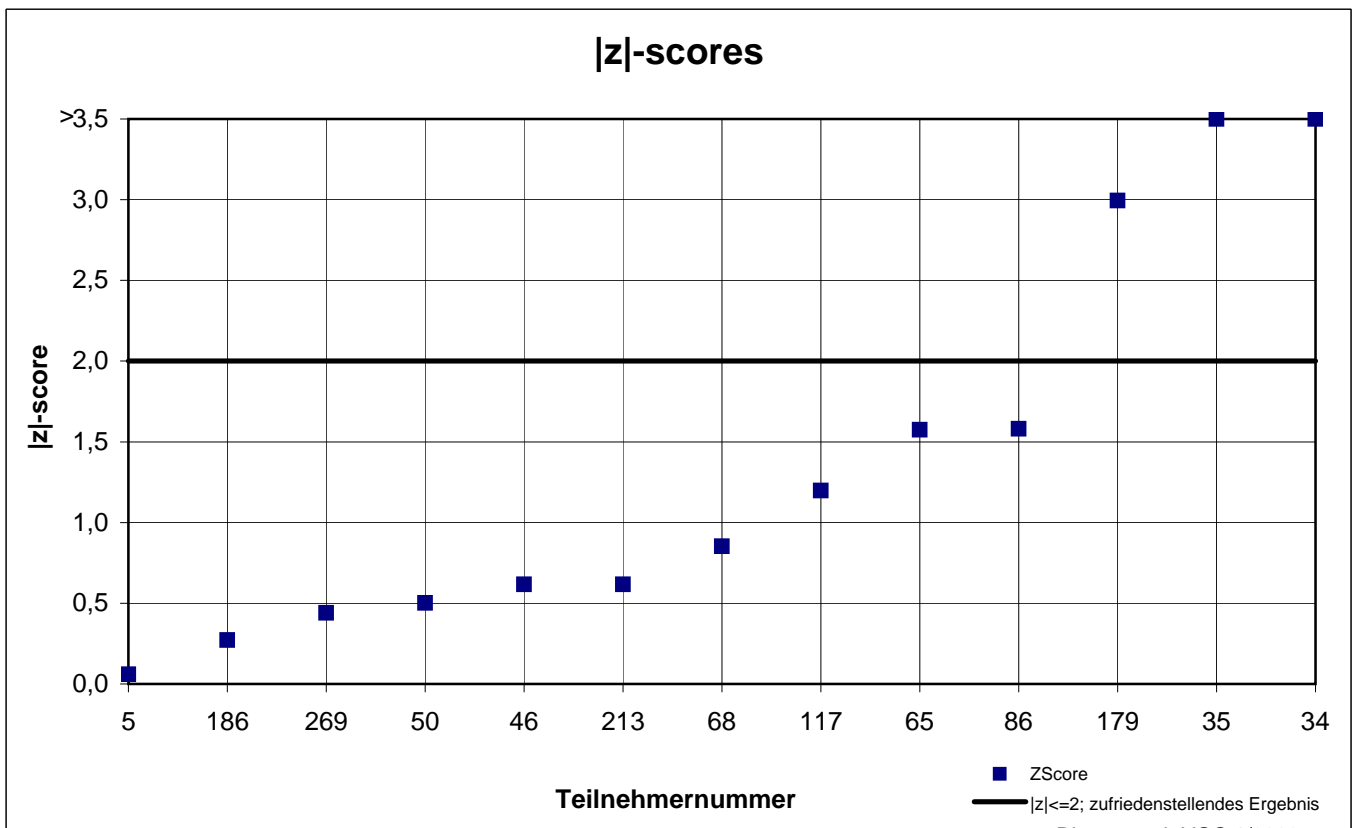
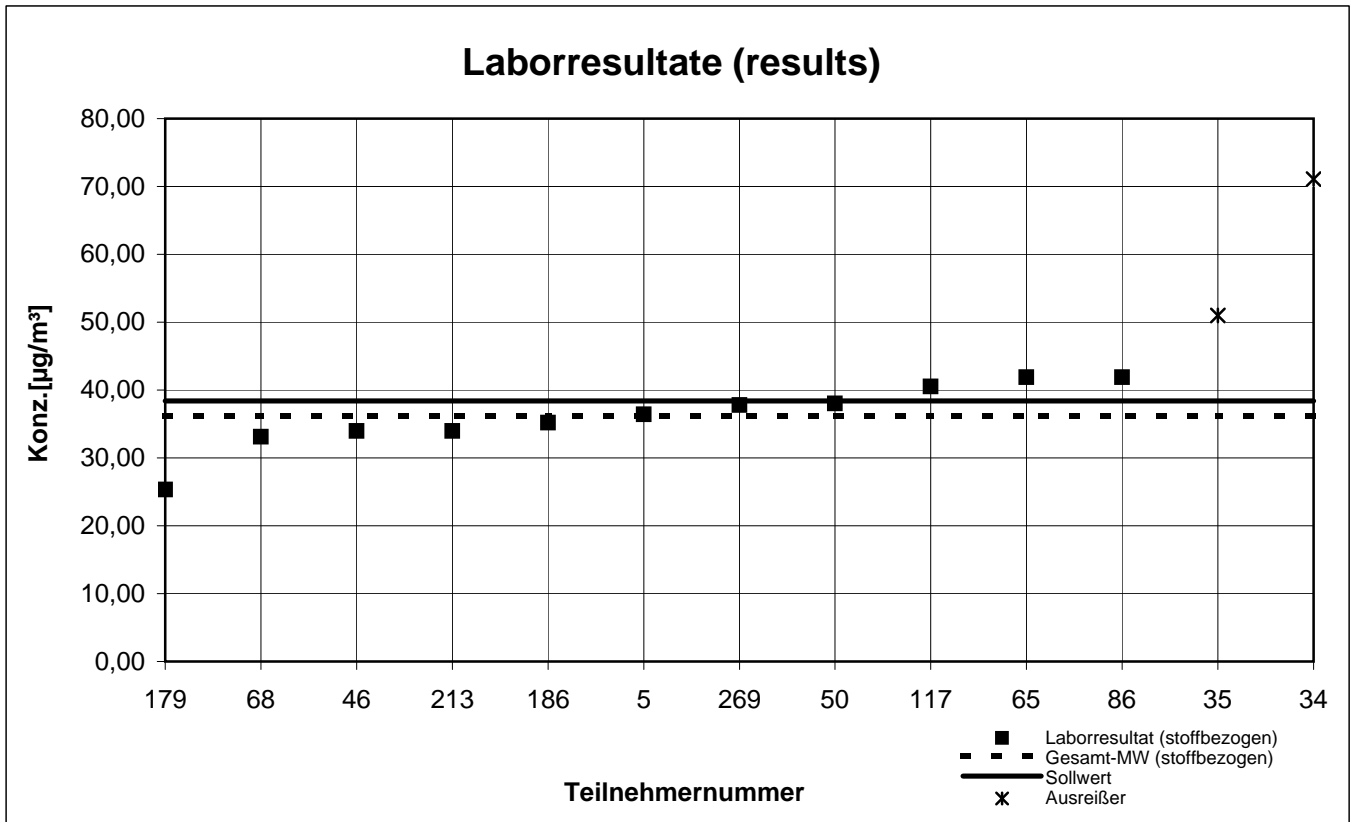
## 2-Butoxyethanol



keine z-score-Auswertung  
no z-score evaluation

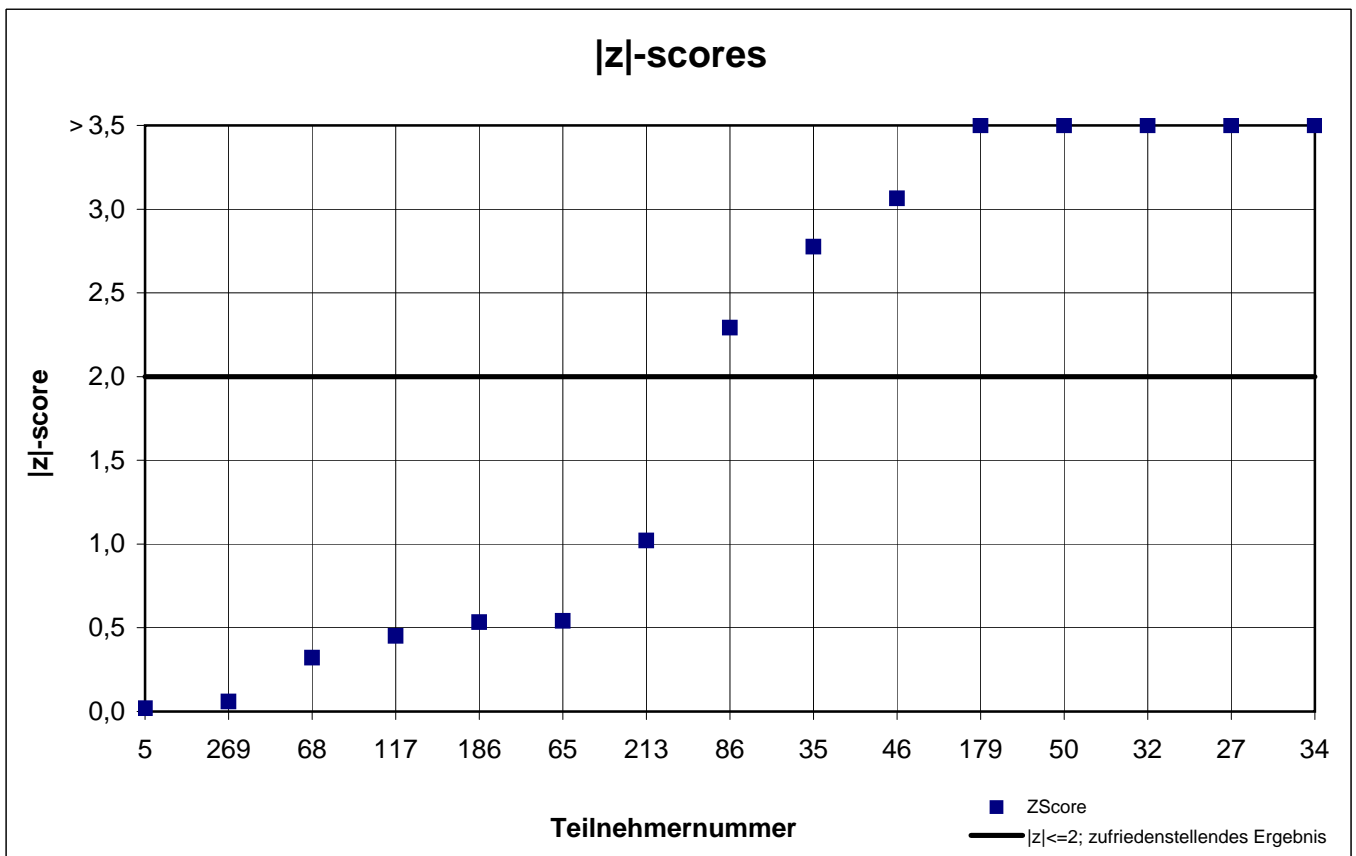
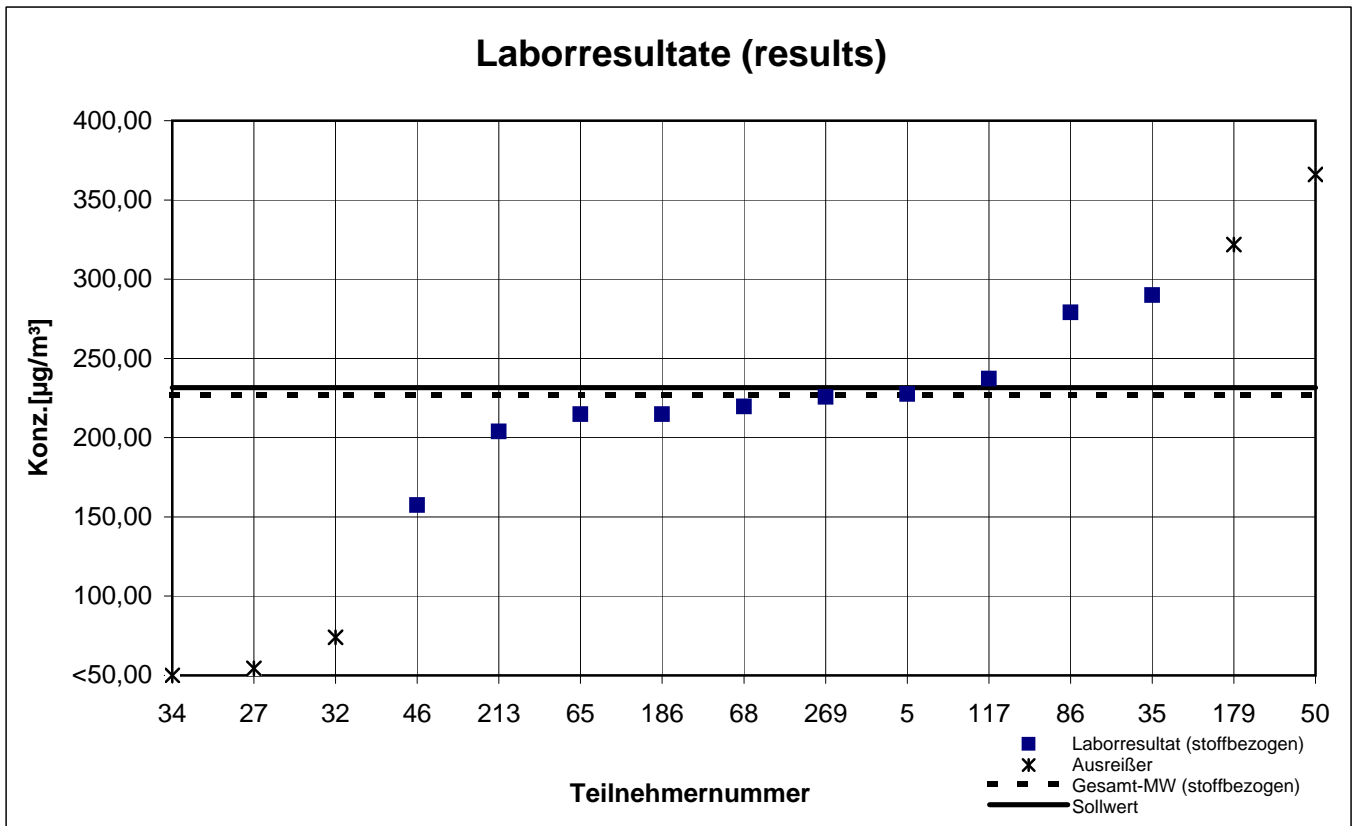
# Probe 1 (sample 1)

## Ethylhexanol



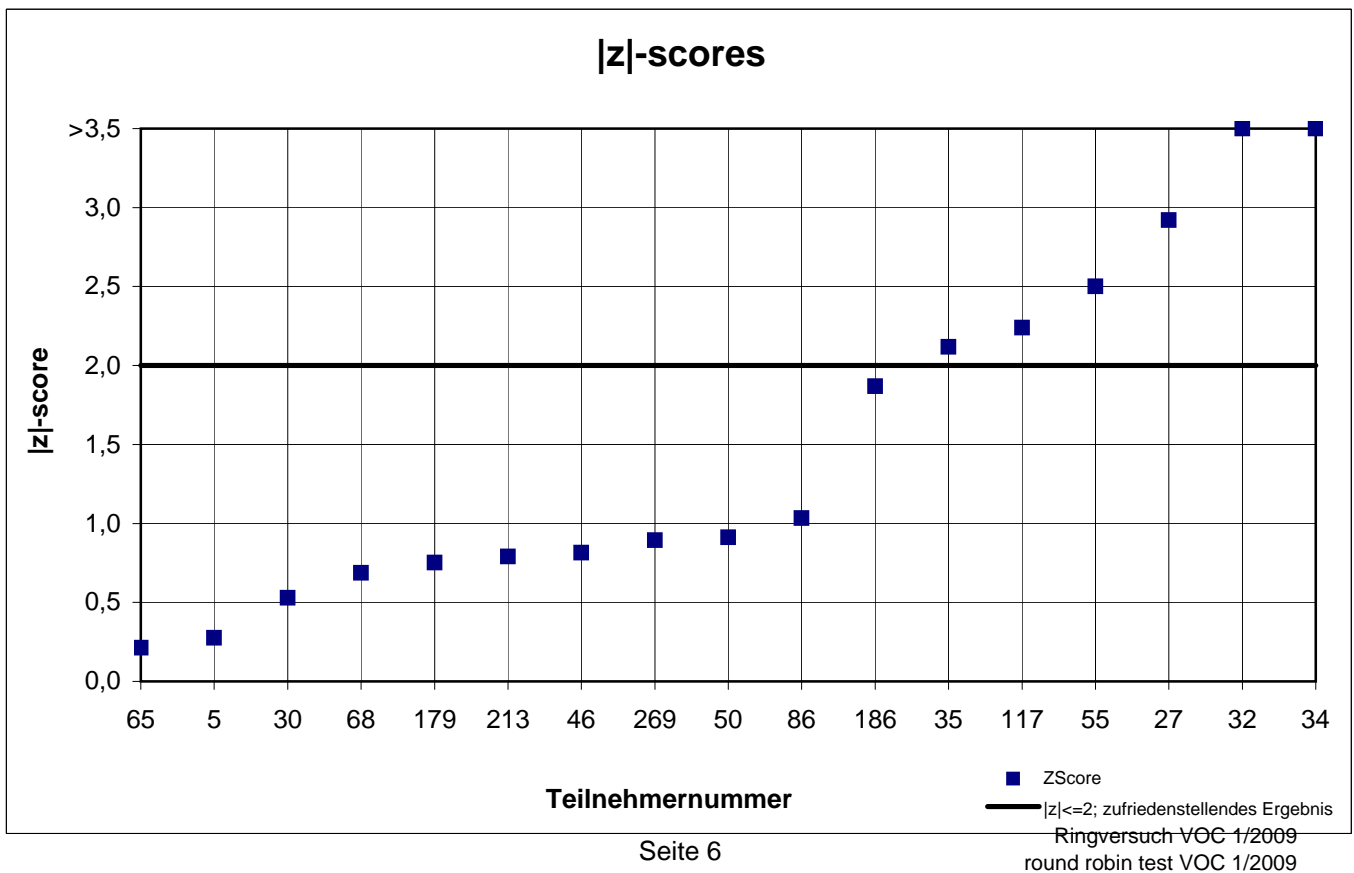
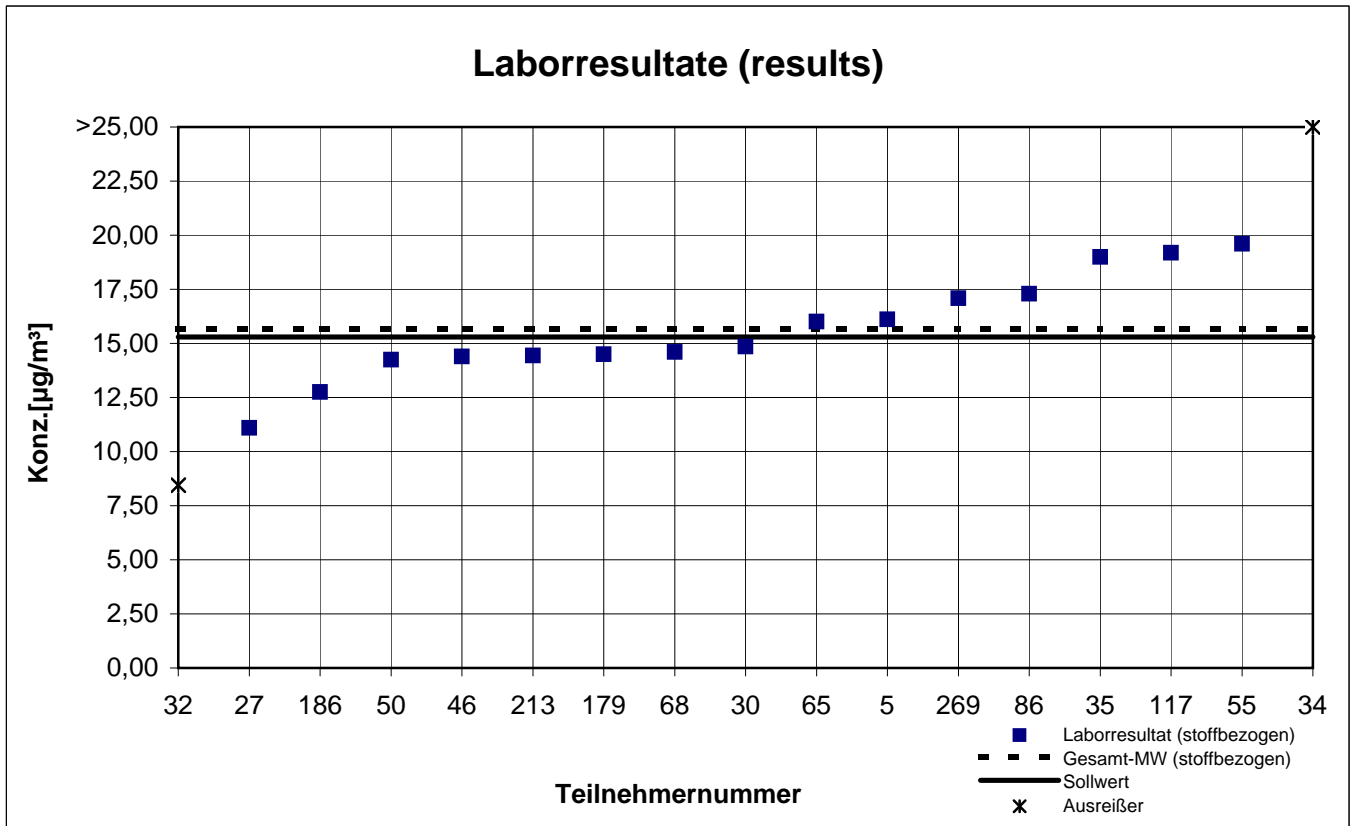
# Probe 1 (sample 1)

## 2-Phenoxyethanol



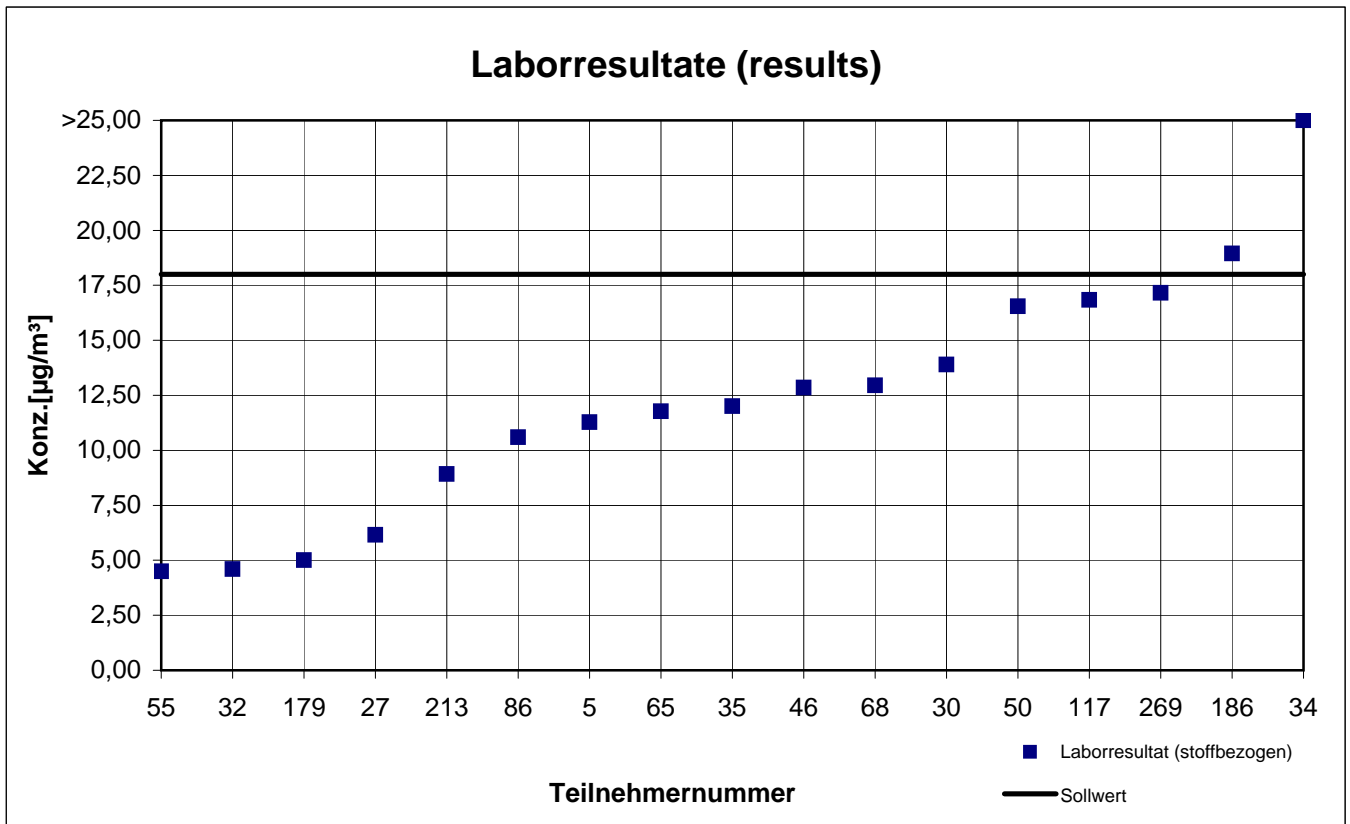
# Probe 1 (sample 1)

## Dodecan



# Probe 1 (sample 1)

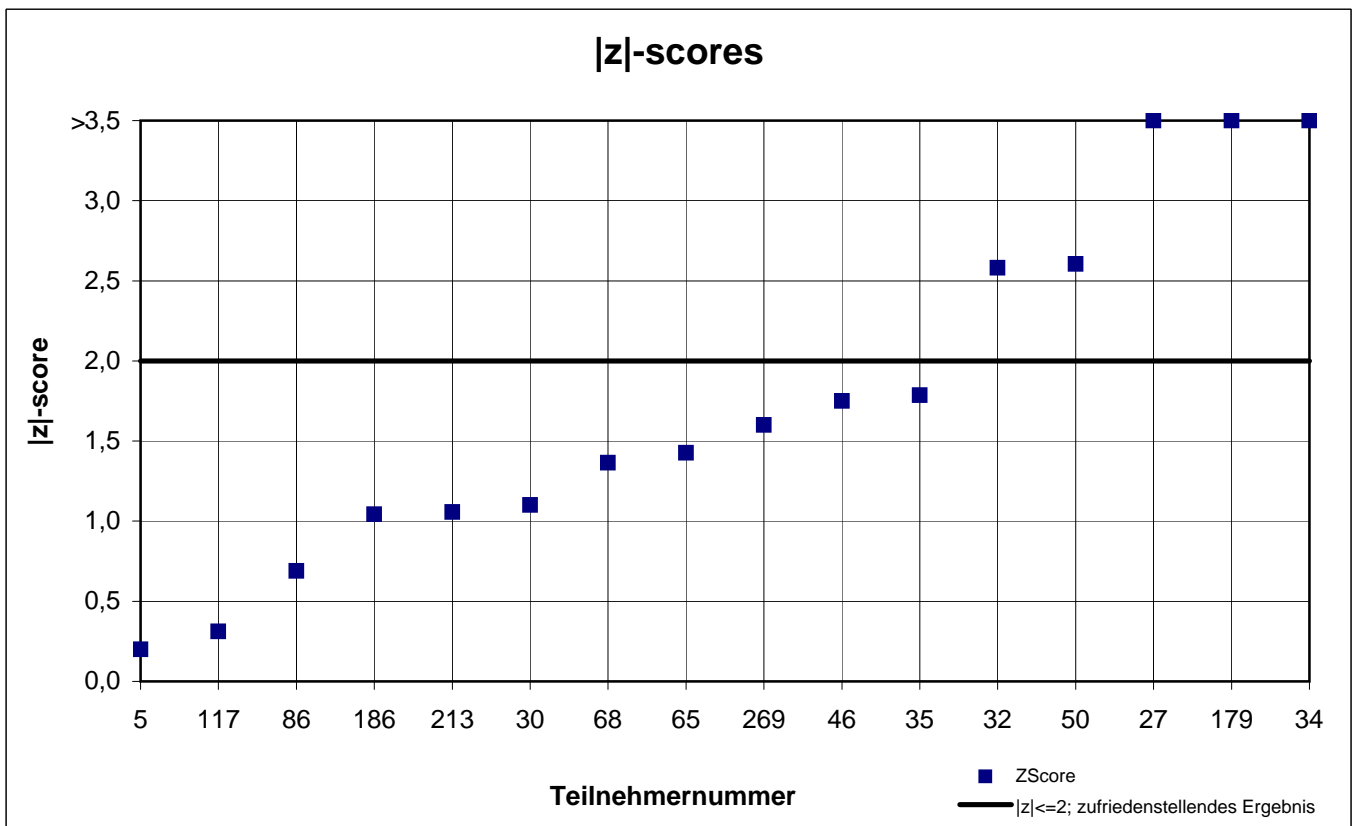
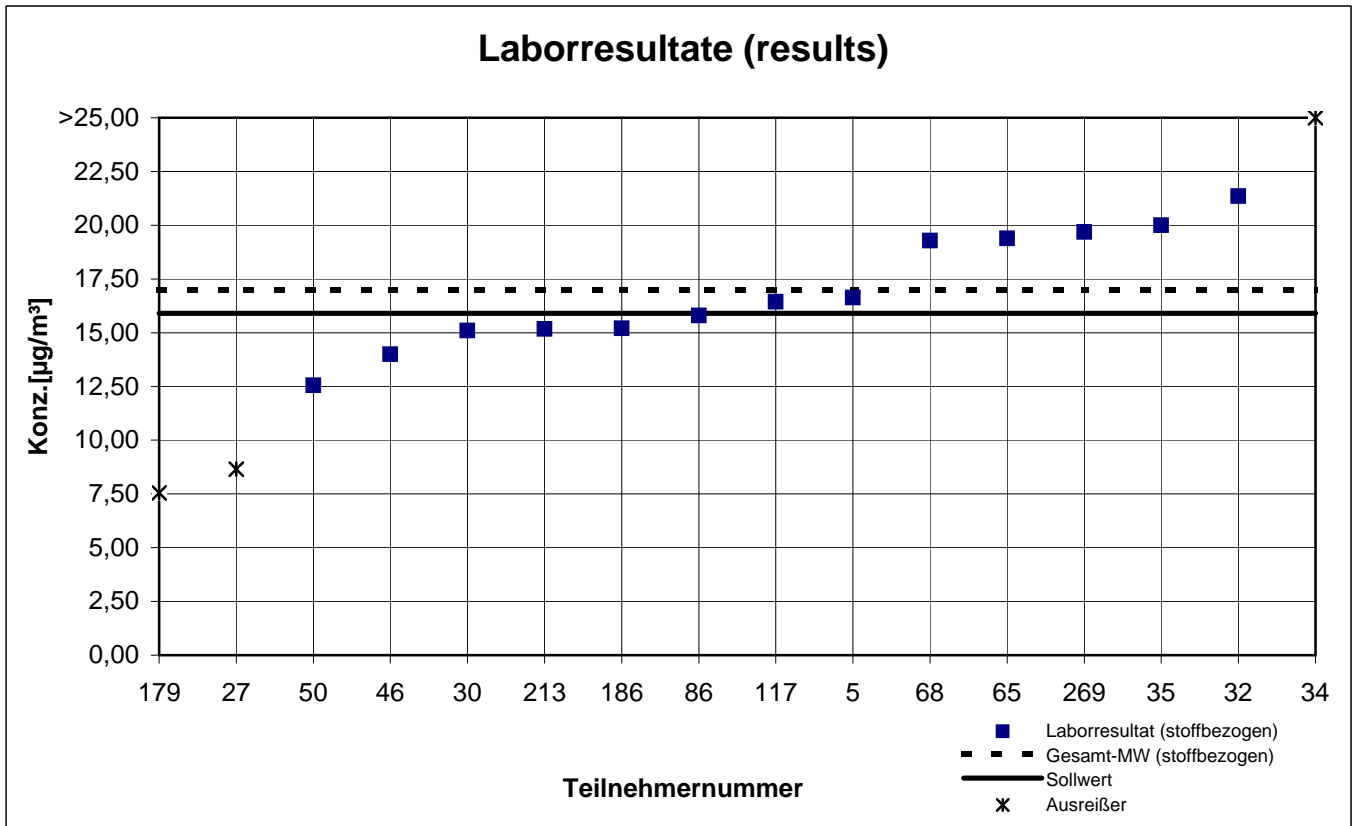
## Hexanal



keine z-score-Auswertung  
no z-score evaluation

# Probe 1 (sample 1)

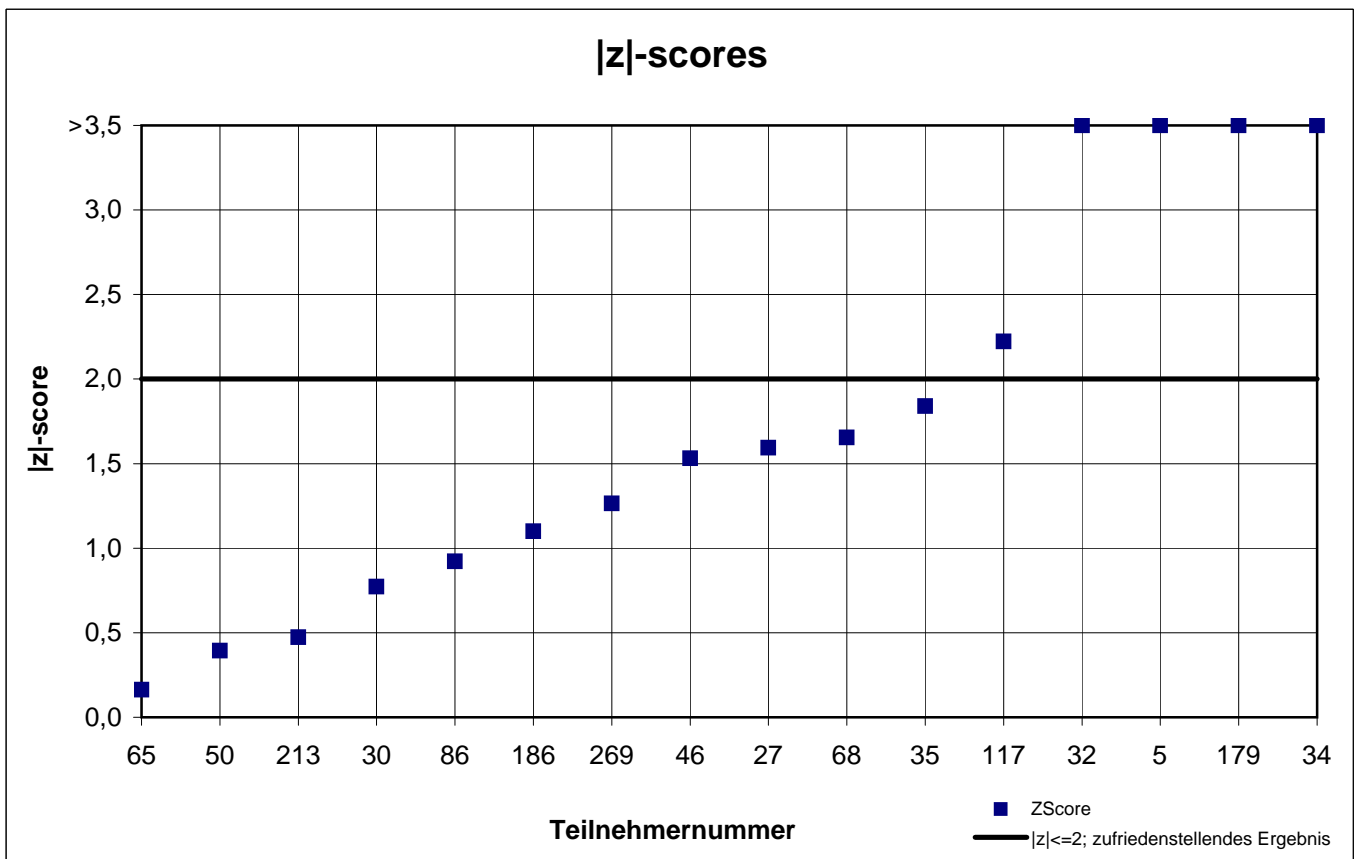
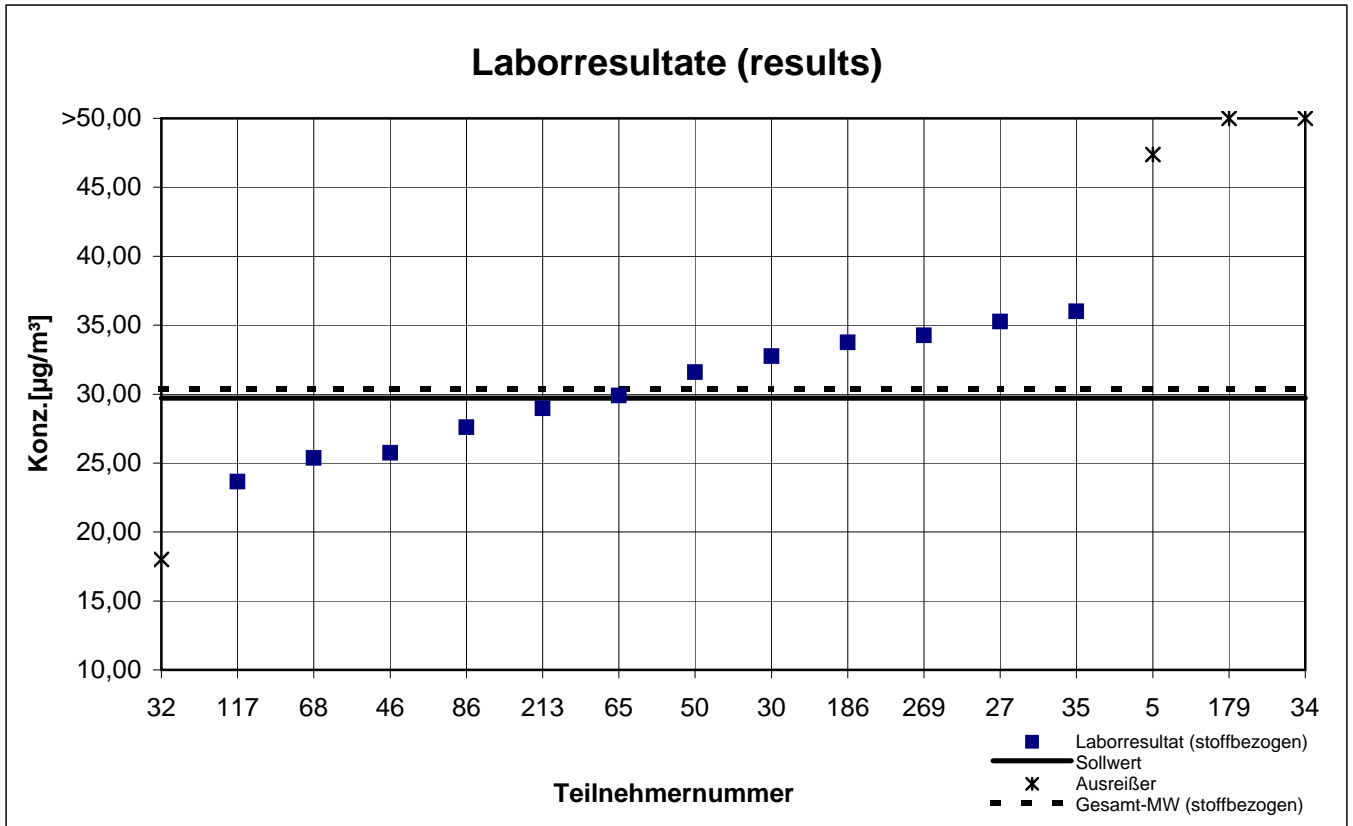
## n-Butylacetat





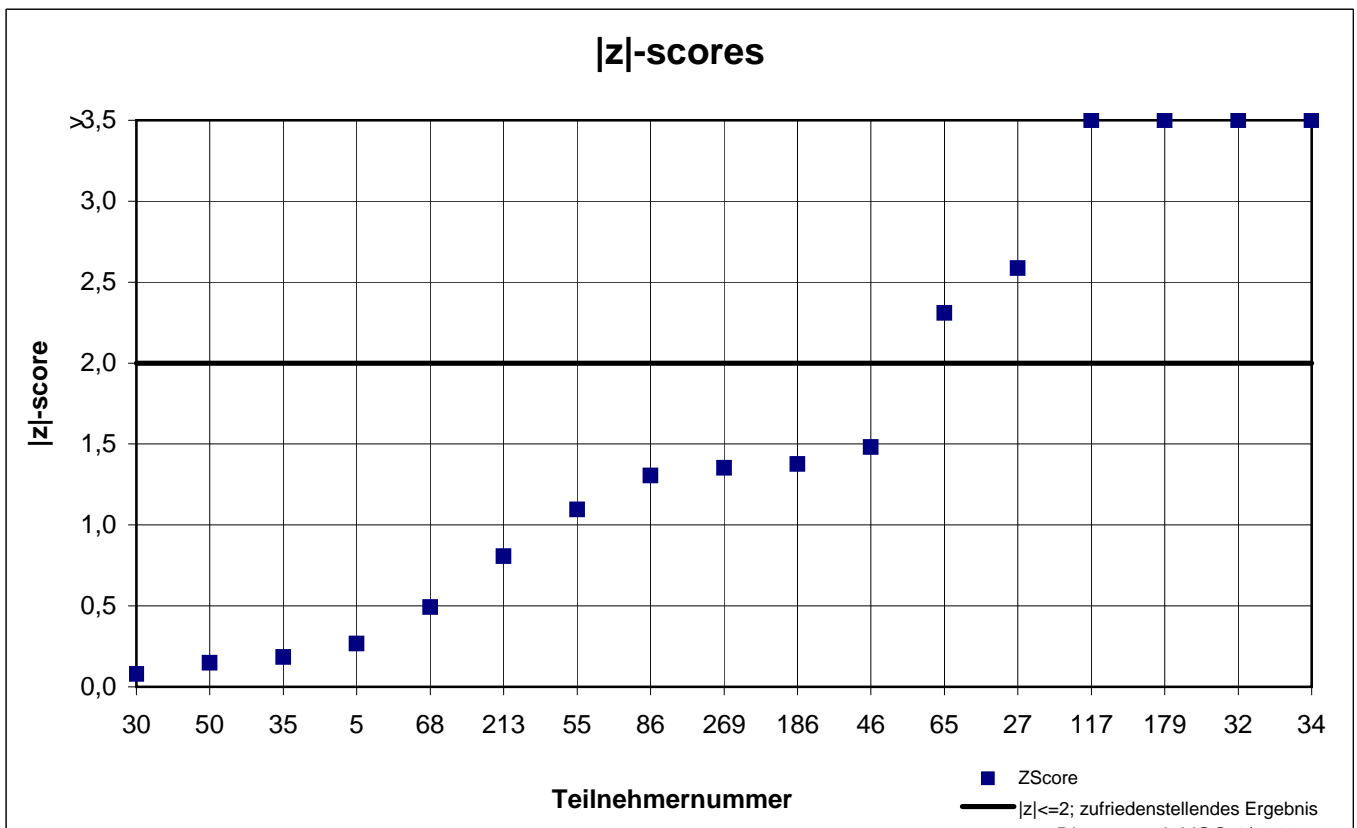
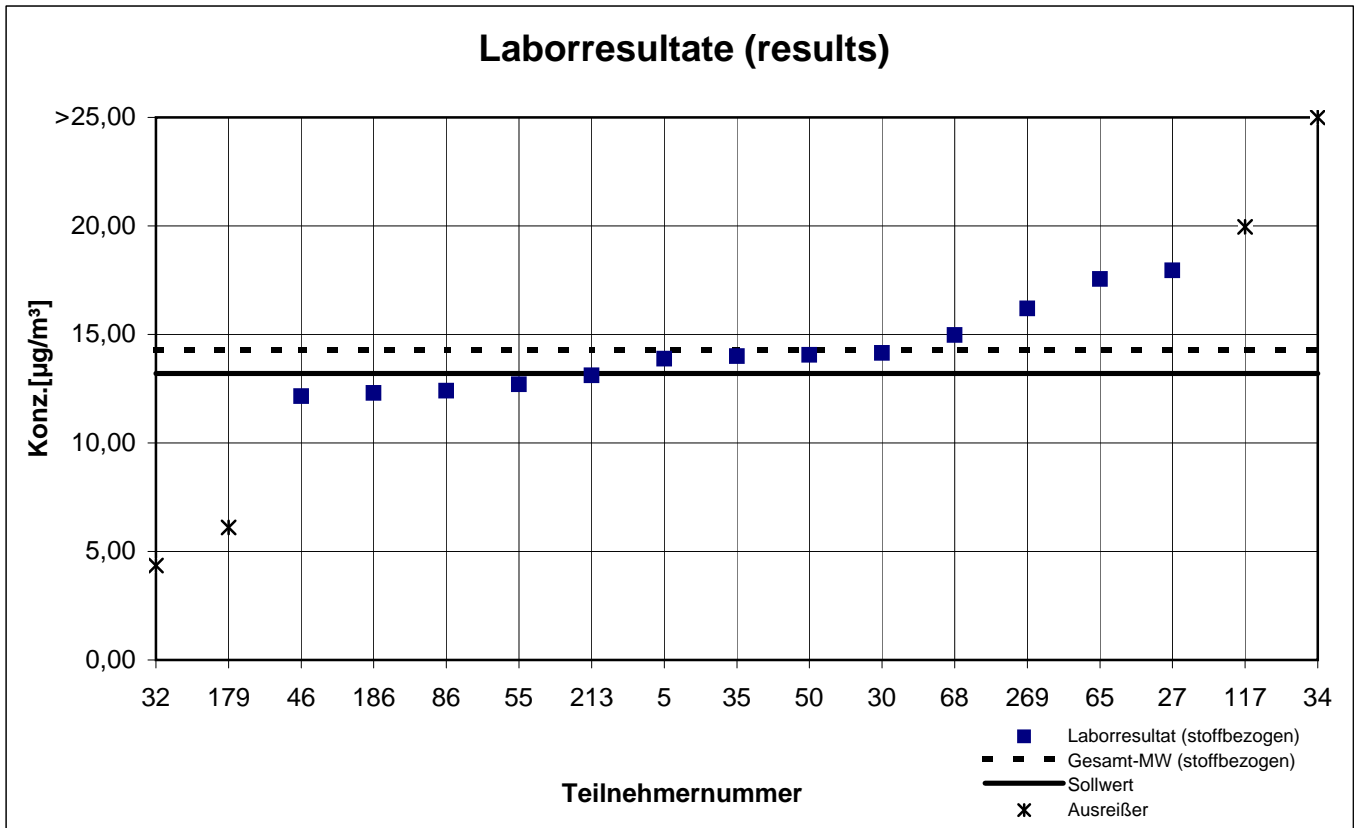
# Probe 1 (sample 1)

## Octamethylcyclotetrasiloxan



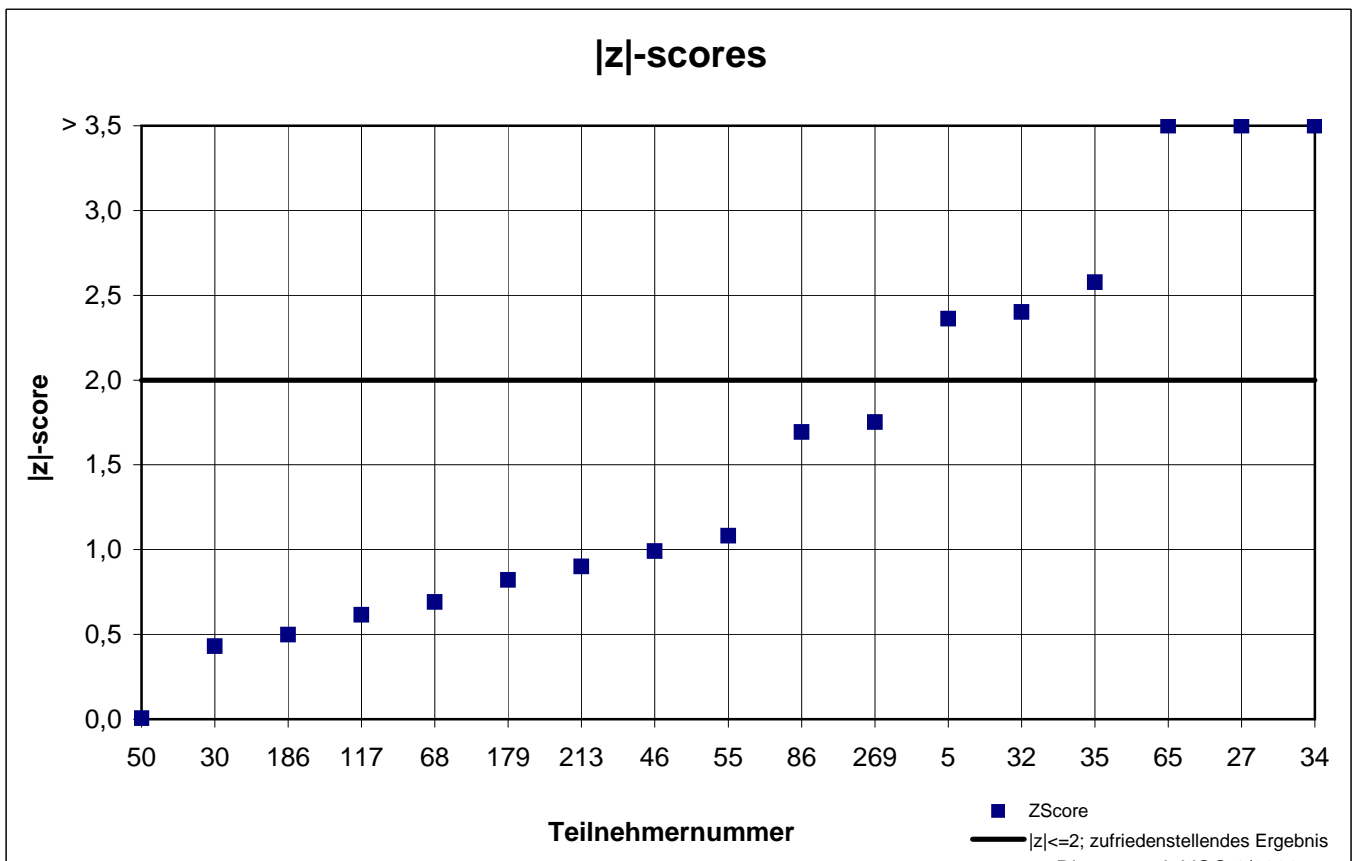
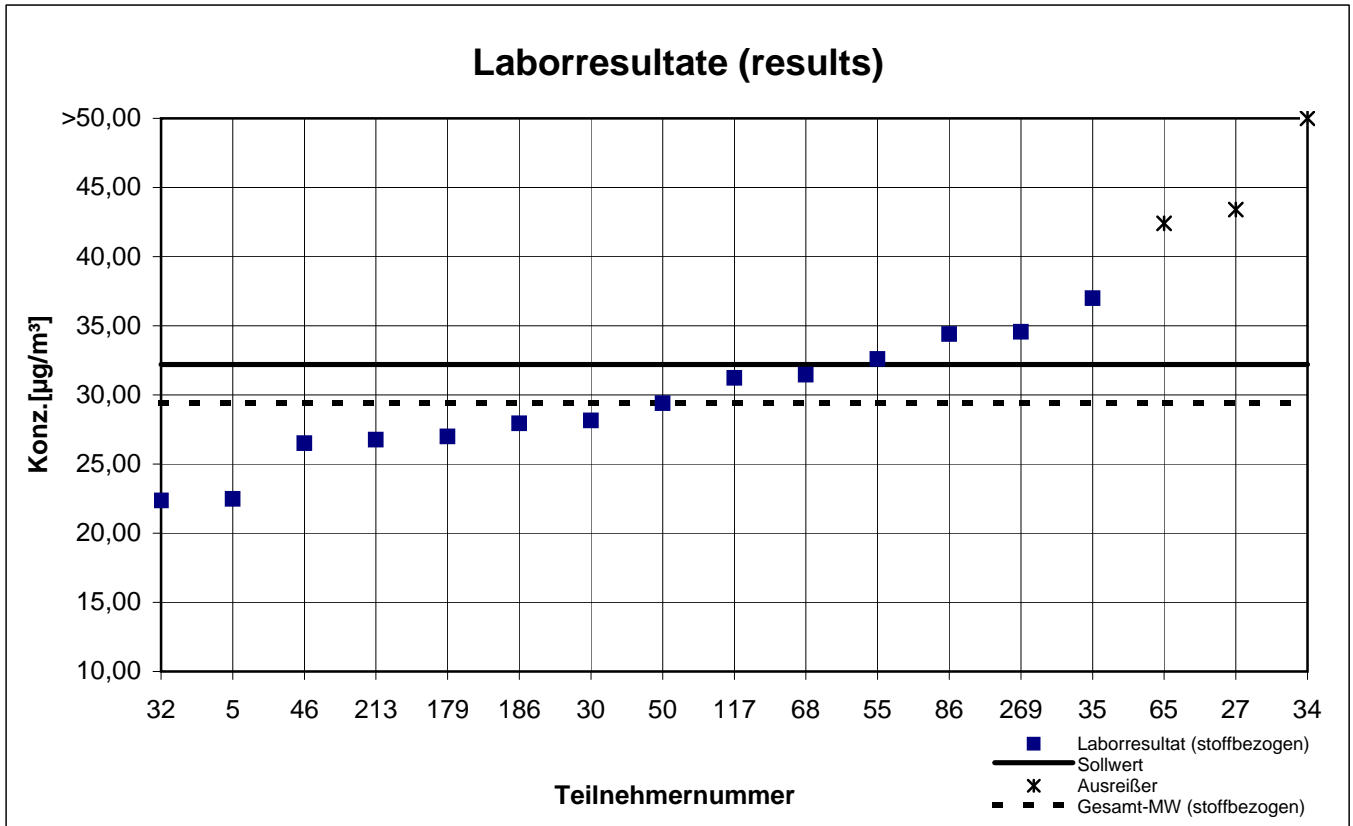
# Probe 1 (sample 1)

## p-Xylol



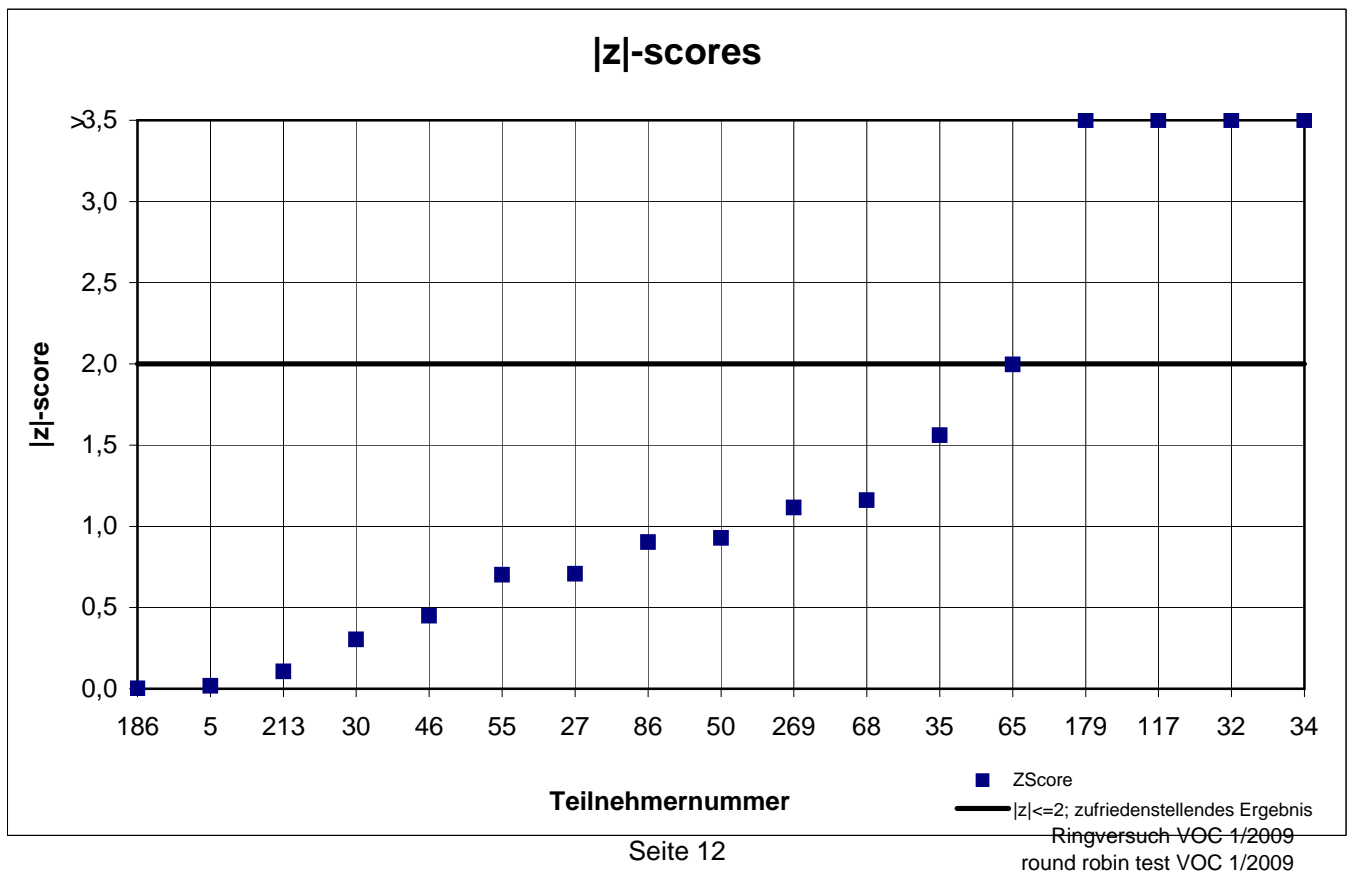
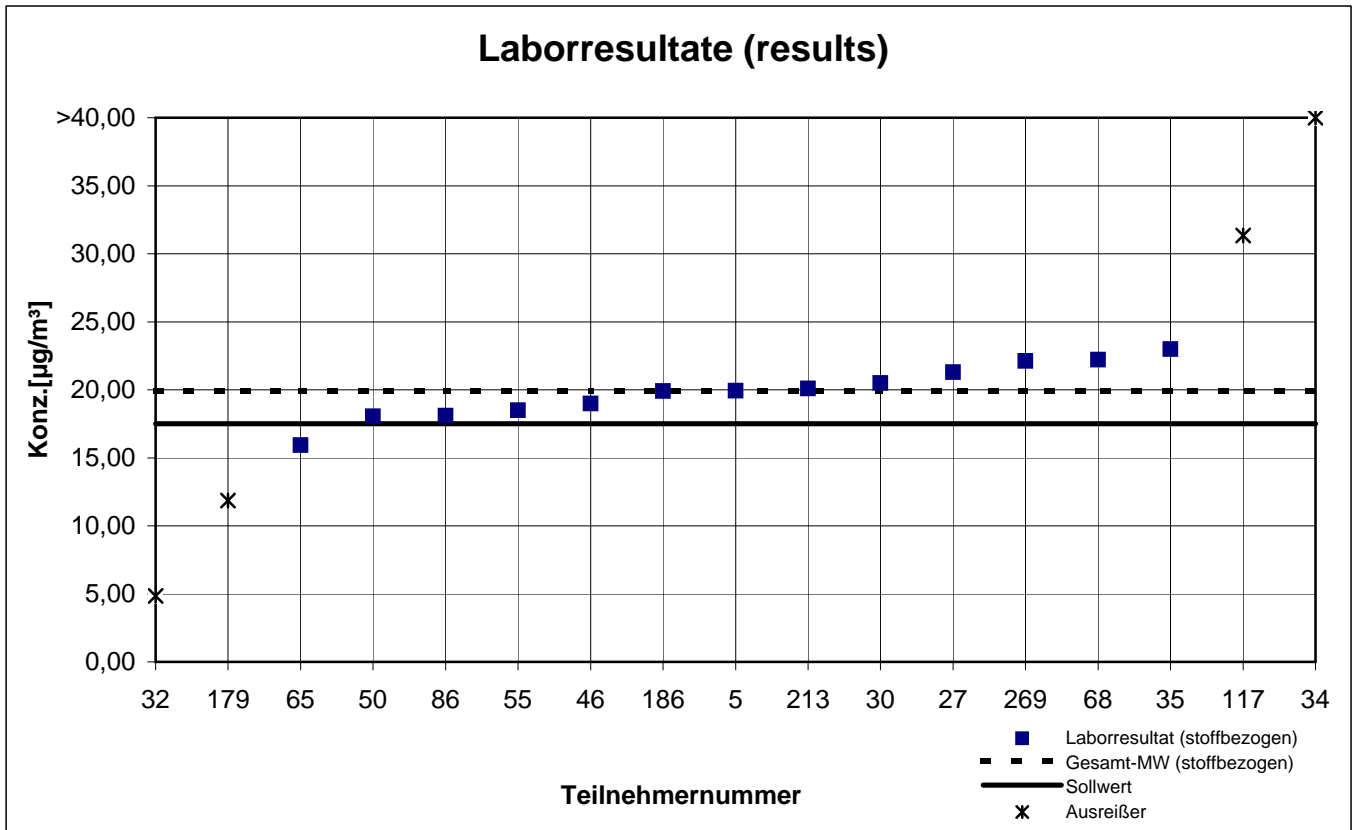
# Probe 1 (sample 1)

## R(+)-Limonen



# Probe 1 (sample 1)

## Toluol



## sample 2 - results (part 1)

participant number	2-Butoxyethanol		2-Ethylhexanol		2-Phenoxyethanol		Dodecane		Hexanal	
	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score
5*	10,35		16,86	0,1	176,8	0,2	32,94	0,1	29,80	
27	k.A.		k.A.	k.A.	52,00	7,0	49,20	4,8	16,80	
30	5,65		k.A.	k.A.	k.A.	k.A.	30,65	0,8	32,75	
32	k.A.		k.A.	k.A.	73,50	5,8	14,20	5,7	10,25	
34*	k.A.		23,80	4,2	106,1	3,9	66,80	10,1	47,20	
35*	9,00		28,00	6,7	219,0	2,6	40,00	2,0	34,00	
46	5,35		9,25	4,5	115,7	3,3	29,50	1,1	30,80	
50	5,35		14,20	1,5	299,0	7,2	27,05	1,9	40,30	
55	k.A.		k.A.		k.A.	k.A.	39,95	2,0	25,50	
65	19,37		19,80	1,8	169,2	0,2	31,57	0,5	37,56	
68	15,86		15,75	0,6	165,4	0,5	31,00	0,7	28,02	
86*	14,80		16,90	0,1	196,0	1,3	38,00	1,4	24,80	
117*	15,44		20,39	2,2	181,5	0,5	32,88	0,1	38,66	
179*	1,50		11,20	3,3	281,3	6,2	35,55	0,7	12,75	
186	14,85		15,05	1,0	160,2	0,8	28,10	1,5	47,85	
213*	10,95		19,67	1,7	178,0	0,3	33,21	0,0	21,45	
269*	18,61		17,62	0,5	173,2	0,0	34,59	0,4	41,51	

marked  fields are outliers

\* eigene Probenahme vor Ort

	2-Butoxy-ethanol	2-Ethyl-hexanol	2-Phenoxy-ethanol	Dodecane	Hexanal
mean $c_k$ [ $\mu\text{g} / \text{m}^3$ ]		16,74	173,5	33,21	
standard deviation $S_k$ [ $\mu\text{g} / \text{m}^3$ ]		2,848	26,417	4,057	
rel. standard deviation [%]		17,01	15,23	12,22	
"true result" [ $\mu\text{g} / \text{m}^3$ ]	12,60	16,80	173,4	31,70	46,20

## sample 2 - results (part 2)

participant number	n-Butyl acetate		Octamethylcyclo-tetrasiloxane		p-Xylene		R(+)-Limonene		Toluene	
	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score	result ( $\mu\text{g} / \text{m}^3$ )	z  - score
5*	33,76	0,1	52,18	5,3	28,02	0,4	28,60	2,2	40,58	0,1
27	26,30	2,1	53,60	5,7	46,95	6,1	71,60	9,4	59,40	4,5
30	34,25	0,3	36,55	0,7	27,05	0,7	37,65	0,2	40,00	0,3
32	48,00	4,4	18,50	4,6	7,75	7,3	26,50	2,8	5,65	8,6
34*	74,29	12,3	64,47	8,9	61,20	11,0	98,30	16,7	94,81	13,1
35*	36,00	0,8	38,00	1,2	29,00	0,0	42,00	1,4	45,00	1,0
46	29,90	1,0	30,20	1,1	25,65	1,2	34,00	0,8	38,10	0,7
50	24,50	2,6	26,80	2,1	26,95	0,7	35,90	0,3	35,05	1,5
55	k.A.	k.A.	k.A.	k.A.	29,00	0,0	45,75	2,4	40,45	0,2
65	39,32	1,8	43,15	2,7	35,25	2,1	53,97	4,6	42,85	0,4
68	36,82	1,1	34,12	0,0	29,46	0,1	40,55	1,0	44,14	0,7
86*	32,50	0,2	30,40	1,1	26,20	1,0	41,80	1,3	37,10	1,0
117*	34,05	0,2	24,84	2,7	34,98	2,0	34,01	0,8	55,03	3,4
179*	16,35	5,1	67,95	9,9	12,40	5,7	36,65	0,1	23,55	4,3
186	31,70	0,5	35,40	0,4	26,00	1,1	35,95	0,3	42,15	0,3
213*	35,88	0,8	37,02	0,9	29,73	0,2	34,47	0,7	45,15	1,0
269*	37,82	1,4	38,42	1,3	31,23	0,7	42,54	1,5	42,25	0,3

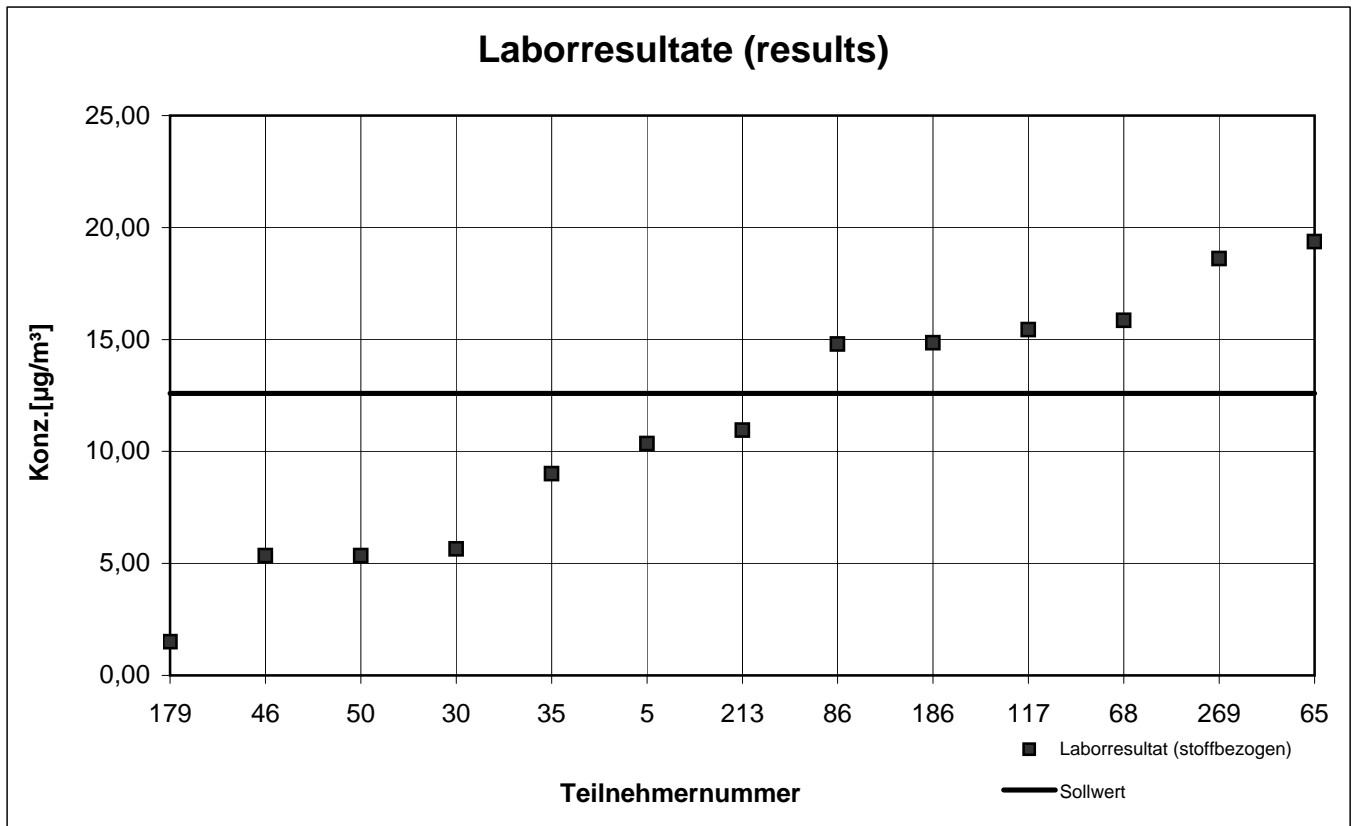
marked fields are outliers

\* eigene Probenahme vor Ort

	n-Butyl acetate	OMCTS	p-Xylene	R(+)-Limonene	Toluene
mean $c_k$ [ $\mu\text{g} / \text{m}^3$ ]	33,29	34,08	29,12	36,88	41,07
standard deviation $S_k$ [ $\mu\text{g} / \text{m}^3$ ]	4,339	5,475	3,127	5,376	3,159
rel. standard deviation [%]	13,03	16,07	10,74	14,57	7,69
"true result" [ $\mu\text{g} / \text{m}^3$ ]	32,20	31,90	27,00	40,00	35,20

# Probe 2 (sample 2)

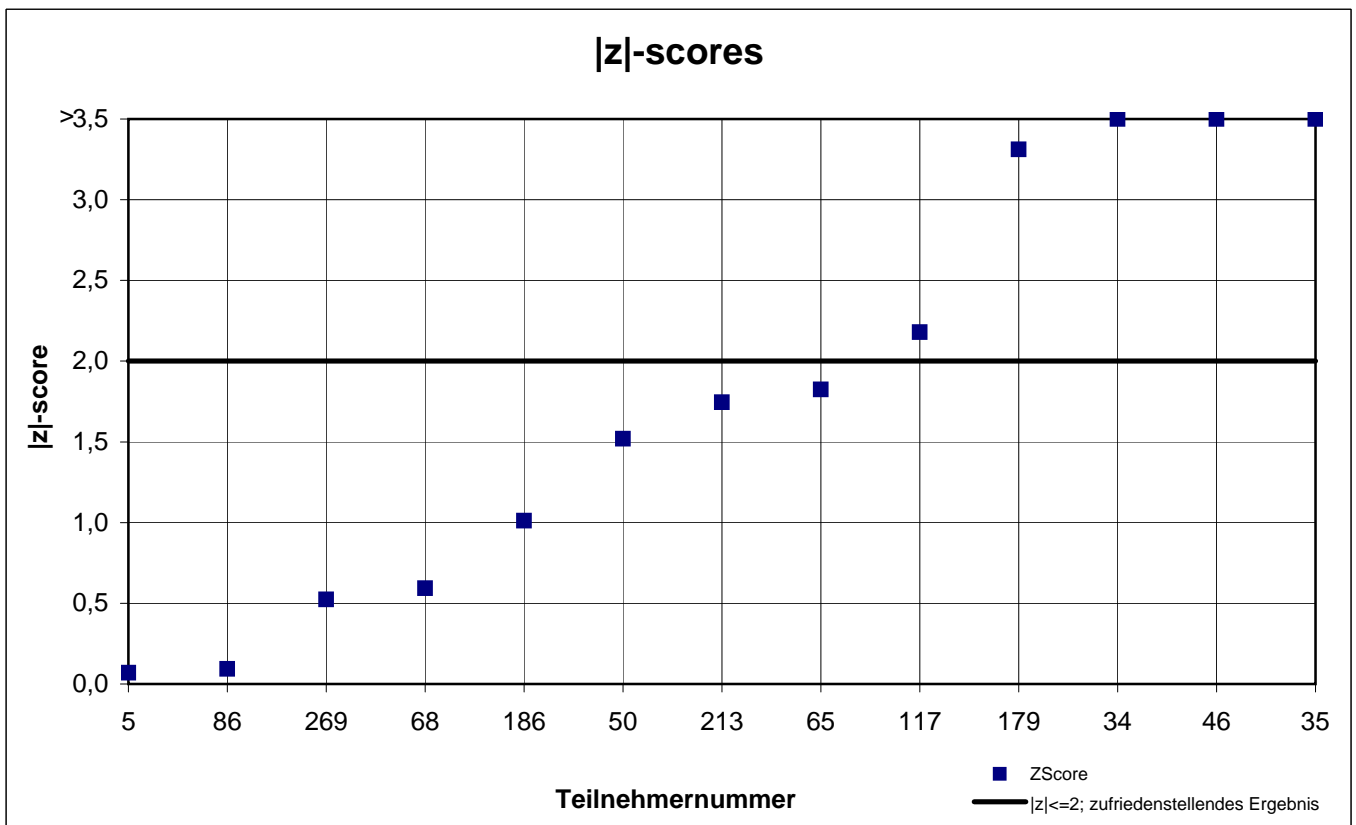
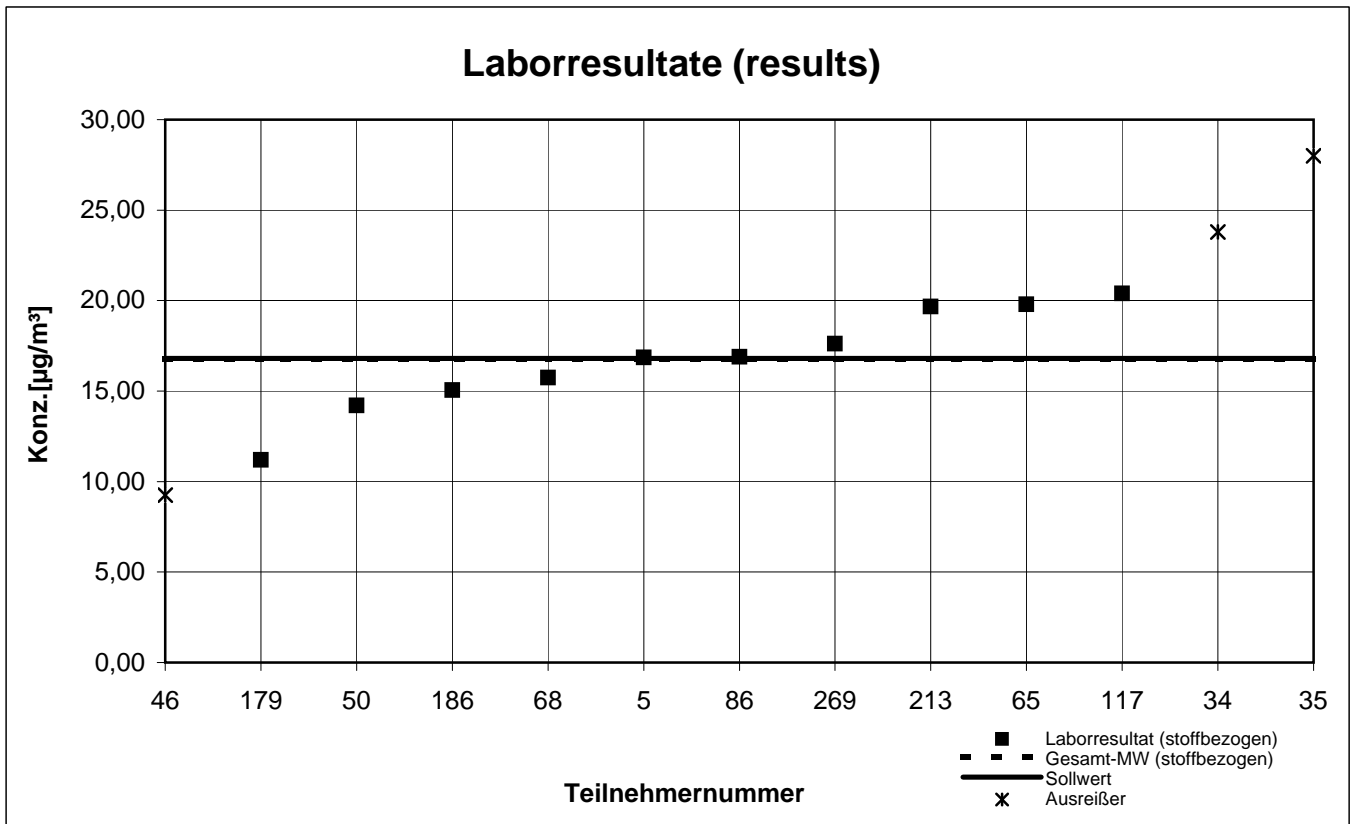
## 2-Butoxyethanol



keine z-score-Auswertung

# Probe 2 (sample 2)

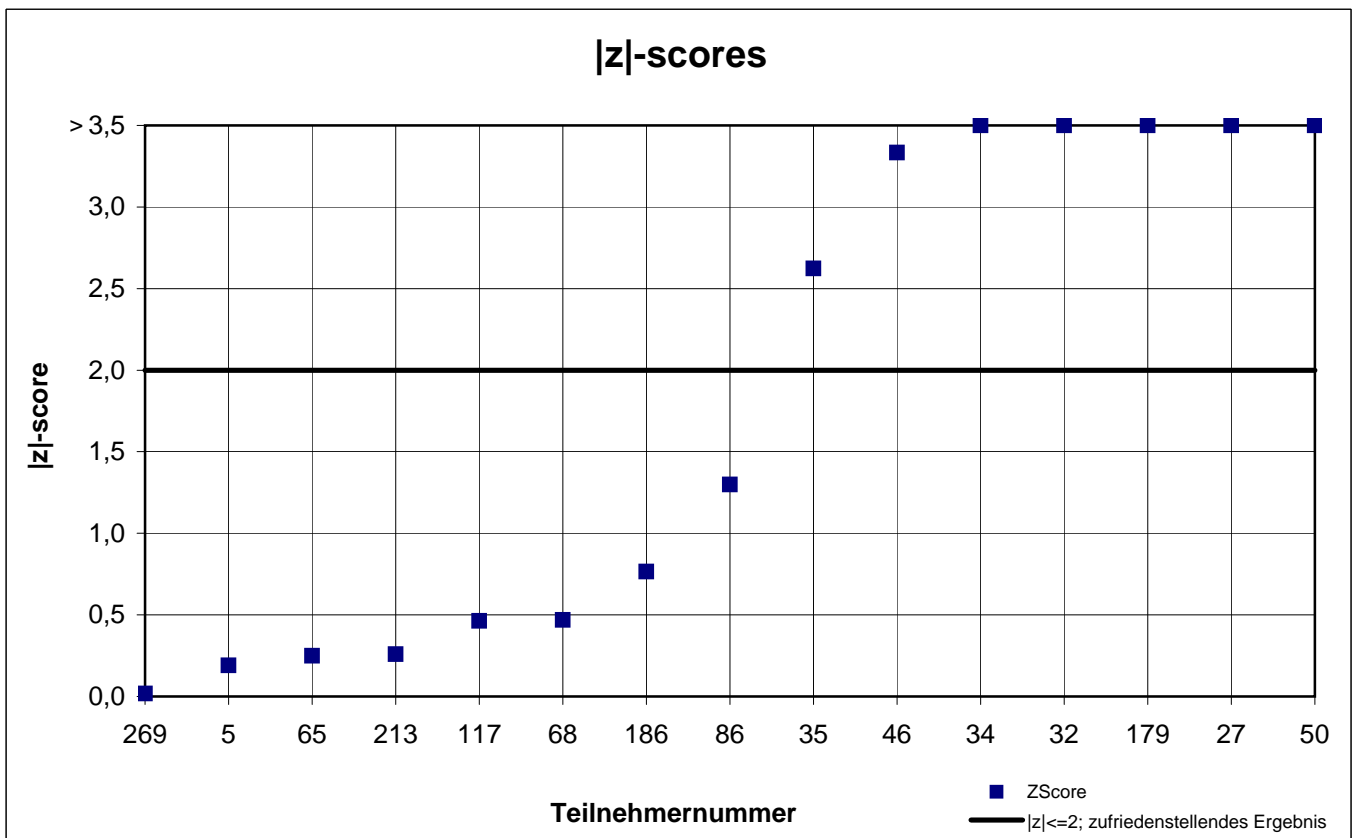
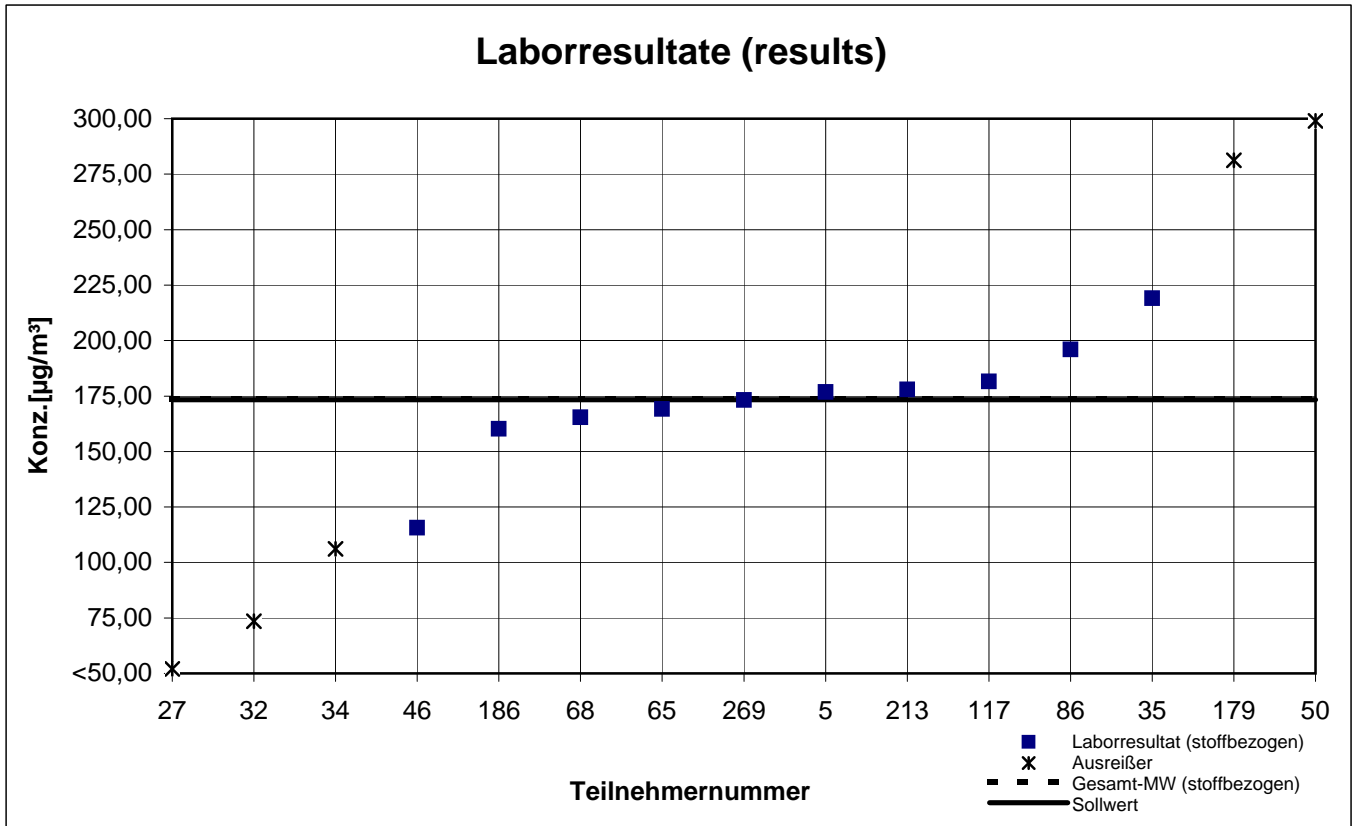
## Ethylhexanol





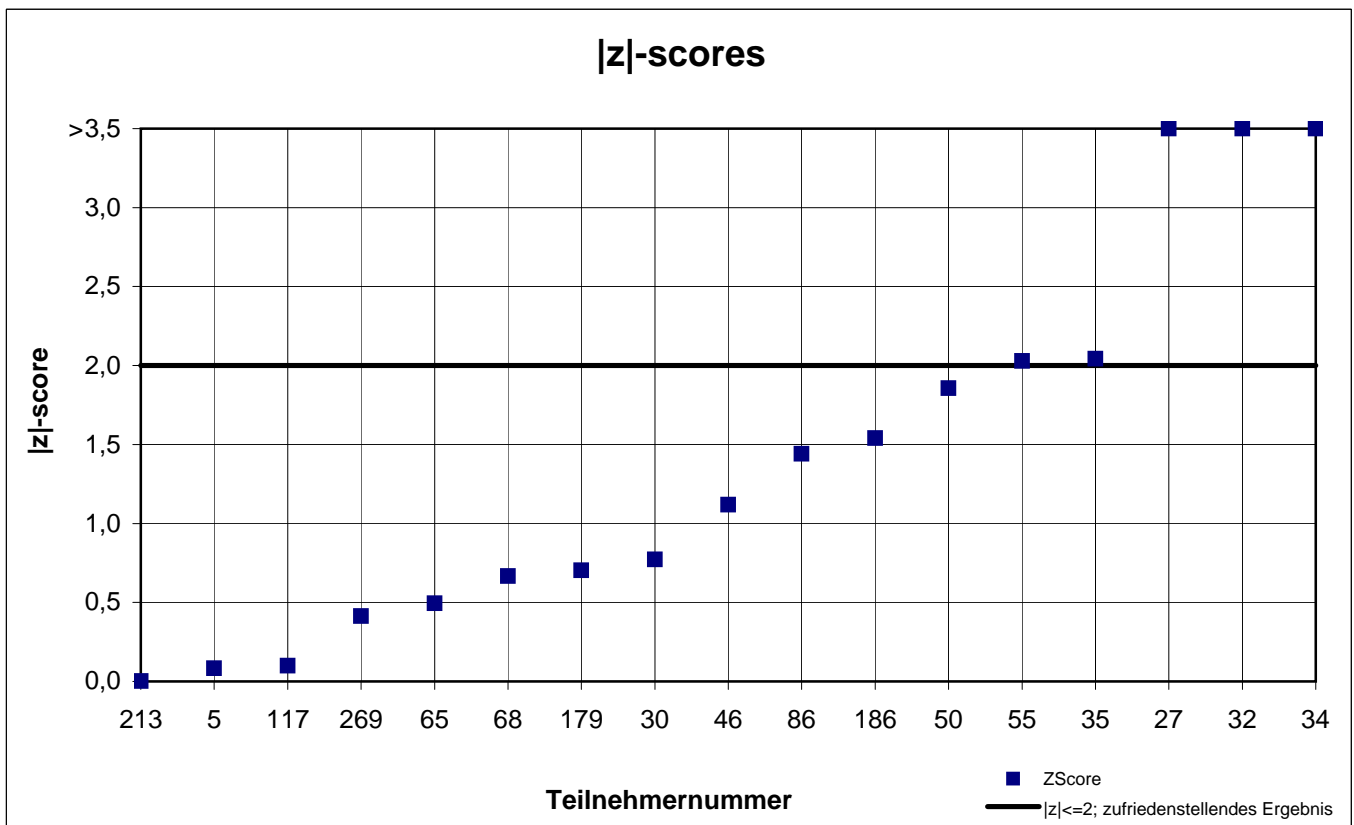
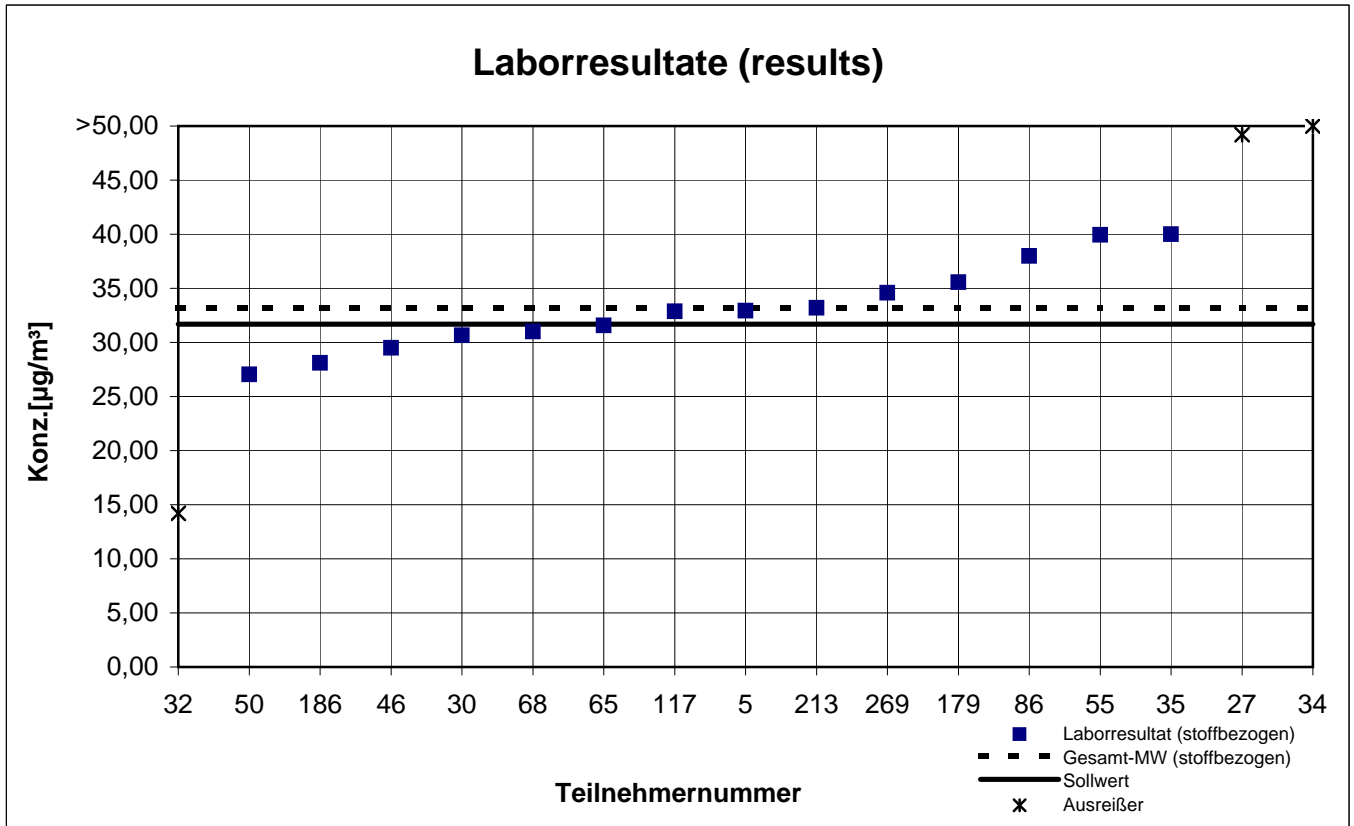
# Probe 2 (sample 2)

## 2-Phenoxyethanol



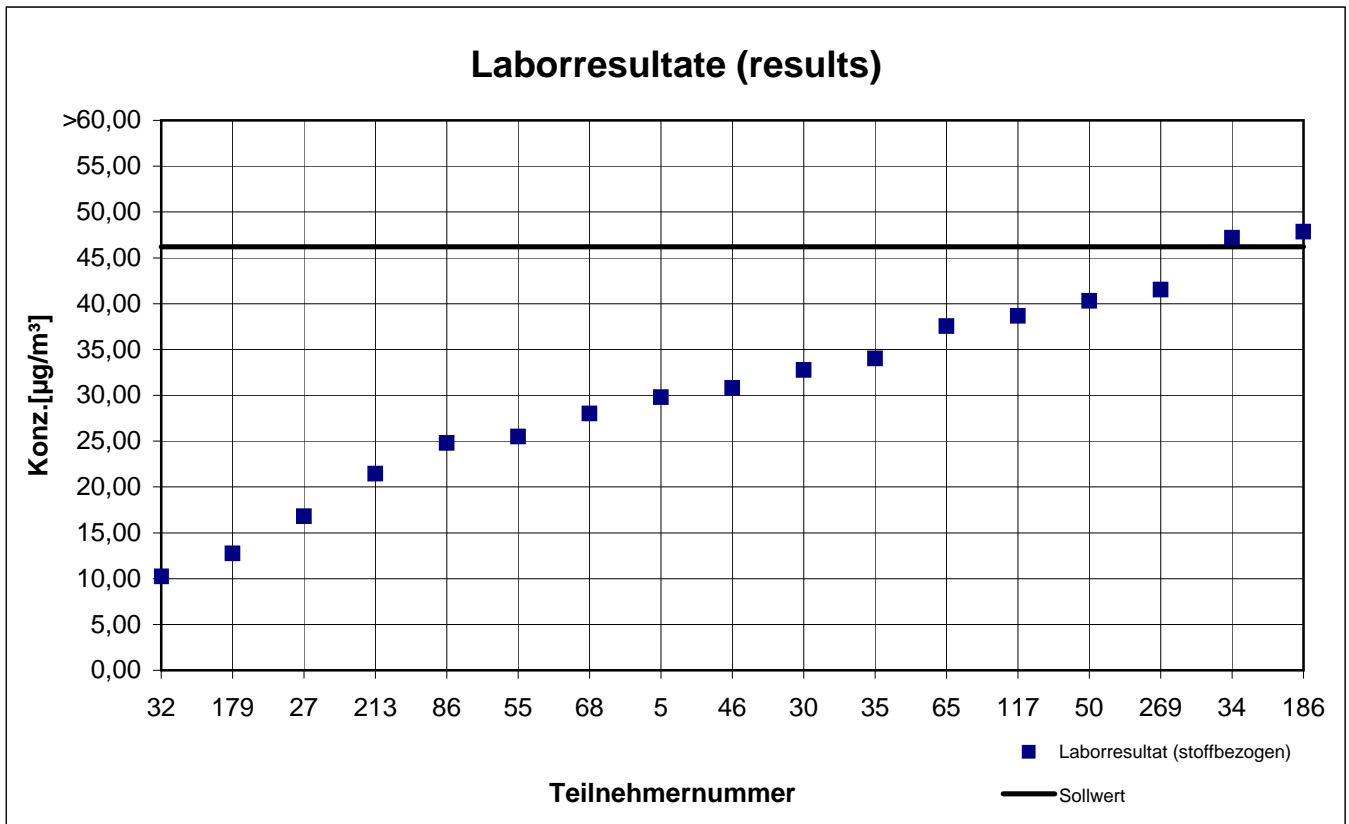
# Probe 2 (sample 2)

## Dodecan



# Probe 2 (sample 2)

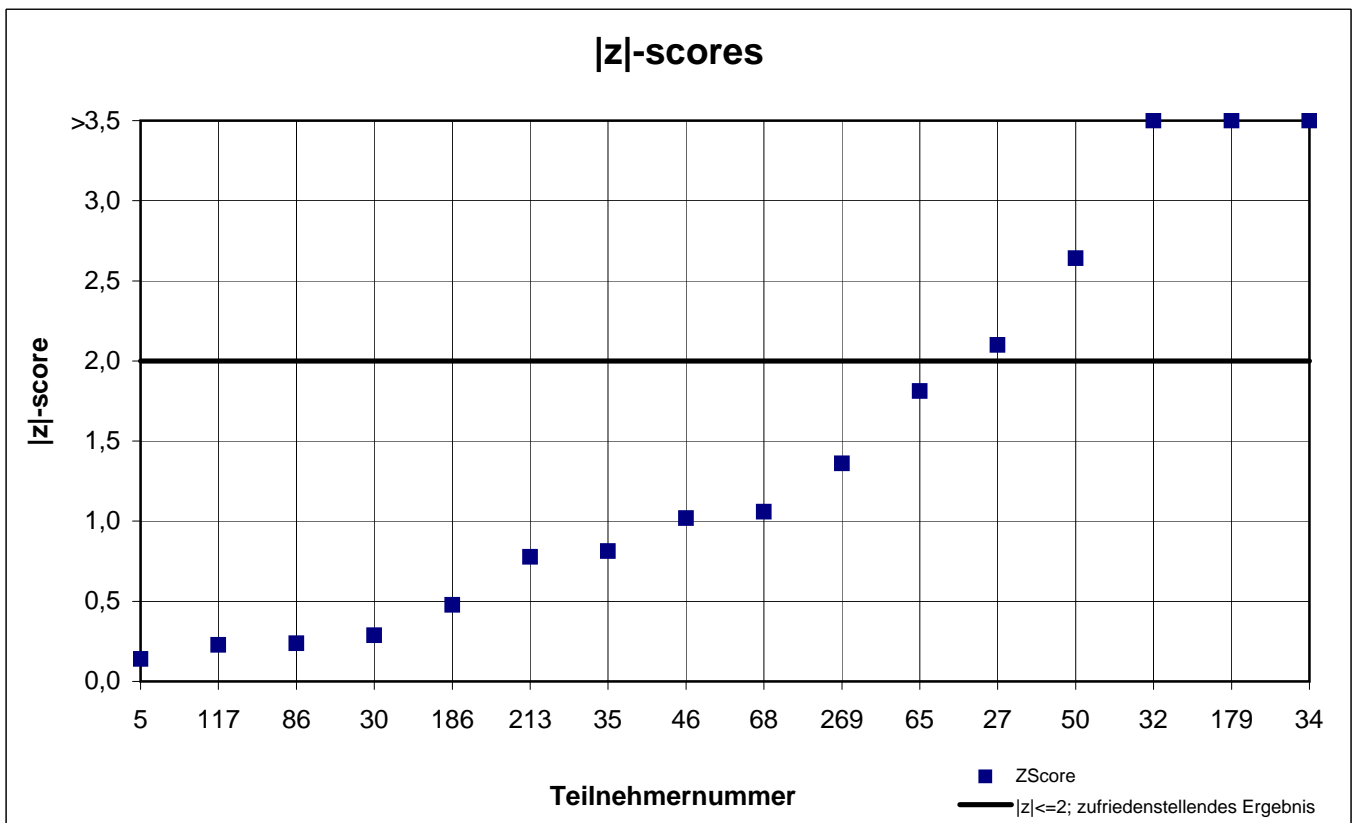
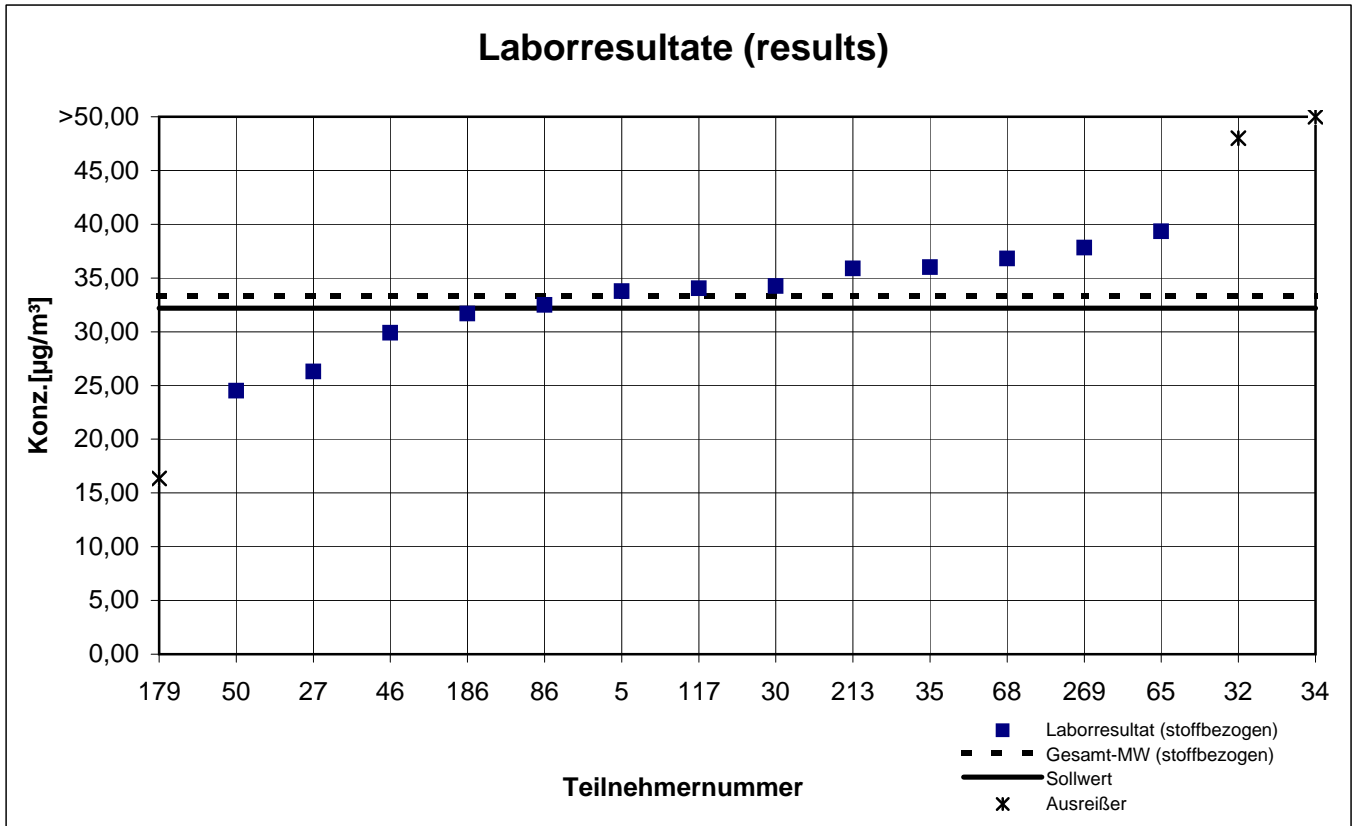
## Hexanal



keine z-score-Auswertung

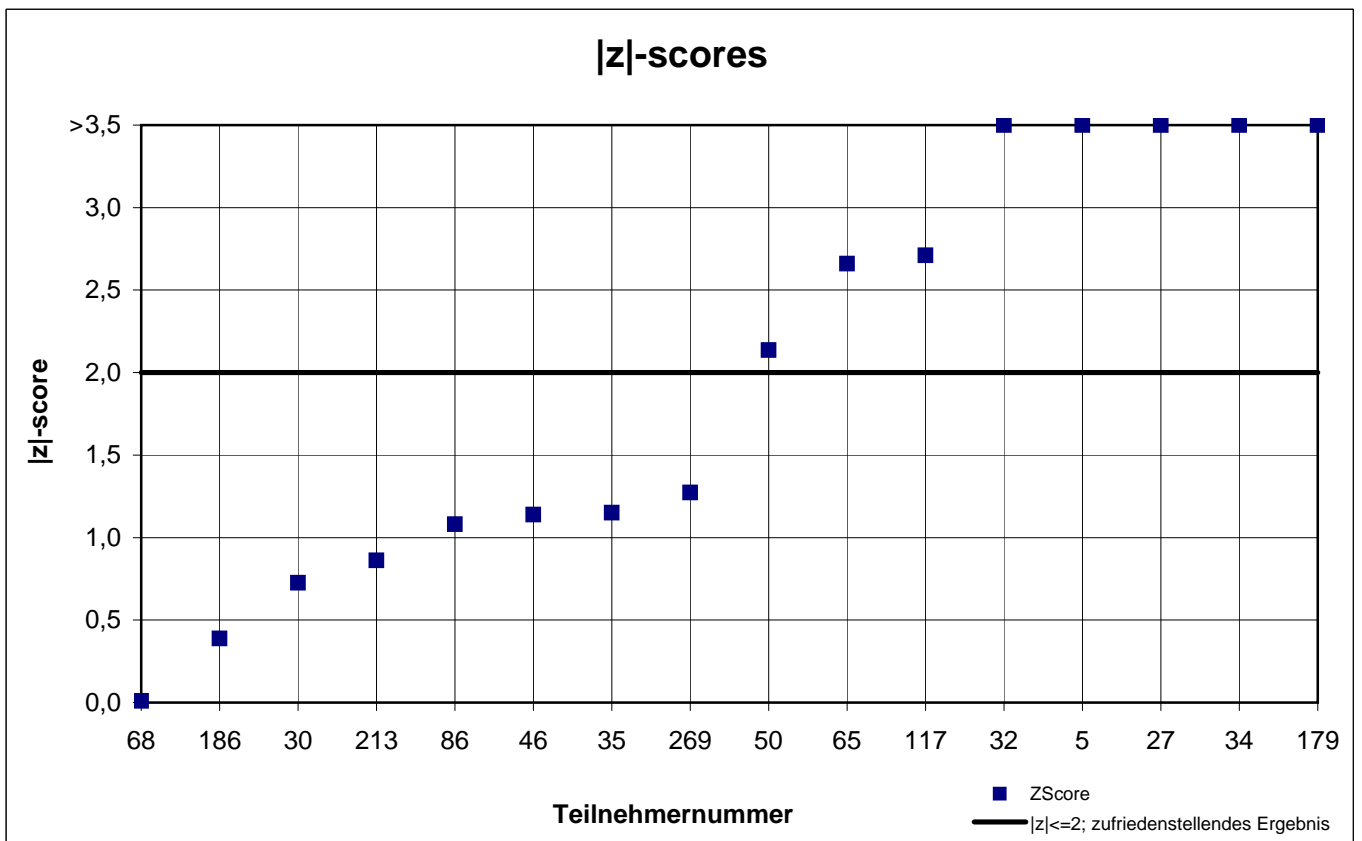
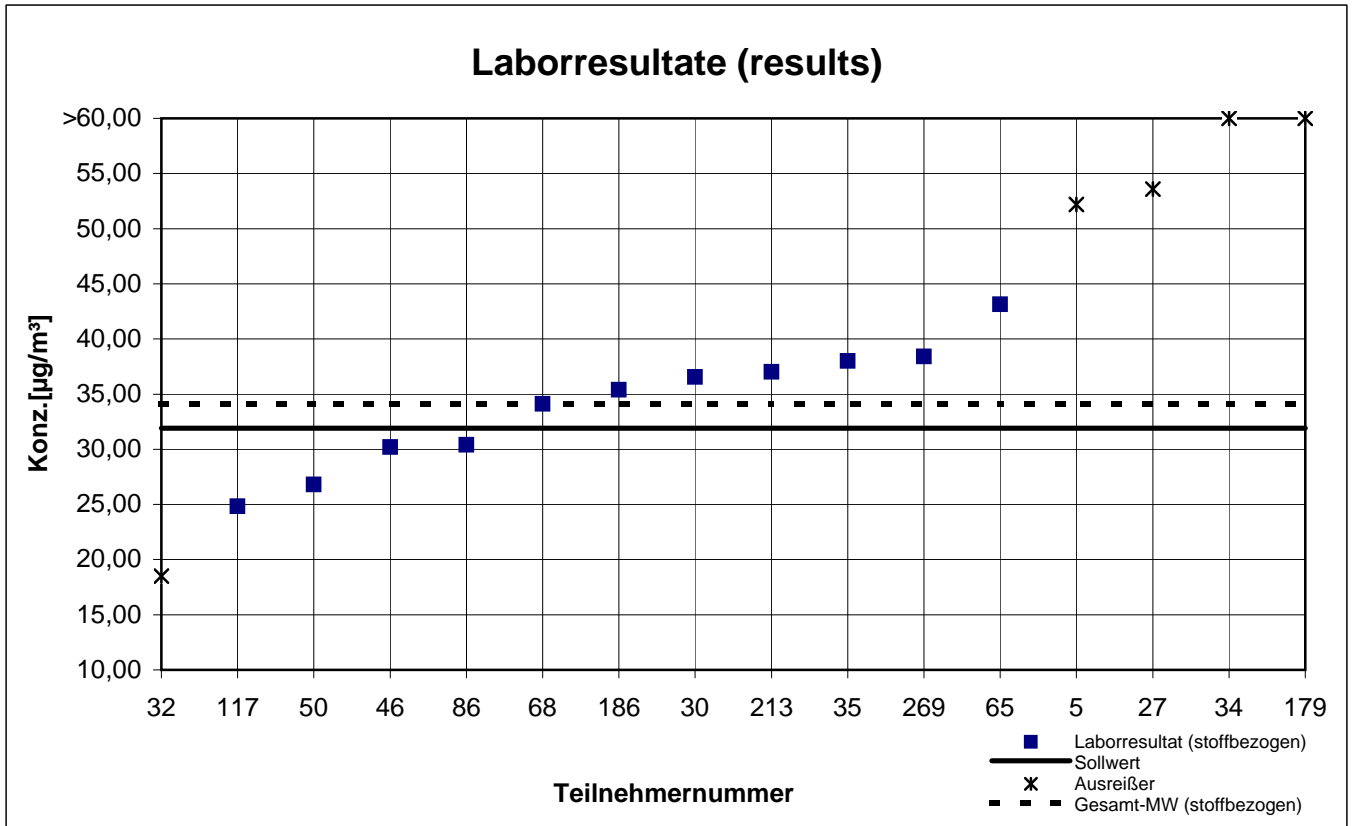
# Probe 2 (sample 2)

## n-Butylacetat



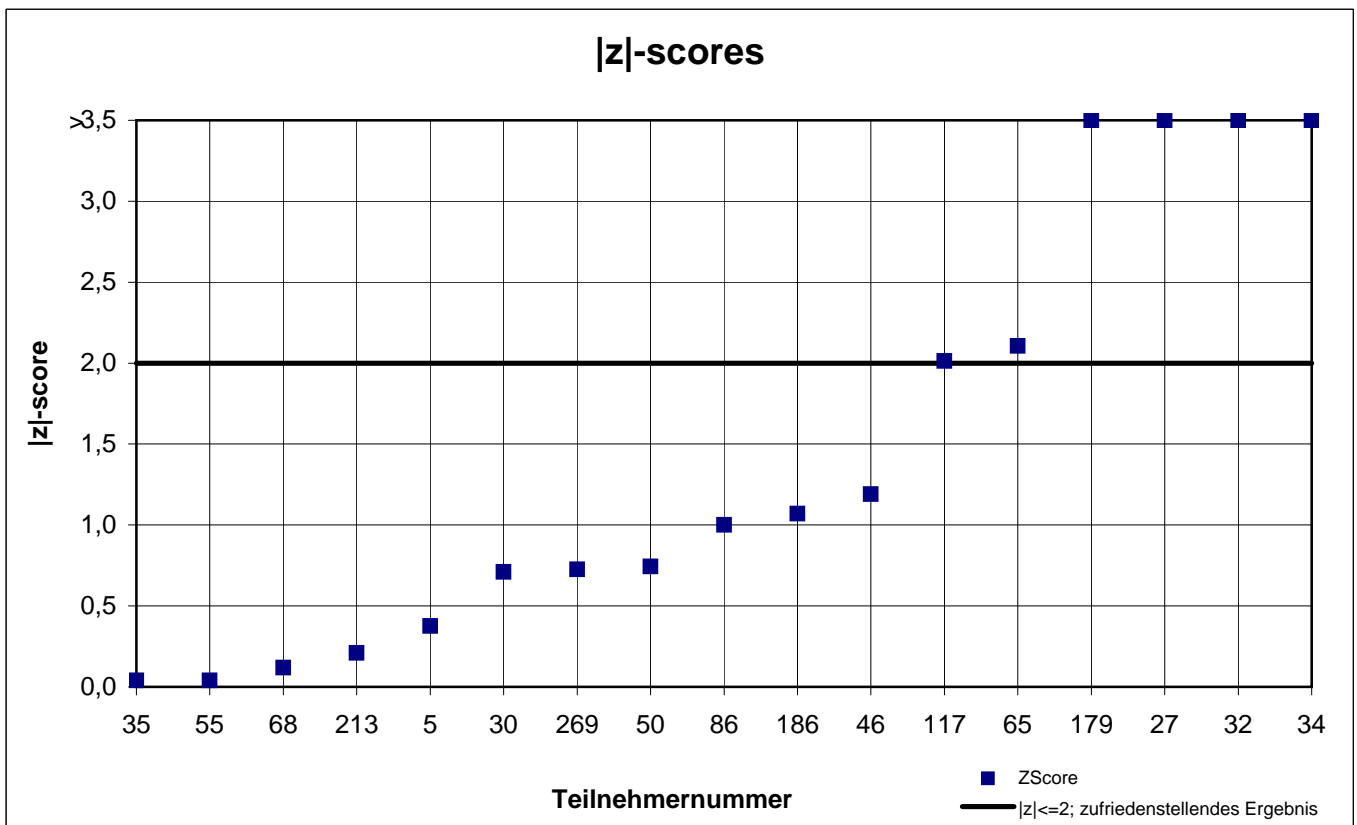
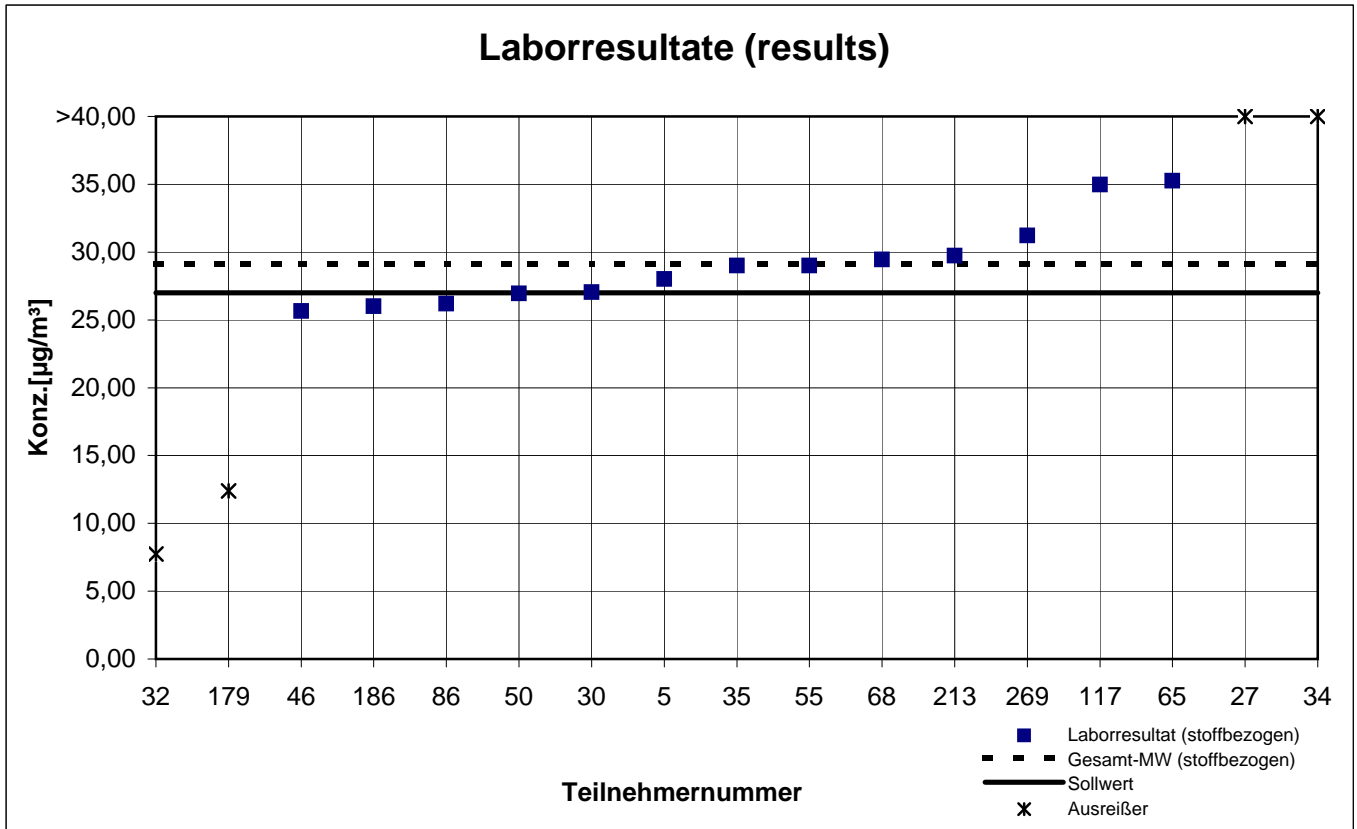
# Probe 2 (sample 2)

## Octamethylcyclotetrasiloxan



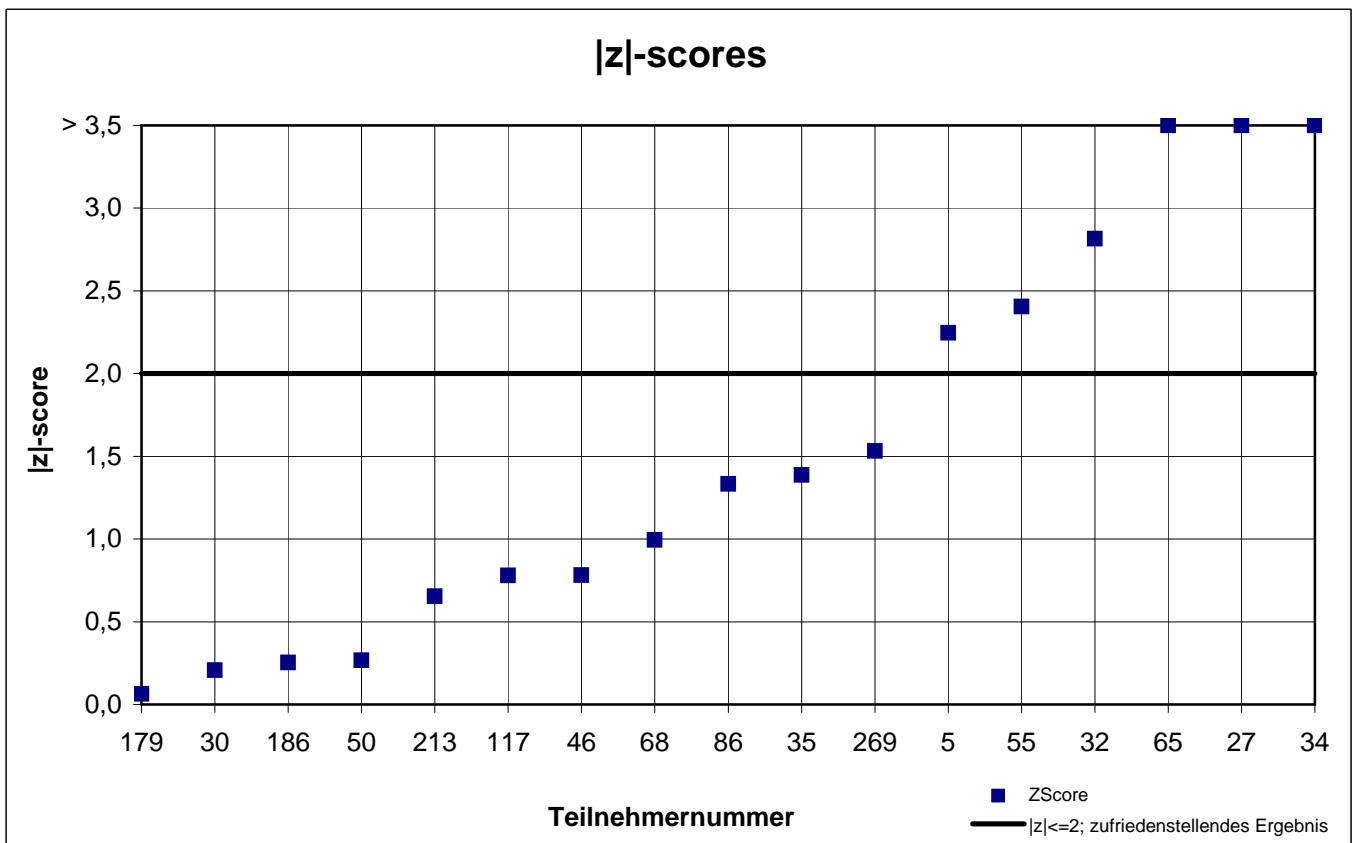
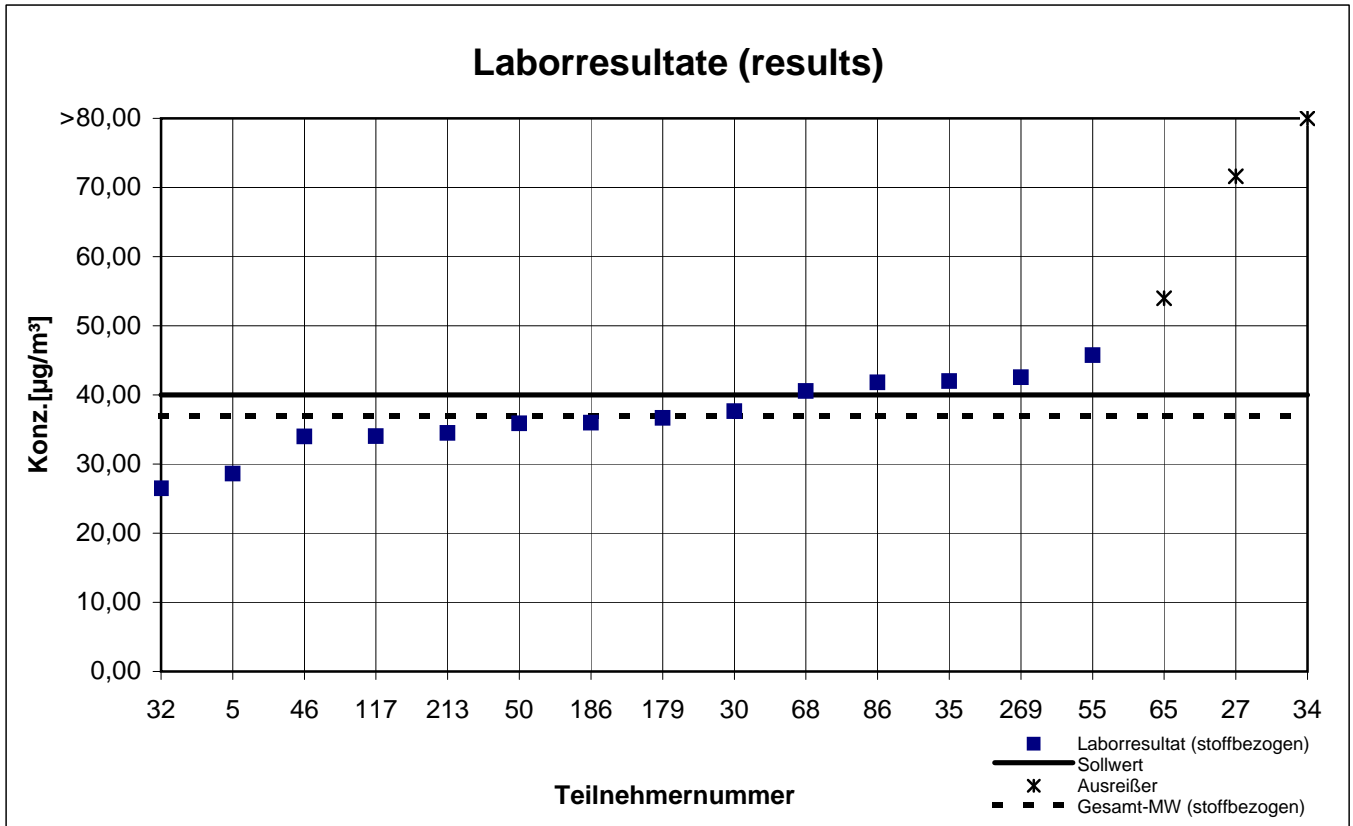
# Probe 2 (sample 2)

## p-Xylol



# Probe 2 (sample 2)

## R(+)-Limonen



# Probe 2 (sample 2)

## Toluol

