



**Water & Environmental Chemistry  
(AQUACHECK)  
AQ4181 - GWA Gesellschaft für Wasser-  
Individual Report**

**Round: 530**

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for a safer world



**18C - Benzenes, Toluene and Xylenes**

Analyte	Analyst	Method	Result	Units	Z score (** z' score)	Assigned Value	Ux AV	SDPA	Exp.SDPA	No of results	Median	Mean	Robust SD	SD
Benzene	Lab Result	Headspace GC-MS	8.70	µg/L	-0.73	9.43	0.04	1.000	N/A	19	9.00	9.12	0.623	0.821
Toluene	Lab Result	Headspace GC-MS	27.3	µg/L	-0.50	28.8	0.1	3.00	N/A	20	28.3	28.4	2.97	3.33
Ethylbenzene	Lab Result	Headspace GC-MS	28.3	µg/L	-0.30	29.2	0.1	3.00	N/A	18	28.3	28.4	4.00	3.55
o-Xylene	Lab Result	Headspace GC-MS	14.8	µg/L	0.17	14.3	0.1	3.00	N/A	19	14.5	14.0	1.63	1.61
m-+ p-Xylene	Lab Result	Headspace GC-MS	24.7	µg/L	-1.65	34.6	0.1	6.00	N/A	18	32.5	32.5	3.78	4.09

\*\* Please note, participant performance for this analyte has been assessed using a z' score, rather than a z score, in order to account for the measurement uncertainty of the assigned value which is not negligible when compared to the SDPA.