Anhang 1 Messprogramm 2012

Messprogram RUES Weil am Rhein 2012

Bezeichnungen gemäss IKSR

K	Kontinuierliche Messung
E14	Einzelprobe alle 14 Tage
1M	Tagesmischprobe
14M	14Tagesmischprobe
1M14	1 Tagesmischprobe alle 14 Tage
28M	28 Tagesmischprobe

Legende Probenameort

MS	Mischung Stahl
MK	Mischung Kunststoff
LHKW	LHKW-Probennehmer (geschlossenes System für Probennahme leichtflüchtiger Verbindungen)
PMS	Probennehmer Mischung Stahl
NADUF	Probennehmer NADUF (Nationale Daueruntersuchung der Fliessgewässer der Schweiz)
PNO	Probennehmer ORBITRAP (geschlossenes System für Probennahme leichtflüchtiger Verbindungen)

zum Beispiel:
RUES_E14_MS Einzelprobe (RÜS) alle 14 Tage aus der Mischung Stahl

PROBENMATERIAL	ART DES MUSTERS	METHODE	COMPONENTE	EINHEIT	KONTINUIERLICH	RUES_14M_DI_NADUF_GLAS	RUES_14M_DI_NADUF_PE	RUES_14M_MO_NADUF_METALLE	RUES_1M_PMS	RUES_1M_PNO	RUES_1M14_DI_PMS	RUES_1M14_DI_PNO	RUES_1M14_MO_N-NADUF_PNO	RUES_28M_MO_PMS	RUES_E14_DI_FELDBLIND_EVIAN	RUES_E14_DI_MK	RUES_E14_DI_MS	RUES_E28_DI_FELDBLIND_NANO	RUES_E28_DI_MS	RUES_E28_MO_MK_METALLE_FILTRIER	RUES_E7_MO_FELDBLIND_EVIAN	SCHWEBSTOFFE_RUES
	Online-Messungen	**ONLINE**																				
		pH-Wert	pH-Wert	K	X																	
		Temperatur	Temperatur	K	X																	
		Leitfähigkeit	Leitfähigkeit	K	X																	
		Sauerstoff	Sauerstoff	K	X																	
		Trübung	Trübung	K	X																	
FELDBLIND		**FELDBLIND (NUR METHODE AUFGEFÜHRT)**																				
	EVIAN	ALKYLPHENOLE_ARTEFAKT_667_S	BISPHENOL-A	µg/L											X							
		ORBITRAP_GROSS_ARTEFAKT_669_AS	ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT																	X	
		ORG_MIKRO_ARTEFAKT_613_S	COFFEIN	µg/L																	X	
		PESTIZIDE_ARTEFAKT_613_S	2,6-DICHLORBENZAMID	µg/L																	X	
		SCREENING_ARTEFAKT_611_S	ANZ. BEFUNDE > 0.1 µg/L	Stk																	X	
	NANOPURE	PERFLUORIERTE_TENSIDE_ARTEFAKT_664_S	PFBA_PERFLUORBUTANSAEURE	µg/L														X				
OBERFLAECHENWASSER		**WASSERPHASE**																				
		PROBENNAHME_RUES_808_P	KOMMENTAR	-						X												
			PROBENNAHMESTELLE-SCREENING	-						X												
			PROBENNEHMER	-						X												
	1M_MS	LHKW_BTEX_621_AS	1,1,1-TRICHLORETHAN	µg/L						X												
			1,1,2,2-TETRACHLORETHAN	µg/L						X												
			1,1,2-TRICHLORETHAN	µg/L						X												
			1,1-DICHLORETHAN	µg/L						X												
			1,1-DICHLORETHEN	µg/L						X												
			1,2,3-TRICHLORBENZOL	µg/L						X												
			1,2,4-TRICHLORBENZOL	µg/L						X												
			1,2-DICHLORBENZOL	µg/L						X												
			1,2-DICHLORETHAN	µg/L						X												
			1,2-DICHLORPROPAN	µg/L						X												
			1,3,5-TRICHLORBENZOL	µg/L						X												
			1,3-DICHLORBENZOL	µg/L						X												
			1,4-DICHLORBENZOL	µg/L						X												
			BENZOL	µg/L						X												
			BROMDICHLORMETHAN	µg/L						X												
			BROMOFORM	µg/L						X												
			CHLORBENZOL	µg/L						X												
			CHLOROFORM	µg/L						X												
			CIS-1,2-DICHLORETHEN	µg/L						X												
			CIS-1,3-DICHLORPROPEN	µg/L						X												
			DIBROMCHLORMETHAN	µg/L						X												
			DICHLORMETHAN	µg/L						X												
			ETBE	µg/L						X												
			ETHYLBENZOL	µg/L						X												
			HEMELITOL	µg/L						X												
			HEXACHLORBUTADIEN	µg/L						X												
			HEXACHLORETHAN	µg/L						X												
			MESITYLEN	µg/L						X												
			MTBE	µg/L						X												
			O-XYLOL	µg/L						X												
			PSEUDOCUMOL	µg/L						X												
			SUMME_BTEX	µg/L						X												
			SUMME_HALOGENIERTE	µg/L						X												
			SUMME_M-und-P-XYLOL	µg/L						X												
			TAME	µg/L						X												
			TETRACHLORETHEN	µg/L						X												
			TETRACHLORMETHAN	µg/L						X												
			TOLUOL	µg/L						X												
			TRANS-1,2-DICHLORETHEN	µg/L						X												
			TRANS-1,3-DICHLORPROPEN	µg/L						X												
			TRICHLORETHEN	µg/L						X												
			TRICHLORFLUORMETHAN	µg/L						X												
		ORBITRAP_GROSS_ENVI_669_AS	ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT						X												
			SQ_2,6-DICHLORBENZAMID	µg/L						X												
			SQ_2*3*-DIACETAT-5*-DEOXY-5-FLUORCYTIDI	µg/L						X												
			SQ_2-AMINO-5-NITROPHENOL	µg/L						X												
			SQ_2-AMINOSULFONYL-BENZOESAEUREMETHYLEST	µg/L						X												
			SQ_2-HYDROXY-4-METHOXYBENZOPHENON	µg/L						X												
			SQ_2-NAPHTHALINSULFONSAEURE	µg/L						X												
			SQ_2-N-OCTYL-4-ISOTHIAZOLIN-3-ON	µg/L						X												
			SQ_3,5,6-TRICHLOR-2-PYRIDINOL	µg/L						X												
			SQ_3,5-DIBROM-4-HYDROXYBENZOESAEURE	µg/L						X												
			SQ_3-PHENOXYBENZOESAEURE	µg/L						X												
			SQ_4-(TRIFLUORMETHYL)PHENOL	µg/L						X												
			SQ_4,5-DICHLOR-2-N-OCTYL-3(2H)-ISOTHIAZO	µg/L						X												
			SQ_4-AMINOPYRIN	µg/L						X												
			SQ_4-CHLOR-2-METHYLPHENOL	µg/L						X												
			SQ_4-DIMETHYLAMINO-ANTIPYRIN	µg/L						X												
			SQ_4-DIMETHYLAMINOPYRIDIN	µg/L						X												
			SQ_4-FLUORPHENYLESSIGSÄURE	µg/L						X												
			SQ_4-FORMYL-AMINOANTIPYRIN	µg/L						X												
			SQ_4-ISOPROPYLANILIN	µg/L						X												
			SQ_7-DIETHYL-4-METHYLCOUMARIN	µg/L						X												
			SQ_ACESULFAM	µg/L						X												
			SQ_ACETYLSULFAMETHOXAZOL	µg/L						X												
			SQ_ALBUTEROL	µg/L						X												
			SQ_ALDICARB	µg/L						X												
			SQ_ALKOPHEN-ACIDO-LAKTON	µg/L						X												
			SQ_AMDOPH	µg/L						X												
			SQ_AMISULPRID	µg/L						X												
			SQ_ASULAM	µg/L						X												
			SQ_ATENOLOL	µg/L						X												
			SQ_ATENOLOLSAEURE	µg/L						X												
			SQ_ATOMOXETIN	µg/L						X												
			SQ_ATRAZIN	µg/L						X												
			SQ_AZITHROMYCIN	µg/L						X												
			SQ_AZOXYSTROBIN	µg/L						X												
			SQ_AZOXYSTROBINSAEURE	µg/L						X												
			SQ_BENTAZON	µg/L						X												
			SQ_BENZAMIDIN	µg/L						X												
			SQ_BENZISOTHIAZOLIN-3-ON	µg/L						X												
			SQ_BENZOTHIAZOL	µg/L						X												
			SQ_BENZOTRIAZOL	µg/L						X												
			SQ_BEZAFIBRAT	µg/L						X												
			SQ_BICALUTAMID	µg/L						X												
			SQ_BIFENOXSAEURE	µg/L						X												
			SQ_BROMACIL	µg/L						X												
			SQ_BROMOXYNIL	µg/L						X												
			SQ_BRONOPOL	µg/L						X												
			SQ_BUPROPION	µg/L						X												
			SQ_CANDESARTAN	µg/L						X												
			SQ_CAPECITABIN	µg/L						X												
			SQ_CARBAMAZEPIN	µg/L						X												
			SQ_CARBAMAZEPIN-10,11DIHYDRO-10,11DIHYDR	µg/L						X												
			SQ_CARBAMAZEPIN-10,11-EPOXID	µg/L						X												
			SQ_CARBENDAZIM	µg/L						X												
			SQ_CARBETAMID	µg/L						X												
			SQ_CETIRIZIN	µg/L						X												
			SQ_CHLORIDAZON	µg/L						X												
			SQ_CHLORTHALONIL-4-HYDROXYCARBONSAEUREAM	µg/L						X												
			SQ_CHLORTOLURON	µg/L						X												
			SQ_CITALOPRAM	µg/L						X												
			SQ_CLARITHROMYCIN	µg/L						X												
			SQ_CLIMBAZOL	µg/L						X												
			SQ_CLINDAMYCIN	µg/L						X												
			SQ_CLOMAZON	µg/L						X												

SQ_CLOPIDOGRELSAEURE	µg/L						X																		
SQ_CLOTRIMAZOL	µg/L						X																		
SQ_CODEIN	µg/L						X																		
SQ_COFFEIN	µg/L						X																		
SQ_CYCLOHEXYLSULFAMIDSAEURE	µg/L						X																		
SQ_CYMOXANIL	µg/L						X																		
SQ_CYPROCONAZOL	µg/L						X																		
SQ_CYPRODINIL	µg/L						X																		
SQ_CYTARABIN	µg/L						X																		
SQ_D617	µg/L						X																		
SQ_DEET	µg/L						X																		
SQ_DEFERASIROX	µg/L						X																		
SQ_DESAMINO-METAMITRON	µg/L						X																		
SQ_DESAMINOMETRIBUZIN	µg/L						X																		
SQ_DESCYCLOPROPYL-IRGAROL	µg/L						X																		
SQ_DESDIMETHYLDIURON	µg/L						X																		
SQ_DESETHYLATRAZIN	µg/L						X																		
SQ_DESISOPROPYLATENOLOL	µg/L						X																		
SQ_DESISOPROPYLATRAZIN	µg/L						X																		
SQ_DESMONOMETHYLDIURON	µg/L						X																		
SQ_DEXAMETHASON	µg/L						X																		
SQ_DIAZEPAM	µg/L						X																		
SQ_DIAZINON	µg/L						X																		
SQ_DICHLORPROP	µg/L						X																		
SQ_DICLOFENAC	µg/L						X																		
SQ_DIDESMETHYL-ISOPROTURON	µg/L						X																		
SQ_DIFLUFENICAN	µg/L						X																		
SQ_DIMETHACHLOR	µg/L						X																		
SQ_DIMETHACHLOR-ESA	µg/L						X																		
SQ_DIMETHACHLOR-OXA	µg/L						X																		
SQ_DIMETHENAMID	µg/L						X																		
SQ_DIMETHENAMID-ESA	µg/L						X																		
SQ_DIMETHENAMID-OXA	µg/L						X																		
SQ_DIMETHYLAMINOSULFANILID	µg/L						X																		
SQ_DINOSEB	µg/L						X																		
SQ_DIURON	µg/L						X																		
SQ_DRONEDARON	µg/L						X																		
SQ_EPOXYCONAZOL	µg/L						X																		
SQ_EPROSARTAN	µg/L						X																		
SQ_ERYTHROMYCIN	µg/L						X																		
SQ_ETHOFUMESAT	µg/L						X																		
SQ_EXEMESTAN	µg/L						X																		
SQ_FENOFIBRAT	µg/L						X																		
SQ_FENOFIBRINSAEURE	µg/L						X																		
SQ_FENPROPIMORPH	µg/L						X																		
SQ_FIPRONIL	µg/L						X																		
SQ_FIPRONIL-SULFID	µg/L						X																		
SQ_FIPRONIL-SULFON	µg/L						X																		
SQ_FLUAZIFOP	µg/L						X																		
SQ_FLUCONAZOL	µg/L						X																		
SQ_FLUDIOXONIL	µg/L						X																		
SQ_FLUFENACET	µg/L						X																		
SQ_FLUFENACET-ESA	µg/L						X																		
SQ_FLUFENACET-OXA	µg/L						X																		
SQ_FLUOXETIN	µg/L						X																		
SQ_FLUROXYPYR	µg/L						X																		
SQ_FLUSILAZOL	µg/L						X																		
SQ_FORAMSULFURON	µg/L						X																		
SQ_FUROSEMID	µg/L						X																		
SQ_GABAPENTIN	µg/L						X																		
SQ_GALAXOLIDON	µg/L						X																		
SQ_HEXAZINON	µg/L						X																		
SQ_HYDROCHLORTHIAZID	µg/L						X																		
SQ_HYDROXY-DESISOPROPYLPROMETON	µg/L						X																		
SQ_IBUPROFEN	µg/L						X																		
SQ_IMIDACLOPRID	µg/L						X																		
SQ_IMINOSTILBEN	µg/L						X																		
SQ_INDOMETHACIN	µg/L						X																		
SQ_IODOCARB	µg/L						X																		
SQ_IOHEXOL	µg/L						X																		
SQ_IOPROMID	µg/L						X																		
SQ_IOXYNIL	µg/L						X																		
SQ_IRGAROL	µg/L						X																		
SQ_ISOPROTURON	µg/L						X																		
SQ_KETOPROFEN	µg/L						X																		
SQ_KRESOXIM-METHYL	µg/L						X																		
SQ_LAMOTRIGIN	µg/L						X																		
SQ_LEVAMISOL	µg/L						X																		
SQ_LEVETIRACETAM	µg/L						X																		
SQ_LIDOCAIN	µg/L						X																		
SQ_LINURON	µg/L						X																		
SQ_LOSARTAN	µg/L						X																		
SQ_MCPA	µg/L						X																		
SQ_MCPB	µg/L						X																		
SQ_MEFENAMINSAEURE	µg/L						X																		
SQ_MESOTRION	µg/L						X																		
SQ_MESOTRION-MNBA	µg/L						X																		
SQ_METALAXYL	µg/L						X																		
SQ_METAMITRON	µg/L						X																		
SQ_METAZACHLOR	µg/L						X																		
SQ_METAZACHLOR-ESA	µg/L						X																		
SQ_METAZACHLOR-OXA	µg/L						X																		
SQ_METFORMIN	µg/L						X																		
SQ_METHYLMETSULFURON	µg/L						X																		
SQ_METHYLPREDNISOLON	µg/L						X																		
SQ_METOCLOPRAMID	µg/L						X																		
SQ_METOLACHLOR	µg/L						X																		
SQ_METOLACHLOR-ESA	µg/L						X																		
SQ_METOLACHLOR-MORPHOLINON	µg/L						X																		
SQ_METOLACHLOR-OXA	µg/L						X																		
SQ_METOPROLOL	µg/L						X																		
SQ_METRIBUZIN	µg/L						X																		
SQ_METRONIDAZOL	µg/L						X																		
SQ_MOCLOBEMID	µg/L						X																		
SQ_MONODESMETHYL-ISOPROTURON	µg/L						X																		
SQ_MONURON	µg/L						X																		
SQ_MYCOPHENSAUERE	µg/L						X																		
SQ_N-(4-AMINOPHENYL)-N-METHYL-ACETAMID	µg/L						X																		
SQ_N4 -ACETYLSULFADIAZIN	µg/L						X																		
SQ_N4 -ACETYLSULFADIMETHOXIN	µg/L						X																		
SQ_N4-ACETYLSULFATHIAZOL	µg/L						X																		
SQ_N-ACETYL-4-AMINOANTIPYRIN	µg/L						X																		
SQ_N-ACETYLSULFAMETHAZIN	µg/L						X																		
SQ_NAPROPAMID	µg/L						X																		
SQ_NAPROXEN	µg/L						X																		
SQ_NEOTAM	µg/L						X																		
SQ_NICOSULFURON	µg/L						X																		
SQ_NN-DIMETHYLDICYLAMIN N-OXID	µg/L						X																		
SQ_NN-DIMETHYL-N'(4-METHYLPHENYL)SULFAMI	µg/L						X																		
SQ_ORBENCARB	µg/L						X																		
SQ_OSELTAMIVIR	µg/L						X																		
SQ_OSELTAMIVIR-CARBOXYLAT	µg/L						X																		
SQ_OXAZEPAM	µg/L						X																		
SQ_OXCARBAZEPIN	µg/L						X																		
SQ_PARACETAMOL	µg/L						X																		
SQ_PETHOXAMID	µg/L						X																		
SQ_PHENAZON	µg/L						X																		
SQ_PIRIMICARB	µg/L						X																		
SQ_PRAVASTATIN	µg/L						X																		
SQ_PREDNISOLON	µg/L						X																		
SQ_PRIMIDON	µg/L						X																		
SQ_PROCHLORAZ	µg/L						X																		
SQ_PROPACHLOR	µg/L						X																		
SQ_PROPACHLOR-ESA	µg/L						X																		
SQ_PROPACHLOR-OXA	µg/L						X																		
SQ_PROPANOLOL	µg/L						X																		
SQ_PROPAQUIZAFOP	µg/L						X																		
SQ_PROPICONAZOL	µg/L						X																		
SQ_PROSULFOCARB	µg/L						X																		
SQ_PYRACLOSTROBIN	µg/L						X																		
SQ_PYRIMETHANIL	µg/L						X																		
SQ_PYRIMIDINOL	µg/L						X																		
SQ_RANITIDIN	µg/L						X																		
SQ_RIMSULFURON	µg/L						X																		
SQ_RITALINSAEURE	µg/L						X																		
SQ_RIVASTIGMIN	µg/L						X																		
SQ_ROSUVASTATIN	µg/L						X																		
SQ_ROXITHROMYCIN	µg/L						X																		
SQ_SACCHARIN	µg/L						X																		
SQ_SITAGLIPTIN	µg/L						X																		
SQ_SOTALOL	µg/L						X																		
SQ_SPIROXAMIN	µg/L						X																		
SQ_SUCRALOSE	µg/L						X																		
SQ_SULCOTRION	µg/L						X																		
SQ_SULCOTRION-CMBA	µg/L						X																		
SQ_SULFADIAZIN	µg/L						X																		
SQ_SULFADIMETHOXIN	µg/L						X																		
SQ_SULFAMETHAZIN	µg/L						X																		
SQ_SULFAMETHOXAZOL	µg/L						X																		
SQ_SULFAPYRIDIN	µg/L						X																		
SQ_SULFATHIAZOL	µg/L						X																		
SQ_SUM IOMEPROL und IOPAMIDOL	µg/L						X																		

			SQ_SUM_1-OH-/4-OH-BENZOTRIAZOL	µg/L						X													
			SQ_SUM_2-HYDROXYATRAZIN_und_SIMETON	µg/L						X													
			SQ_SUM_5-ME-/1-ME-BENZOTRIAZOL/2-AMINOB.	µg/L						X													
			SQ_SUM_ACETOCHLOR_und_ALACHLOR	µg/L						X													
			SQ_SUM_ALACHLOR-ESA_und_ACETOCHLOR-ESA	µg/L						X													
			SQ_SUM_ALACHLOR-OXA_und_ACETOCHLOR-OXA	µg/L						X													
			SQ_SUM_CYCLOPHOSPHAMID_und_IFOSFAMID	µg/L						X													
			SQ_SUM_DESETHYLTERBUT-2-OH/SIMAZIN-2-OH	µg/L						X													
			SQ_SUM_DICAMBA_und_2,4-D	µg/L						X													
			SQ_SUM_MECOPROP_UND_CLOFIBRINSAEURE	µg/L						X													
			SQ_SUM_N-ME-N-PHE-ACETAMID/DIME-PHE-FO	µg/L						X													
			SQ_SUM_O,N-/ N,N-DIDESVENLAFAXIN	µg/L						X													
			SQ_SUM_O-/ N-DESVENLAFAXIN/TRAMADOL	µg/L						X													
			SQ_SUM_PHENMEDIPHAM_und_DESMEDIPHAM	µg/L						X													
			SQ_SUM_PROMETON_und_TERBUMETON	µg/L						X													
			SQ_SUM_PROPAZIN-2-OH/TERBUT.-2-OH/ATRATO	µg/L						X													
			SQ_SUM_RANITIDIN-S-OXID_und_-N-OXID	µg/L						X													
			SQ_SUM_TERBUTHYLAZIN_und_PROPAZIN	µg/L						X													
			SQ_SUM_TERBUTRYN_und_PROMETRYN	µg/L						X													
			SQ_TEBUCONAZOL	µg/L						X													
			SQ_TEBUTAM	µg/L						X													
			SQ_THIFENSULFURON-METHYL	µg/L						X													
			SQ_THIOPENTAL	µg/L						X													
			SQ_TOLUOL-4-SULFONSÄURE	µg/L						X													
			SQ_TRICLOSAN	µg/L						X													
			SQ_TRIMETHOPRIM	µg/L						X													
			SQ_TRIMIPRAMIN	µg/L						X													
			SQ_TRINEXAPAC-ETHYL	µg/L						X													
			SQ_TRITOSULFURON	µg/L						X													
			SQ_VALGANCICLOVIR	µg/L						X													
			SQ_VALSARTAN	µg/L						X													
			SQ_VALSARTANSAEURE	µg/L						X													
			SQ_VENLAFAXIN	µg/L						X													
			SQ_VERAPAMIL	µg/L						X													
		ORG_MIKRO_613_S	COFFEIN	µg/L						X													
			CROPROPAMID	µg/L						X													
			CROTAMITON	µg/L						X													
			CROTETAMID	µg/L						X													
			DIGLYME	µg/L						X													
			GALAXOLID	µg/L						X													
			SURFYNOL_104	µg/L						X													
			TONALID	µg/L						X													
		PESTIZIDE_613_S	2,6-DICHLORBENZAMID	µg/L						X													
			ALACHLOR	µg/L						X													
			ATRAZIN	µg/L						X													
			AZINPHOS-ETHYL	µg/L						X													
			AZINPHOS-METHYL	µg/L						X													
			CHLORFENVINPHOS	µg/L						X													
			CHLORPYRIFOS-ETHYL	µg/L						X													
			CHLORPYRIFOS-METHYL	µg/L						X													
			DEET	µg/L						X													
			DESETHYLATRAZIN	µg/L						X													
			DESETHYLTERBUTHYLAZIN	µg/L						X													
			DESISOPROPYLATRAZIN	µg/L						X													
			DESMETRYN	µg/L						X													
			DIAZINON	µg/L						X													
			DIMETHENAMID	µg/L						X													
			ETHOFUMESAT	µg/L						X													
			FENAMIDON	µg/L						X													
			FENITROTHION	µg/L						X													
			FENPROPIMORPH	µg/L						X													
			IPRODION	µg/L						X													
			IRGAROL	µg/L						X													
			ISO-CHLORIDAZON	µg/L						X													
			MALATHION	µg/L						X													
			METALAXYL	µg/L						X													
			METAZACHLOR	µg/L						X													
			METOLACHLOR	µg/L						X													
			MOSCHUS-XYLOL	µg/L						X													
			ORBENCARB	µg/L						X													
			PARATHION-ETHYL	µg/L						X													
			PARATHION-METHYL	µg/L						X													
			PENCONAZOL	µg/L						X													
			PIRIMICARB	µg/L						X													
			PROPAZIN	µg/L						X													
			PROPETAMPHOS	µg/L						X													
			PROPYZAMID	µg/L						X													
			PROSULFOCARB	µg/L						X													
			QUINALPHOS	µg/L						X													
			SIMAZIN	µg/L						X													
			TEBUTAM	µg/L						X													
			TERBUMETON	µg/L						X													
			TERBUTHYLAZIN	µg/L						X													
			TERBUTRYN	µg/L						X													
			TOLCLOPHOS-METHYL	µg/L						X													
			TOLYLFLUANID	µg/L						X													
			TRIAZOPHOS	µg/L						X													
			TRIFLURALIN	µg/L						X													
			VINCLOZOLIN	µg/L						X													
		SCREENING_611_S	ANZ. BEFUNDE > 0,2 µg/L	Stk						X													
	1M_PMS	NUKLIDE_023_AS	TRITIUM	Bq/L					X														
	1M14_MS	AMMONIUM_430_AS	AMMONIUM(N)	mg/L							X												
		IKSR_613_S	2,4-DIMETHYLANILIN	µg/L								X											
			2,6-DIMETHYLANILIN	µg/L								X											
			2-CHLORANILIN	µg/L								X											
			2-CHLORNITROBENZOL	µg/L								X											
			3,4-DICHLORANILIN	µg/L								X											
			3-CHLORANILIN	µg/L								X											
			4-CHLORANILIN	µg/L								X											
			N,N-DIETHYLANILIN	µg/L								X											
			N,N-DIMETHYLANILIN	µg/L								X											
			NITROBENZOL	µg/L								X											
		ORBITRAP_GROSS_669_AS	ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT									X										
			ACESULFAM	µg/L									X										
			1,2B.(4,4°DINITRO2,2°DISULFOS.)STYROLOX.	µg/L									X										
			2,4-D	µg/L									X										
			2,4-DIMETHYLPHENYLFORMAMID	µg/L									X										
			2,6-DICHLORBENZAMID	µg/L									X										
			2,7-NAPHTHALINDISULFONSAEURE	µg/L									X										
			2°,2^-DIFLUORDEOXYURIDIN	µg/L									X										
			2°,3^-DIACETAT-5^-DEOXY-5-FLUORCYTIDIN	µg/L									X										
			2-AMINO-4-METHOXY-6-METHYL-1,3,5-TRIAZIN	µg/L									X										
			2-AMINO-5-NITROPHENOL	µg/L									X										
			2-AMINOBENZIMIDAZOL	µg/L									X										
			2-AMINOSULFONYL-BENZOESAEURE-METHYLESTER	µg/L									X										
			2-HYDROXY-4-METHOXYBENZOPHENON	µg/L									X										
			2-HYDROXYATRAZIN	µg/L									X										
			2-HYDROXYSIMAZIN	µg/L									X										
			2-NAPHTHALINSULFONSAEURE	µg/L									X										
			2-N-OCTYL-4-ISOTHIAZOLIN-3-ON	µg/L									X										
			3,5,6-TRICHLOR-2-PYRIDINOL	µg/L									X										
			3,5-DIBROM-4-HYDROXYBENZOESAEURE	µg/L									X										
			3-PHENOXYBENZOESAEURE	µg/L									X										
			4-(TRIFLUORMETHYL)PHENOL	µg/L									X										
			4,5-DICHLOR-2-N-OCTYL-3(2H)-ISOTHIAZOLON	µg/L									X										
			4-AMINODIPHENYLETHER	µg/L									X										
			4-AMINOPYRIN	µg/L									X										
			4-CHLOR-2-METHYLPHENOL	µg/L									X										
			4-DIMETHYLAMINO-ANTIPYRIN	µg/L									X										
			4-DIMETHYLAMINOPYRIDIN	µg/L									X										
			4-FLUORPHENYLESSIGSÄURE	µg/L									X										
			4-FORMYL-AMINOANTIPYRIN	µg/L									X										
			4-ISOPROPYLANILIN	µg/L									X										
			5-METHYL-BENZOTRIAZOL	µg/L									X										
			7-DIETHYLAMINO-4-METHYLCOUMARIN	µg/L									X										
			ACETOCHLOR-OXA	µg/L									X										
			ACETYLSULFAMETHOXAZOL	µg/L									X										
			ALACHLOR-OXA	µg/L									X										
			ALBUTEROL	µg/L									X										
			ALDICARB	µg/L									X										
			ALKOPHEN-ACIDO-LAKTON	µg/L									X										
			AMIDOPH	µg/L									X										
			AMISULPRID	µg/L									X										
			ASULAM	µg/L									X										
			ATENOLOL	µg/L									X										
			ATENOLOLSAEURE	µg/L									X										
			ATOMOXETIN	µg/L									X										
			ATORVASTATIN	µg/L									X										
			ATRATON	µg/L									X										
			ATRAZIN	µg/L									X										
			AZITHROMYCIN	µg/L									X										
			AZOXYSTROBIN	µg/L									X										
			AZOXYSTROBINSAEURE	µg/L									X										
			BENTAZON	µg/L									X										
			BENZAMIDIN	µg/L									X										
			BENZISOTHIAZOLIN-3-ON	µg/L									X										
			BENZOTHIAZOL	µg/L									X										
			BENZOTRIAZOL	µg/L									X										
			BEZAFIBRAT	µg/L									X										
			BICALUTAMID	µg/L									X										
			BIFENOXSAEURE	µg/L									X										
			BROMACIL	µg/L									X										

BROMOXYNIL	µg/L								X												
BRONOPOL	µg/L								X												
BUPROPION	µg/L								X												
CANDESARTAN	µg/L								X												
CAPECITABIN	µg/L								X												
CARBAMAZEPIN	µg/L								X												
CARBAMAZEPIN-10,11DIHYDRO-10,11DIHYDROXY	µg/L								X												
CARBAMAZEPIN-10,11-EPOXID	µg/L								X												
CARBENDAZIM	µg/L								X												
CARBETAMID	µg/L								X												
CETIRIZIN	µg/L								X												
CHLORIDAZON	µg/L								X												
CHLORTHALONIL-4-HYDROXYCARBONSAEUREAMID	µg/L								X												
CHLORTOLURON	µg/L								X												
CILASTATIN	µg/L								X												
CITALOPRAM	µg/L								X												
CLARITHROMYCIN	µg/L								X												
CLIMBAZOL	µg/L								X												
CLINDAMYCIN	µg/L								X												
CLOFIBRINSAEURE	µg/L								X												
CLOMAZON	µg/L								X												
CLOPIDOGRELSAEURE	µg/L								X												
CLOTRIMAZOL	µg/L								X												
CODEIN	µg/L								X												
COFFEIN	µg/L								X												
CYCLOHEXYLSULFAMIDSAEURE	µg/L								X												
CYCLOPHOSPHAMID	µg/L								X												
CYMOXANIL	µg/L								X												
CYPROCONAZOL	µg/L								X												
CYPRODINIL	µg/L								X												
CYTARABIN	µg/L								X												
D617	µg/L								X												
DEET	µg/L								X												
DEFERASIROX	µg/L								X												
DESAMINO-METAMITRON	µg/L								X												
DESAMINOMETRIBUZIN	µg/L								X												
DESCYCLOPROPYL-IRGAROL	µg/L								X												
DESDIMETHYLDIURON	µg/L								X												
DESETHYL-2-HYDROXYTERBUTHYLAZIN	µg/L								X												
DESETHYLATRAZIN	µg/L								X												
DESETHYLTERBUTHYLAZIN	µg/L								X												
DESISOPROPYLATENOLOL	µg/L								X												
DESISOPROPYLATRAZIN	µg/L								X												
DESMONOMETHYLDIURON	µg/L								X												
DESPHENYLCHLORIDAZON	µg/L								X												
DEXAMETHASON	µg/L								X												
DIAZEPAM	µg/L								X												
DIAZINON	µg/L								X												
DIAZOXON	µg/L								X												
DICAMBA	µg/L								X												
DICHLORPROP	µg/L								X												
DICLOFENAC	µg/L								X												
DIDESMETHYL-ISOPROTURON	µg/L								X												
DIFLUFENICAN	µg/L								X												
DIMETHACHLOR	µg/L								X												
DIMETHACHLOR-ESA	µg/L								X												
DIMETHACHLOR-OXA	µg/L								X												
DIMETHENAMID	µg/L								X												
DIMETHENAMID-ESA	µg/L								X												
DIMETHENAMID-OXA	µg/L								X												
DIMETHOAT	µg/L								X												
DIMETHYLAMINOSULFANILID	µg/L								X												
DINOSEB	µg/L								X												
DIURON	µg/L								X												
DRONEDARON	µg/L								X												
EPOXYCONAZOL	µg/L								X												
EPROSARTAN	µg/L								X												
ERYTHROMYCIN	µg/L								X												
ETHOFUMESAT	µg/L								X												
EXEMESTAN	µg/L								X												
FENOFIBRAT	µg/L								X												
FENOFIBRINSAEURE	µg/L								X												
FENPROPIMORPH	µg/L								X												
FIPRONIL	µg/L								X												
FIPRONIL-SULFID	µg/L								X												
FIPRONIL-SULFON	µg/L								X												
FLUAZIFOP	µg/L								X												
FLUCONAZOL	µg/L								X												
FLUDIOXONIL	µg/L								X												
FLUFENACET	µg/L								X												
FLUFENACET-ESA	µg/L								X												
FLUFENACET-OXA	µg/L								X												
FLUOXETIN	µg/L								X												
FLUROXYPYR	µg/L								X												
FLUSILAZOL	µg/L								X												
FORAMSULFURON	µg/L								X												
FUROSEMID	µg/L								X												
GABAPENTIN	µg/L								X												
GALAXOLIDON	µg/L								X												
GEMCITABIN	µg/L								X												
GENTAMICIN	µg/L								X												
HEXAZINON	µg/L								X												
HYDROCHLORTHIAZID	µg/L								X												
HYDROXY-DESISOPROPYLPROMETON	µg/L								X												
IBUPROFEN	µg/L								X												
IFOSFAMID	µg/L								X												
IMIDACLOPRID	µg/L								X												
IMINOSTILBEN	µg/L								X												
INDOMETHACIN	µg/L								X												
IODOCARB	µg/L								X												
IOHEXOL	µg/L								X												
IOPROMID	µg/L								X												
IOXYNIL	µg/L								X												
IRGAROL	µg/L								X												
ISOPROTURON	µg/L								X												
KETOPROFEN	µg/L								X												
KRESOXIM-METHYL	µg/L								X												
LAMOTRIGIN	µg/L								X												
LEVAMISOL	µg/L								X												
LEVETIRACETAM	µg/L								X												
LIDOCAIN	µg/L								X												
LINURON	µg/L								X												
LOSARTAN	µg/L								X												
MCPA	µg/L								X												
MCPB	µg/L								X												
MECOPROP	µg/L								X												
MEFENAMINSAEURE	µg/L								X												
MESOTRION	µg/L								X												
MESOTRION-MNBA	µg/L								X												
METALAXYL	µg/L								X												
METAMITRON	µg/L								X												
METAZACHLOR	µg/L								X												
METAZACHLOR-ESA	µg/L								X												
METAZACHLOR-OXA	µg/L								X												
METFORMIN	µg/L								X												
METHYLDESPHENYLCHLORIDAZON	µg/L								X												
METHYLMETSULFURON	µg/L								X												
METHYLPREDNISOLON	µg/L								X												
METOCLOPRAMID	µg/L								X												
METOLACHLOR	µg/L								X												
METOLACHLOR-ESA	µg/L								X												
METOLACHLOR-MORPHOLINON	µg/L								X												
METOLACHLOR-OXA	µg/L								X												
METOPROLOL	µg/L								X												
METRIBUZIN	µg/L								X												
METRIBUZIN-DIKETO	µg/L								X												
METRONIDAZOL	µg/L								X												
MOCLOBEMID	µg/L								X												
MONODESMETHYL-ISOPROTURON	µg/L								X												
MONURON	µg/L								X												
MYCOPHENSAUERE	µg/L								X												
MYCOPHENSÄURE	µg/L								X												
N-(2,4-DIMETHYLPHENYL)N-METHYLFORMAMIDIN	µg/L								X												
N-(4-AMINOPHENYL)-N-METHYL-ACETAMID	µg/L								X												
N,N-DIDESVENLAFAXIN	µg/L								X												
N,N-DIMETHYL-N'(4-METHYLPHENYL)-SULFAMID	µg/L								X												
N4_ACETYLSULFADIAZIN	µg/L								X												
N4_ACETYLSULFADIMETHOXIN	µg/L								X												
N4-ACETYLSULFATHIAZOL	µg/L								X												
N-ACETYL-4-AMINOANTIPYRIN	µg/L								X												
N-ACETYLSULFAMETHAZIN	µg/L								X												
NAPROPAMID	µg/L								X												
NAPROXEN	µg/L								X												
N-DESVENLAFAXIN	µg/L								X												
NEOTAM	µg/L								X												
NICOSULFURON	µg/L								X												
N-METHYL-BENZOTRIAZOL	µg/L								X												
N-METHYL-N-PHENYL-ACETAMID	µg/L								X												
NN-DIMETHYLDICYLAMIN N-OXID	µg/L								X												
O,N-DIDESVENLAFAXIN	µg/L								X												
ORBENCARB	µg/L								X												
OSELTAMIVIR	µg/L								X												

			OSELTAMIVIR-CARBOXYLAT	µg/L								X										
			OXAZEPAM	µg/L								X										
			OXCARBAZEPIN	µg/L								X										
			PARACETAMOL	µg/L								X										
			PENDIMETHALIN	µg/L								X										
			PETHOXAMID	µg/L								X										
			PHENAZON	µg/L								X										
			PICOLINAFEN	µg/L								X										
			PIRIMICARB	µg/L								X										
			PRAVASTATIN	µg/L								X										
			PREDNISOLON	µg/L								X										
			PRIMIDON	µg/L								X										
			PROCHLORAZ	µg/L								X										
			PROPACHLOR	µg/L								X										
			PROPACHLOR-ESA	µg/L								X										
			PROPACHLOR-OXA	µg/L								X										
			PROPANOLOL	µg/L								X										
			PROPAQUIZAFOP	µg/L								X										
			PROPICONAZOL	µg/L								X										
			PROSULFOCARB	µg/L								X										
			PYRACLOSTROBIN	µg/L								X										
			PYRIMETHANIL	µg/L								X										
			PYRIMIDINOL	µg/L								X										
			QUINOXYFEN	µg/L								X										
			RANITIDIN	µg/L								X										
			RANITIDIN-N-OXID	µg/L								X										
			RANITIDIN-S-OXID	µg/L								X										
			RIMSULFURON	µg/L								X										
			RITALINSAEURE	µg/L								X										
			RITONAVIR	µg/L								X										
			RIVASTIGMIN	µg/L								X										
			ROSUVASTATIN	µg/L								X										
			ROXITHROMYCIN	µg/L								X										
			SACCHARIN	µg/L								X										
			SIMAZIN	µg/L								X										
			SIMETON	µg/L								X										
			SITAGLIPTIN	µg/L								X										
			SOTALOL	µg/L								X										
			SPIROXAMIN	µg/L								X										
			SUCRALOSE	µg/L								X										
			SULCOTRION	µg/L								X										
			SULCOTRION-CMBA	µg/L								X										
			SULFADIAZIN	µg/L								X										
			SULFADIMETHOXIN	µg/L								X										
			SULFAMETHAZIN	µg/L								X										
			SULFAMETHOXAZOL	µg/L								X										
			SULFAPYRIDIN	µg/L								X										
			SULFATHIAZOL	µg/L								X										
			SUMME IOMEPROL und IOPAMIDOL	µg/L								X										
			SUMME_1-HYDROXY-/4-HYDROXY-BENZOTRIAZOL	µg/L								X										
			SUMME_2-HYDR.PROPAZIN_und_2-HYDR.TERBUT.	µg/L								X										
			SUMME_ACETOCHLOR_und_ALACHLOR	µg/L								X										
			SUMME_ALACHLOR-ESA_und_ ACETOCHLOR-ESA	µg/L								X										
			SUMME_O-DESVENLAFAXIN_und_TRAMADOL	µg/L								X										
			SUMME_PHENMEDIPHAM_und_DESMEDIPHAM	µg/L								X										
			SUMME_PROMETON_und_TERBUMETON	µg/L								X										
			SUMME_TERBUTRYN_und_PROMETRYN	µg/L								X										
			TACROLIMUS_FK-506	µg/L								X										
			TEBUCONAZOL	µg/L								X										
			TEBUTAM	µg/L								X										
			TERBUTHYLAZIN	µg/L								X										
			TETRAZOLYLVALAMID	µg/L								X										
			THIFENSULFURON-METHYL	µg/L								X										
			THIOPENTAL	µg/L								X										
			TIZANIDIN	µg/L								X										
			TOLUOL-4-SULFONSÄURE	µg/L								X										
			TRICLOSAN	µg/L								X										
			TRIMETHOPRIM	µg/L								X										
			TRIMIPRAMIN	µg/L								X										
			TRINEXAPAC-ETHYL	µg/L								X										
			TRITOSULFURON	µg/L								X										
			TYLOSIN	µg/L								X										
			VALGANCICLOVIR	µg/L								X										
			VALSARTAN	µg/L								X										
			VALSARTANSAEURE	µg/L								X										
			VENLAFAXIN	µg/L								X										
			VERAPAMIL	µg/L								X										
	SAK_315_AS		SAK-254	1/m							X											
			SAK-436	1/m							X											
E14_MK	KIESELSAEURE_FREI_731_S		KIESELSAEURE_FREI(SI)	mg/L											X							
E14_MS	ALKYLPHENOLE_667_S		BISPHENOL-A	µg/L												X						
			NONYLPHENOL	µg/L												X						
			OCTYLPHENOL	µg/L												X						
	AMMONIUM_430_AS		AMMONIUM(N)	mg/L												X						
	DOC_224_S		DOC	mg/L												X						
	NITRIT_510_S		NITRIT(N)	mg/L												X						
	O-PHOSPHAT_241_S		O-PHOSPHAT(P)(UV-DRP)	mg/L												X						
	TN_224_S		GESAMTSTICKSTOFF	mg/L												X						
E28_MK	METALLE_HG_GEL_712_AS		ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT																X		
			BROMATAUFSCHLUSS	ERLEDIGT																X		
			QUECKSILBER(GEL)	µg/L																X		
			UV-AUFSCHLUSS	ERLEDIGT																X		
			ZENTRIFUGATION_FILTRATION_0.45_MIKROM	ERLEDIGT																X		
	METALLE_OFG_GSCHV_GEL_760_S		ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT																X		
			ARSEN(GEL)	µg/L																X		
			BLEI(GEL)	µg/L																X		
			BOR(GEL)	µg/L																X		
			CADMIUM(GEL)	µg/L																X		
			CHROM(GEL)	µg/L																X		
			KUPFER(GEL)	µg/L																X		
			NICKEL(GEL)	µg/L																X		
			ZENTRIFUGATION_FILTRATION_0.45_MIKROM	ERLEDIGT																X		
			ZINK(GEL)	µg/L																X		
E84_MS	PERFLUORIERTE_TENSIDE_664_S		PFBA_PERFLUORBUTANSAEURE	µg/L															X			
			PFBS_PERFLUORBUTANSULFONSAEURE	µg/L															X			
			PFDA_PERFLUORDEKANSAEURE	µg/L															X			
			PFDDA_PERFLUORDODEKANSAEURE	µg/L															X			
			PFHA_PERFLUORHEXANSAEURE	µg/L															X			
			PFHPA_PERFLUORHEPTANSAEURE	µg/L															X			
			PFHS_PERFLUORHEXANSULFONSAEURE	µg/L															X			
			PFNA_PERFLUORNONANSAEURE	µg/L															X			
			PFOA_PERFLUOROCTANSAEURE	µg/L															X			
			PFOS_PERFLUOROCTANSULFONSAEURE	µg/L															X			
			PFPEA_PERFLUORPENTANSAEURE	µg/L															X			
14M_MK	ANIONEN_510_S		ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT			X															
			BROMID	mg/L			X															
			CHLORID	mg/L			X															
			FLUORID	mg/L			X															
			NITRAT(N)	mg/L			X															
			NITRIT(N)	mg/L			X															
			O-PHOSPHAT(P)(IC)	mg/L			X															
			SULFAT	mg/L			X															
			SULFIT	mg/L			X															
	DOC_224_S		DOC	mg/L		X																
	GES-PHOSPHOR_241_S		PHOSPHOR(GES)	mg/L			X															
	GUS_340_AS		GUS	mg/L		X																
	HAERTE_GESAMT_326_S		ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT			X															
			GESAMTHAERTE	GRAD_dH			X															
			GESAMTHAERTE(BER)	GRAD_dH			X															
	HAERTE_KARBONAT_326_S		ALKALINITAET(PH=4.5)	mMol H_3O^+/L			X															
			KARBONATHAERTE	GRAD_dH			X															
	KATIONEN_IC_410_S		ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT			X															
			CALCIUM(GES)	mg/L			X															
			KALIUM(GES)	mg/L			X															
			MAGNESIUM(GES)	mg/L			X															
			NATRIUM(GES)	mg/L			X															
	KIESELSAEURE_FREI_731_S		KIESELSAEURE_FREI(SI)	mg/L			X															
	METALLE_HG_GES_712_AS		ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT				X														
			BROMATAUFSCHLUSS	ERLEDIGT				X														
			QUECKSILBER(GES)	µg/L				X														
			SAURER_AUSZUG	ERLEDIGT				X														
			SAURER_AUSZUG_SPEZ	ERLEDIGT				X														
			UV-AUFSCHLUSS	ERLEDIGT				X														
	METALLE_OFG_GSCHV_GES_760_S		ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT				X														
			ARSEN(GES)	µg/L				X														
			BLEI(GES)	µg/L				X														
			BOR(GES)	µg/L				X														
			CADMIUM(GES)	µg/L				X														
			CHROM(GES)	µg/L				X														
			KUPFER(GES)	µg/L				X														
			NICKEL(GES)	µg/L				X														
			SAURER_AUSZUG	ERLEDIGT				X														
			SAURER_AUSZUG_SPEZ	ERLEDIGT				X														
			ZINK(GES)	µg/L				X														
	O-PHOSPHAT_241_S		O-PHOSPHAT(P)(UV-DRP)	mg/L			X															
	TN_224_S		GESAMTSTICKSTOFF	mg/L		X																
	TOC_224_S		TOC	mg/L		X																
28M_MS	KOMPLEX_650_S		DTPA	µg/L									X									
			EDTA	µg/L									X									
			NTA	µg/L									X									

		SCHWEBSTOFFE																					
SCHWE	SAMMELPROBE	PROBENNAHME_SCHWEB_RUES_808_P	ABFLUSS_ANFANG	m3/s																		X
			ABFLUSS_ENDE	m3/s																		X
			DAUER	Stunden																		X
			DURCHFLUSS_ZENTRIFUGE	L/Min																		X
			KOMMENTAR	-																		X
			PROBENNAHMEDATUM_ANFANG	MM.YY-HH24:MI																		X
			PROBENNAHMEDATUM_ENDE	MM.YY-HH24:MI																		X
			PROBENNEHMER	-																		X
			SCHWEBSTOFFGEHALT	mg/L																		X
			WASSERVOLUMEN	L																		X
		GEFRIERTROCKNUNG_016_F	GEFRIERTROCKNUNG	ERLEDIGT																		X
			NASSGEWICHT	g																		X
			TROCKENGEWICHT	g																		X
			TROCKENSUBSTANZ	%																		X
		KOMMENTAR_020_ASF	KOMMENTAR	-																		X
		BROMIERTE_DIPHENYLETHER_619_F	KOMMENTAR	-																		X
		METALLE_HG_GES_712_F	ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT																		X
			BORATSCHMELZE	ERLEDIGT																		X
			MIKROWELLENAUFSCHLUSS	ERLEDIGT																		X
			QUECKSILBER(GES)	mg/kg_TS																		X
			SAURER_AUSZUG	ERLEDIGT																		X
			SAURER_AUSZUG_SPEZ	ERLEDIGT																		X
		METALLE_SCHWEB_GES_760_F	ALLE_RESULTATE_EINGEGEBEN	ERLEDIGT																		X
			ARSEN(GES)	mg/kg_TS																		X
			BLEI(GES)	mg/kg_TS																		X
			CADMIUM(GES)	mg/kg_TS																		X
			CHROM(GES)	mg/kg_TS																		X
			EISEN(GES)	mg/kg_TS																		X
			KUPFER(GES)	mg/kg_TS																		X
			MANGAN(GES)	mg/kg_TS																		X
			MIKROWELLENAUFSCHLUSS	ERLEDIGT																		X
			NICKEL(GES)	mg/kg_TS																		X
			PHOSPHOR(GES)	mg/kg_TS																		X
			ZINK(GES)	mg/kg_TS																		X
		NUKLIDE_ARE_023_ASF	div. Nuklide	Bq/kg_TS																		X
		ORGANOZINN_616_F	DIBUTYLZINNKATION	µg/kg_TS																		X
			DIOCTYLZINNKATION	µg/kg_TS																		X
			MONOBUTYLZINNKATION	µg/kg_TS																		X
			MONOOCTYLZINNKATION	µg/kg_TS																		X
			TETRABUTYLZINNVERBINDUNG	µg/kg_TS																		X
			TRIBUTYLZINNKATION	µg/kg_TS																		X
			TRICYCLOHEXYLZINNKATION	µg/kg_TS																		X
			TRIPHENYLZINNKATION	µg/kg_TS																		X
		PAK_655_F	ACENAPHTEN(ANE)	mg/kg_TS																		X
			ACENAPHTHYLEN(ANY)	mg/kg_TS																		X
			ANTHRACEN(ANT)	mg/kg_TS																		X
			BENZO(A)ANTHRACEN(BAA)	mg/kg_TS																		X
			BENZO(A)PYREN(BAP)	mg/kg_TS																		X
			BENZO(B)FLUORANTHEN(BBF)	mg/kg_TS																		X
			BENZO(GHI)PERYLEN(BGHI)	mg/kg_TS																		X
			BENZO(K)FLUORANTHEN(BKF)	mg/kg_TS																		X
			CHRYSEN(CHR)	mg/kg_TS																		X
			DIBENZ(A,H)ANTHRACEN(DBAHA)	mg/kg_TS																		X
			FLUORANTHEN(FLA)	mg/kg_TS																		X
			FLUOREN(FLU)	mg/kg_TS																		X
			INDENO(1,2,3,CD)PYREN(ICDP)	mg/kg_TS																		X
			NAPHTHALIN(NAP)	mg/kg_TS																		X
			PHENANTHREN(PHE)	mg/kg_TS																		X
			PYREN(PYR)	mg/kg_TS																		X
			SUMME_PAK	mg/kg_TS																		X
		PHTHALATE_662_F	DEHP	µg/kg_TS																		X
			DIBUTYLPHTHALAT	µg/kg_TS																		X
		SCHORGANOCHLOR_622_F	1,2,3-TRICHLORBENZOL	µg/kg_TS																		X
			1,2,4-TRICHLORBENZOL	µg/kg_TS																		X
			1,3,5-TRICHLORBENZOL	µg/kg_TS																		X
			1,4-DICHLORBENZOL	µg/kg_TS																		X
			ALDRIN	µg/kg_TS																		X
			ALPHA-ENDOSULFAN	µg/kg_TS																		X
			ALPHA-HCH	µg/kg_TS																		X
			BETA-ENDOSULFAN	µg/kg_TS																		X
			BETA-HCH	µg/kg_TS																		X
			CIS-CHLORDANE	µg/kg_TS																		X
			DELTA-HCH	µg/kg_TS																		X
			DIELDRIN	µg/kg_TS																		X
			ENDRIN	µg/kg_TS																		X
			EPSILON-HCH	µg/kg_TS																		X
			GAMMA-HCH	µg/kg_TS																		X
			HEPTACHLOR	µg/kg_TS																		X
			HEPTACHLOR-ENDO-EPOXID	µg/kg_TS																		X
			HEPTACHLOR-EXO-EPOXID	µg/kg_TS																		X
			HEXACHLORBENZOL	µg/kg_TS																		X
			ISODRIN	µg/kg_TS																		X
			METHOXYCHLOR	µg/kg_TS																		X
			O,P-DDD	µg/kg_TS																		X
			O,P-DDE	µg/kg_TS																		X
			O,P-DDT	µg/kg_TS																		X
			OXY-CHLORDANE	µg/kg_TS																		X
			P,P-DDD	µg/kg_TS																		X
			P,P-DDE	µg/kg_TS																		X
			P,P-DDT	µg/kg_TS																		X
			PCB-101	µg/kg_TS																		X
			PCB-118	µg/kg_TS																		X
			PCB-138	µg/kg_TS																		X
			PCB-153	µg/kg_TS																		X
			PCB-170	µg/kg_TS																		X
			PCB-180	µg/kg_TS																		X
			PCB-28	µg/kg_TS																		X
			PCB-52	µg/kg_TS																		X
			PENTACHLORANISOL	µg/kg_TS																		X
			PENTACHLORBENZOL	µg/kg_TS																		X
			TRANS-CHLORDANE	µg/kg_TS																		X
		TOC_221_F	TOC	g/kg_TS																		X
			TOC_%	%																		X

Anhang 2 Zusammenstellung niedriger Befunde im GC/MS-Screening

JAHRESDATEN 2012 RHEINÜBERWACHUNGSSTATION WEIL AM RHEIN

Zusammenstellung von niedrigen Befunden im GC/MS-Screening

Die Befunde sind durch Angabe des linearen Retentionsindex RI (ähnlich dem Kovats-Index) chromatografisch beschrieben.
Konzentrationen sind in Mikrogrammaequivalenten von ^{13}C-Coffein pro L angegeben und entsprechen den Flächenäquivalente bezogen von ^{13}C-Coffein (interner Standard).
Für alle Substanzen ist die Anzahl der Funde, der Mittelwert und der Maximalwert der Konzentrationen über 0.2 µg/L angegeben.
Die fünf intensivsten Massen der Massenspektren sind angegeben: M1 bis M5, Basismasse M1 = 100%.
Für die weiteren Massen ist die Intensität [*I2* bis *I5*] in Prozent kursiv angegeben.

RI	WAHRSCHEINLICHE VERBINDUNG AUFGRUND ÜBEREINSTIMMUNG MASSENSPEKTREN	*Anzahl Befunde (über 0.2 µg_aeq_ 13C-Coffein /L)*	*Konz - MW [µg_aeq_ 13C-Coffein /L]*	*max. Konz. [µg_aeq_ 13C-Coffein /L]*	**M1 [m/z]**	**M2 [m/z]**	*I2*	**M3 [m/z]**	*I3*	**M4 [m/z]**	*I4*	**M5 [m/z]**	*I5*
953	Diglyme	56	0.42	0.91	**59**	**58**	*56*	**45**	*22*	**89**	*21*	**31**	*16*
954	Acetoxypropen	3	0.25	0.27	**43**	**58**	*12*	**45**	*9*	**41**	*7*	**57**	*6*
1004	1,2,4-Trimethylbenzol	1	0.21		**105**	**120**	*46*	**119**	*14*	**77**	*13*	**91**	*10*
1022	1-(2-Methoxypropoxy)-2-propanol	1	0.22		**59**	**73**	*13*	**45**	*12*	**58**	*9*	**41**	*8*
1053	3-(Trifluormethyl)anilin	11	0.27	0.53	**161**	**114**	*27*	**142**	*24*	**111**	*18*	**160**	*12*
1067	Unbekannt	1	0.21		**73**	**43**	*92*	**85**	*87*	**131**	*69*	**57**	*40*
1112	1-Ethyl-2-pyrrolidinon	1	0.29		**98**	**113**	*64*	**70**	*57*	**69**	*26*	**41**	*24*
1124	Unbekannt	1	0.22		**43**	**57**	*36*	**89**	*32*	**61**	*23*	**103**	*19*
1281	Dimethylisosorbid	8	0.37	0.68	**58**	**69**	*70*	**59**	*29*	**101**	*18*	**99**	*15*
1328	Unbekannt	15	0.24	0.31	**58**	**116**	*39*	**159**	*38*	**160**	*28*	**117**	*26*
1406	Surfynol	39	0.32	0.62	**109**	**43**	*85*	**151**	*82*	**107**	*16*	**41**	*12*
1506	Tributylphosphat	1	0.23		**99**	**57**	*22*	**155**	*14*	**41**	*10*	**139**	*8*
1523	Unbekannt	3	0.22	0.23	**144**	**43**	*55*	**101**	*45*	**71**	*44*	**102**	*34*
1581	DEET	3	0.21	0.21	**119**	**190**	*44*	**91**	*35*	**191**	*19*	**65**	*11*
1653	Octylether	1	0.41		**57**	**71**	*91*	**43**	*38*	**69**	*35*	**84**	*34*
1661	Unbekannt	1	1.50		**192**	**121**	*47*	**77**	*46*	**43**	*19*	**149**	*19*
1847	Coffein	4	0.33	0.42	**194**	**109**	*63*	**67**	*53*	**55**	*51*	**82**	*37*
2560	Triphenylphosphinoxid	1	0.33		**277**	**278**	*35*	**199**	*23*	**183**	*16*	**201**	*15*

Anhang 3 Tabelle der nachgewiesenen Verbindungen in der Wasserphase im Jahr 2012 in Weil am Rhein

NACHGEWIESENE VERBINDUNGEN IN DER WASSERPHASE IM JAHR 2012 IM RHEIN BEI WEIL AM RHEIN

METHODENGRUPPE	COMPONENT	Material Type	BESTIMMUNGSGRENZE (BG)	EINHEIT	MAXIMUM	MINIMUM	IKSR-MITTELWERTE	MITTELWERT ALLER BEFUNDE > BG	ANZAHL MESSUNGEN	ANZAHL WERTE > BG	90-Perzentil	Median	CAS-No	Grenzw. GSchV CH	Zielvorgabe IKSR (90-Perzentil)	IKSR UQN-Rhein (Mittelwert / Maximum)	Orientierungswert LAWA-Gewässertyp 10	JD-UQN (nach Entwurf BundesVO (16.03.2011, ohne evtl. neue spezifische Stoffe)) (Mittelwert)	ZHK-UQN (nach Entwurf BundesVO (16.03.2011)) (Maximum)	Zielwerte IAWR Memorandum 2008
ALLG_PARAMETER	SAK-254	1M14_MS	0.003	1/m	8.096	0.126	4.078	4.078	26	26	6.851	4.065								
ALLG_PARAMETER	SAK-436	1M14_MS	0.003	1/m	0.567	0.000	0.251	0.250	26	25	0.514	0.198								
	elektr. Leitfähigkeit	K		µS/cm	462.9	280.1		353.0												
	pH	K			8.29	7.72		7.98									6,5 - 8,5			7 - 9
	Temperatur	K		°C	24.6	1.9		12.7									< 25°C (Maximum)			< 25°
	Sauerstoffgehalt	K		mg_O2/L	14.21	7.10		10.94									> 6 (Minimum)			> 8
SUMMENPARAMETER	DOC	14M_MK	0.1	mg/L	2.54	1.40	1.81	1.80	26	26	2.26	1.74	64-85-7							
SUMMENPARAMETER	DOC	E14_MS	0.1	mg/L	2.60	1.35	1.75	1.75	26	26	2.43	1.63	64-85-7							
SUMMENPARAMETER	GUS	14M_MK	0.1	mg/L	52.0	2.70	13.6	13.5	26	26	34.8	8.00								
SUMMENPARAMETER	PHOSPHOR(GES)	14M_MK	0.003	mg/L	0.058	0.016	0.031	0.031	26	26	0.049	0.027			0.15					
SUMMENPARAMETER	GESAMTSTICKSTOFF	14M_MK	0.45	mg/L	2.10	0.996	1.39	1.39	26	26	1.71	1.34								
SUMMENPARAMETER	GESAMTSTICKSTOFF	E14_MS	0.45	mg/L	1.90	0.910	1.34	1.35	26	26	1.82	1.33								
SUMMENPARAMETER	TOC	14M_MK	0.1	mg/L	4.42	1.75	2.53	2.52	26	26	3.53	2.32					< 7 mg/l (Mittelwert)			4
HAERTE	ALKALINITAET(PH=4.5)	14M_MK	0.05	mMol_H+/L	3.09	2.29	2.76	2.76	26	26	3.06	2.79								
HAERTE	GESAMTHAERTE(BER)	14M_MK		GRAD_dH	10.3	7.75	9.13	9.13	26	26	10.1	9.19								
HAERTE	GESAMTHAERTE	14M_MK	0.5	GRAD_dH	10.3	7.75	9.14	9.14	26	26	10.1	9.15								
HAERTE	KARBONATHAERTE	14M_MK	0.25	GRAD_dH	8.83	6.55	7.87	7.87	26	26	8.74	7.95								
ANIONEN	BROMID	14M_MK	0.01	mg/L	0.195	0.046	0.096	0.096	26	26	0.153	0.083	24959-67-9							
ANIONEN	CHLORID	14M_MK	1.5	mg/L	19.6	7.81	11.2	11.2	26	26	14.6	10.2	16887-00-6				< 200 mg/l Mittelwert)			100
ANIONEN	FLUORID	14M_MK	0.03	mg/L	0.094	0.069	0.082	0.082	26	26	0.089	0.081	16984-48-8							1
ANIONEN	KIESELSAEURE_FREI(SI)	14M_MK	0.1	mg/L	2.10	0.800	1.34	1.33	26	26	1.84	1.30								
ANIONEN	KIESELSAEURE_FREI(SI)	E14_MK	0.1	mg/L	2.10	0.770	1.33	1.32	26	26	1.91	1.20								
ANIONEN	NITRAT(N)	14M_MK	0.06	mg/L	1.79	0.957	1.31	1.31	26	26	1.65	1.24	14797-55-8	5.6						5.6
ANIONEN	NITRIT(N)	E14_MS	0.004	mg/L	0.017	0.007	0.011	0.011	26	26	0.015	0.011	14797-65-0							
ANIONEN	O-PHOSPHAT(P)(UV-DRP)	14M_MK	0.003	mg/L	0.022	0.002	0.011	0.011	26	26	0.017	0.011	14265-44-2							
ANIONEN	O-PHOSPHAT(P)(UV-DRP)	E14_MS	0.003	mg/L	0.036	0.003	0.015	0.015	26	26	0.023	0.013	14265-44-2							
ANIONEN	SULFAT	14M_MK	2.5	mg/L	28.7	22.3	25.0	25.0	26	26	26.7	24.8	14808-79-8							100
KATIONEN	AMMONIUM(N)	1M14_MS	0.01	mg/L	0.062	0.015	0.034	0.034	26	26	0.047	0.029	14798-03-9			< 0,005 NH3 / < 0,01 mg/l NH3	< 0,3 mg N/l (Mittelwert)			
KATIONEN	AMMONIUM(N)	E14_MS	0.01	mg/L	0.085	0.021	0.041	0.041	26	26	0.059	0.041	14798-03-9							
KATIONEN	CALCIUM(GES)	14M_MK	7	mg/L	60.5	44.0	52.9	52.9	26	26	58.0	53.6	7440-70-2							
KATIONEN	KALIUM(GES)	14M_MK	0.5	mg/L	2.13	1.46	1.72	1.72	26	26	1.95	1.73	7440-09-7							
KATIONEN	MAGNESIUM(GES)	14M_MK	1	mg/L	8.78	6.74	7.45	7.45	26	26	8.30	7.31	7439-95-4							
KATIONEN	NATRIUM(GES)	14M_MK	2	mg/L	14.1	6.09	8.35	8.35	26	26	10.8	7.80	7440-23-5							
METALLE	ARSEN(GEL)	E28_MK	0.5	µg/L	0.870	0.620	0.745	0.745	13	13	0.832	0.770	7440-38-2							
METALLE	ARSEN(GES)	14M_MK	0.5	µg/L	0.980	0.670	0.816	0.816	26	26	0.880	0.805	7440-38-2							
METALLE	BLEI(GEL)	E28_MK	0.1	µg/L	0.230	0		0.034	13	3	0.108	0	7439-92-1							
METALLE	BLEI(GES)	14M_MK	0.1	µg/L	1.30	0	0.337	0.329	26	22	0.690	0.255	7439-92-1	10						
ELEMENTE	BOR(GEL)	E28_MK	10	µg/L	19.0	14.0	15.5	15.5	13	13	17.6	15.0	7440-42-8							
METALLE	CHROM(GEL)	E28_MK	0.2	µg/L	0.460	0		0.138	13	6	0.336	0	7440-47-3							
METALLE	CHROM(GES)	14M_MK	0.2	µg/L	0.530	0	0.293	0.285	26	24	0.470	0.260	7440-47-3	5						
METALLE	KUPFER(GEL)	E28_MK	0.5	µg/L	1.50	0.630	0.842	0.842	13	13	1.08	0.760	7440-50-8	2						
METALLE	KUPFER(GES)	14M_MK	0.5	µg/L	1.80	0.730	1.09	1.09	26	26	1.55	0.985	7440-50-8	5						
METALLE	NICKEL(GEL)	E28_MK	0.5	µg/L	0.790	0	0.551	0.512	13	11	0.700	0.580	7440-02-0	5				20	-	
METALLE	NICKEL(GES)	14M_MK	0.5	µg/L	1.000	0	0.678	0.669	26	25	0.900	0.660	7440-02-0	10						
METALLE	ZINK(GEL)	E28_MK	1	µg/L	1.60	0		0.123	13	1	0	0	7440-66-6							
METALLE	ZINK(GES)	14M_MK	1	µg/L	3.90	0	1.62	1.51	26	20	3.00	1.50	7440-66-6	20						
NUKLIDE	TRITIUM	1M_PMS	1	Bq/L	32.8	0	8.16	8.15	366	361	10.4	7.70	15086-10-9							
LHKW	1,1,1-TRICHLORETHAN	1M_MS	0.001	µg/L	0.004	0	0.001	0.001	365	288	0.002	0.001	71-55-6					10		0.1
LHKW	1,1-DICHLORETHEN	1M_MS	0.02	µg/L	0.001	0		0	365	1	0	0	75-35-4							
LHKW	1,2-DICHLORETHAN	1M_MS	0.04	µg/L	0.007	0		0	365	3	0	0	107-06-2							
LHKW	1,2-DICHLORPROPAN	1M_MS	0.04	µg/L	0.022	0		0	365	1	0	0	78-87-5							
LHKW	BROMDICHLORMETHAN	1M_MS	0.04	µg/L	0.024	0		0	365	3	0	0	75-27-4							
LHKW	BROMOFORM	1M_MS	0.01	µg/L	0.025	0	0.010	0.008	365	209	0.017	0.011	75-25-2							0.1
LHKW	CHLOROFORM	1M_MS	0.02	µg/L	0.087	0	0.031	0.031	365	344	0.045	0.029	67-66-3		0.6			2.5	-	0.1
LHKW	DIBROMCHLORMETHAN	1M_MS	0.04	µg/L	0.001	0		0	365	1	0	0	124-48-1							
LHKW	DICHLORMETHAN	1M_MS	0.04	µg/L	0.250	0		0.030	365	140	0.093	0	75-09-2					20	-	0.1
LHKW	HEXACHLORETHAN	1M_MS	0.0004	µg/L	0.004	0		0	365	177	0.001	0	67-72-1					10	-	0.1
LHKW	TETRACHLORETHEN	1M_MS	0.001	µg/L	0.037	0.008	0.020	0.020	365	365	0.027	0.020	127-18-4		1			10	-	0.1
LHKW	TETRACHLORMETHAN	1M_MS	0.001	µg/L	0.006	0	0.002	0.002	365	287	0.003	0.002	56-23-5		1			12	-	0.1
LHKW	TRICHLORETHEN	1M_MS	0.001	µg/L	0.016	0	0.004	0.004	365	347	0.006	0.004	79-01-6		1			10	-	0.1
LHKW	TRICHLORFLUORMETHAN	1M_MS	0.01	µg/L	0.001	0		0	365	1	0	0	75-69-4							
LHKW	SUMME_HALOGENIERTE	1M_MS		µg/L	0.364	0.011	0.096	0.096	365	365	0.169	0.078								
BTEX	TOLUOL	1M_MS	0.25	µg/L	0.410	0		0.001	365	1	0	0	108-88-3							
BTEX	SUMME_BTEX	1M_MS		µg/L	0.410	0		0.001	365	1	0	0								
KOMPLEXBILDNER	EDTA	28M_MS	0.5	µg/L	1.38	0.660	0.958	0.958	13	13	1.17	1.03	60-00-4							5
KOMPLEXBILDNER	NTA	28M_MS	0.5	µg/L	0.972	0.313	0.438	0.553	13	13	0.726	0.480	139-13-9							5
EINZELSTOFFE	2,4-DIMETHYLANILIN	1M14_MS	0.1	µg/L	0.014	0		0.001	26	1	0	0	95-68-1							
EINZELSTOFFE	2,6-DIMETHYLANILIN	1M14_MS	0.02	µg/L	0.014	0		0.001	26	1	0	0	87-62-7							
EINZELSTOFFE	BISPHENOL-A	E14_MS	0.01	µg/L	0.039	0		0.003	26	3	0.010	0								
EINZELSTOFFE	COFFEIN	1M_MS	0.01	µg/L	0.219	0.011	0.061	0.061	365	365	0.118	0.047	58-08-2							1
EINZELSTOFFE	DIGLYME	1M_MS	0.05	µg/L	1.31	0		0.112	365	129	0.494	0	111-96-6							1
EINZELSTOFFE	GALAXOLID	1M_MS	0.01	µg/L	0.057	0	0.028	0.028	365	364	0.041	0.028	1222-05-5							1
EINZELSTOFFE	OCTYLPHENOL	E14_MS	0.01	µg/L	0.002	0		0	26	1	0	0								
EINZELSTOFFE	SURFYNOL_104	1M_MS	0.025	µg/L	0.308	0	0.079	0.079	365	363	0.129	0.070	126-86-3							1
EINZELSTOFFE	TONALID	1M_MS	0.01	µg/L	0.035	0		0.001	365	19	0	0	21145-77-7							1
PESTIZIDE	ATRAZIN	1M_MS	0.005	µg/L	0.012	0		0.002	365	155	0.006	0	1912-24-9	0.1	0.1			0.6	2	0.1
PESTIZIDE	DEET	1M_MS	0.005	µg/L	0.130	0	0.015	0.015	365	364	0.026	0.011	134-62-3	0.1						0.1
PESTIZIDE	DESMETRYN	1M_MS	0.005	µg/L	0.006	0		0	365	4	0	0	1014-69-3	0.1						0.1
PESTIZIDE	DIAZINON	1M_MS	0.005	µg/L	0.008	0		0	365	14	0	0	333-41-5	0.1	0.02					0.1
PESTIZIDE	DIMETHENAMID	1M_MS	0.005	µg/L	0.007	0		0	365	1	0	0	87674-68-8	0.1						0.1
PESTIZIDE	ETHOFUMESAT	1M_MS	0.005	µg/L	0.010	0		0	365	19	0	0	26225-79-6							
PESTIZIDE	FENAMIDON	1M_MS	0.005	µg/L	0.008	0		0	365	1	0	0	161326-34-							
PESTIZIDE	FENITROTHION	1M_MS	0.025	µg/L	0.006	0		0	365	1	0	0	122-14-5							
PESTIZIDE	IRGAROL	1M_MS	0.005	µg/L	0.006	0		0	365	30	0	0	28159-98-0							
PESTIZIDE	ISO-CHLORIDAZON	1M_MS	0.025	µg/L	0.007	0		0	365	6	0	0	162354-96-							
PESTIZIDE	METALAXYL	1M_MS	0.005	µg/L	0.009	0		0	365	2	0	0	57837-19-1							
PESTIZIDE	METAZACHLOR	1M_MS	0.005	µg/L	0.011	0		0	365	16	0	0	67129-08-2	0.1				0.4		0.1
PESTIZIDE	METOLACHLOR	1M_MS	0.005	µg/L	0.076	0	0.008	0.008	365	294	0.014	0.007	51218-45-2	0.1	0.1			0.2		0.1
PESTIZIDE	ORBENCARB	1M_MS	0.005	µg/L	0.007	0		0	365	2	0	0	34622-58-7	0.1						0.1
PESTIZIDE	PENCONAZOL	1M_MS	0.005	µg/L	0.019	0		0.002	365	83	0.008	0	87501-25-5	0.1						0.1
PESTIZIDE	PROPAZIN	1M_MS	0.005	µg/L	0.022	0		0	365	4	0	0	139-40-2							
PESTIZIDE	PROPYZAMID	1M_MS	0.005	µg/L	0.012	0		0.001	365	36	0	0	23950-58-5	0.1						0.1
PESTIZIDE	PROSULFOCARB	1M_MS	0.005	µg/L	0.015	0		0	365	10	0	0	52888-80-9	0.1						0.1
PESTIZIDE	SIMAZIN	1M_MS	0.005	µg/L	0.006	0		0	365	11	0	0	122-34-9	0.1	0.06			1	4	0.1
PESTIZIDE	TERBUMETON	1M_MS	0.005	µg/L	0.006	0		0	365	2	0	0	33693-04-8							
PESTIZIDE	TERBUTHYLAZIN	1M_MS	0.005	µg/L	0.074	0		0.003	365	95	0.008	0	5915-41-3	0.1				0.5		0.1
PESTIZIDE	TERBUTRYN	1M_MS	0.005	µg/L	0.005	0		0	365	14	0	0	886-50-0	0.1						0.1
PESTIZIDE	TOLYLFLUANID	1M_MS	0.005	µg/L	0.005	0		0	365	1	0	0	731-27-1							
METABOLITE	2,6-DICHLORBENZAMID	1M_MS	0.01	µg/L	0.043	0		0.004	365	130	0.013	0	2008-58-4	0.1						0.1
METABOLITE	DESETHYLATRAZIN	1M_MS	0.005	µg/L	0.013	0	0.005	0.004	365	233	0.008	0.005	6190-65-4	0.1						0.1
METABOLITE	DESETHYLTERBUTHYLAZIN	1M_MS	0.005	µg/L	0.019	0		0.001	365	67	0.006	0	30125-63-4	0.1						0.1
METABOLITE	DESISOPROPYLATRAZIN	1M_MS	0.01	µg/L	0.014	0		0	365	4	0	0	1007-28-9	0.1						0.1

LEGENDE DER AUSWAHLKRITERIEN
FUER OG. VERBINDUNGEN
UND METALLE

BEI 366 BESTIMMUNGEN IM JAHR SIND >10 POSITIV
BEI BIS ZU 26 BESTIMMUNGEN IM JAHR SIND >3 PSOITIV
BEI 13 BESTIMMUNGEN IM JAHR SIND >2 POSITIV

K: Stundenmittelwerte
1M: Tagesmischprobe
7M: Mischprobe über 7 Tage
14M: Mischprobe über 14 Tage
28M: Mischprobe über 28 Tage
1M14: 24h-Mischprobe alle 14 Tage
E28: Momentanprobe alle 28 Tage

GSchV Schweizerische Gewässerschutzverordnung
IKSR Internationale Kommision zum Schutz des Rheins
JD-UQN Jahresdurchschnitt Umweltqualitätsnorm (Mittelwert)
ZHK-UQN zulässige Höchstkonzentration Umweltqualitätsnorm (Maximum)
IAWBR Int. Arbeitsgemeinschaft der Wasserwerke im Rheineinzugsgebiet

* bei Nutzung zur Trinkwassergewinnung

grün Umweltqualitätsnorm für spezifischen Schadstoff (ökologische Zusatndsbewertung)
rot Umweltqualitätsnorm für prioritären / prioritär gefährlichen Schadstoff (chemische Zustandsbewertung)

Mittels LC-MS NACHGEWIESENE VERBINDUNGEN IN DER WASSERPHASE IM JAHR 2012 IM RHEIN BEI WEIL AM RHEIN

* IKSR-MITTELWERT (nur wenn >50% positive Werte) bei Gehalten <BG wird

Component	MaterialType	BESTIMMUNGSGRENZE (BG)	EINHEIT	ANZAHL MESSUNGEN	ANZAHL WERTE > BG	Maximum	MITTELWERT ALLER BEFUNDE	IKSR-MITTELWERTE* (wenn >50% positive)	90-Perzentil	Median	MINIMUM	CAS-No	Wirkstoffgruppe	Ergänzung_1	Ergänzung_2	Metabolit_von
ACESULFAM	1M14_MS		µg/L	26	26	1.259	0.7326	0.7326	0.944	0.710	0.356	55589-62-3	Lebensmittelzusatzstoff	SWEETENER		
CYCLOHEXYLSULFAMIDSAEURE	1M14_MS		µg/L	26	26	0.216	0.0550	0.0550	0.097	0.036	0.020					
SACCHARIN	1M14_MS		µg/L	26	26	0.122	0.0563	0.0563	0.110	0.047	0.024	81-07-2	Lebensmittelzusatzstoff	SWEETENER		
SUCRALOSE	1M14_MS		µg/L	25	25	0.187	0.0656	0.0656	0.111	0.056	0.022	56038-13-2	Lebensmittelzusatzstoff	SWEETENER		
IOHEXOL	1M14_MS	0.050	µg/L	17	2	0.055	0.0062		0.020	0	0	66108-95-0	Pharmazeutika	VARIOUS	CONTRAST MEDIA	
AMISULPRID	1M14_MS		µg/L	26	25	0.006	0.0032	0.0032	0.005	0.003	0	71675-85-9	Pharmazeutika			
ATENOLOL	1M14_MS		µg/L	26	14	0.016	0.0048	0.0059	0.011	0.006	0	29122-68-7	Pharmazeutika	CARDIOVASCULAR SYSTEM	BETA BLOCKING AGENTS	
AZITHROMYCIN	1M14_MS		µg/L	19	2	0.001	0.0001		0	0	0	83905-01-5	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIBACTERIALS FOR SYSTEMIC USE	
BEZAFIBRAT	1M14_MS	0.005	µg/L	26	1	0.007	0.0003		0	0	0	41859-67-0	Pharmazeutika	CARDIOVASCULAR SYSTEM	LIPID MODIFYING AGENTS	
BICALUTAMID	1M14_MS	0.001	µg/L	25	2	0.033	0.0020		0	0	0	90357-06-5	Pharmazeutika			
BUPROPION	1M14_MS	0.003	µg/L	26	1	0.007	0.0003		0	0	0	34911-55-2	Pharmazeutika			
CANDESARTAN	1M14_MS		µg/L	26	26	0.017	0.0089	0.0089	0.013	0.008	0.005	139481-59-7	Pharmazeutika			
CARBAMAZEPIN	1M14_MS		µg/L	26	26	0.048	0.0223	0.0223	0.032	0.021	0.008	298-46-4	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	
CETIRIZIN	1M14_MS		µg/L	5	5	0.071	0.0564	0.0564	0.067	0.054	0.042					
CITALOPRAM	1M14_MS	0.005	µg/L	26	3	0.006	0.0007		0.003	0	0	59729-33-8	Pharmazeutika			
CLARITHROMYCIN	1M14_MS		µg/L	26	24	0.010	0.0045	0.0046	0.008	0.005	0	81103-11-9	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIBACTERIALS FOR SYSTEMIC USE	
CLIMBAZOL	1M14_MS	0.002	µg/L	26	13	0.033	0.0085	0.0090	0.031	0.001	0	38083-17-9	Personal Care Product			
CLINDAMYCIN	1M14_MS	0.005	µg/L	26	2	0.009	0.0006		0	0	0	18323-44-9	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIBACTERIALS FOR SYSTEMIC USE	
CODEIN	1M14_MS	0.010	µg/L	24	5	0.019	0.0035		0.016	0	0	76-57-3	Pharmazeutika			
DICLOFENAC	1M14_MS		µg/L	29	28	0.038	0.0196	0.0196	0.033	0.019	0	15307-86-5	Pharmazeutika	MUSCULO-SKELETAL SYSTEM	ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS	
EPROSARTAN	1M14_MS	0.010	µg/L	26	3	0.026	0.0023		0.008	0	0	133040-01-4	Pharmazeutika			
FLUOXETIN	1M14_MS	0.001	µg/L	26	7	0.004	0.0006		0.002	0	0	54910-89-3	Pharmazeutika	NERVOUS SYSTEM	PSYCHOANALEPTICS	
GABAPENTIN	1M14_MS		µg/L	26	25	0.076	0.0434	0.0436	0.062	0.047	0	60142-96-3	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	
HYDROCHLORTHIAZID	1M14_MS		µg/L	26	25	0.038	0.0205	0.0207	0.033	0.021	0					
INDOMETHACIN	1M14_MS	0.010	µg/L	26	1	0.039	0.0015		0	0	0	53-86-1	Pharmazeutika	MUSCULO-SKELETAL SYSTEM	ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS	
IOPROMID	1M14_MS	0.150	µg/L	20	1	0.190	0.0095		0	0	0	73334-07-3	Pharmazeutika	VARIOUS	CONTRAST MEDIA	
LAMOTRIGIN	1M14_MS		µg/L	26	26	0.026	0.0156	0.0156	0.022	0.016	0.008	84057-84-1	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	
LEVETIRACETAM	1M14_MS		µg/L	26	19	0.040	0.0121	0.0128	0.023	0.013	0	102767-28-2	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	
LIDOCAIN	1M14_MS		µg/L	26	26	0.021	0.0053	0.0053	0.009	0.004	0.002	137-58-6	Pharmazeutika	NERVOUS SYSTEM	ANESTHETICS	
LOSARTAN	1M14_MS		µg/L	26	18	0.035	0.0099	0.0107	0.020	0.008	0	114798-26-4	Pharmazeutika			
METFORMIN	1M14_MS		µg/L	26	26	0.617	0.3166	0.3166	0.477	0.294	0.146	657-24-9	Pharmazeutika	ALIMENTARY TRACT AND METABOLISM	DRUGS USED IN DIABETES	
METHYLPREDNISOLON	1M14_MS		µg/L	25	1	0.007	0.0003		0	0	0	83-43-2	Pharmazeutika	SYSTEMIC HORMONAL PREPARATIONS	CORTICOSTEROIDS FOR SYSTEMIC USE	
METOCLOPRAMID	1M14_MS	0.001	µg/L	26	1	0.001	0.0000		0	0	0	7232-21-5	Pharmazeutika			
METOPROLOL	1M14_MS		µg/L	26	26	0.019	0.0102	0.0102	0.015	0.011	0.004	37350-58-6	Pharmazeutika	CARDIOVASCULAR SYSTEM	BETA BLOCKING AGENTS	
MOCLOBEMID	1M14_MS	0.001	µg/L	26	1	0.010	0.0004		0	0	0	71320-77-9	Pharmazeutika	NERVOUS SYSTEM	PSYCHOANALEPTICS	
NAPROXEN	1M14_MS	0.025	µg/L	26	1	0.042	0.0016		0	0	0	22204-53-1	Pharmazeutika	MUSCULO-SKELETAL SYSTEM	ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS	
OXAZEPAM	1M14_MS		µg/L	26	26	0.043	0.0148	0.0148	0.024	0.013	0.004	604-75-1	Pharmazeutika	NERVOUS SYSTEM	PSYCHOLEPTICS	
OXCARBAZEPIN	1M14_MS	0.003	µg/L	26	10	0.010	0.0019		0.006	0	0	28721-07-5	Pharmazeutika			
PARACETAMOL	1M14_MS	0.010	µg/L	26	7	0.081	0.0137		0.060	0	0	103-90-2	Pharmazeutika	NERVOUS SYSTEM	ANALGESICS	
PHENAZON	1M14_MS		µg/L	26	17	0.002	0.0009	0.0011	0.002	0.001	0					
RIVASTIGMIN	1M14_MS	0.001	µg/L	26	4	0.004	0.0004		0.001	0	0					
SITAGLIPTIN	1M14_MS		µg/L	26	23	0.019	0.0086	0.0087	0.015	0.008	0	486460-32-6	Pharmazeutika			
SOTALOL	1M14_MS	0.010	µg/L	26	4	0.041	0.0037		0.017	0	0	3930-20-9	Pharmazeutika	CARDIOVASCULAR SYSTEM	BETA BLOCKING AGENTS	
SULFAMETHOXAZOL	1M14_MS		µg/L	26	19	0.020	0.0104	0.0117	0.017	0.013	0	723-46-6	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIBACTERIALS FOR SYSTEMIC USE	
SULFATHIAZOL	1M14_MS	0.010	µg/L	26	3	0.025	0.0020		0.006	0	0	72-14-0	Pharmazeutika	DERMATOLOGICALS	ANTIBIOTICS AND CHEMOTHERAPEUTICS FOR DERMATOLOGICAL USE	
SUMME_O-DESVENLAFAXIN_und_TRAMADOL	1M14_MS		µg/L	26	26	0.142	0.0575	0.0575	0.099	0.052	0.023					
TIZANIDIN	1M14_MS	0.001	µg/L	26	6	0.039	0.0040		0.015	0	0					
TRIMETHOPRIM	1M14_MS		µg/L	25	15	0.004	0.0014	0.0016	0.003	0.002	0	738-70-5	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIBACTERIALS FOR SYSTEMIC USE	
VALSARTAN	1M14_MS		µg/L	26	26	0.074	0.0263	0.0263	0.038	0.023	0.009	137862-53-4	Pharmazeutika	CARDIOVASCULAR SYSTEM	AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM	
VENLAFAXIN	1M14_MS		µg/L	26	26	0.054	0.0118	0.0118	0.022	0.008	0.003	93413-69-5	Pharmazeutika	NERVOUS SYSTEM	PSYCHOANALEPTICS	
VERAPAMIL	1M14_MS	0.001	µg/L	26	3	0.005	0.0004		0.001	0	0	152-11-4	Pharmazeutika	CARDIOVASCULAR SYSTEM	CALCIUM CHANNEL BLOCKERS	
2-NAPHTHALINSULFONSAEURE	1M14_MS		µg/L	26	21	0.178	0.0319	0.0324	0.099	0.013	0					
4-DIMETHYLAMINOPYRIDIN	1M14_MS	0.005	µg/L	23	4	0.049	0.0049		0.015	0	0					
5-METHYL-BENZOTRIAZOL	1M14_MS		µg/L	26	26	0.184	0.1084	0.1084	0.149	0.107	0.054	136-85-6	Korrosionsschutzmittel	CORROSION INHIBITOR		
7-DIETHYLAMINO-4-METHYLCOUMARIN	1M14_MS	0.001	µg/L	26	3	0.003	0.0003		0.001	0	0					
BENZOTHIAZOL	1M14_MS	0.050	µg/L	26	1	0.060	0.0023		0	0	0	95-16-9	Additiv			
BENZOTRIAZOL	1M14_MS		µg/L	26	26	0.405	0.2053	0.2053	0.240	0.205	0.118	95-14-7	Korrosionsschutzmittel	CORROSION INHIBITOR		
COFFEIN	1M14_MS		µg/L	25	22	0.139	0.0561	0.0576	0.106	0.048	0	58-08-2	Tracer	NERVOUS SYSTEM	PSYCHOANALEPTICS	
N-METHYL-BENZOTRIAZOL	1M14_MS	0.005	µg/L	26	1	0.007	0.0003		0	0	0					
N-METHYL-N-PHENYL-ACETAMID	1M14_MS	0.005	µg/L	26	1	0.020	0.0008		0	0	0					
SUMME_IOMEPROL_und_IOPAMIDOL	1M14_MS		µg/L	14	9	0.933	0.2797	0.3065	0.709	0.204	0					
TOLUOL-4-SULFONSAEURE	1M14_MS		µg/L	26	26	0.115	0.0337	0.0337	0.077	0.024	0.006					
TRIPHENYLPHOSPHINOXID	1M14_MS		µg/L	3	3	0.138	0.0957	0.0957	0.126	0.076	0.073					
2,4-D	1M14_MS	0.005	µg/L	26	2	0.005	0.0004		0	0	0	94-75-7	Pestizid	HERBICIDES	PHENOXY HERBICIDES	
4-CHLOR-2-METHYLPHENOL	1M14_MS	0.010	µg/L	26	6	0.027	0.0036		0.014	0	0	1570-64-5	Pestizid	HERBICIDES	PHENOXY HERBICIDES	Mecoprop
ATRATON	1M14_MS	0.001	µg/L	26	1	0.002	0.0001		0	0	0	1610-17-9				
ATRAZIN	1M14_MS	0.005	µg/L	26	5	0.006	0.0010		0.005	0	0	1912-24-9	Pestizid	HERBICIDES	TRIAZINE HERBICIDES	
BENTAZON	1M14_MS	0.001	µg/L	26	5	0.005	0.0004		0.002	0	0	25057-89-0	Pestizid	HERBICIDES	UNCLASSIFIED HERBICIDES	
CARBENDAZIM	1M14_MS		µg/L	26	26	0.008	0.0057	0.0057	0.007	0.006	0.004	10605-21-7	Biozid	FUNGICIDES	BENZIMIDAZOLE FUNGICIDES	
CHLORIDAZON	1M14_MS	0.005	µg/L	26	1	0.006	0.0002		0	0	0	1698-60-8	Pestizid	HERBICIDES	PYRIDAZINONE HERBICIDES	
CHLORTOLURON	1M14_MS		µg/L	26	11	0.031	0.0035		0.010	0	0	15545-48-9	Pestizid	HERBICIDES	PHENYLUREA HERBICIDES	
CLOMAZON	1M14_MS	0.001	µg/L	26	1	0.003	0.0001		0	0	0	81777-89-1	Pestizid	HERBICIDES	UNCLASSIFIED HERBICIDES	
CYPROCONAZOL	1M14_MS	0.005	µg/L	26	18	0.032	0.0083	0.0091	0.015	0.008	0	94361-06-5	Pestizid	FUNGICIDES	CONAZOLE FUNGICIDES	
DEET	1M14_MS		µg/L	26	26	0.020	0.0115	0.0115	0.015	0.012	0.007	134-62-3	Biozid	INSECT REPELLENTS		
DIAZINON	1M14_MS	0.003	µg/L	26	1	0.003	0.0001		0	0	0	333-41-5	Pestizid	INSECTICIDES	ORGANOPHOSPHORUS INSECTICIDES	
DIMETHACHLOR	1M14_MS	0.001	µg/L	26	1	0.015	0.0006		0	0	0	50563-36-5	Pestizid	HERBICIDES	AMIDE HERBICIDES	
DIMETHENAMID	1M14_MS	0.001	µg/L	26	6	0.002	0.0004		0.002	0	0	87674-68-8	Pestizid	HERBICIDES	AMIDE HERBICIDES	
DIMETHOAT	1M14_MS	0.001	µg/L	26	1	0.004	0.0002		0	0	0	60-51-5	Pestizid	INSECTICIDE	ORGANOPHOSPHORUS INSECTICIDES	
DIURON	1M14_MS		µg/L	26	21	0.011	0.0055	0.0060	0.009	0.006	0	330-54-1	Biozid	HERBICIDES	UREA HERBICIDES	
FLUFENACET	1M14_MS	0.005	µg/L	26	1	0.005	0.0002		0	0	0	142459-58-3	Pestizid	HERBICIDES	AMIDE HERBICIDES	
IRGAROL	1M14_MS	0.005	µg/L	26	1	0.006	0.0002		0	0	0	28159-98-0	Biozid	ALGICIDES		
ISOPROTURON	1M14_MS		µg/L	26	24	0.046	0.0054	0.0055	0.009	0.003	0	34123-59-6	Pestizid	HERBICIDES	UREA HERBICIDES	
MCPA	1M14_MS	0.005	µg/L	26	9	0.023	0.0030		0.009	0	0	94-74-6	Pestizid	HERBICIDES	PHENOXY HERBICIDES	
MECOPROP	1M14_MS	0.005	µg/L	26	20	0.062	0.0096	0.0102	0.017	0.007	0	93-65-2	Pestizid	HERBICIDES	PHENOXY HERBICIDES	
METALAXYL	1M14_MS	0.001	µg/L	25	12	0.007	0.0022		0.006	0	0	57837-19-1	Pestizid	FUNGICIDES	AMIDE FUNGICIDES	
METAZACHLOR	1M14_MS	0.001	µg/L	26	12	0.013	0.0018		0.005	0	0	67129-08-2	Pestizid	HERBICIDES	AMIDE HERBICIDES	
METOLACHLOR	1M14_MS		µg/L	26	26	0.029	0.0083	0.0083	0.017	0.006	0.002	51218-45-2	Pestizid	HERBICIDES	AMIDE HERBICIDES	
NAPROPAMID	1M14_MS	0.002	µg/L	26	2	0.016	0.0007		0	0	0	15299-99-7	Pestizid	HERBICIDES	AMIDE HERBICIDES	
PROPACHLOR	1M14_MS	0.003	µg/L	26	1	0.004	0.0002		0	0	0	1918-16-7	Pestizid	HERBICIDES	AMIDE HERBICIDES	
SIMAZIN	1M14_MS	0.005	µg/L	24	1	0.007	0.0003		0	0	0	122-34-9	Pestizid	HERBICIDES	TRIAZINE HERBICIDES	
SPIROXAMIN	1M14_MS	0.001	µg/L	26	1	0.002	0.0001		0	0	0	118134-30-8	Pestizid	FUNGICIDES		
SUMME_ACETOCHLOR_und_ALACHLOR	1M14_MS		µg/L	25	4	0.046	0.0033		0.006	0	0					
SUMME_TERBUTRYN_und_PROMETRYN	1M14_MS	0.001	µg/L	26	19	0.003	0.0013	0.0015	0.002	0.002	0					
TEBUTAM	1M14_MS		µg/L	26	3	0.001	0.0001		0.001	0	0	35256-85-0	Pestizid	HERBICIDES	AMIDE HERBICIDES	
TERBUTHYLAZIN	1M14_MS	0.003	µg/L	26	13	0.011	0.0027	0.0035	0.007	0.002	0	5915-41-3	Pestizid	HERBICIDES	TRIAZINE HERBICID	
2,4-DIMETHYLPHENYLFORMAMID	1M14_MS	0.010	µg/L	25	1	0.025	0.0010		0	0	0	60397-77-5	Pestizid	INSECTICIDES	FORMAMIDINE INSECTICIDES	Amitraz
2,6-DICHLORBENZAMID	1M14_MS	0.005	µg/L	26	14	0.011	0.0037	0.0048	0.008	0.005	0	2008-58-4	Pestizid	HERBICIDES	NITRILE HERBICIDES	Dichlobenil
2-HYDROXYATRAZIN	1M14_MS		µg/L	26	25	0.005	0.0025	0.0025	0.003	0.003	0					
2-HYDROXYSIMAZIN	1M14_MS	0.001	µg/L	25	5	0.003	0.0004		0.002	0	0					
4-(TRIFLUORMETHYL)PHENOL	1M14_MS		µg/L	26	21	0.097	0.0225	0.0230	0.047	0.019	0					
4-FORMYL-AMINOANTIPYRIN	1M14_MS		µg/L	26	26	0.054	0.0296	0.0296	0.044	0.028	0.007					
ACETOCHLOR-OXA	1M14_MS	0.005	µg/L	26	1	0.008	0.0003		0	0	0	194992-44-4	Pestizid	HERBICIDES	AMIDE HERBICIDES	Acetochlor
ALACHLOR-OXA	1M14_MS		µg/L	26	6	0.125	0.0072		0.015	0	0	171262-17-2	Pestizid	HERBICIDES	AMIDE HERBICIDES	Alachlor
AMDOPH	1M14_MS	0.001	µg/L	26	1	0.002	0.0001		0	0	0	519-65-3	Pharmazeutika	NERVOUS SYSTEM	ANALGESICS	Aminopyrine
ATENOLOLSAEURE	1M14_MS		µg/L	26	25	0.087	0.0412	0.0413	0.068	0.040	0					
AZOXYSTROBINSAEURE	1M14_MS	0.001	µg/L	26	14	0.030	0.0031	0.0033	0.006	0.002	0					
CARBAMAZEPIN-10,11DIHYDRO-10,11DIHYDROXY	1M14_MS		µg/L	26	26	0.041	0.0243	0.0243	0.036	0.023	0.011					
CARBAMAZEPIN-10,11-EPOXID	1M14_MS	0.001	µg/L	24	20	0.009	0.0031	0.0032	0.006	0.003	0	36507-30-9	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	Carbamazepine
CLOPIDOGRELSAEURE	1M14_MS	0.005	µg/L	26	11	0.010	0.0030		0.008	0	0					
DESAMINO-METAMITRON	1M14_MS	0.002	µg/L	26	7	0.018	0.0022		0.007	0	0					
DESAMINOMETRIBUZIN	1M14_MS	0.001	µg/L	26	5	0.002	0.0003		0.002	0	0					
DESETHYL-2-HYDROXYTERBUTHYLAZIN	1M14_MS	0.002	µg/L	26	6	0.003	0.0006		0.003	0	0					
DESETHYLATRAZIN	1M14_MS		µg/L	26	13	0.010	0.0033	0.0045	0.007	0.003	0	6190-65-4				
DESETHYLTERBUTHYLAZIN	1M14_MS	0.005	µg/L	26	6	0.009	0.0016		0.007	0	0	30125-63-4				
DESISOPROPYLATENOLOL	1M14_MS		µg/L	3	1	0.052	0.0173		0.042	0	0					
DIMETHACHLOR-ESA	1M14_MS	0.005	µg/L	26	2	0.006	0.0004		0	0	0		Pestizid	HERBICIDES	AMIDE HERBICIDES	Dimethachlor
DIMETHYLAMINOSULFANILID	1M14_MS	0.005	µg/L	26	1	0.006	0.0002		0	0	0					
FENOFIBRINSAEURE	1M14_MS	0.005	µg/L	26	2	0.017	0.0013		0	0	0					
METAZACHLOR-ESA	1M14_MS	0.010	µg/L	26	3	0.014	0.0015		0.006	0	0	172960-62-2	Pestizid	HERBICIDES	AMIDE HERBICIDES	Metazachlor
METOLACHLOR-ESA	1M14_MS		µg/L	26	22	0.042	0.0120	0.0124	0.020	0.011	0	171118-09-5	Pestizid	HERBICIDES	AMIDE HERBICIDES	Metolachlor
METOLACHLOR-MORPHOLINON	1M14_MS		µg/L	26	18	0.008	0.0025	0.0027	0.005	0.003	0	120375-14-6	Pestizid	HERBICIDES	AMIDE HERBICIDES	Metolachlor

Mittels LC-MS NACHGEWIESENE VERBINDUNGEN IN DER WASSERPHASE IM JAHR 2012 IM RHEIN BEI WEIL AM RHEIN

* IKSR-MITTELWERT (nur wenn >50% positive Werte) bei Gehalten <BG wird

Component	MaterialTypa	BESTIMMUNGSGRENZE (BG)	EINHEIT	ANZAHL MESSUNGEN	ANZAHL WERTE > B/G	Maximum	MITTELWERT ALLER BEFUNDE	IKSR-MITTELWERTE* (wenn >50% positive)	90-Perzentil	Median	MINIMUM	CAS-No	Wirkstoffgruppe	Ergänzung_1	Ergänzung_2	Metabolit_von
METOLACHLOR-OXA	1M14_MS	0.005	µg/L	26	7	0.011	0.0018		0.007	0	0	152019-73-3	Pestizid	HERBICIDES	AMIDE HERBICIDES	Metolachlor
N,N-DIDESVENLAFAXIN	1M14_MS		µg/L	23	7	0.242	0.0343		0.147	0	0	93413-77-5	Pharmazeutika	NERVOUS SYSTEM	PSYCHOANALEPTICS	Venlafaxin
N,N-DIMETHYL-N'(4-METHYLPHENYL)-SULFAMID	1M14_MS		µg/L	26	3	0.009	0.0009		0.003	0	0					
N-ACETYL-4-AMINOANTIPYRIN	1M14_MS		µg/L	26	26	0.128	0.0733	0.0733	0.103	0.075	0.034					
N-DESVENLAFAXIN	1M14_MS	0.005	µg/L	26	1	0.006	0.0002		0	0	0	149289-30-5	Pharmazeutika	NERVOUS SYSTEM	PSYCHOANALEPTICS	Venlafaxin
NN-DIMETHYLDICYLAMIN N-OXID	1M14_MS	0.001	µg/L	26	3	0.017	0.0008		0.001	0	0	2605-79-0	Desinfektionsmittel			
O,N-DIDESVENLAFAXIN	1M14_MS		µg/L	26	6	0.027	0.0022		0.006	0	0					
PYRIMIDINOL	1M14_MS	0.001	µg/L	26	9	0.025	0.0014		0.002	0	0	2814-20-2	Pestizid	INSECTICIDES	ORGANOPHOSPHORUS INSECTICIDES	Diazinon
SUMME_1-HYDROXY-u4-HYDROXY-BENZOTRIAZOL	1M14_MS	0.020	µg/L	26	3	0.027	0.0028		0.010	0	0					
SUMME_2-HYDR.PROPAZIN_und_2-HYDR.TERBUT.	1M14_MS		µg/L	26	22	0.008	0.0033	0.0033	0.007	0.002	0					
VALSARTANSAEURE	1M14_MS		µg/L	26	18	0.042	0.0161	0.0169	0.034	0.017	0					

Mittels LC-MS NACHGEWIESENE VERBINDUNGEN IN DER WASSERPHASE IM JAHR 2012 IM RHEIN BEI WEIL AM RHEIN Semiquantitative Befunde Prefix "SQ_ " / grössere Messunsicherheit

* IKSR-MITTELWERT (nur wenn
>50% positive Werte) bei Gehalten
<BG wird 1/2BG verrechnet

Component	MaterialType	BESTIMMUNGSGRENZE (BG)	EINHEIT	ANZAHL MESSUNGEN	ANZAHL WERTE > BG	Maximum	MITTELWERT ALLER BEFUNDE	IKSR-MITTELWERTE* (wenn >50% positive)	90-Perzentil	Median	MINIMUM	CAS-No	Wirkstoffgruppe	Ergänzung_1	Ergänzung_2	Metabolit_von
SQ_ACESULFAM	1M_MS		µg/L	363	363	2.282	1.1821	1.1821	1.651	1.140	0.428	55589-62-3	Lebensmittelzusatzstoff	SWEETENER		
SQ_CYCLOHEXYLSULFAMIDSAEURE	1M_MS		µg/L	344	262	0.359	0.0420	0.0432	0.097	0.025	0	100-88-9	Lebensmittelzusatzstoff	SWEETENER		
SQ_SACCHARIN	1M_MS		µg/L	349	332	5.06	0.1413	0.1415	0.163	0.048	0	81-07-2	Lebensmittelzusatzstoff	SWEETENER		
SQ_SUCRALOSE	1M_MS		µg/L	359	342	0.453	0.0832	0.0835	0.173	0.068	0	56038-13-2	Lebensmittelzusatzstoff	SWEETENER		
SQ_SUM_IOMEPROL_und_IOPAMIDOL	1M_MS		µg/L	42	6	1.223	0.0826		0.195	0	0		Röntgenkontrastmittel			
SQ_ATENOLOL	1M_MS	0.01	µg/L	169	27	0.017	0.0020		0.012	0	0	29122-68-7	Pharmazeutika	CARDIOVASCULAR SYSTEM	BETA BLOCKING AGENTS	
SQ_CANDESARTAN	1M_MS	0.01	µg/L	339	106	0.031	0.0042		0.014	0	0	139481-59-7	Pharmazeutika			
SQ_CARBAMAZEPIN	1M_MS		µg/L	363	352	0.049	0.0244	0.0245	0.037	0.024	0	298-46-4	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	
SQ_CLARITHROMYCIN	1M_MS	0.01	µg/L	362	9	0.028	0.0007		0	0	0	81103-11-9	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIBACTERIALS FOR SYSTEMIC USE	
SQ_CODEIN	1M_MS	0.01	µg/L	335	2	0.011	0.0001		0	0	0	76-57-3	Pharmazeutika			
SQ_DICLOFENAC	1M_MS		µg/L	332	161	0.065	0.0127		0.035	0	0	15307-86-5	Pharmazeutika	MUSCULO-SKELETAL SYSTEM	ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS	
SQ_EPROSARTAN	1M_MS	0.01	µg/L	356	25	0.023	0.0015		0	0	0	133040-01-4	Pharmazeutika			
SQ_FLUOXETIN	1M_MS	0.01	µg/L	355	3	0.017	0.0001		0	0	0	54910-89-3	Pharmazeutika	NERVOUS SYSTEM	PSYCHOANALEPTICS	
SQ_GABAPENTIN	1M_MS	0.01	µg/L	245	54	0.086	0.0130		0.060	0	0	60142-96-3	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	
SQ_HYDROCHLORTHIAZID	1M_MS		µg/L	277	190	0.055	0.0181	0.0197	0.036	0.021	0					
SQ_INDOMETHACIN	1M_MS	0.01	µg/L	253	2	0.026	0.0002		0	0	0	53-86-1	Pharmazeutika	MUSCULO-SKELETAL SYSTEM	ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS	
SQ_IOPROMID	1M_MS		µg/L	190	54	0.68	0.0701		0.235	0	0	73334-07-3	Pharmazeutika	VARIOUS	CONTRAST MEDIA	
SQ_KETOPROFEN	1M_MS	0.025	µg/L	270	1	0.035	0.0001		0	0	0	22071-15-4	Pharmazeutika	MUSCULO-SKELETAL SYSTEM	ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS	
SQ_LAMOTRIGIN	1M_MS	0.01	µg/L	356	286	0.042	0.0163	0.0172	0.027	0.018	0	84057-84-1	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	
SQ_LEVETIRACETAM	1M_MS	0.01	µg/L	363	63	0.111	0.0029		0.013	0	0	102767-28-2	Pharmazeutika	NERVOUS SYSTEM	ANTIEPILEPTICS	
SQ_LIDOCAIN	1M_MS	0.01	µg/L	322	11	0.027	0.0005		0	0	0	137-58-6	Pharmazeutika	NERVOUS SYSTEM	ANESTHETICS	
SQ_LOSARTAN	1M_MS	0.01	µg/L	338	1	0.014	0.0000		0	0	0	114798-26-4	Pharmazeutika			
SQ_METFORMIN	1M_MS		µg/L	360	359	1.225	0.3601	0.3601	0.528	0.339	0	657-24-9	Pharmazeutika	ALIMENTARY TRACT AND METABOLISM	DRUGS USED IN DIABETES	
SQ_METOPROLOL	1M_MS	0.01	µg/L	363	80	0.088	0.0032		0.012	0	0	37350-58-6	Pharmazeutika	CARDIOVASCULAR SYSTEM	BETA BLOCKING AGENTS	
SQ_MOCLOBEMID	1M_MS	0.01	µg/L	308	6	0.038	0.0005		0	0	0	71320-77-9	Pharmazeutika	NERVOUS SYSTEM	PSYCHOANALEPTICS	
SQ_NAPROXEN	1M_MS		µg/L	299	12	0.062	0.0016		0	0	0	22204-53-1	Pharmazeutika	MUSCULO-SKELETAL SYSTEM	ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS	
SQ_OXAZEPAM	1M_MS	0.01	µg/L	363	2	0.013	0.0001		0	0	0	604-75-1	Pharmazeutika	NERVOUS SYSTEM	PSYCHOLEPTICS	
SQ_PARACETAMOL	1M_MS		µg/L	355	148	0.291	0.0187		0.053	0	0	103-90-2	Pharmazeutika	NERVOUS SYSTEM	ANALGESICS	
SQ_RANITIDIN	1M_MS	0.01	µg/L	179	1	0.053	0.0003		0	0	0	66357-35-5	Pharmazeutika	ALIMENTARY TRACT AND METABOLISM	DRUGS FOR ACID RELATED DISORDERS	
SQ_SITAGLIPTIN	1M_MS	0.01	µg/L	363	19	0.303	0.0019		0	0	0	486460-32-6	Pharmazeutika			
SQ_SOTALOL	1M_MS	0.01	µg/L	304	25	0.066	0.0019		0	0	0	3930-20-9	Pharmazeutika	CARDIOVASCULAR SYSTEM	BETA BLOCKING AGENTS	
SQ_SULFAMETHOXAZOL	1M_MS		µg/L	363	154	0.068	0.0057		0.014	0	0	723-46-6	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIBACTERIALS FOR SYSTEMIC USE	
SQ_SULFAPYRIDIN	1M_MS	0.01	µg/L	261	1	0.026	0.0001		0	0	0	144-83-2	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIBACTERIALS FOR SYSTEMIC USE	
SQ_SUM_O-u_N-DESVENLAFAXIN_u_TRAMADOL	1M_MS	0.01	µg/L	352	153	2.134	0.0207		0.045	0	0					
SQ_VALSARTAN	1M_MS		µg/L	362	326	0.073	0.0283	0.0288	0.051	0.027	0	137862-53-4	Pharmazeutika	CARDIOVASCULAR SYSTEM	AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM	
SQ_VENLAFAXIN	1M_MS		µg/L	363	190	0.098	0.0092	0.0116	0.022	0.011	0	93413-69-5	Pharmazeutika	NERVOUS SYSTEM	PSYCHOANALEPTICS	
SQ_VERAPAMIL	1M_MS	0.01	µg/L	363	4	0.064	0.0003		0	0	0	152-11-4	Pharmazeutika	CARDIOVASCULAR SYSTEM	CALCIUM CHANNEL BLOCKERS	
SQ_2-NAPHTHALINSULFONSAEURE	1M_MS		µg/L	337	246	1.348	0.0435	0.0449	0.102	0.022	0					
SQ_4-(TRIFLUORMETHYL)PHENOL	1M_MS		µg/L	326	223	0.279	0.0458	0.0473	0.116	0.029	0					
SQ_4-CHLOR-2-METHYLPHENOL	1M_MS	0.01	µg/L	202	3	0.029	0.0003		0	0	0	1570-64-5	Pestizid	HERBICIDES	PHENOXY HERBICIDES	Mecoprop
SQ_4-DIMETHYLAMINOPYRIDIN	1M_MS	0.01	µg/L	255	23	0.025	0.0014		0	0	0					
SQ_4-ISOPROPYLANILIN	1M_MS	0.01	µg/L	225	14	0.03	0.0011		0	0	0	99-88-7	Pestizid	HERBICIDES	UREA HERBICIDES	Isoproturon
SQ_7-DIETHYL-4-METHYLCOUMARIN	1M_MS	0.01	µg/L	286	1	0.014	0.0000		0	0	0					
SQ_BENZOTHIAZOL	1M_MS	0.025	µg/L	161	38	0.465	0.0615		0.258	0	0	95-16-9	Additiv			
SQ_BENZOTRIAZOL	1M_MS		µg/L	363	363	0.481	0.2402	0.2402	0.337	0.231	0.115	95-14-7	Korrosionsschutzmittel	CORROSION INHIBITOR		
SQ_COFFEIN	1M_MS		µg/L	213	36	0.415	0.0249		0.092	0	0	58-08-2	Tracer	NERVOUS SYSTEM	PSYCHOANALEPTICS	
SQ_SUM_N-ME-N-PHE-ACETAMID_u_DIME-PHE-FO	1M_MS	0.01	µg/L	348	13	0.116	0.0010		0	0	0					
SQ_TOLUOL-4-SULFONSAEURE	1M_MS		µg/L	332	236	2.26	0.0568	0.0583	0.114	0.021	0					
SQ_TRIPHENYLPHOSPHINOXID	1M_MS		µg/L	94	94	0.976	0.1273	0.1273	0.250	0.075	0.013					
SQ_ATRAZIN	1M_MS		µg/L	363	82	0.014	0.0026		0.011	0	0	1912-24-9	Pestizid	HERBICIDES	TRIAZINE HERBICIDES	
SQ_BENZISOTHIAZOLIN-3-ON	1M_MS	0.025	µg/L	335	1	0.035	0.0001		0	0	0					
SQ_CARBENDAZIM	1M_MS	0.01	µg/L	363	6	0.013	0.0002		0	0	0	10605-21-7	Biozid	FUNGICIDES	BENZIMIDAZOLE FUNGICIDES	
SQ_CHLORTOLURON	1M_MS	0.01	µg/L	356	14	0.093	0.0012		0	0	0	15545-48-9	Pestizid	HERBICIDES	PHENYLUREA HERBICIDES	
SQ_CYPROCONAZOL	1M_MS	0.01	µg/L	363	99	0.053	0.0050		0.019	0	0	94361-06-5	Pestizid	FUNGICIDES	CONAZOLE FUNGICIDES	
SQ_DEET	1M_MS	0.01	µg/L	363	137	0.171	0.0089		0.024	0	0	134-62-3	Biozid	INSECT REPELLENTS		
SQ_DINOSEB	1M_MS	0.01	µg/L	324	8	0.063	0.0009		0	0	0	88-85-7	Pestizid	HERBICIDES	DINITROPHENOL HERBICIDES	
SQ_DIURON	1M_MS	0.01	µg/L	362	12	0.016	0.0004		0	0	0	330-54-1	Biozid	HERBICIDES	UREA HERBICIDES	
SQ_ISOPROTURON	1M_MS	0.01	µg/L	363	19	0.064	0.0011		0	0	0	34123-59-6	Pestizid	HERBICIDES	UREA HERBICIDES	
SQ_MCPA	1M_MS	0.01	µg/L	323	7	0.025	0.0004		0	0	0	94-74-6	Pestizid	HERBICIDES	PHENOXY HERBICIDES	
SQ_METOLACHLOR	1M_MS	0.01	µg/L	354	108	0.098	0.0052		0.017	0	0	51218-45-2	Pestizid	HERBICIDES	AMIDE HERBICIDES	
SQ_NAPROPAMID	1M_MS	0.01	µg/L	325	2	0.017	0.0001		0	0	0	15299-99-7	Pestizid	HERBICIDES	AMIDE HERBICIDES	
SQ_PYRIMETHANIL	1M_MS	0.01	µg/L	343	2	0.019	0.0001		0	0	0	53112-28-0	Pestizid	FUNGICIDES	PYRIMIDINE FUNGICIDES	
SQ_SUM_ACETOCHLOR_und_ALACHLOR	1M_MS	0.01	µg/L	303	1	0.026	0.0001		0	0	0					
SQ_SUM_DICAMBA_und_2,4-D	1M_MS	0.025	µg/L	245	10	0.102	0.0040		0	0	0					
SQ_SUM_MECOPROP_UND_CLOFIBRINSAEURE	1M_MS	0.01	µg/L	289	38	0.129	0.0036		0.014	0	0					
SQ_SUM_SIMAZIN_und_DESETHYLTERBUTHYL	1M_MS	0.01	µg/L	211	2	0.011	0.0001		0	0	0					
SQ_SUM_TERBUTHYLAZIN_und_PROPAZIN	1M_MS	0.01	µg/L	363	19	0.095	0.0012		0	0	0					
SQ_SUM_TERBUTRYN_und_PROMETRYN	1M_MS	0.01	µg/L	363	1	0.045	0.0001		0	0	0					
SQ_2,6-DICHLORBENZAMID	1M_MS		µg/L	355	87	0.02	0.0037		0.015	0	0	2008-58-4	Pestizid	HERBICIDES	NITRILE HERBICIDES	Dichlobenil
SQ_4-FORMYL-AMINOANTIPYRIN	1M_MS		µg/L	354	271	0.09	0.0221	0.0233	0.045	0.021	0					
SQ_ACETYLSULFAMETHOXAZOL	1M_MS	0.01	µg/L	363	1	0.011	0.0000		0	0	0					
SQ_ATENOLOLSAEURE	1M_MS		µg/L	361	351	0.089	0.0340	0.0341	0.060	0.030	0					
SQ_CARBAMAZEPIN-10,11DIHYDRO-10,11DIHYDR	1M_MS		µg/L	356	305	0.078	0.0200	0.0207	0.034	0.020	0					
SQ_CLOPIDOGRELSAEURE	1M_MS	0.01	µg/L	356	7	0.012	0.0002		0	0	0					
SQ_DESAMINO-METAMITRON	1M_MS	0.01	µg/L	342	2	0.018	0.0001		0	0	0					
SQ_DIMETHACHLOR-ESA	1M_MS	0.01	µg/L	332	1	0.022	0.0001		0	0	0		Pestizid	HERBICIDES	AMIDE HERBICIDES	Dimethachlor
SQ_DIMETHACHLOR-OXA	1M_MS	0.01	µg/L	280	2	0.032	0.0002		0	0	0	1086384-49-7	Pestizid	HERBICIDES	AMIDE HERBICIDES	Dimethachlor
SQ_GALAXOLIDON	1M_MS	0.02	µg/L	250	4	0.049	0.0005		0	0	0	256393-37-0	Personal Care Product	FRAGRANCE	POLYCYCLIC MUSK FRAGRANCE	Galaxolid
SQ_METAZACHLOR-ESA	1M_MS	0.01	µg/L	337	9	0.033	0.0005		0	0	0	172960-62-2	Pestizid	HERBICIDES	AMIDE HERBICIDES	Metazachlor
SQ_METOLACHLOR-ESA	1M_MS	0.01	µg/L	307	5	0.047	0.0005		0	0	0	171118-09-5	Pestizid	HERBICIDES	AMIDE HERBICIDES	Metolachlor
SQ_METOLACHLOR-MORPHOLINON	1M_MS	0.01	µg/L	356	11	0.015	0.0004		0	0	0	120375-14-6	Pestizid	HERBICIDES	AMIDE HERBICIDES	Metolachlor
SQ_METOLACHLOR-OXA	1M_MS	0.01	µg/L	329	2	0.018	0.0001		0	0	0	152019-73-3	Pestizid	HERBICIDES	AMIDE HERBICIDES	Metolachlor
SQ_N4_ACETYLSULFADIAZIN	1M_MS	0.025	µg/L	258	7	0.166	0.0021		0	0	0					
SQ_N-ACETYL-4-AMINOANTIPYRIN	1M_MS		µg/L	363	289	0.264	0.0662	0.0672	0.143	0.061	0					
SQ_NN-DIMETHYLDICYLAMIN N-OXID	1M_MS	0.01	µg/L	189	2	0.018	0.0002		0	0	0	2605-79-0	Desinfektionsmittel			
SQ_NN-DIMETHYL-N'(4-METHYLPHENYL)SULFAMI	1M_MS	0.01	µg/L	356	3	0.029	0.0001		0	0	0					
SQ_OSELTAMIVIR-CARBOXYLAT	1M_MS	0.01	µg/L	332	1	0.01	0.0000		0	0	0	187227-45-8	Pharmazeutika	ANTIINFECTIVES FOR SYSTEMIC USE	ANTIVIRALS FOR SYSTEMIC USE	Oseltamivir
SQ_PROPACHLOR-ESA	1M_MS	0.01	µg/L	311	15	0.034	0.0009		0	0	0	123732-85-4	Pestizid	HERBICIDES	AMIDE HERBICIDES	Propachlor
SQ_PROPACHLOR-OXA	1M_MS	0.01	µg/L	215	17	0.154	0.0071		0	0	0	70628-36-3	Pestizid	HERBICIDES	AMIDE HERBICIDES	Propachlor
SQ_PYRIMIDINOL	1M_MS	0.01	µg/L	292	1	0.01	0.0000		0	0	0	2814-20-2	Pestizid	INSECTICIDES	ORGANOPHOSPHORUS INSECTICIDES	Diazinon
SQ_SUM_1-OH-_und_4-OH-BENZOTRIAZOL	1M_MS	0.02	µg/L	352	4	0.034	0.0003		0	0	0					
SQ_SUM_5-ME-u1-ME-BENZOTRIAZOLu2-AMINOB.	1M_MS		µg/L	361	361	0.339	0.1377	0.1377	0.207	0.129	0.043					
SQ_SUM_ALACHLOR-OXA_und_ACETOCHLOR-OXA	1M_MS	0.01	µg/L	202	1	0.014	0.0001		0	0	0					
SQ_SUM_O,N-_u_N,N-DIDESVENLAFAXIN	1M_MS	0.01	µg/L	312	4	0.046	0.0003		0	0	0					
SQ_VALSARTANSAEURE	1M_MS		µg/L	324	73	0.051	0.0051		0.022	0	0					

Anhang 4 TRENDÜBERWACHUNG Wasserphase

Referenz Hochrhein

Salze: Chlorid (Salzfracht durch Projekt Gaslager Elsass), Bromid (Kampagnen Industrie)
Nährstoffe Stickstoffhaltige: Nitrat, Nitrtit
Nährstoffe Phophorhaltige: ortho-Phosphat, Gesamt-Phosphor

Liste Rheinrelevanter Verbindungen

Ammonium
Metalle: Kupfer, Zink, Chrom, Arsen
Pestizide: Mecoprop, Metolachlor, Diazinon, *N*,*N*-Diethyl-*m*-toluamid (DEET)

Liste prioritärer Stoffe nach Wasserrahmen-Richtlinie (WRRL)

Chlorierte Lösungsmittel: Trichlormethan, Dichlormethan
Herbizide: Atrazin, Desethylatrazin, Isoproturon

Stoffe aus IKSR-Liste trinkwasserrelevanter Stoffe

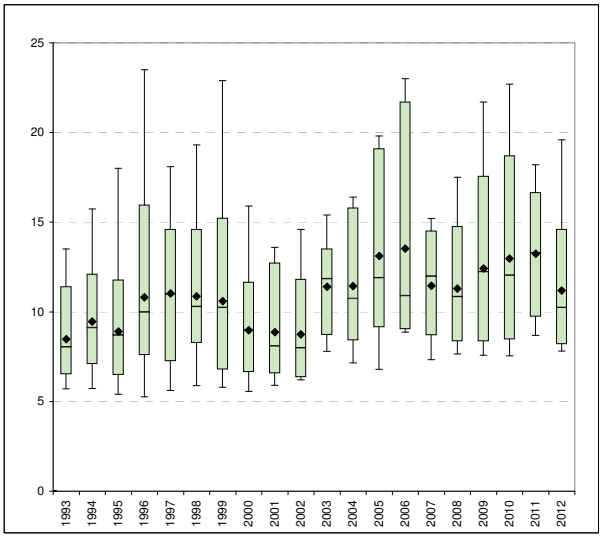
Komplexbildner: EDTA, NTA und DTPA
Lösungsmittel: Diglyme
Pharmakas: Carbamazepin, Diclofenac, Venlafaxin

CHLORID

OBERFLAECHENWASSER__16887-00-6&CHLORID__GEW_RHEIN_RUES

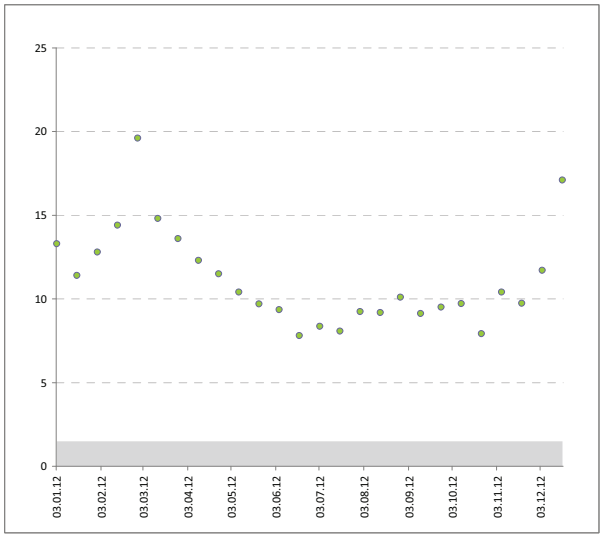
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[mg/L]
Zielvorgabe IAWR (Maximalwert)	100	[mg/L]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	200	[mg/L]

Schwankungsbreite Messwert [mg/L]



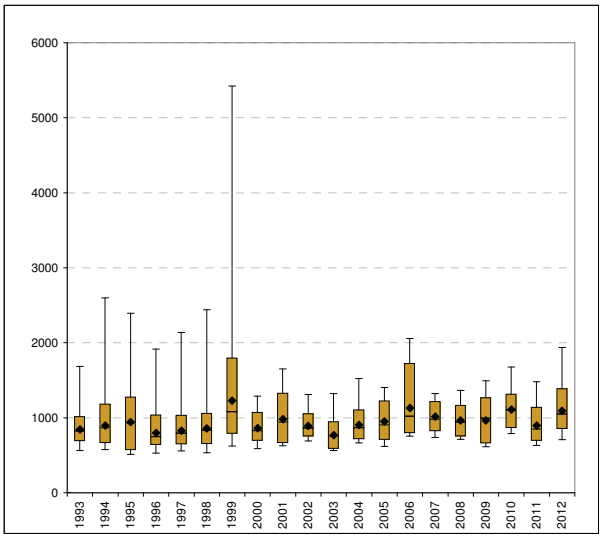
Mittelwert	10.9403
Maximum	23.5
Minimum	5.27

Einzelwerte Messwert [mg/L]



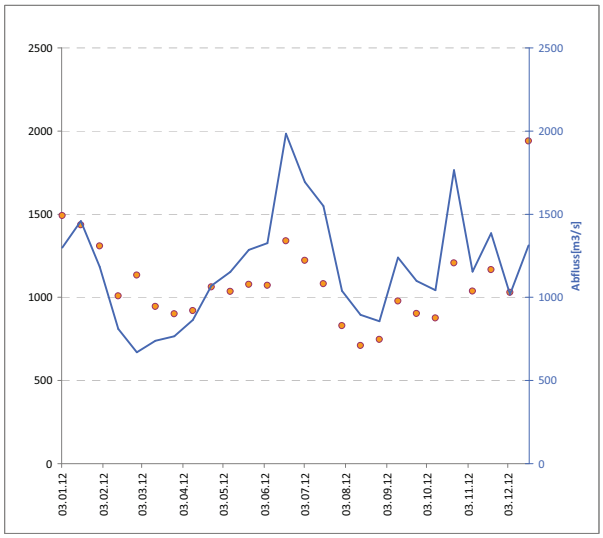
Mittelwert	11.1965	
Max	19.6	28.02.12
90-Perzentil	14.6	
Median	10.25	
10-Perzentil	8.21	
Min	7.81	19.06.12

Schwankungsbreite Transporte [t/d]



Mittelwert	947
Maximum	5425
Minimum	511

Einzelwerte Fracht [t/d] vs. Abfluss [m3/s]



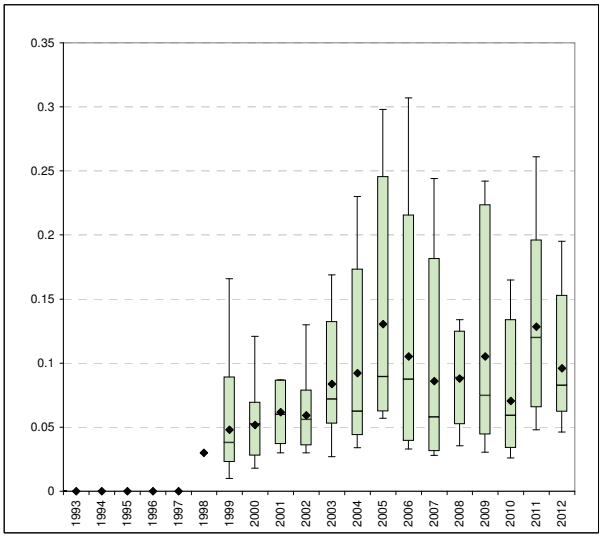
Mittelwert	1094	
Max	1939	18.12.12
90-Perzentil	1388	
Median	1050	
10-Perzentil	853	
Min	710	14.08.12

BROMID

OBERFLAECHENWASSER__24959-67-9&BROMID__GEW_RHEIN_RUES

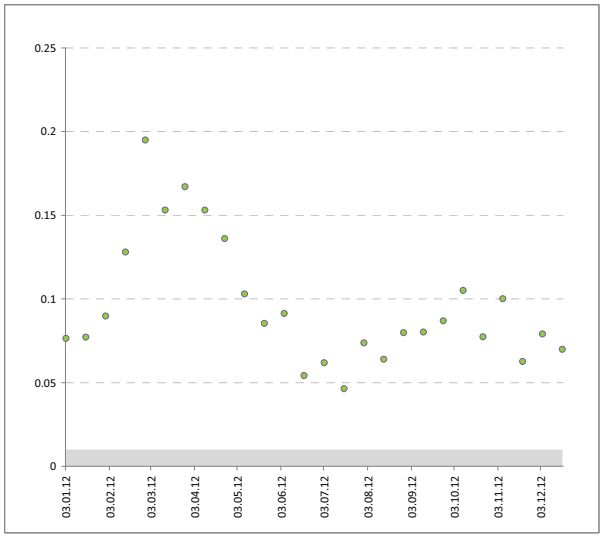
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[mg/L]
Zielvorgabe IAWR (Maximalwert)	-	[mg/L]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[mg/L]

Schwankungsbreite Messwert [mg/L]



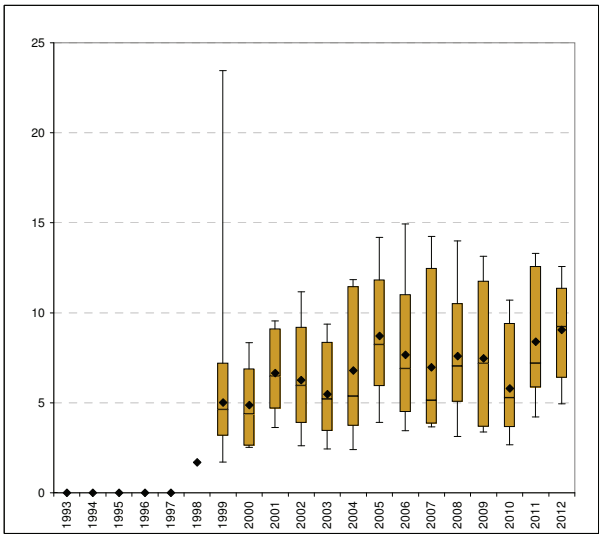
Mittelwert	0.082
Maximum	0.307
Minimum	0.010

Einzelwerte Messwert [mg/L]



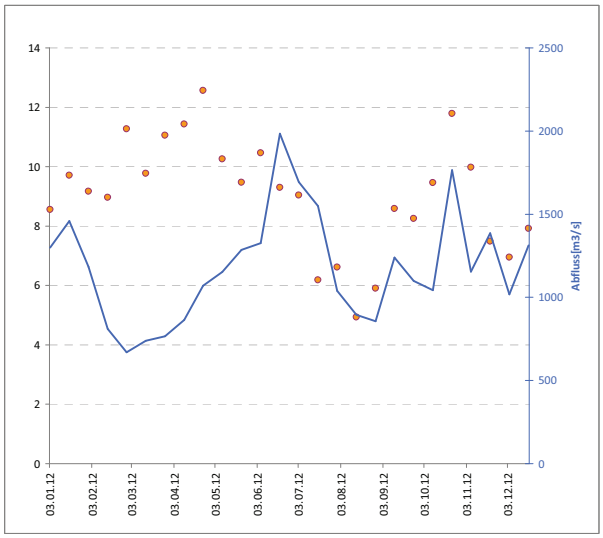
Mittelwert	0.096	
Max	0.195	28.02.12
90-Perzentil	0.153	
Median	0.083	
10-Perzentil	0.062	
Min	0.046	17.07.12

Schwankungsbreite Transporte [t/d]



Mittelwert	6.6
Maximum	23.5
Minimum	1.7

Einzelwerte Fracht [t/d] vs. Abfluss [m3/s]



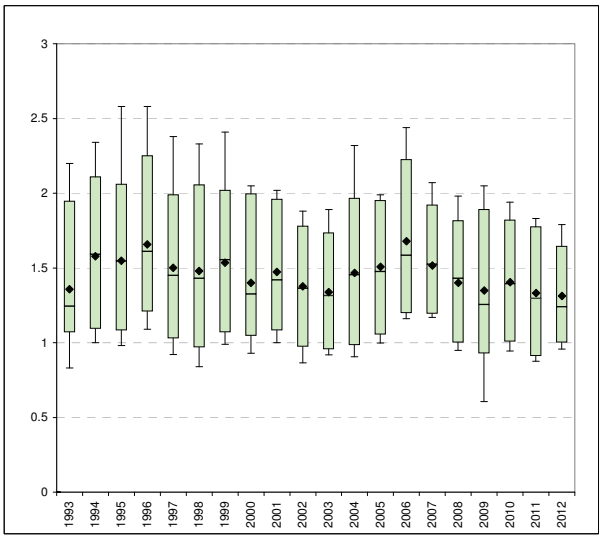
Mittelwert	9.0	
Max	12.6	24.04.12
90-Perzentil	11.4	
Median	9.2	
10-Perzentil	6.4	
Min	4.9	14.08.12

NITRAT(N)

OBERFLAECHENWASSER__14797-55-8&NITRAT(N)__GEW_RHEIN_RUES

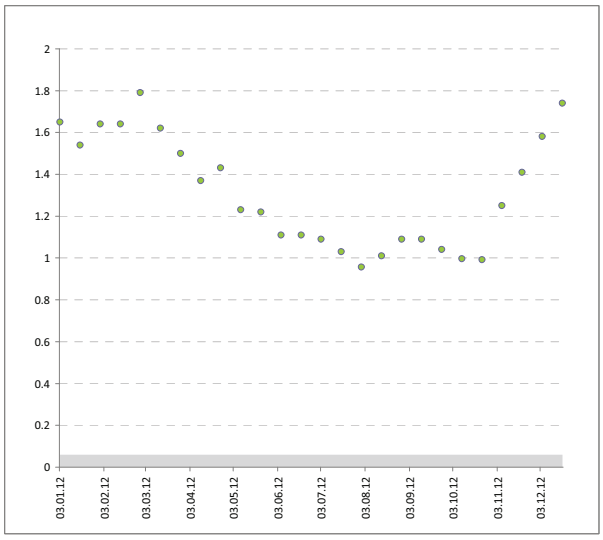
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	5.6	[mg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[mg/L]
Zielvorgabe IAWR (Maximalwert)	5.6	[mg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	11.3	[mg/L]

Schwankungsbreite Messwert [mg/L]



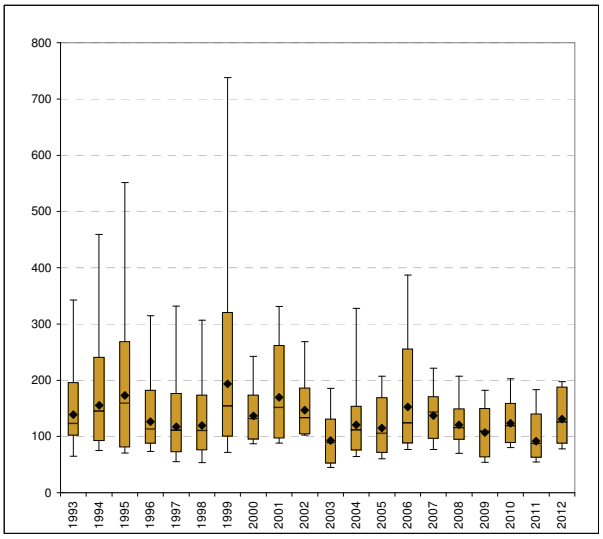
Mittelwert	1.46	
Maximum	2.58	
Minimum	0.61	

Einzelwerte Messwert [mg/L]



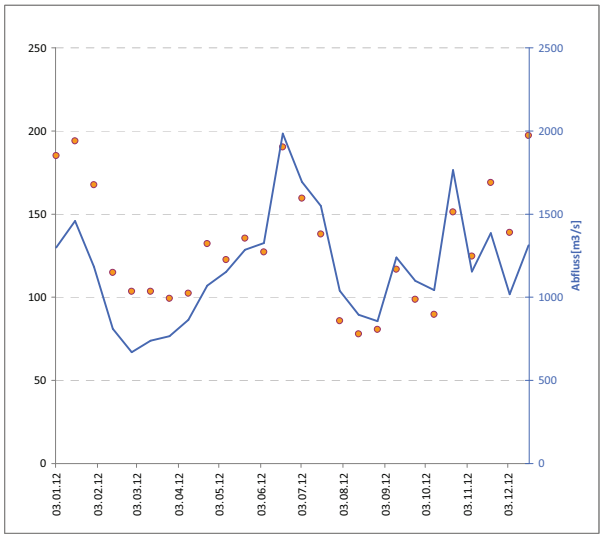
Mittelwert	1.31	
Max	1.79	28.02.12
90-Perzentil	1.65	
Median	1.24	
10-Perzentil	1.00	
Min	0.96	31.07.12

Schwankungsbreite Transporte [t/d]



Mittelwert	133.5	
Maximum	738.3	
Minimum	44.9	

Einzelwerte Fracht [t/d] vs. Abfluss [m3/s]



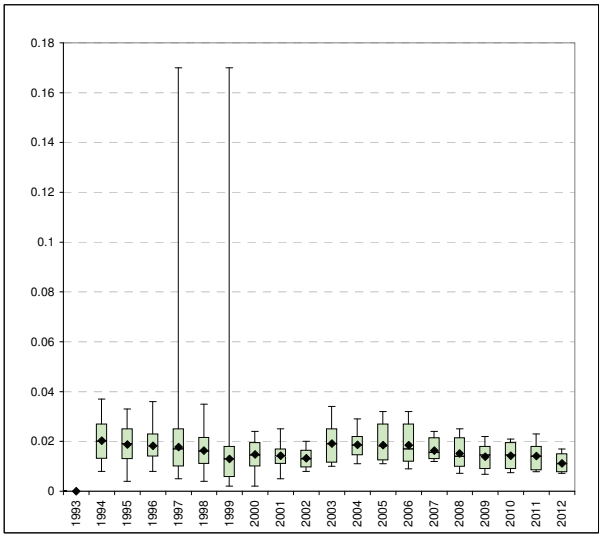
Mittelwert	131.0	
Max	197.3	18.12.12
90-Perzentil	187.7	
Median	126.0	
10-Perzentil	87.8	
Min	78.0	14.08.12

NITRIT(N)

OBERFLAECHENWASSER__14797-65-0&NITRIT(N)__GEW_RHEIN_RUES

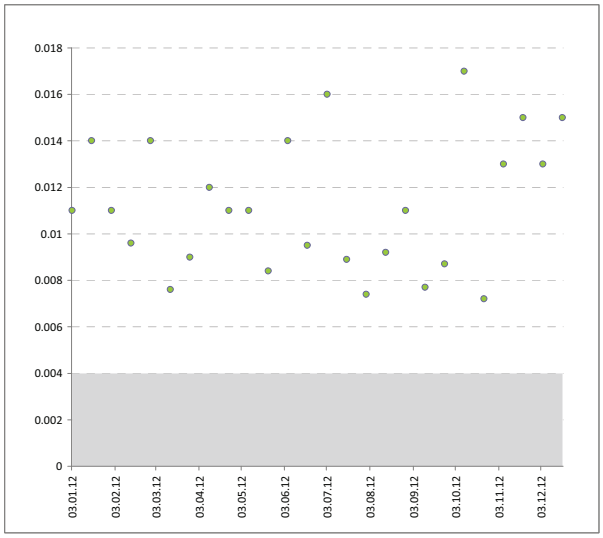
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[mg/L]
Zielvorgabe IAWR (Maximalwert)	-	[mg/L]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[mg/L]

Schwankungsbreite Messwert [mg/L]



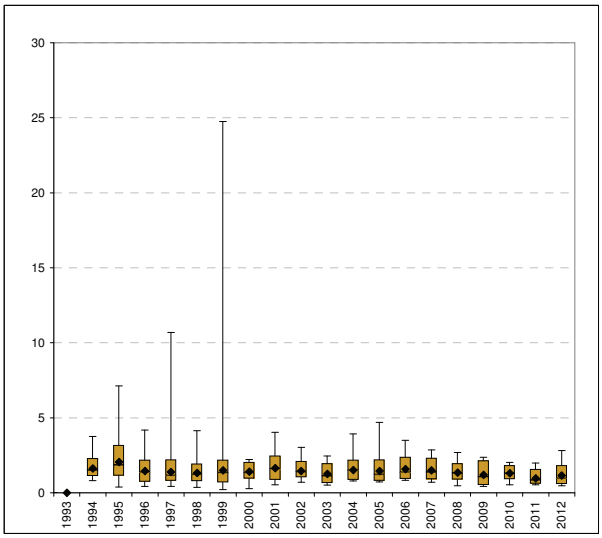
Mittelwert	0.016
Maximum	0.170
Minimum	0.002

Einzelwerte Messwert [mg/L]



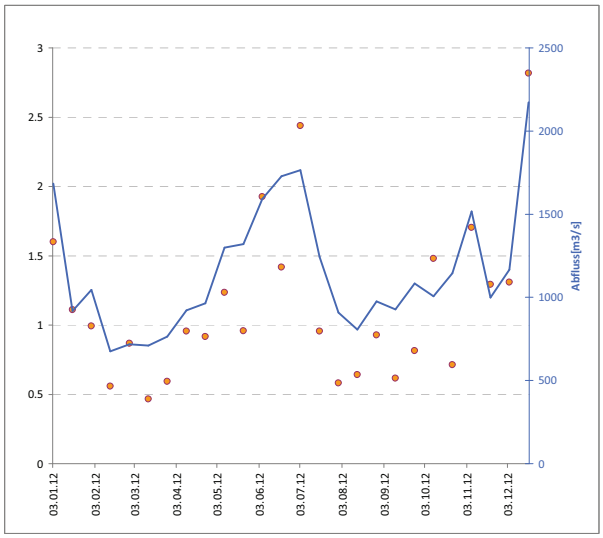
Mittelwert	0.011	
Max	0.017	09.10.12
90-Perzentil	0.015	
Median	0.011	
10-Perzentil	0.008	
Min	0.007	23.10.12

Schwankungsbreite Transporte [t/d]



Mittelwert	1.42
Maximum	24.76
Minimum	0.21

Einzelwerte Fracht [t/d] vs. Abfluss [m3/s]



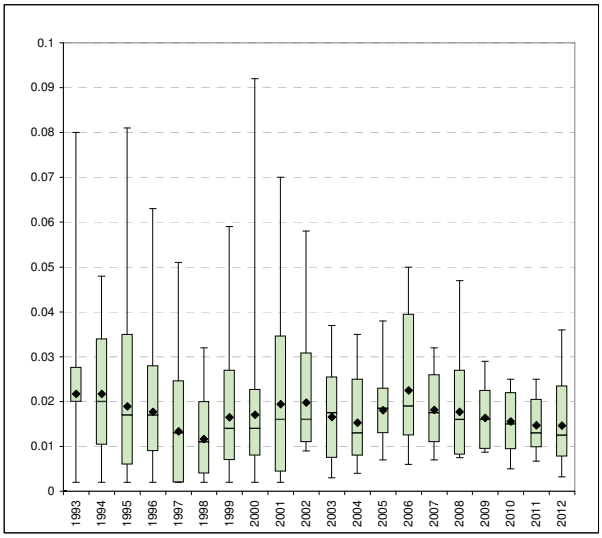
Mittelwert	1.15	
Max	2.82	18.12.12
90-Perzentil	1.81	
Median	0.96	
10-Perzentil	0.59	
Min	0.47	13.03.12

O-PHOSPHAT(P)(UV-DRP)

OBERFLAECHENWASSER__14265-44-2&O-PHOSPHAT(P)(UV-DRP)__GEW_RHEIN_RUES

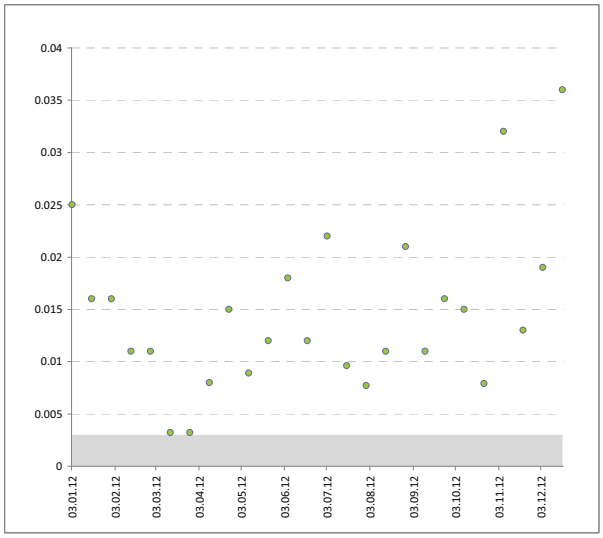
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[mg/L]
Zielvorgabe IAWR (Maximalwert)	-	[mg/L]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	0.07	[mg/L]

Schwankungsbreite Messwert [mg/L]



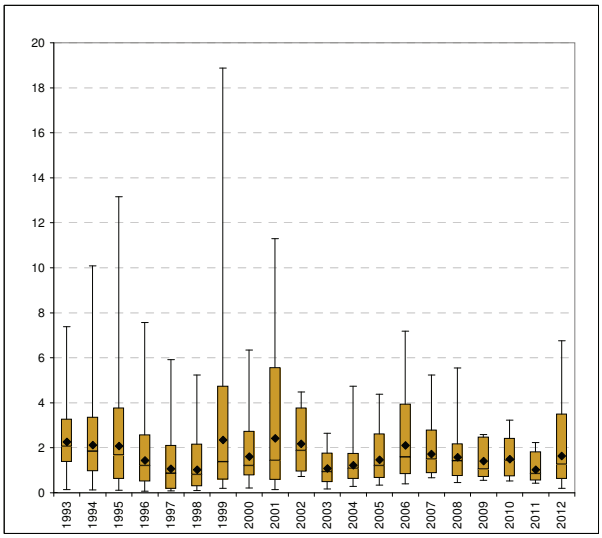
Mittelwert	0.017
Maximum	0.092
Minimum	0.002

Einzelwerte Messwert [mg/L]



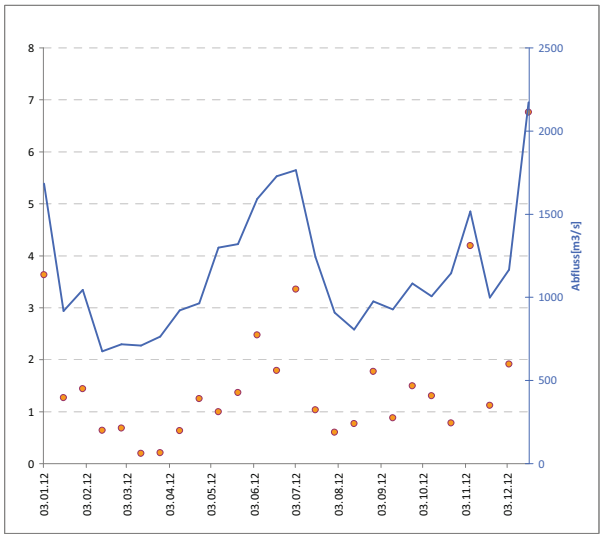
Mittelwert	0.015	
Max	0.036	18.12.12
90-Perzentil	0.024	
Median	0.013	
10-Perzentil	0.008	
Min	0.003	13.03.12

Schwankungsbreite Transporte [t/d]



Mittelwert	1.66
Maximum	18.87
Minimum	0.08

Einzelwerte Fracht [t/d] vs. Abfluss [m3/s]



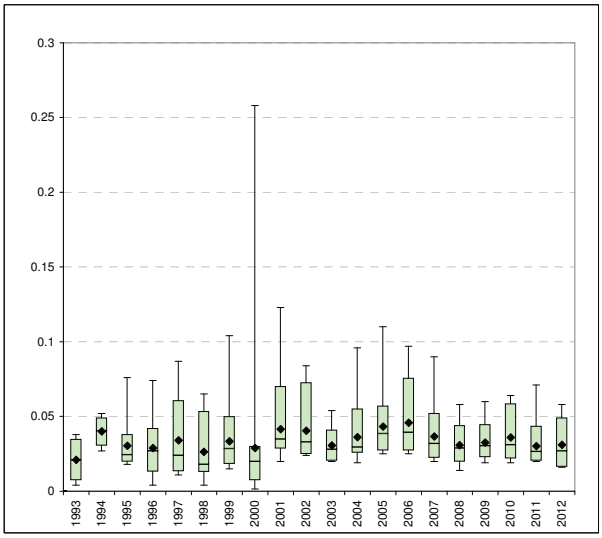
Mittelwert	1.64	
Max	6.76	18.12.12
90-Perzentil	3.50	
Median	1.26	
10-Perzentil	0.62	
Min	0.20	13.03.12

PHOSPHOR(GES)

OBERFLAECHENWASSER__AUE&PHOSPHOR(GES)__GEW_RHEIN_RUES

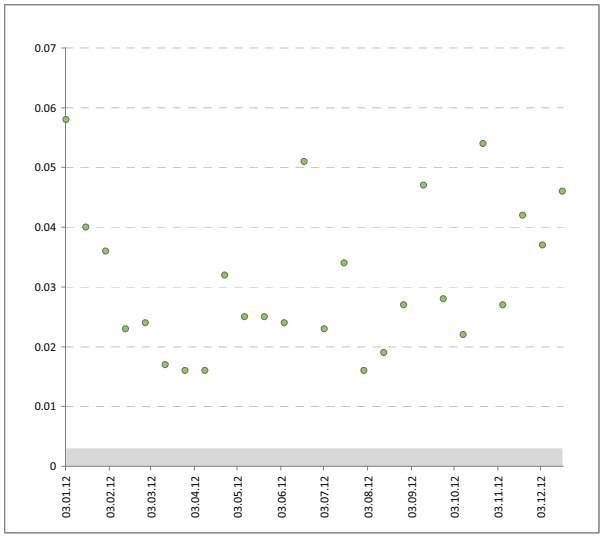
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/L]
Zielvorgabe IKSR (90 Perzentil)	0.15	[mg/L]
Zielvorgabe IAWR (Maximalwert)	-	[mg/L]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	0.1	[mg/L]

Schwankungsbreite Messwert [mg/L]



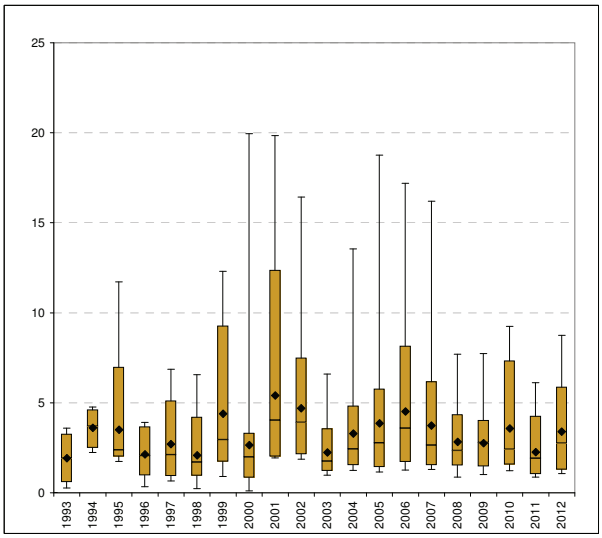
Mittelwert	0.034
Maximum	0.258
Minimum	0.002

Einzelwerte Messwert [mg/L]



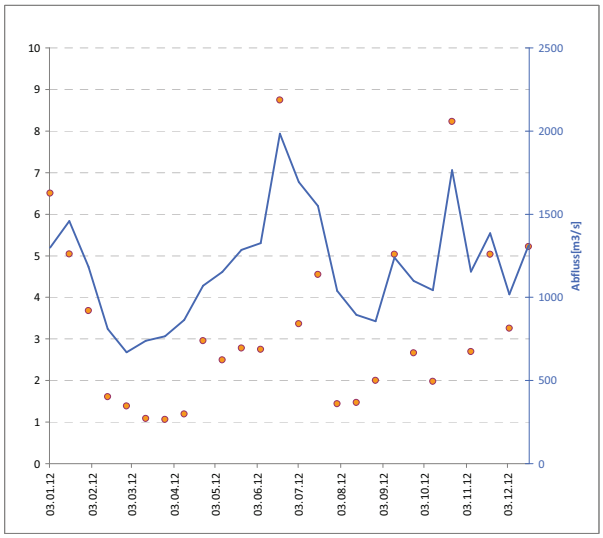
Mittelwert	0.031	
Max	0.058	03.01.12
90-Perzentil	0.049	
Median	0.027	
10-Perzentil	0.017	
Min	0.016	31.07.12

Schwankungsbreite Transporte [t/d]



Mittelwert	3.28
Maximum	19.96
Minimum	0.10

Einzelwerte Fracht [t/d] vs. Abfluss [m3/s]



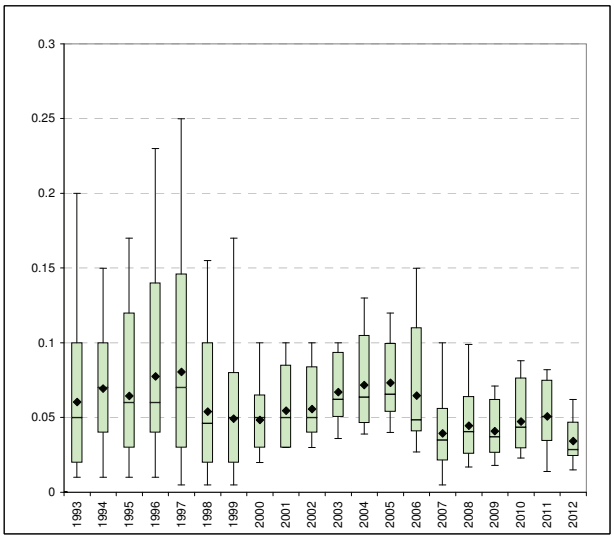
Mittelwert	3.39	
Max	8.75	19.06.12
90-Perzentil	5.86	
Median	2.76	
10-Perzentil	1.29	
Min	1.06	27.03.12

AMMONIUM(N)

OBERFLAECHENWASSER__14798-03-9&AMMONIUM(N)__GEW_RHEIN_RUES

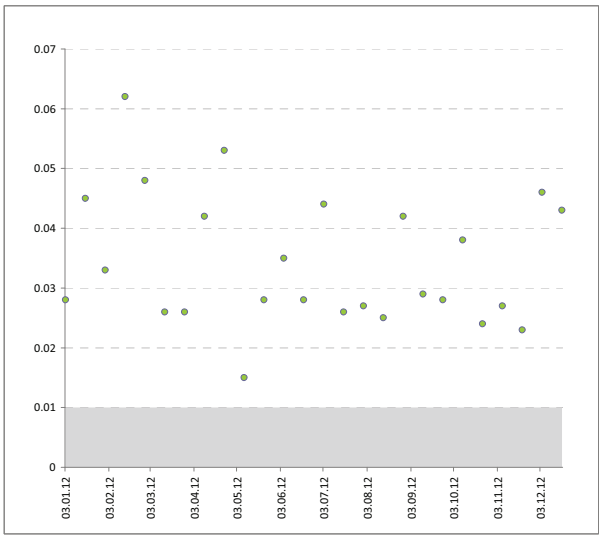
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	0.2	[mg/L]
Zielvorgabe IKSR (90 Perzentil)	0.2	[mg/L]
Zielvorgabe IAWR (Maximalwert)	0.2	[mg/L]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	0.3	[mg/L]
UQN-Rhein (IKSR)	0.05 NH3	[mg/L]

Schwankungsbreite Messwert [mg/L]



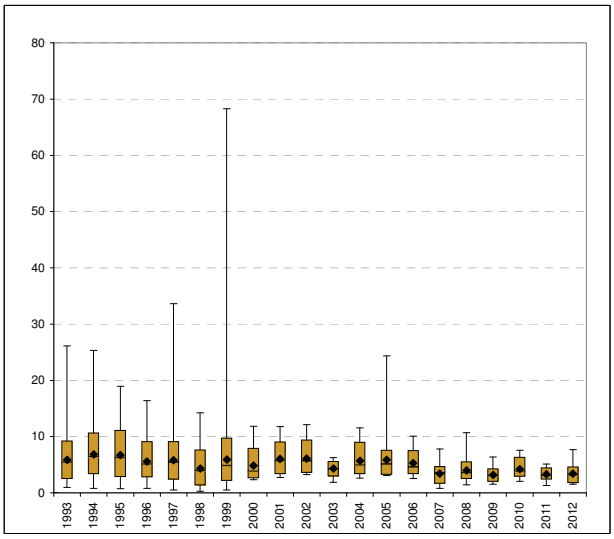
Mittelwert	0.057
Maximum	0.250
Minimum	0.005

Einzelwerte Messwert [mg/L]



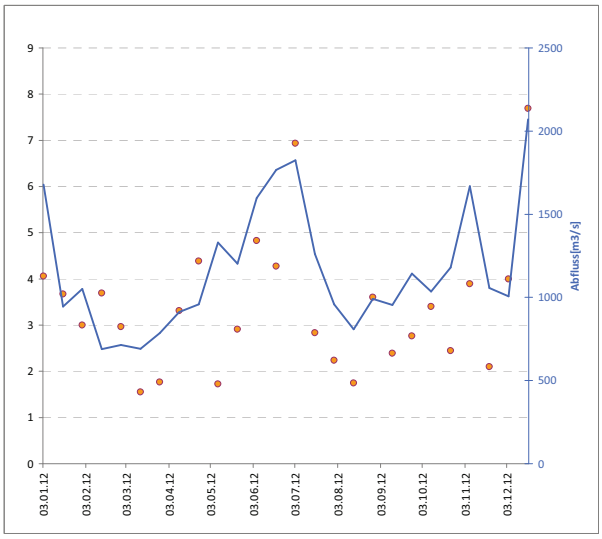
Mittelwert	0.034	
Max	0.062	14.02.12
90-Perzentil	0.047	
Median	0.029	
10-Perzentil	0.025	
Min	0.015	08.05.12

Schwankungsbreite Transporte [t/d]



Mittelwert	5.03
Maximum	68.26
Minimum	0.30

Einzelwerte Fracht [t/d] vs. Abfluss [m3/s]



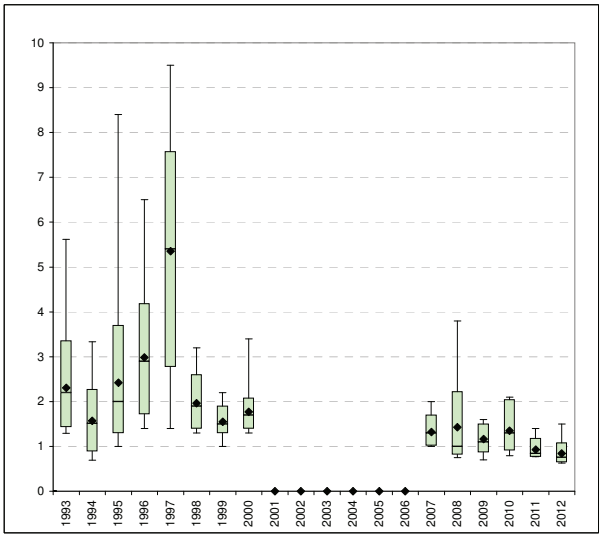
Mittelwert	3.39	
Max	7.69	18.12.12
90-Perzentil	4.61	
Median	3.15	
10-Perzentil	1.75	
Min	1.55	13.03.12

KUPFER(GEL)

OBERFLAECHENWASSER__7440-50-8&KUPFER(GEL)__GEW_RHEIN_RUES

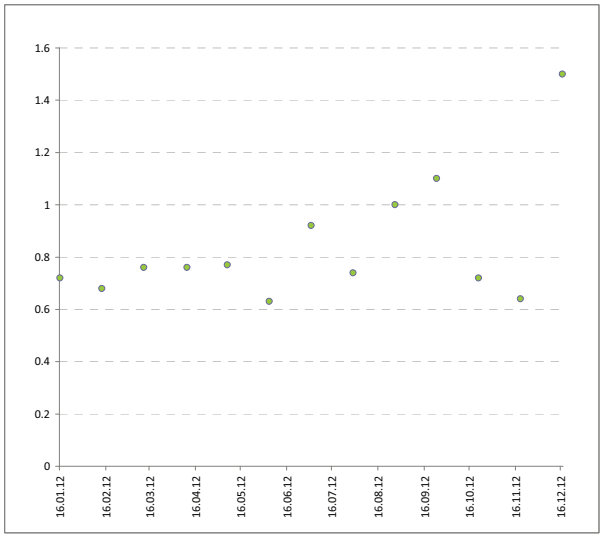
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	2	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



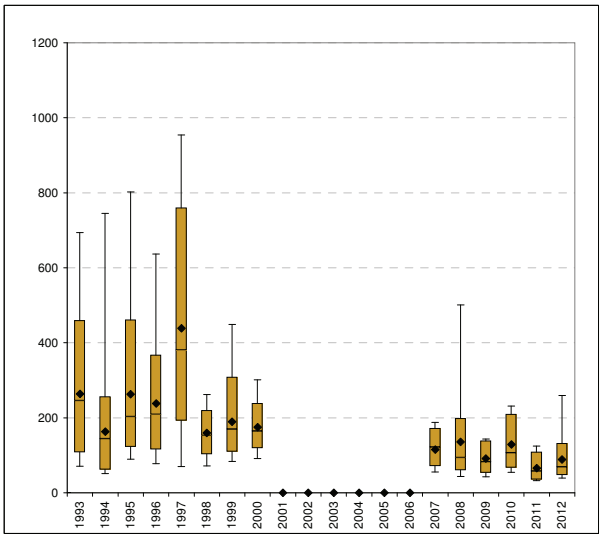
Mittelwert	1.93
Maximum	9.50
Minimum	0.63

Einzelwerte Messwert [µg/L]



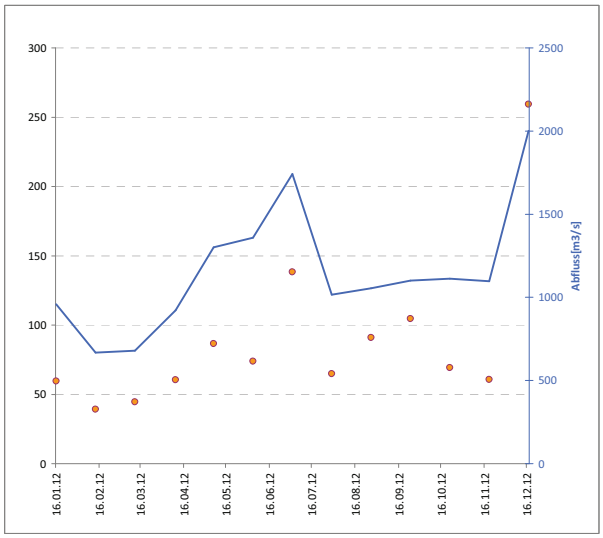
Mittelwert	0.84	
Max	1.50	17.12.12
90-Perzentil	1.08	
Median	0.76	
10-Perzentil	0.65	
Min	0.63	04.06.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	179.7
Maximum	954.1
Minimum	32.7

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



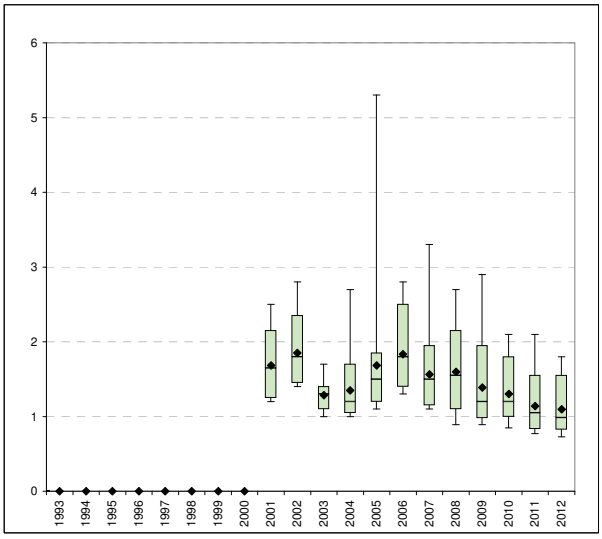
Mittelwert	88.7	
Max	259.4	17.12.12
90-Perzentil	131.6	
Median	69.2	
10-Perzentil	47.6	
Min	39.3	13.02.12

KUPFER(GES)

OBERFLAECHENWASSER__7440-50-8&KUPFER(GES)__GEW_RHEIN_RUES

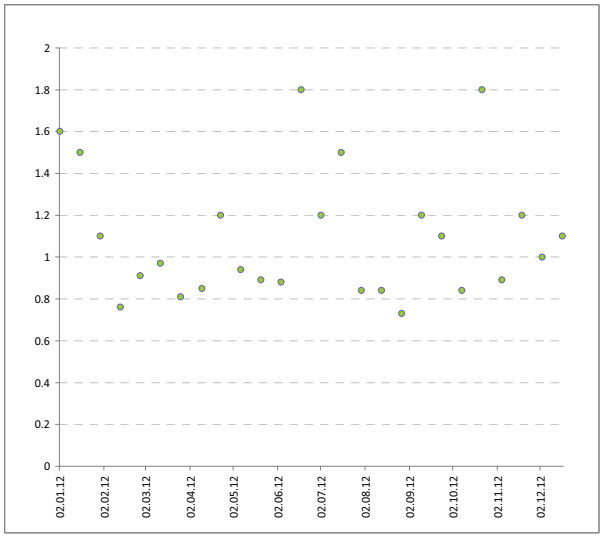
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	5	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



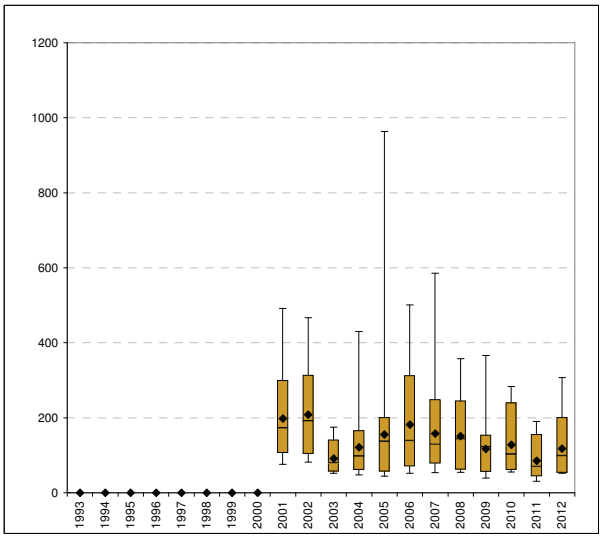
Mittelwert	1.48
Maximum	5.30
Minimum	0.73

Einzelwerte Messwert [µg/L]



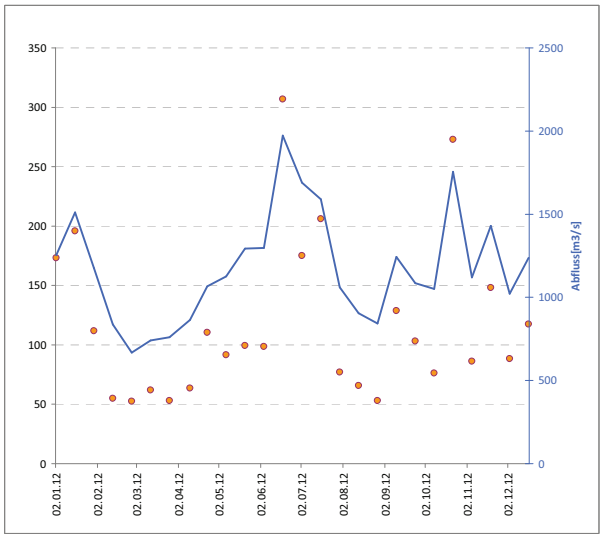
Mittelwert	1.09	
Max	1.80	22.10.12
90-Perzentil	1.55	
Median	0.99	
10-Perzentil	0.83	
Min	0.73	27.08.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	142.8
Maximum	963.7
Minimum	30.8

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



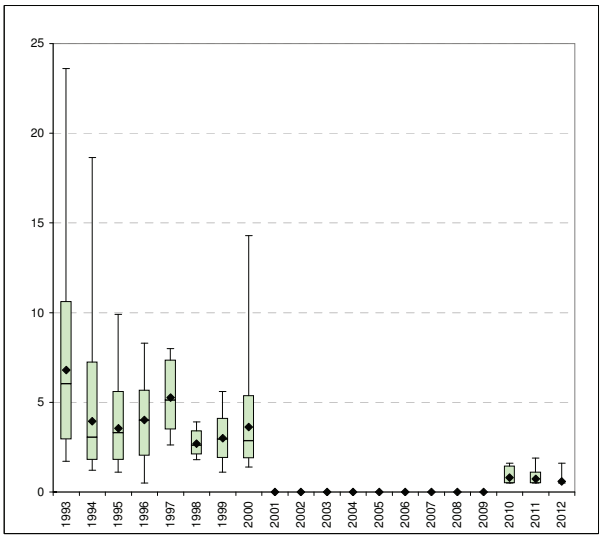
Mittelwert	118.2	
Max	306.8	18.06.12
90-Perzentil	200.9	
Median	99.1	
10-Perzentil	54.1	
Min	52.5	27.02.12

ZINK(GEL)

OBERFLAECHENWASSER__7440-66-6&ZINK(GEL)__GEW_RHEIN_RUES

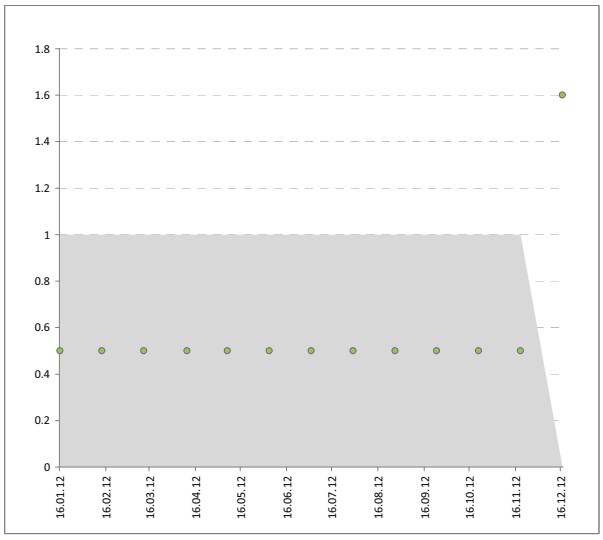
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	5	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]
UQN-Rhein (IKSR) Max.	18.6	[µg/L]
UQN-Rhein (IKSR) Mittelwert	10.8	[µg/L]

Schwankungsbreite Messwert [µg/L]



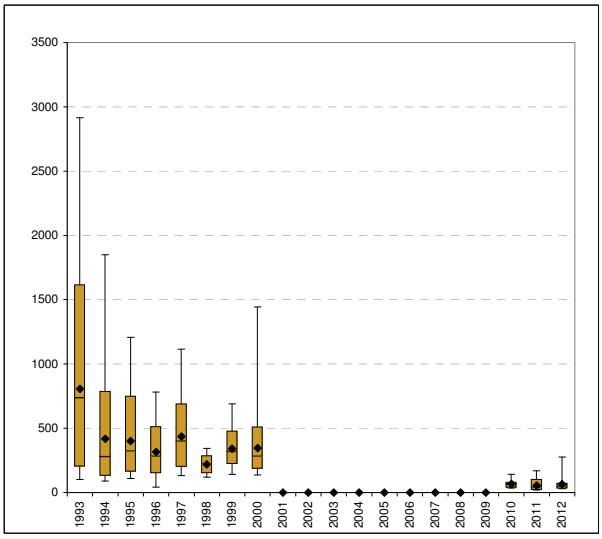
Mittelwert	3.18
Maximum	23.60
Minimum	0.50

Einzelwerte Messwert [µg/L]



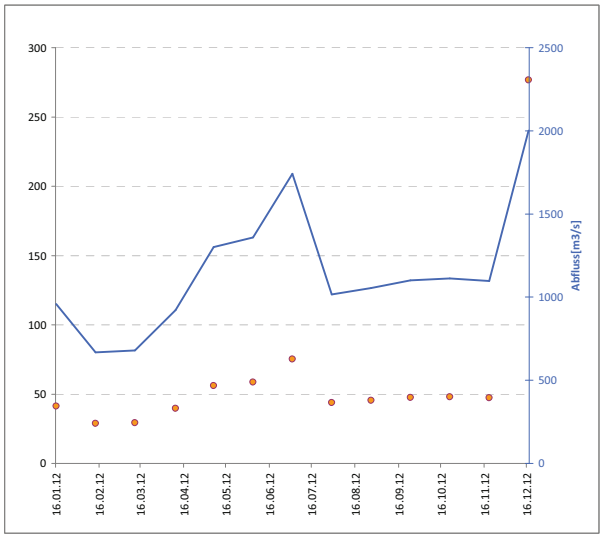
Mittelwert	0.58	
Max	1.60	17.12.12
90-Perzentil	0.50	
Median	0.50	
10-Perzentil	0.50	
Min	0.50	27.08.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	315.3
Maximum	2915.0
Minimum	19.9

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



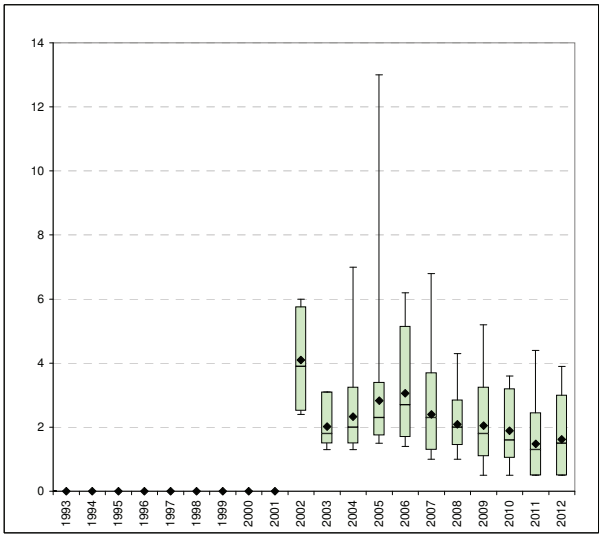
Mittelwert	64.5	
Max	276.7	17.12.12
90-Perzentil	71.9	
Median	47.4	
10-Perzentil	31.5	
Min	28.9	13.02.12

ZINK(GES)

OBERFLAECHENWASSER__7440-66-6&ZINK(GES)__GEW_RHEIN_RUES

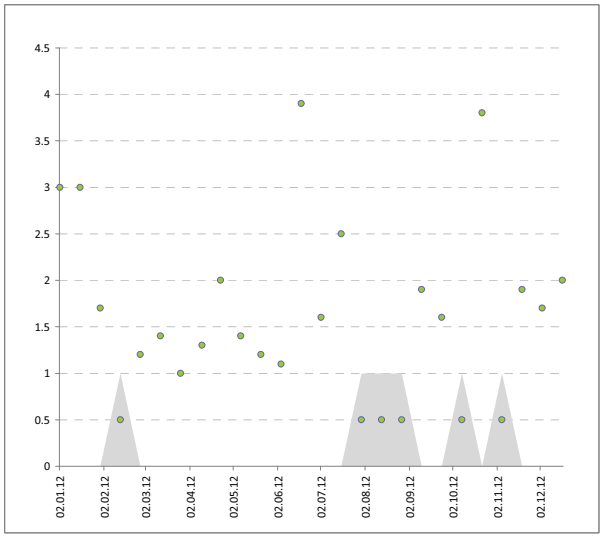
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	20	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



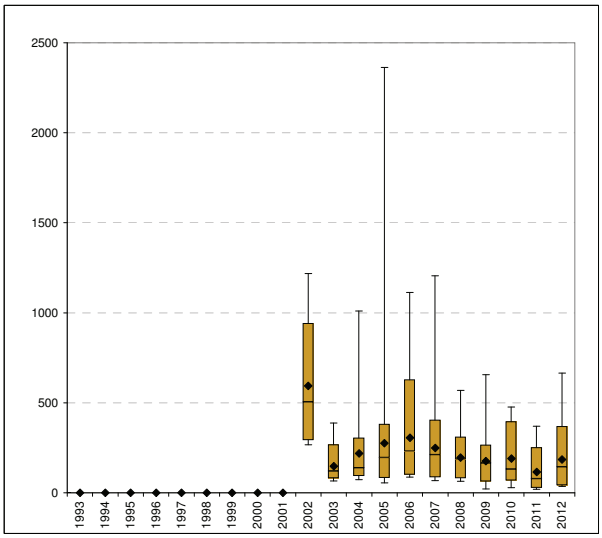
Mittelwert	2.35
Maximum	13
Minimum	0.5

Einzelwerte Messwert [µg/L]



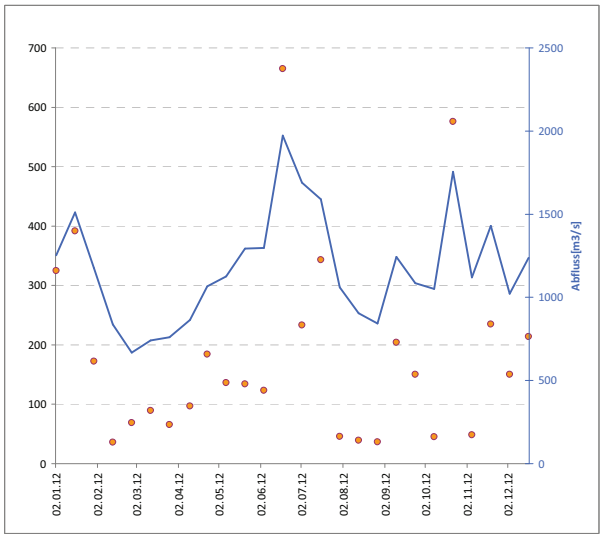
Mittelwert	1.62	
Max	3.9	18.06.12
90-Perzentil	3	
Median	1.5	
10-Perzentil	0.5	
Min	0.5	13.02.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	241.1
Maximum	2363.7
Minimum	20.0

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



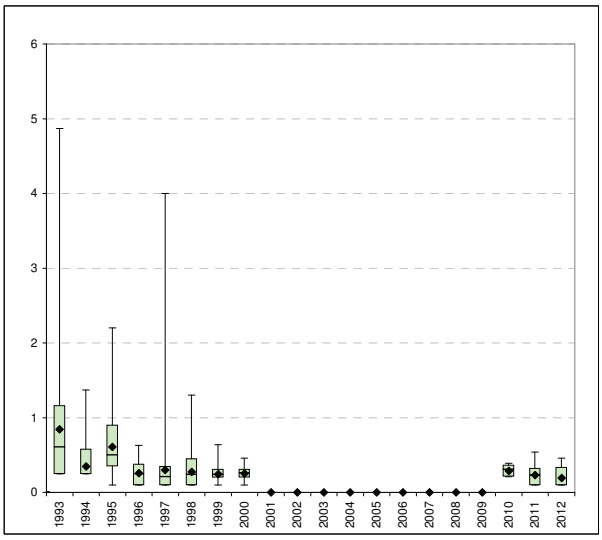
Mittelwert	185.0	
Max	664.8	18.06.12
90-Perzentil	367.5	
Median	143.2	
10-Perzentil	42.2	
Min	36.1	13.02.12

CHROM(GEL)

OBERFLAECHENWASSER__7440-47-3&CHROM(GEL)__GEW_RHEIN_RUES

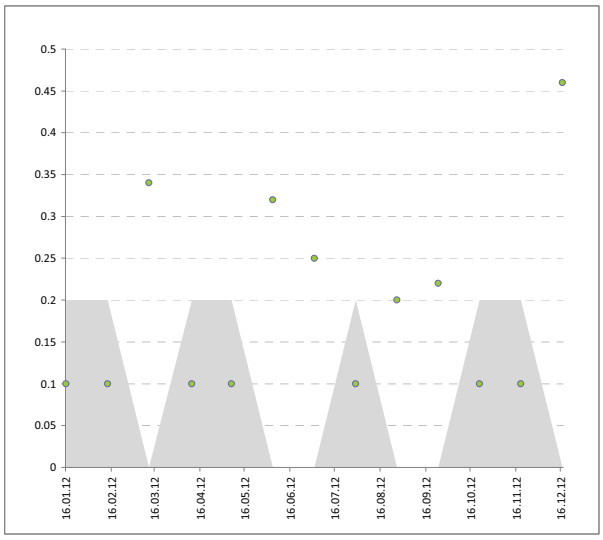
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	2	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]
UQN-Rhein (IKSR) Mittelwert	3.78	[µg/L]

Schwankungsbreite Messwert [µg/L]



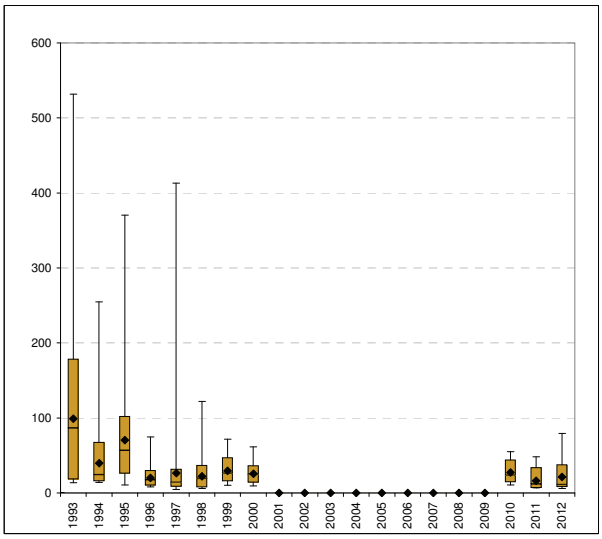
Mittelwert	0.35
Maximum	4.87
Minimum	0.1

Einzelwerte Messwert [µg/L]



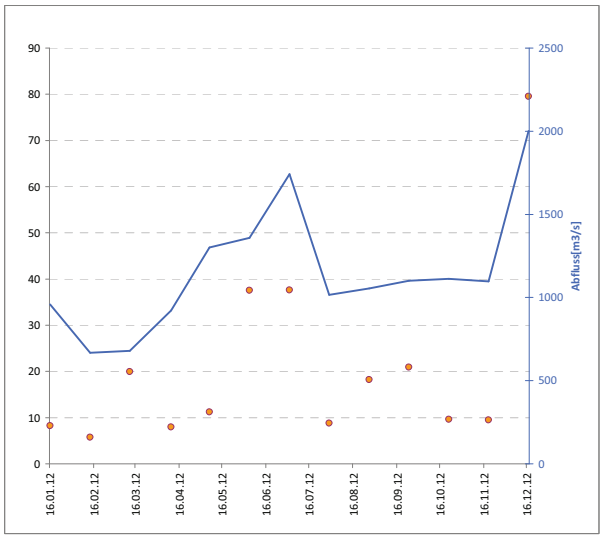
Mittelwert	0.19	
Max	0.46	17.12.12
90-Perzentil	0.34	
Median	0.1	
10-Perzentil	0.1	
Min	0.1	07.05.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	36.1
Maximum	531.9
Minimum	4.7

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



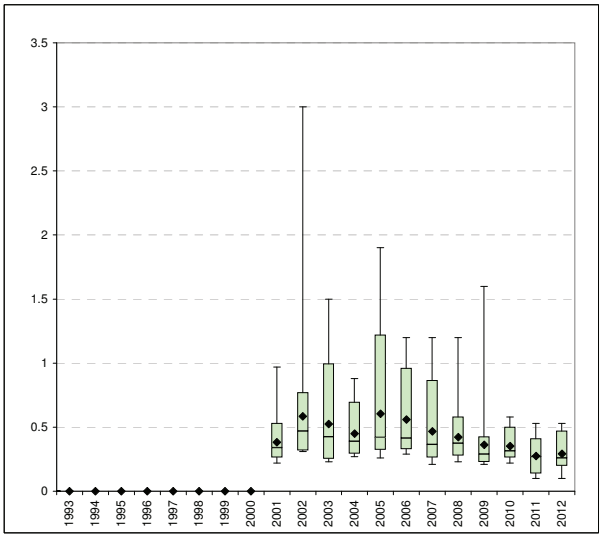
Mittelwert	21.1	
Max	79.5	17.12.12
90-Perzentil	37.6	
Median	11.2	
10-Perzentil	8.0	
Min	5.8	13.02.12

CHROM(GES)

OBERFLAECHENWASSER__7440-47-3&CHROM(GES)__GEW_RHEIN_RUES

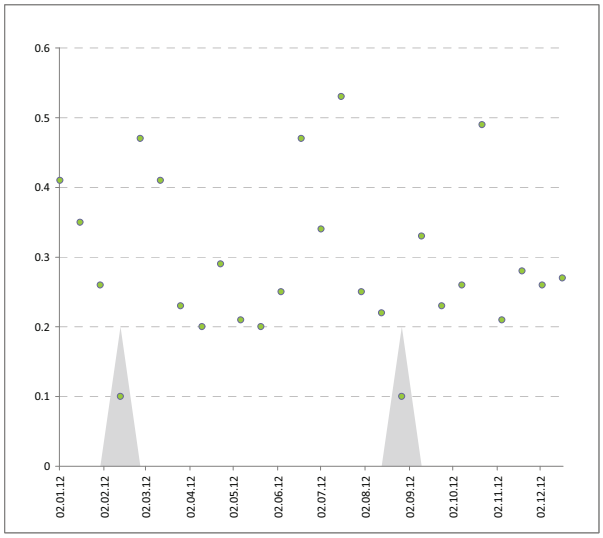
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	5	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



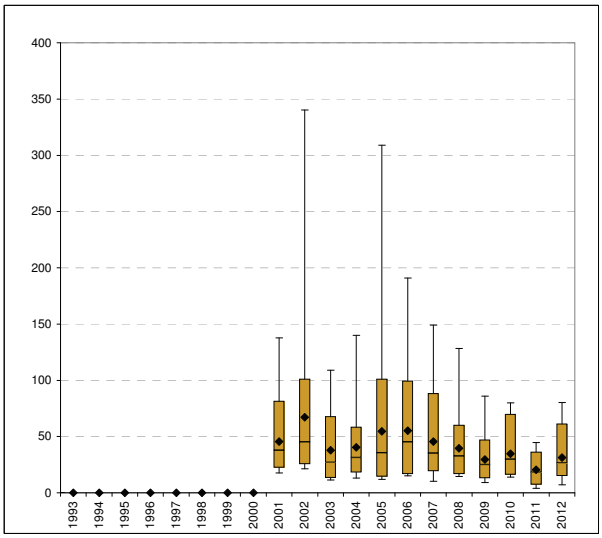
Mittelwert	0.44
Maximum	3
Minimum	0.1

Einzelwerte Messwert [µg/L]



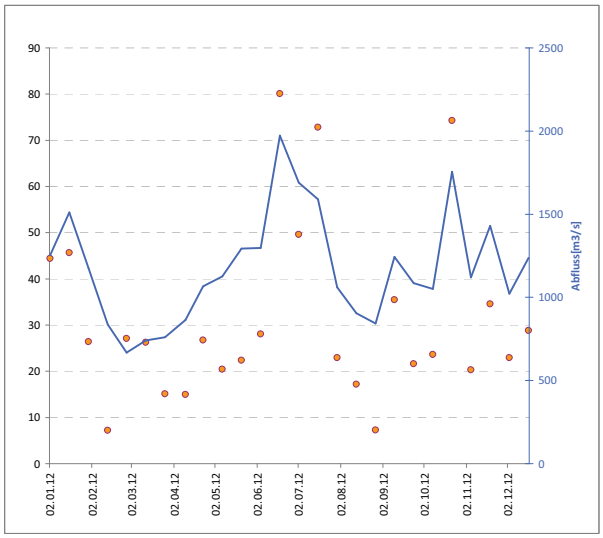
Mittelwert	0.29	
Max	0.53	16.07.12
90-Perzentil	0.47	
Median	0.26	
10-Perzentil	0.2	
Min	0.1	27.08.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	41.8
Maximum	340.2
Minimum	4.0

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



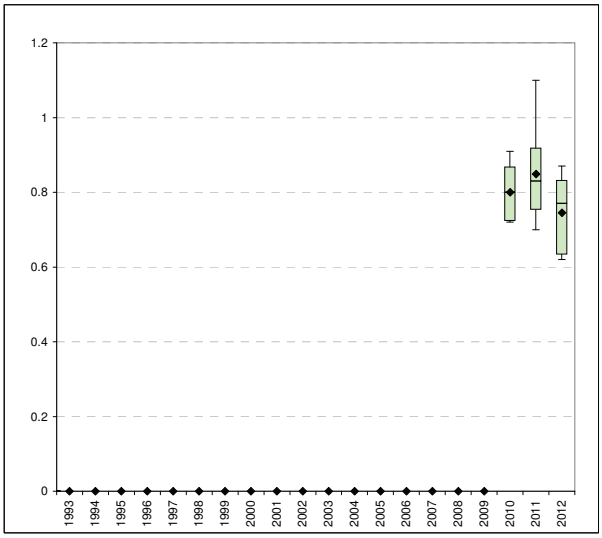
Mittelwert	31.4	
Max	80.1	18.06.12
90-Perzentil	61.2	
Median	26.3	
10-Perzentil	15.0	
Min	7.2	13.02.12

ARSEN(GEL)

OBERFLAECHENWASSER__7440-38-2&ARSEN(GEL)__GEW_RHEIN_RUES

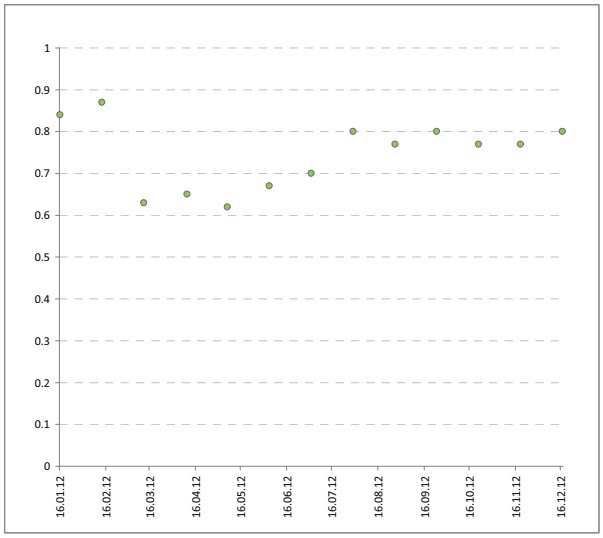
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



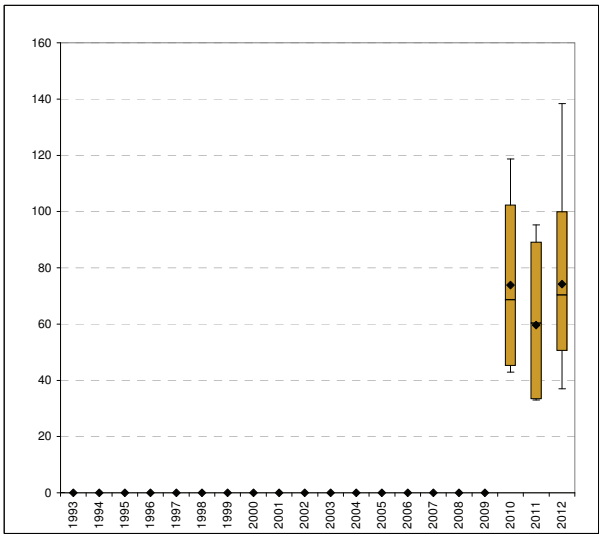
Mittelwert	0.80	
Maximum	1.1	
Minimum	0.62	

Einzelwerte Messwert [µg/L]



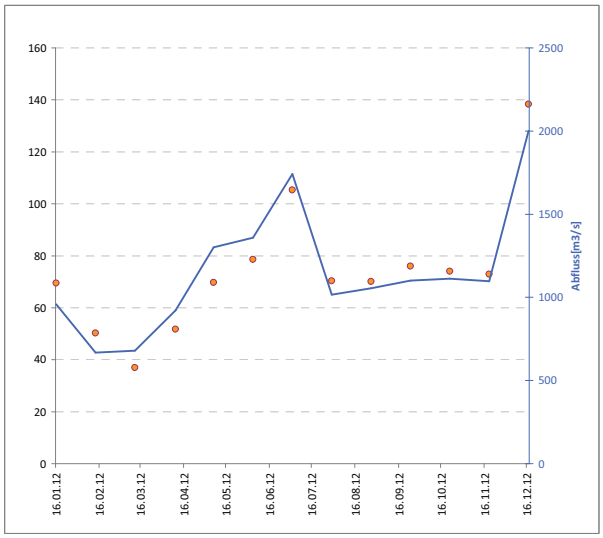
Mittelwert	0.75	
Max	0.87	13.02.12
90-Perzentil	0.83	
Median	0.77	
10-Perzentil	0.63	
Min	0.62	07.05.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	69.2	
Maximum	138.3	
Minimum	33.0	

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



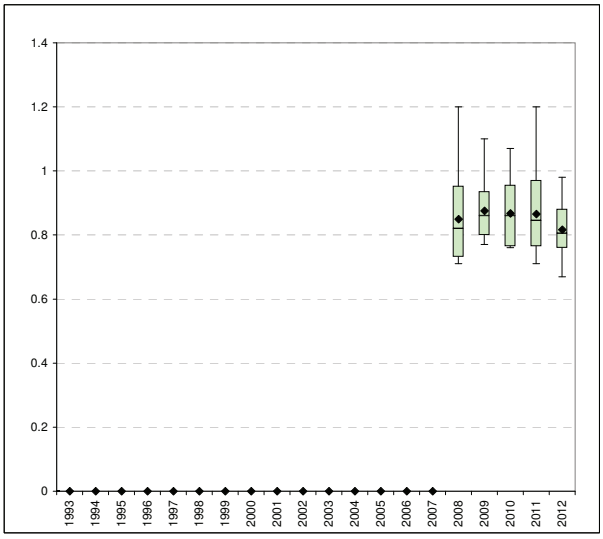
Mittelwert	74.1	
Max	138.3	17.12.12
90-Perzentil	100.0	
Median	70.3	
10-Perzentil	50.6	
Min	37.0	12.03.12

ARSEN(GES)

OBERFLAECHENWASSER__7440-38-2&ARSEN(GES)__GEW_RHEIN_RUES

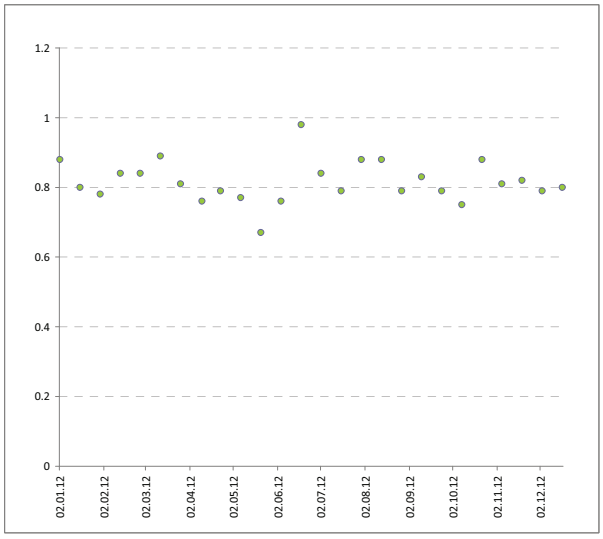
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	HK+0.5 = 4.5	[µg/L]

Schwankungsbreite Messwert [µg/L]



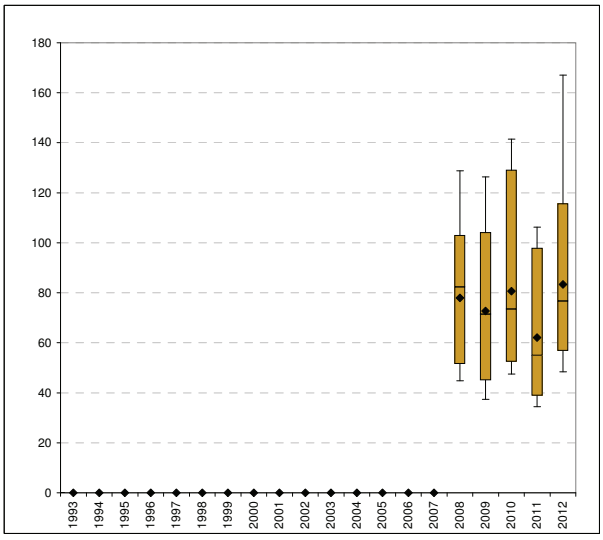
Mittelwert	0.85
Maximum	1.20
Minimum	0.67

Einzelwerte Messwert [µg/L]



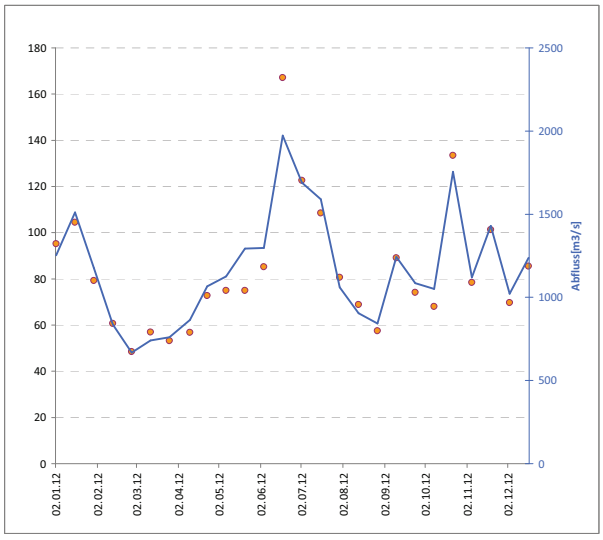
Mittelwert	0.82	
Max	0.98	18.06.12
90-Perzentil	0.88	
Median	0.81	
10-Perzentil	0.76	
Min	0.67	21.05.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	75.4
Maximum	167.1
Minimum	34.4

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



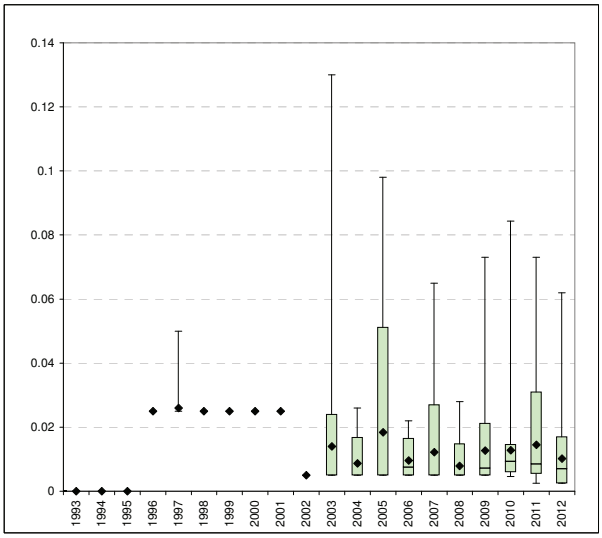
Mittelwert	83.4	
Max	167.1	18.06.12
90-Perzentil	115.6	
Median	76.7	
10-Perzentil	56.9	
Min	48.4	27.02.12

MECOPROP

OBERFLAECHENWASSER__7085-19-0&MECOPROP__GEW_RHEIN_RUES

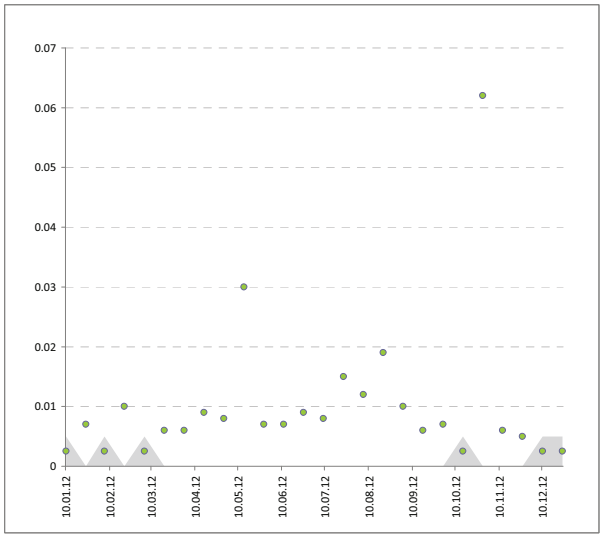
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	0.1	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	0.1	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	0.1	[µg/L]

Schwankungsbreite Messwert [µg/L]



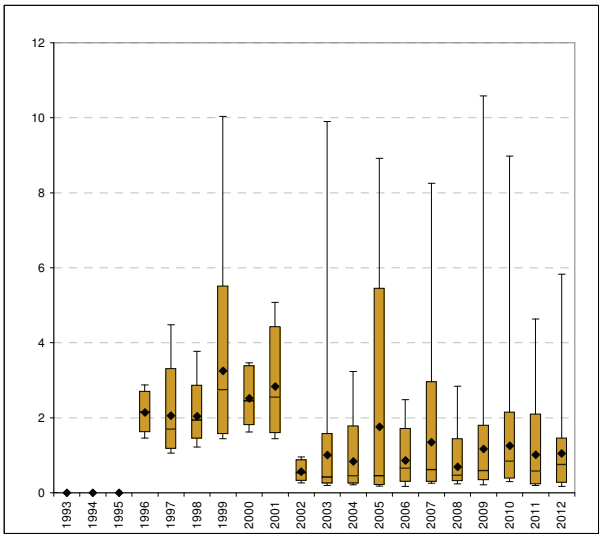
Mittelwert	0.016
Maximum	0.130
Minimum	0.003

Einzelwerte Messwert [µg/L]



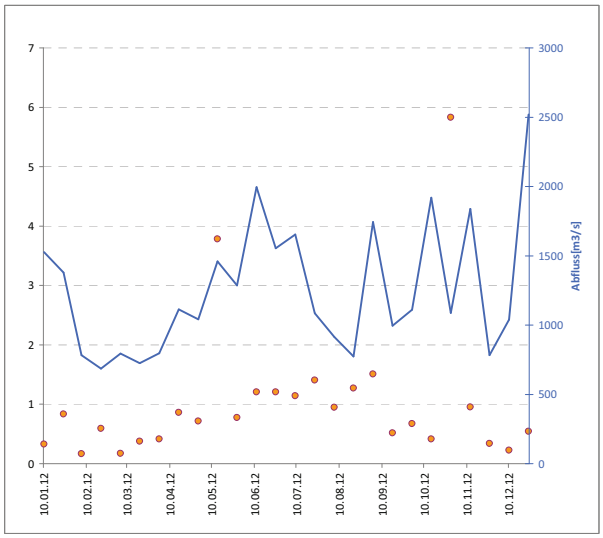
Mittelwert	0.010	
Max	0.062	29.10.12
90-Perzentil	0.017	
Median	0.007	
10-Perzentil	0.003	
Min	0.003	24.12.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	1.55
Maximum	10.58
Minimum	0.17

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



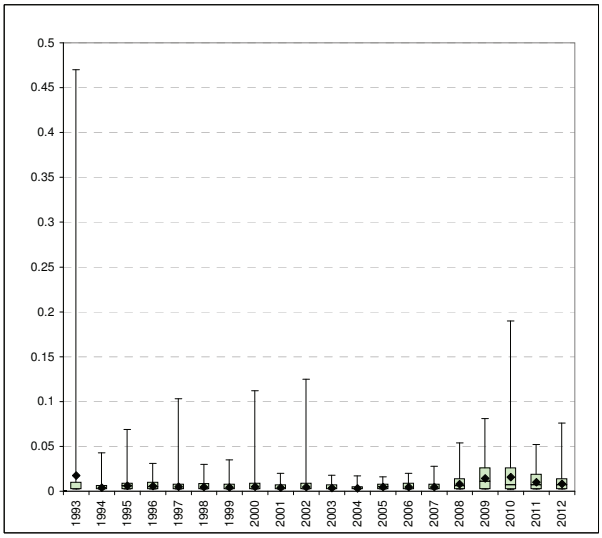
Mittelwert	1.05	
Max	5.83	29.10.12
90-Perzentil	1.46	
Median	0.75	
10-Perzentil	0.28	
Min	0.17	06.02.12

METOLACHLOR

OBERFLAECHENWASSER__51218-45-2&METOLACHLOR__GEW_RHEIN_RUES

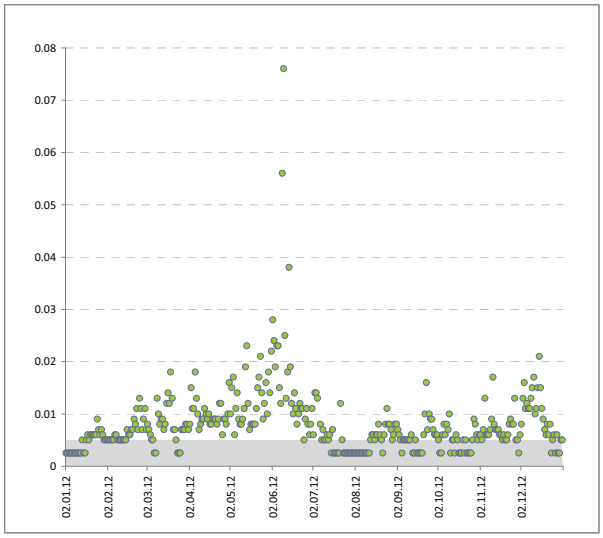
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	0.1	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	0.1	[µg/L]
Zielvorgabe IAWR (Maximalwert)	0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	0.2	[µg/L]

Schwankungsbreite Messwert [µg/L]



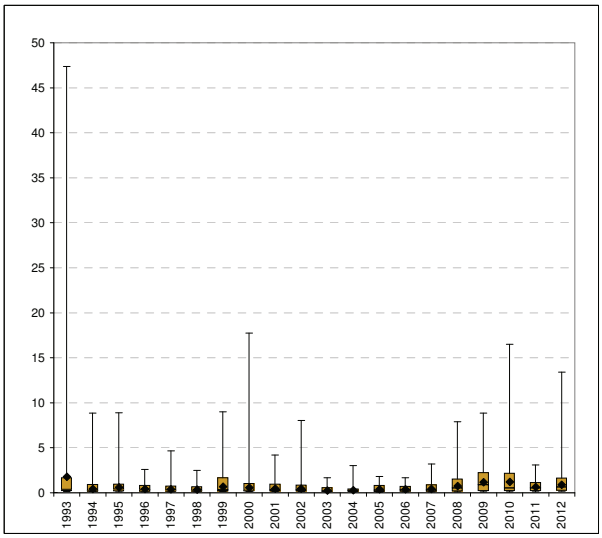
Mittelwert	0.00684
Maximum	0.47
Minimum	0.002

Einzelwerte Messwert [µg/L]



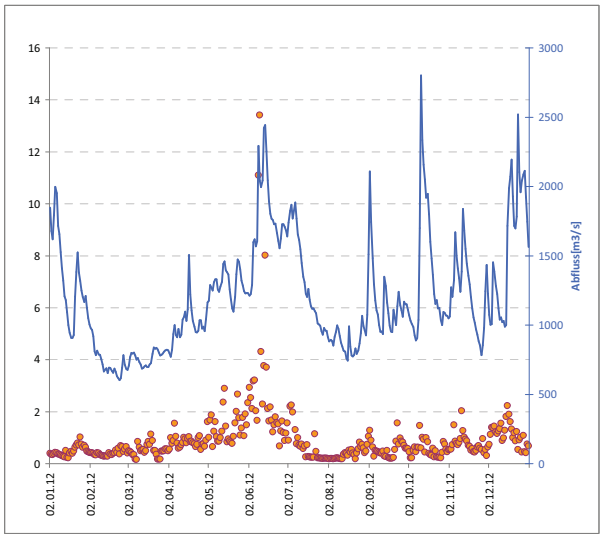
Mittelwert	0.008	
Max	0.076	10.06.12
90-Perzentil	0.014	
Median	0.007	
10-Perzentil	0.003	
Min	0.003	27.07.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	0.63
Maximum	47.36
Minimum	0.08

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



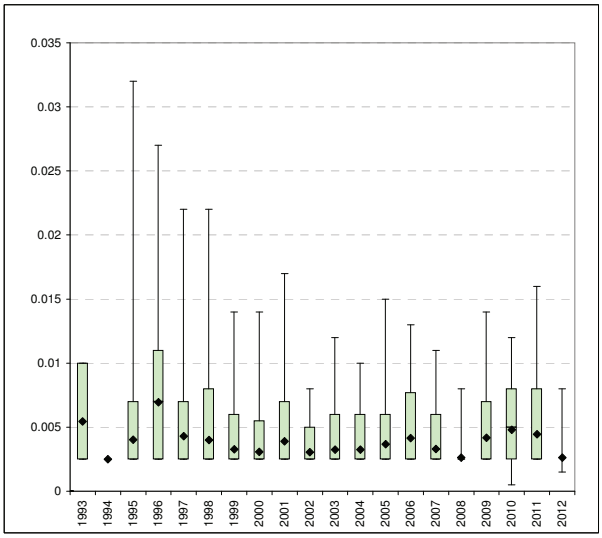
Mittelwert	0.89	
Max	13.41	10.06.12
90-Perzentil	1.62	
Median	0.64	
10-Perzentil	0.24	
Min	0.16	08.03.12

DIAZINON

OBERFLAECHENWASSER__333-41-5&DIAZINON__GEW_RHEIN_RUES

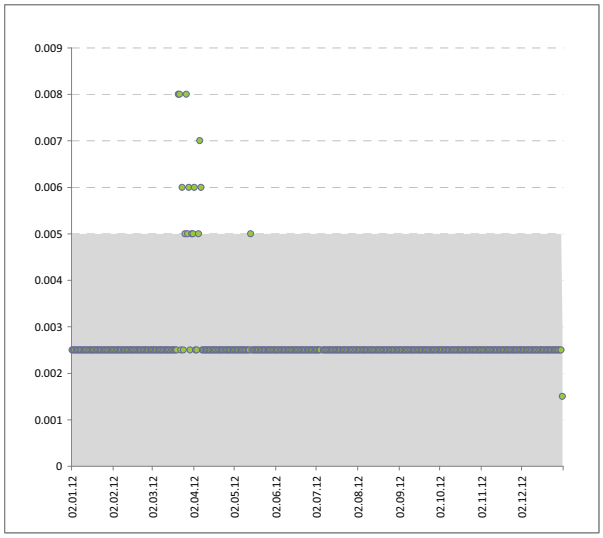
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	0.1	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	0.02	[µg/L]
Zielvorgabe IAWR (Maximalwert)	0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



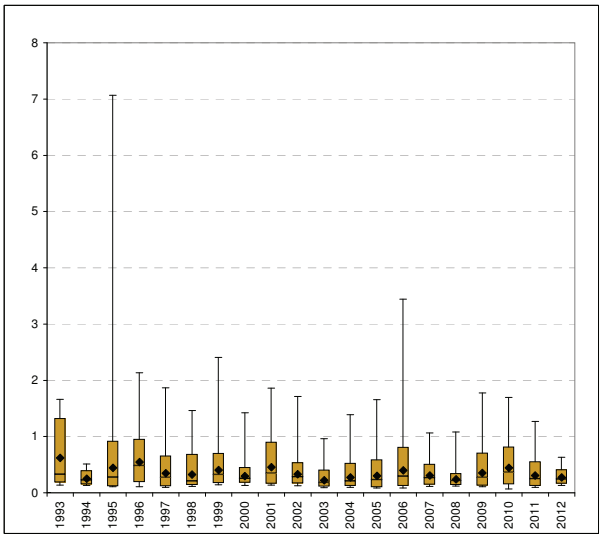
Mittelwert	0.0038
Maximum	0.0320
Minimum	0.0005

Einzelwerte Messwert [µg/L]



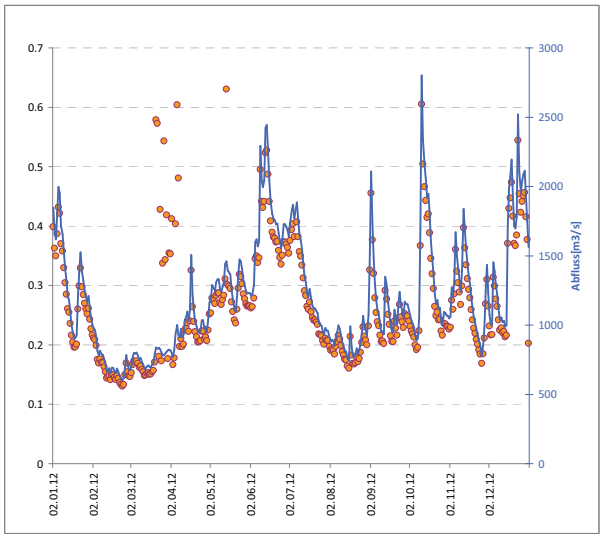
Mittelwert	0.00263	
Max	0.008	22.03.12
90-Perzentil	0.0025	
Median	0.0025	
10-Perzentil	0.0025	
Min	0.0015	01.01.13

Schwankungsbreite Transporte [kg/d]



Mittelwert	0.36
Maximum	7.06
Minimum	0.07

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



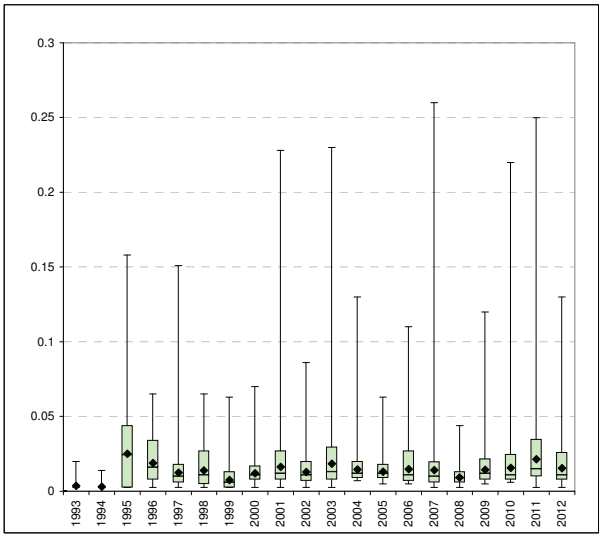
Mittelwert	0.27	
Max	0.63	14.05.12
90-Perzentil	0.41	
Median	0.24	
10-Perzentil	0.17	
Min	0.13	24.02.12

DEET

OBERFLAECHENWASSER__134-62-3&DEET__GEW_RHEIN_RUES

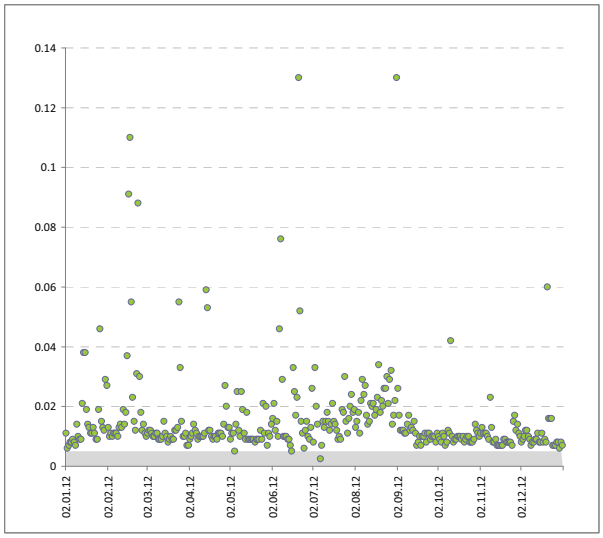
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	0.1	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	-	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



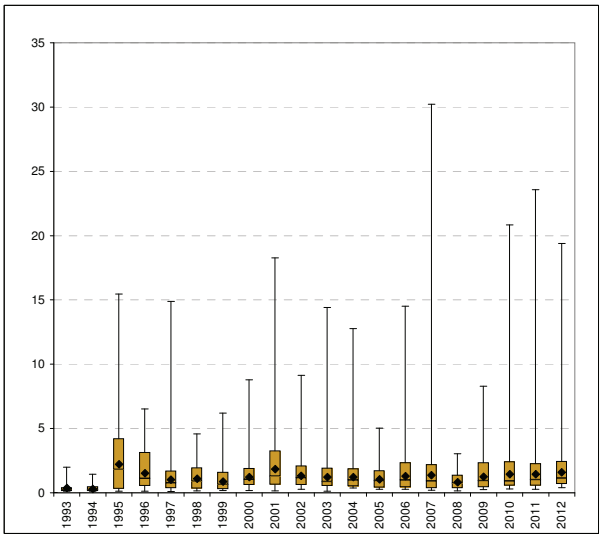
Mittelwert	0.01382
Maximum	0.26
Minimum	0.0025

Einzelwerte Messwert [µg/L]



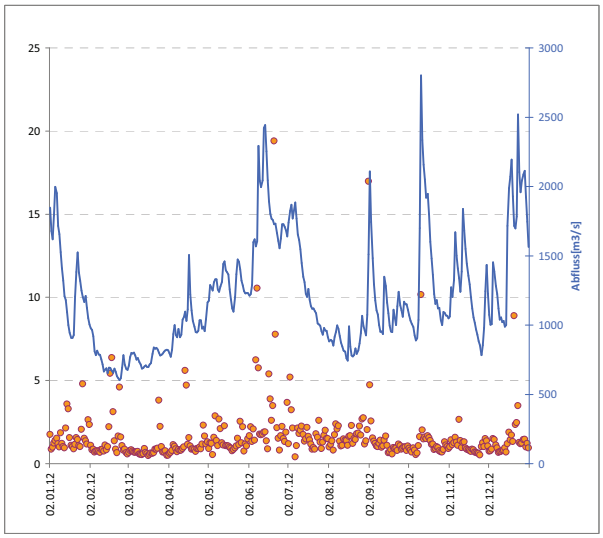
Mittelwert	0.01549	
Max	0.13	21.06.12
90-Perzentil	0.026	
Median	0.011	
10-Perzentil	0.008	
Min	0.0025	07.07.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	1.22
Maximum	30.21
Minimum	0.10

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



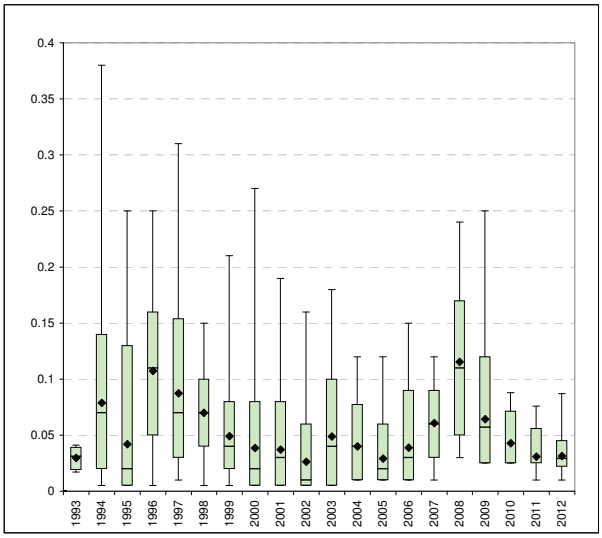
Mittelwert	1.59	
Max	19.39	21.06.12
90-Perzentil	2.43	
Median	1.15	
10-Perzentil	0.69	
Min	0.41	07.07.12

CHLOROFORM

OBERFLAECHENWASSER__67-66-3&CHLOROFORM__GEW_RHEIN_RUES

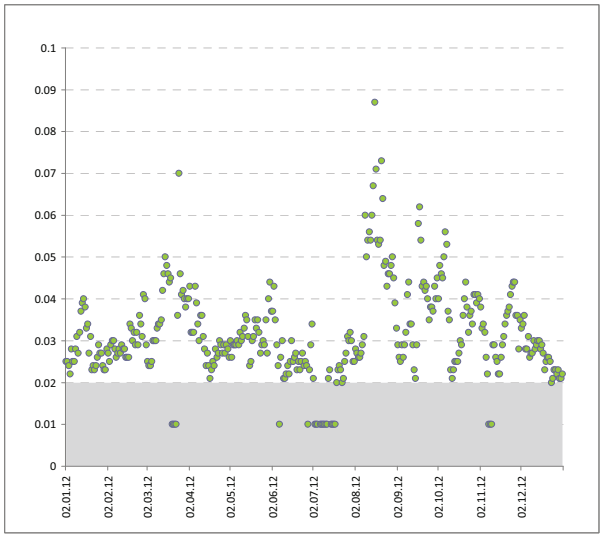
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	0.6	[µg/L]
Zielvorgabe IAWR (Maximalwert)	0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	2.5	[µg/L]

Schwankungsbreite Messwert [µg/L]



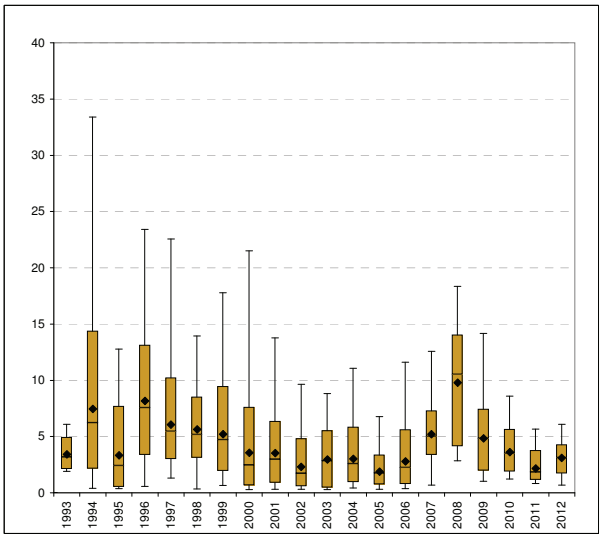
Mittelwert	0.0534
Maximum	0.38
Minimum	0.005

Einzelwerte Messwert [µg/L]



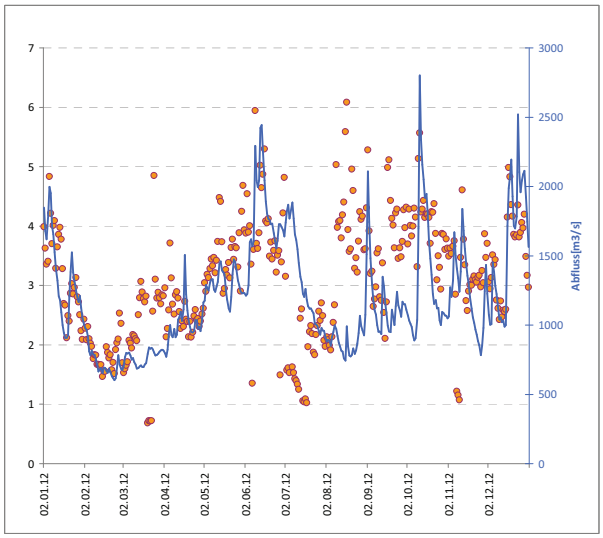
Mittelwert	0.031	
Max	0.087	16.08.12
90-Perzentil	0.045	
Median	0.029	
10-Perzentil	0.022	
Min	0.010	16.07.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	4.4
Maximum	33.4
Minimum	0.3

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



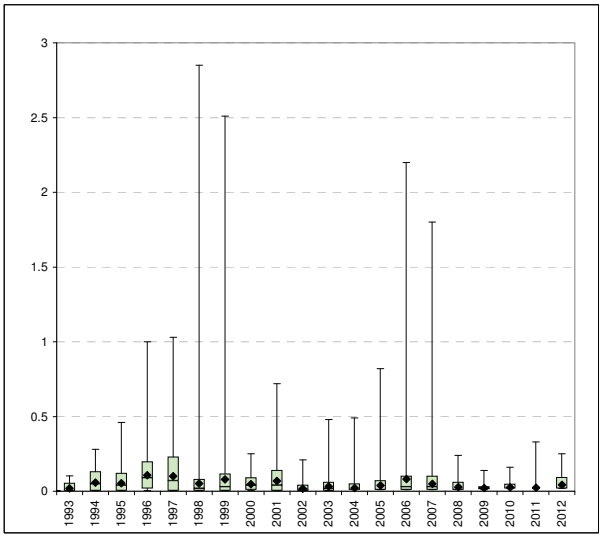
Mittelwert	3.1	
Max	6.1	17.08.12
90-Perzentil	4.3	
Median	3.1	
10-Perzentil	1.7	
Min	0.7	20.03.12

DICHLORMETHAN

OBERFLAECHENWASSER__75-09-2&DICHLORMETHAN__GEW_RHEIN_RUES

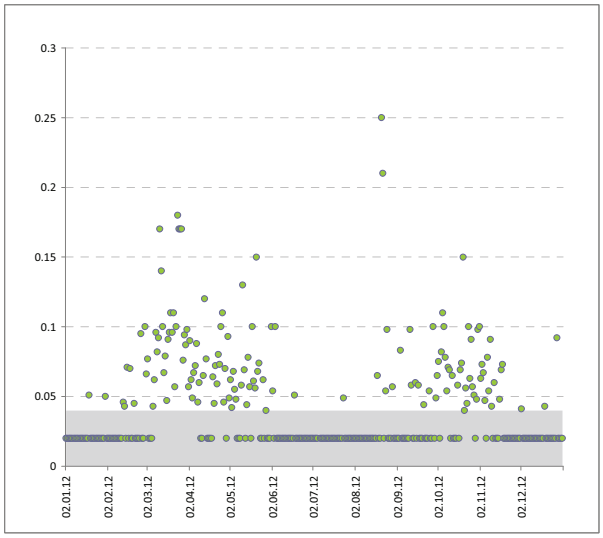
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	20	[µg/L]

Schwankungsbreite Messwert [µg/L]



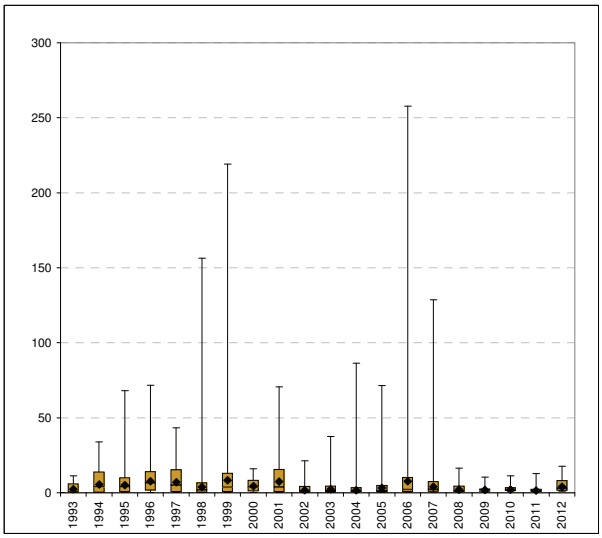
Mittelwert	0.048
Maximum	2.850
Minimum	0.004

Einzelwerte Messwert [µg/L]



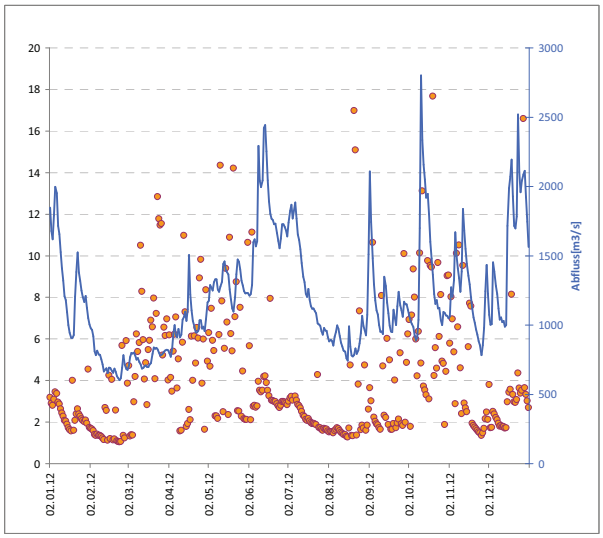
Mittelwert	0.042	
Max	0.250	21.08.12
90-Perzentil	0.093	
Median	0.020	
10-Perzentil	0.020	
Min	0.020	28.07.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	4.21
Maximum	257.68
Minimum	0.20

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



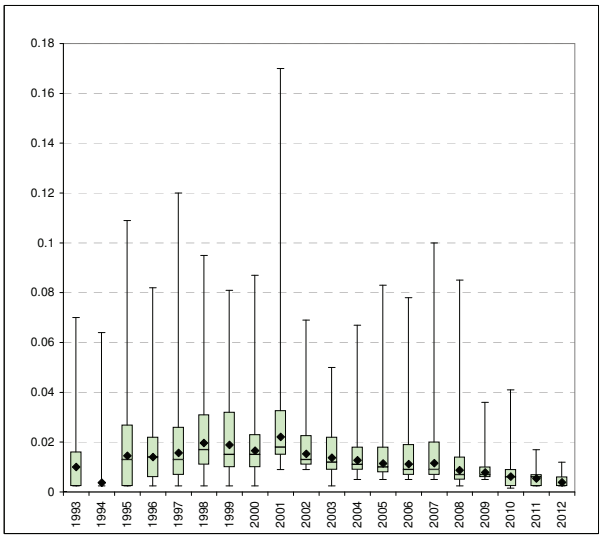
Mittelwert	4.05	
Max	17.67	20.10.12
90-Perzentil	8.11	
Median	2.95	
10-Perzentil	1.54	
Min	1.04	24.02.12

ATRAZIN

OBERFLAECHENWASSER__1912-24-9&ATRAZIN__GEW_RHEIN_RUES

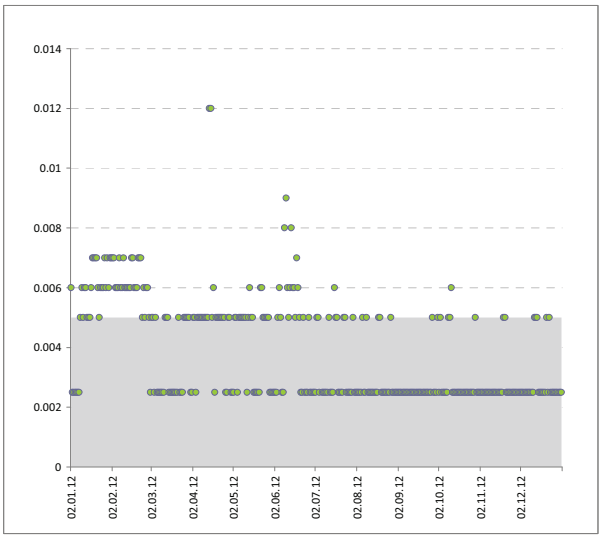
Verordnung		Wert	Einheit
Grenzwert GSchV (Maximalwert)		0.1	[µg/L]
Zielvorgabe IKSR (90 Perzentil)		0.1	[µg/L]
Zielvorgabe IAWR (Maximalwert)		0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	MW	0.6	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	Max	2	[µg/L]

Schwankungsbreite Messwert [µg/L]



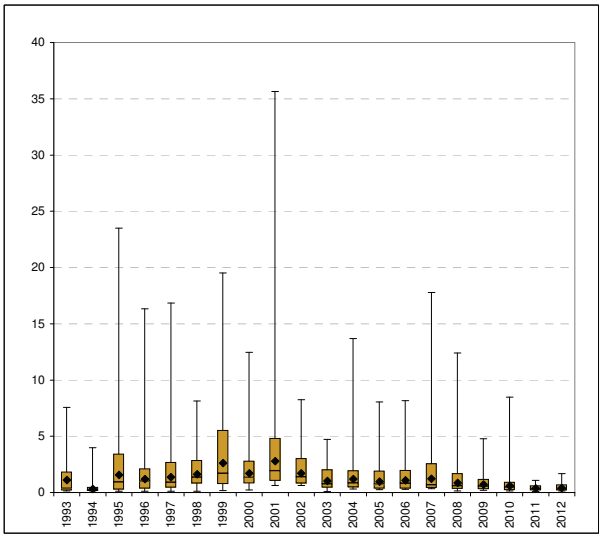
Mittelwert	0.01217
Maximum	0.17
Minimum	0.0015

Einzelwerte Messwert [µg/L]



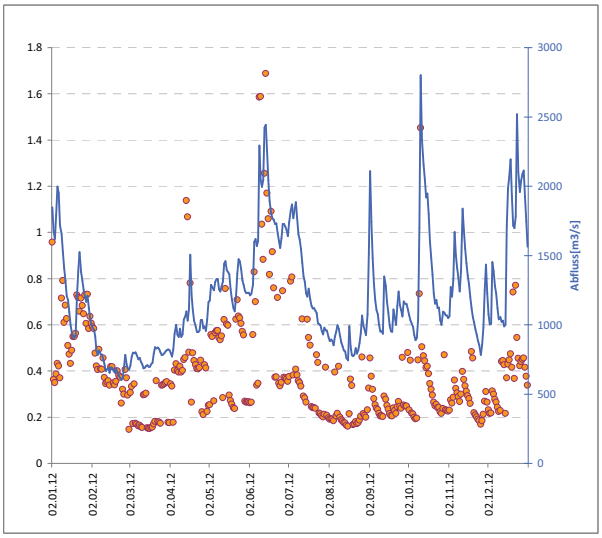
Mittelwert	0.00382	
Max	0.012	15.04.12
90-Perzentil	0.006	
Median	0.0025	
10-Perzentil	0.0025	
Min	0.0025	31.08.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	1.22
Maximum	35.64
Minimum	0.10

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



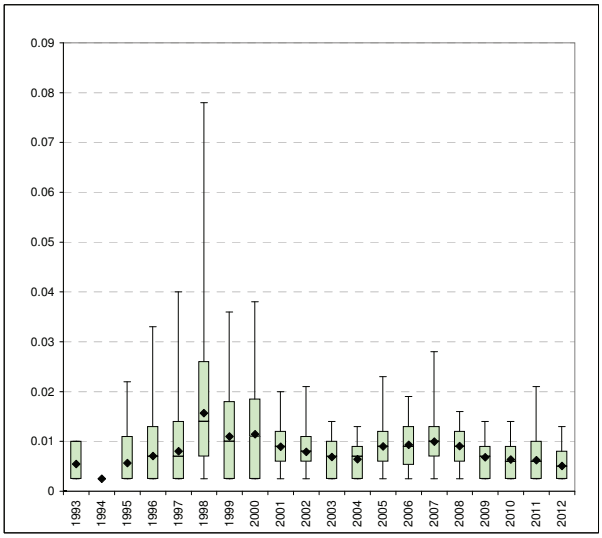
Mittelwert	0.39	
Max	1.69	14.06.12
90-Perzentil	0.67	
Median	0.34	
10-Perzentil	0.19	
Min	0.15	01.03.12

DESETHYLATRAZIN

OBERFLAECHENWASSER__6190-65-4&DESETHYLATRAZIN__GEW_RHEIN_RUES

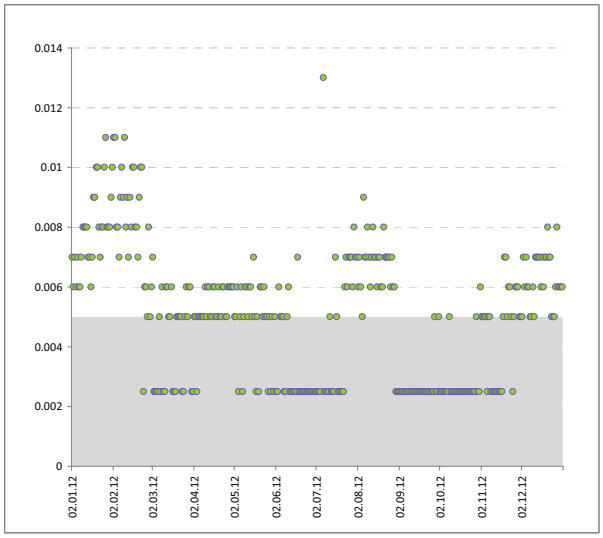
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	0.1	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



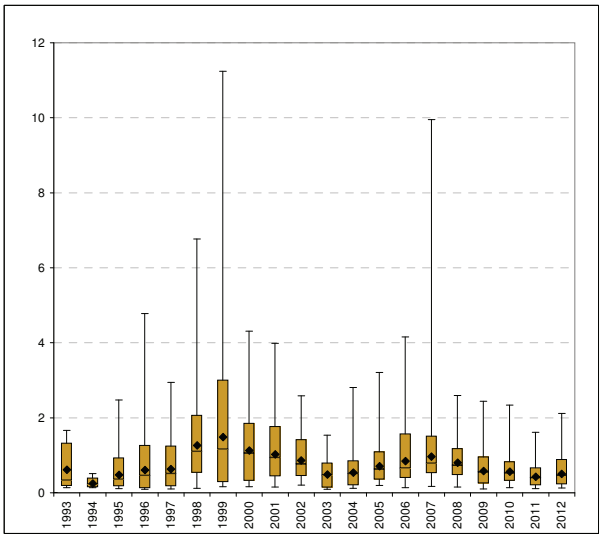
Mittelwert	0.00794
Maximum	0.078
Minimum	0.0025

Einzelwerte Messwert [µg/L]



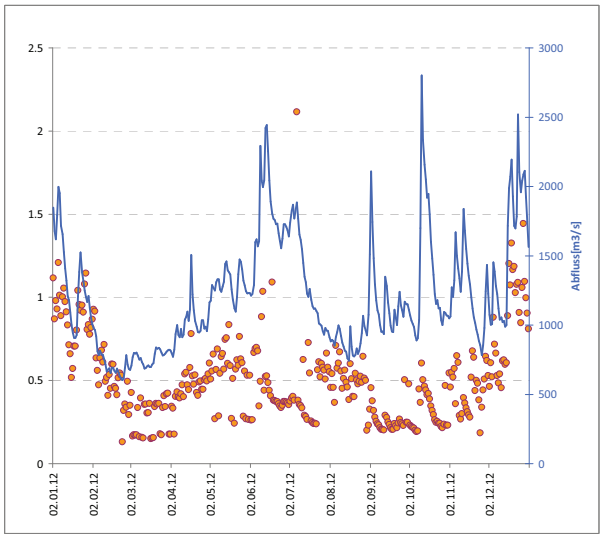
Mittelwert	0.00504	
Max	0.013	07.07.12
90-Perzentil	0.008	
Median	0.005	
10-Perzentil	0.0025	
Min	0.0025	02.06.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	0.74
Maximum	11.24
Minimum	0.09

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



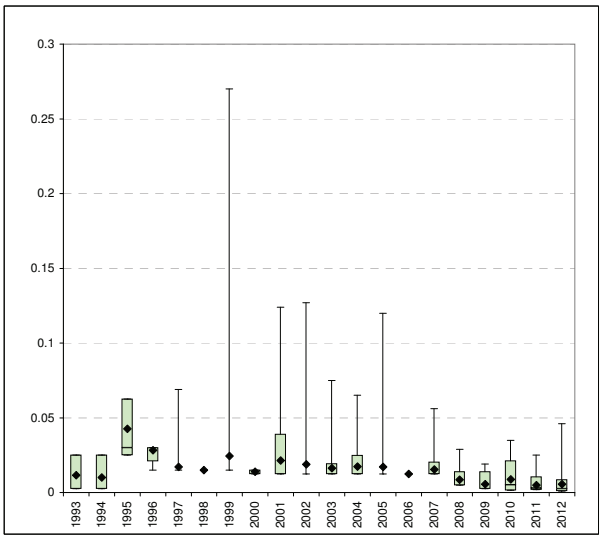
Mittelwert	0.50	
Max	2.12	07.07.12
90-Perzentil	0.89	
Median	0.47	
10-Perzentil	0.23	
Min	0.13	24.02.12

ISOPROTURON

OBERFLAECHENWASSER__34123-59-6&ISOPROTURON__GEW_RHEIN_RUES

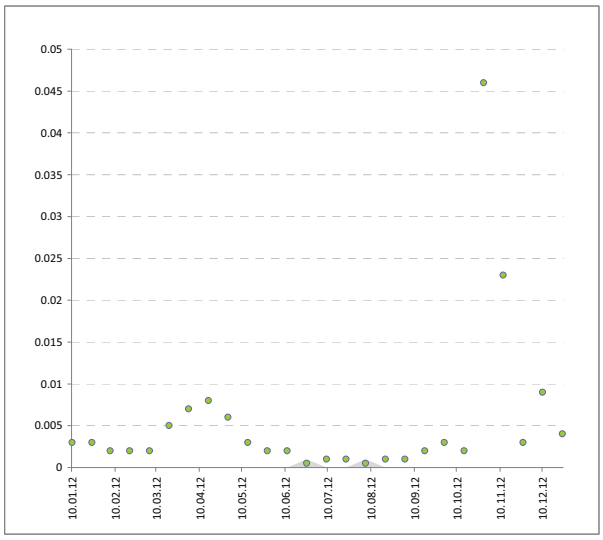
Verordnung		Wert	Einheit
Grenzwert GSchV (Maximalwert)		0.1	[µg/L]
Zielvorgabe IKSR (90 Perzentil)		0.1	[µg/L]
Zielvorgabe IAWR (Maximalwert)		0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	MW	0.3	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	Max	1	[µg/L]

Schwankungsbreite Messwert [µg/L]



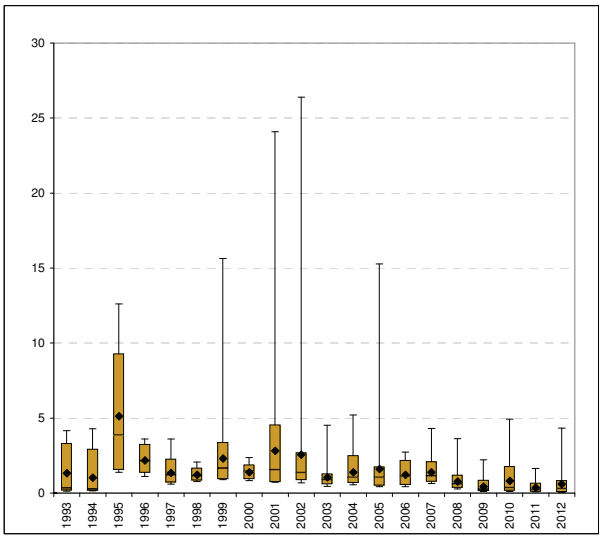
Mittelwert	0.01575
Maximum	0.27
Minimum	0.0005

Einzelwerte Messwert [µg/L]



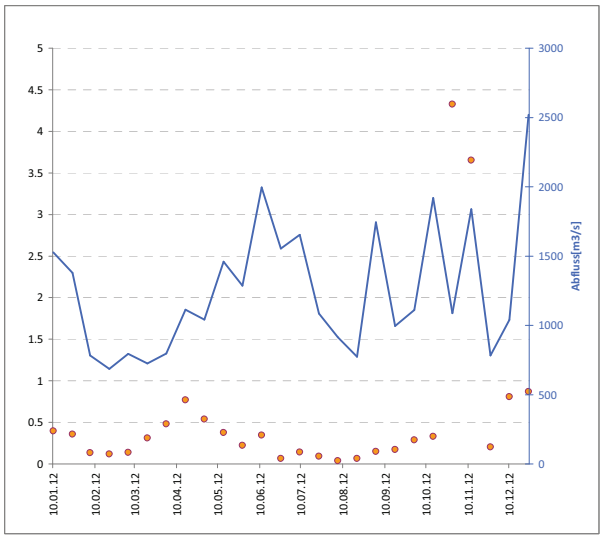
Mittelwert	0.00546	
Max	0.046	29.10.12
90-Perzentil	0.0085	
Median	0.0025	
10-Perzentil	0.001	
Min	0.0005	06.08.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	1.54
Maximum	26.40
Minimum	0.04

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



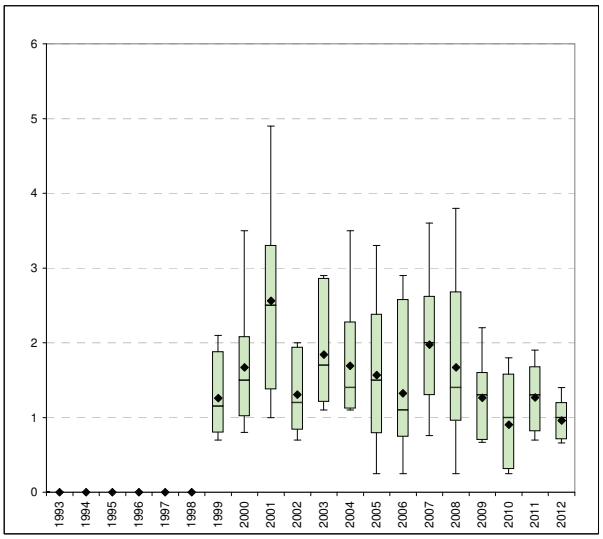
Mittelwert	0.59	
Max	4.33	29.10.12
90-Perzentil	0.84	
Median	0.30	
10-Perzentil	0.08	
Min	0.04	06.08.12

EDTA

OBERFLAECHENWASSER__60-00-4&EDTA__GEW_RHEIN_RUES

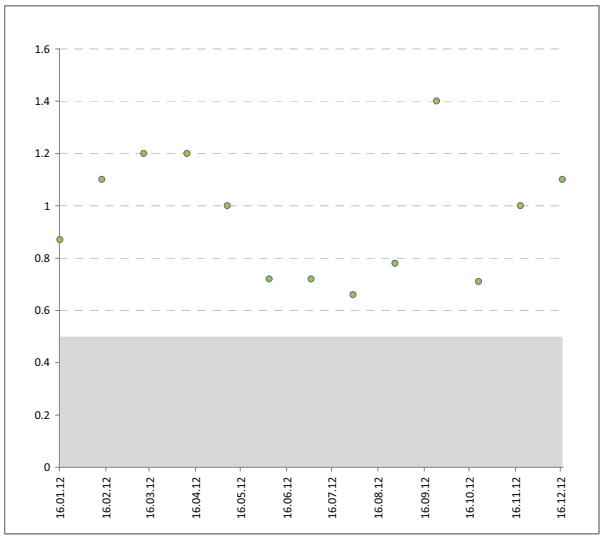
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	5	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



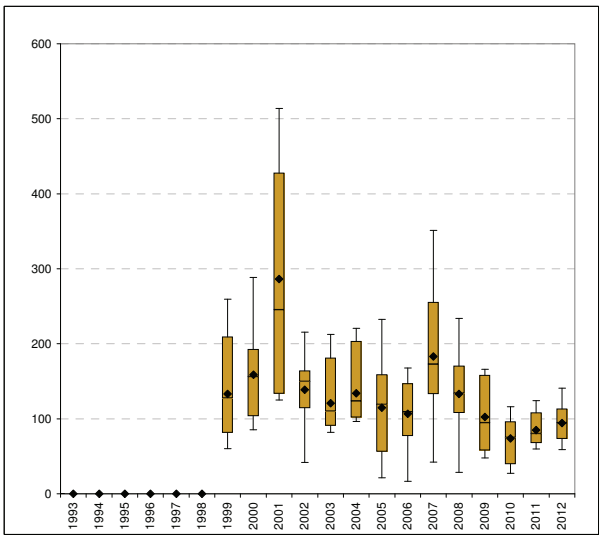
Mittelwert	1.52	
Maximum	4.90	
Minimum	0.25	

Einzelwerte Messwert [µg/L]



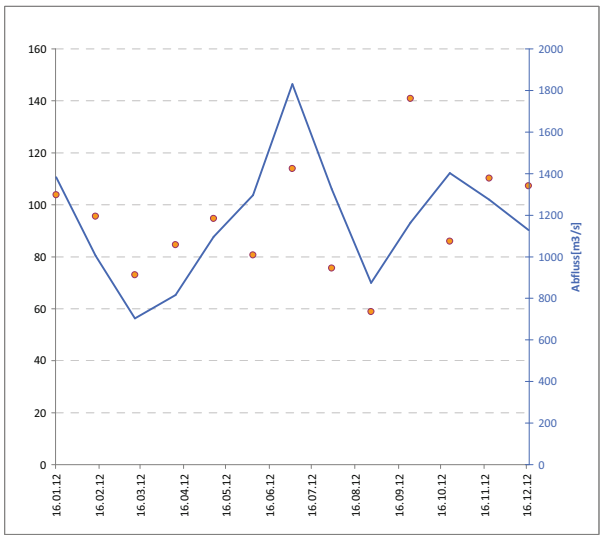
Mittelwert	0.96	
Max	1.40	24.09.12
90-Perzentil	1.20	
Median	1.00	
10-Perzentil	0.71	
Min	0.66	30.07.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	133.2	
Maximum	513.8	
Minimum	16.4	

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



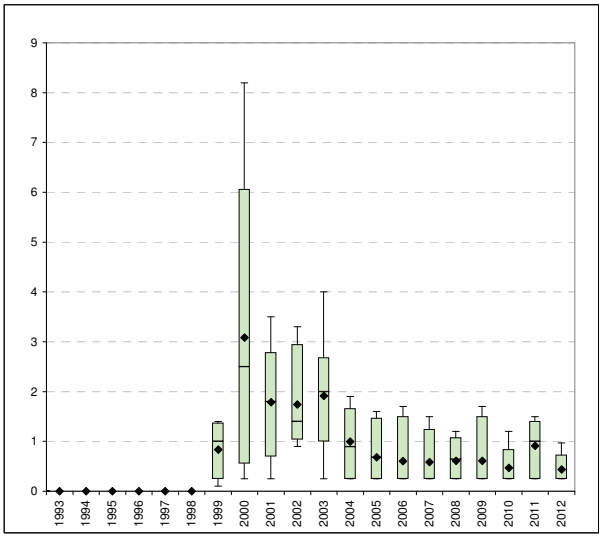
Mittelwert	94.3	
Max	140.9	24.09.12
90-Perzentil	113.2	
Median	94.7	
10-Perzentil	73.5	
Min	58.9	27.08.12

NTA

OBERFLAECHENWASSER__139-13-9&NTA__GEW_RHEIN_RUES

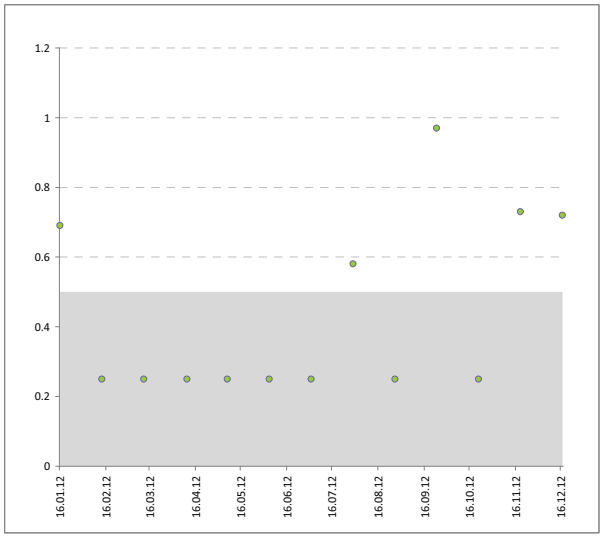
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	5	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



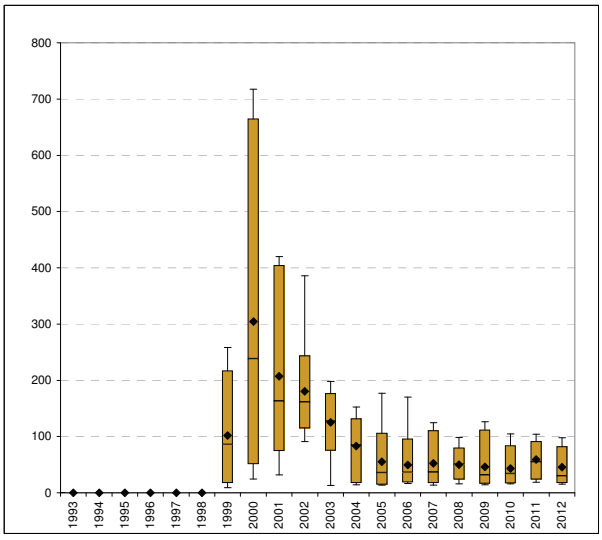
Mittelwert	1.09
Maximum	8.20
Minimum	0.10

Einzelwerte Messwert [µg/L]



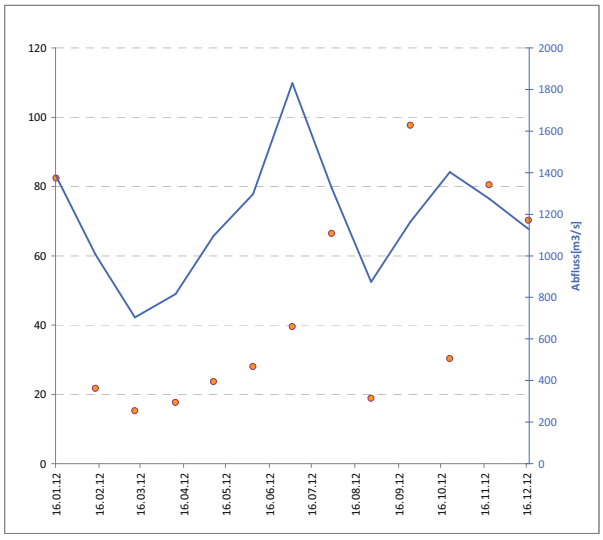
Mittelwert	0.44	
Max	0.97	24.09.12
90-Perzentil	0.73	
Median	0.25	
10-Perzentil	0.25	
Min	0.25	04.06.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	100.3
Maximum	717.5
Minimum	9.1

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



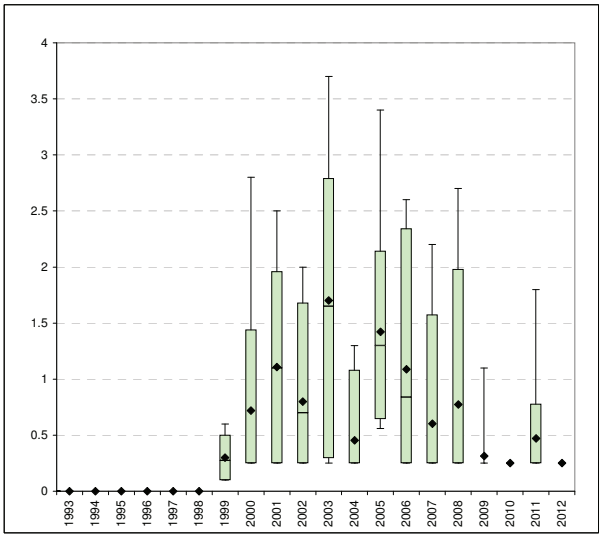
Mittelwert	45.5	
Max	97.6	24.09.12
90-Perzentil	82.0	
Median	30.3	
10-Perzentil	17.9	
Min	15.2	12.03.12

DTPA

OBERFLAECHENWASSER__67-43-6&DTPA__GEW_RHEIN_RUES

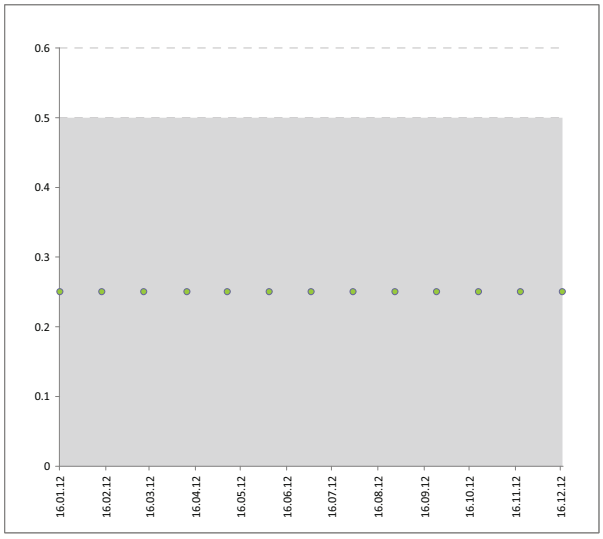
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	5	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



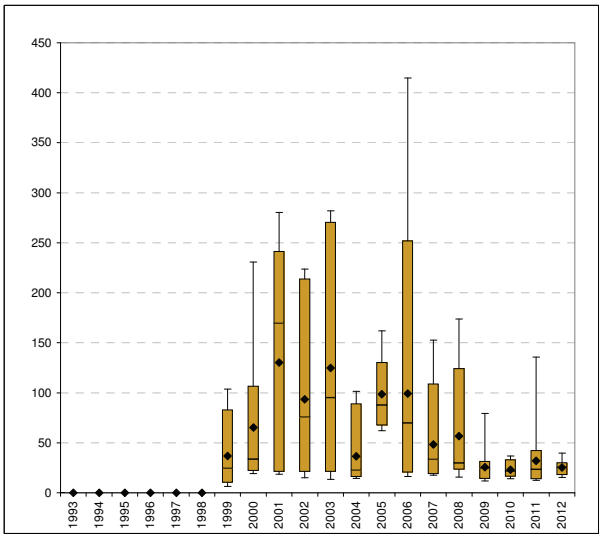
Mittelwert	0.73
Maximum	3.7
Minimum	0.1

Einzelwerte Messwert [µg/L]



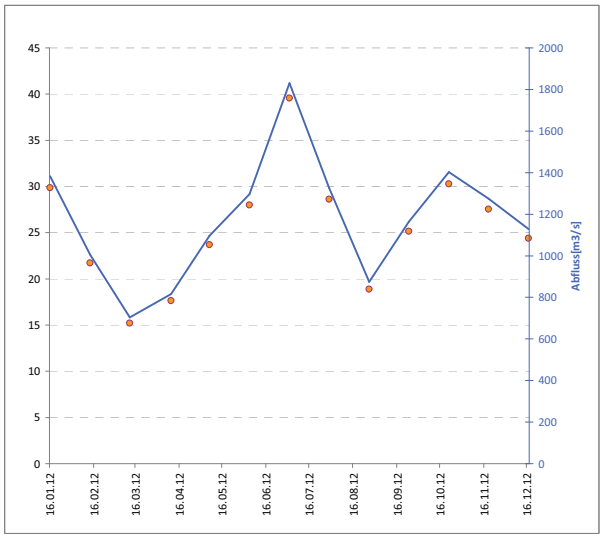
Mittelwert	0.25	
Max	0.25	10.04.12
90-Perzentil	0.25	
Median	0.25	
10-Perzentil	0.25	
Min	0.25	24.09.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	64.0
Maximum	414.9
Minimum	6.3

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



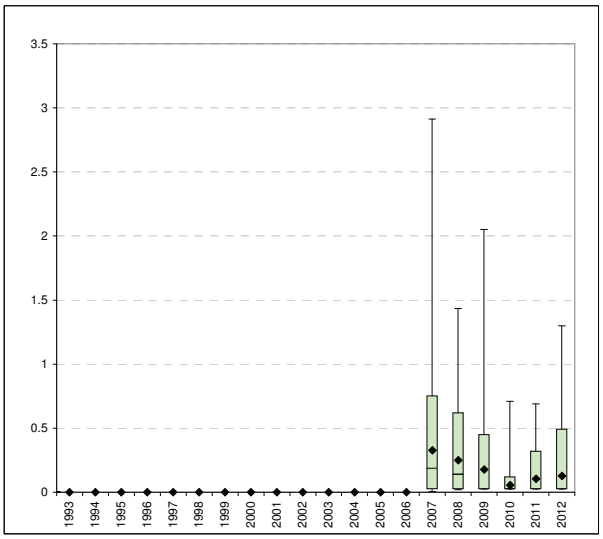
Mittelwert	25.4	
Max	39.6	02.07.12
90-Perzentil	30.2	
Median	25.2	
10-Perzentil	17.9	
Min	15.2	12.03.12

DIGLYME

OBERFLAECHENWASSER__111-96-6&DIGLYME__GEW_RHEIN_RUES

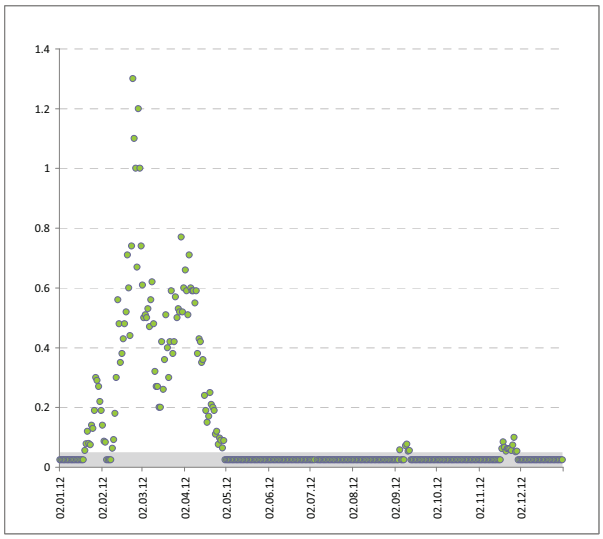
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



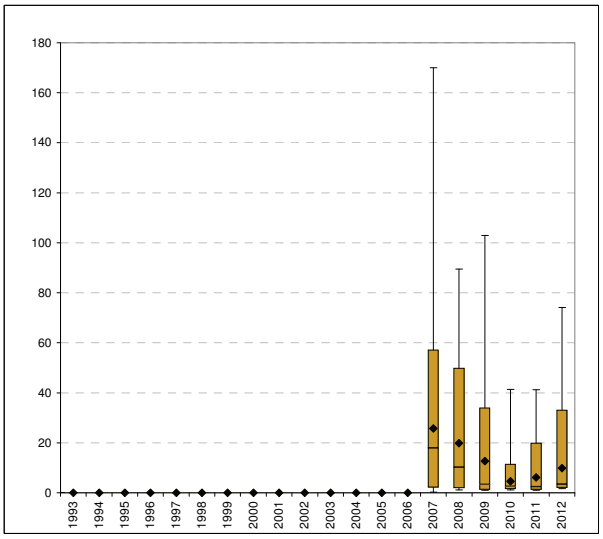
Mittelwert	0.173
Maximum	2.913
Minimum	0.004

Einzelwerte Messwert [µg/L]



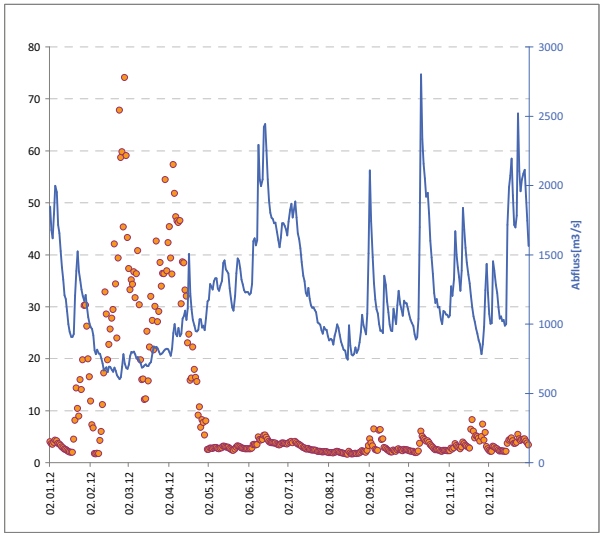
Mittelwert	0.128	
Max	1.300	24.02.12
90-Perzentil	0.492	
Median	0.025	
10-Perzentil	0.025	
Min	0.025	22.08.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	13.1
Maximum	170.0
Minimum	0.3

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



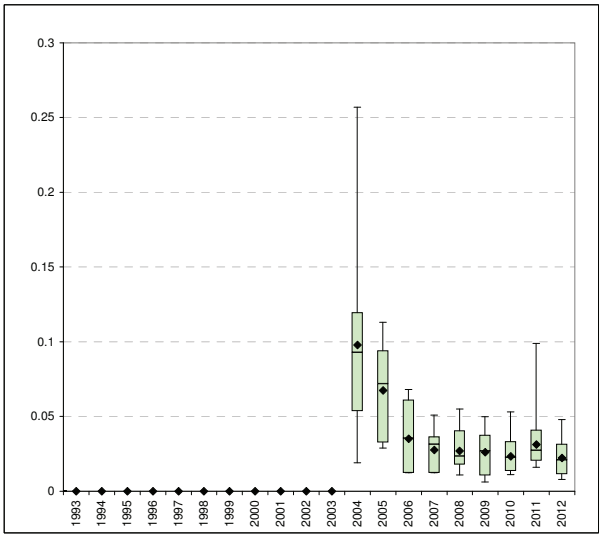
Mittelwert	9.8	
Max	74.1	28.02.12
90-Perzentil	33.1	
Median	3.5	
10-Perzentil	2.1	
Min	1.6	16.08.12

CARBAMAZEPIN

OBERFLAECHENWASSER__298-46-4&CARBAMAZEPIN__GEW_RHEIN_RUES

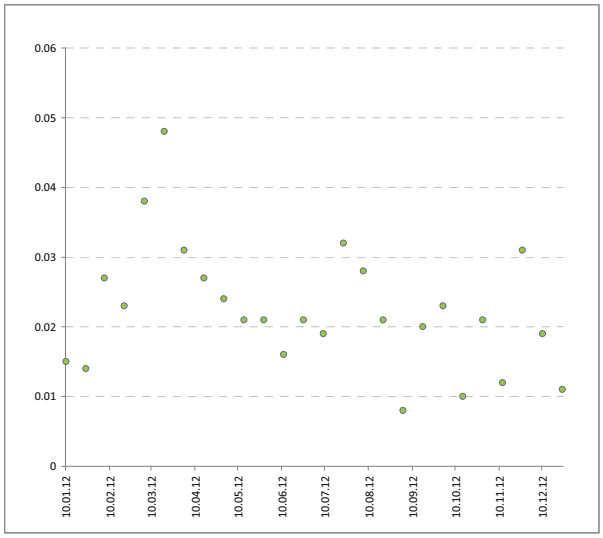
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



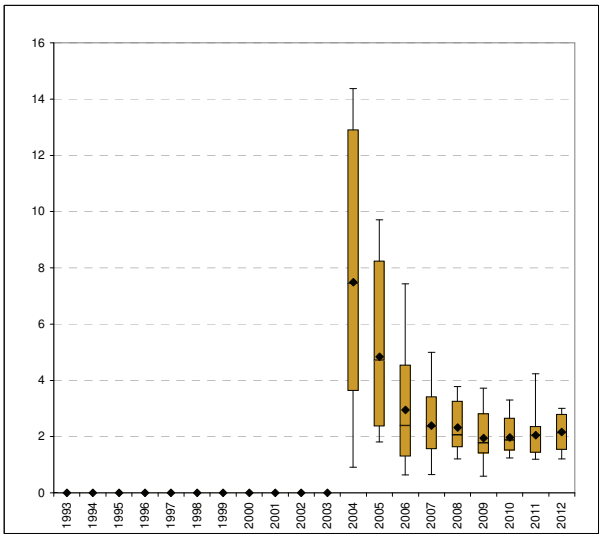
Mittelwert	0.040
Maximum	0.257
Minimum	0.006

Einzelwerte Messwert [µg/L]



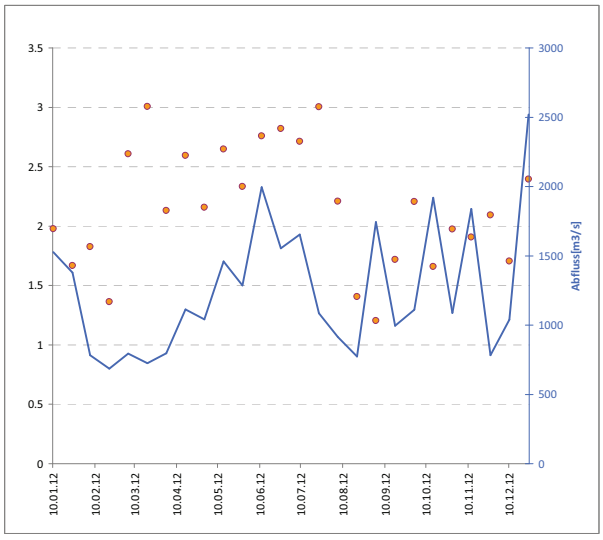
Mittelwert	0.022	
Max	0.048	19.03.12
90-Perzentil	0.032	
Median	0.021	
10-Perzentil	0.012	
Min	0.008	03.09.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	3.12
Maximum	14.37
Minimum	0.59

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



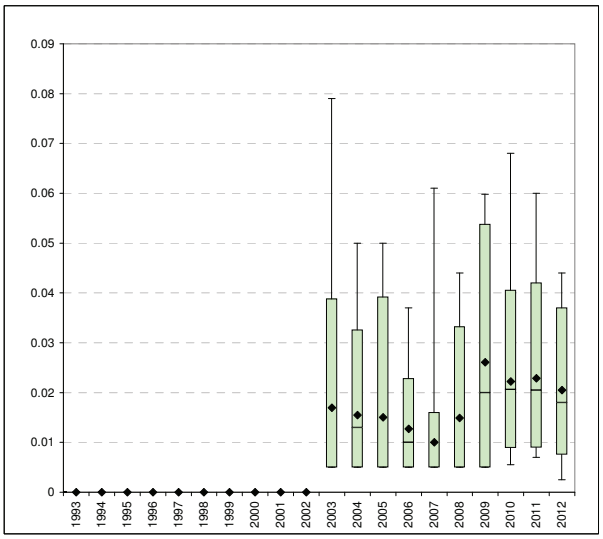
Mittelwert	2.16	
Max	3.01	19.03.12
90-Perzentil	2.79	
Median	2.14	
10-Perzentil	1.53	
Min	1.21	03.09.12

DICLOFENAC

OBERFLAECHENWASSER__15307-86-5&DICLOFENAC__GEW_RHEIN_RUES

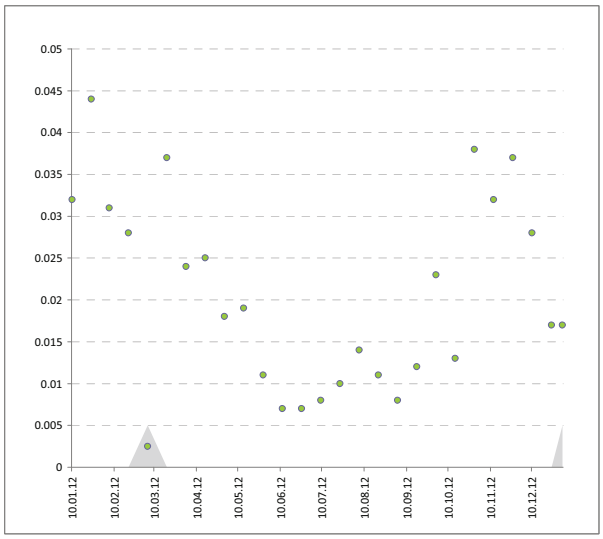
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



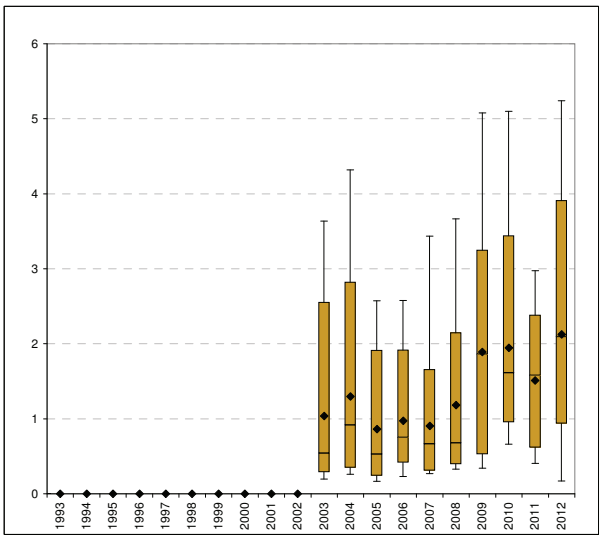
Mittelwert	0.01768
Maximum	0.079
Minimum	0.0025

Einzelwerte Messwert [µg/L]



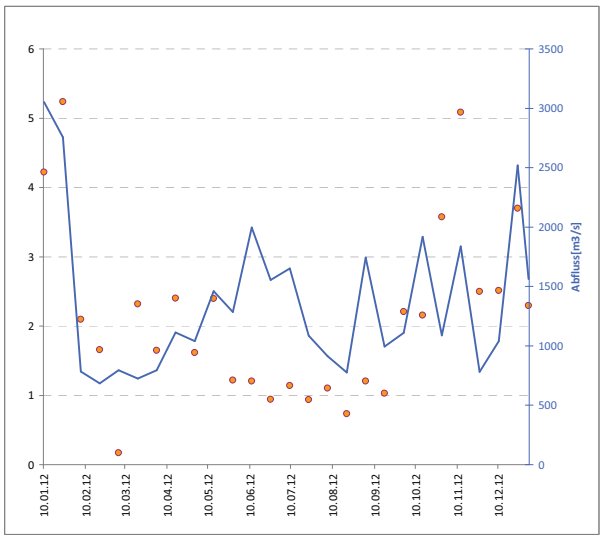
Mittelwert	0.0205	
Max	0.044	24.01.12
90-Perzentil	0.037	
Median	0.018	
10-Perzentil	0.0076	
Min	0.0025	05.03.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	1.37
Maximum	5.24
Minimum	0.17

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



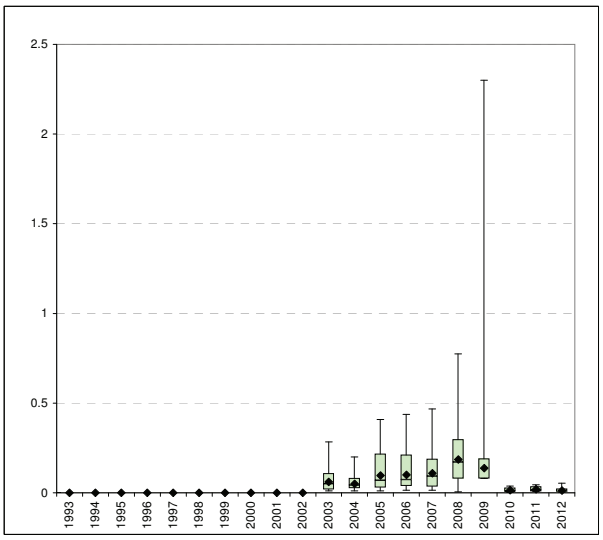
Mittelwert	2.12	
Max	5.24	24.01.12
90-Perzentil	3.91	
Median	2.10	
10-Perzentil	0.94	
Min	0.17	05.03.12

VENLAFAXIN

OBERFLAECHENWASSER__75-01-4&VENLAFAXIN__GEW_RHEIN_RUES

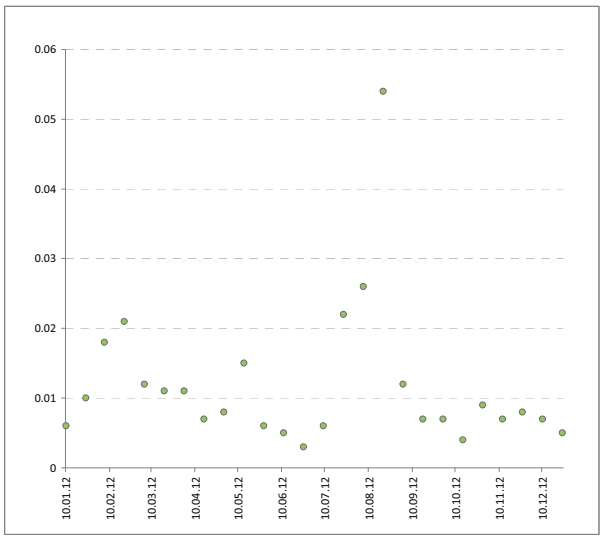
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/L]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/L]
Zielvorgabe IAWR (Maximalwert)	0.1	[µg/L]
Umweltqualitätsnorm nach Wasserreahmenrichtlinie (WRRL)	-	[µg/L]

Schwankungsbreite Messwert [µg/L]



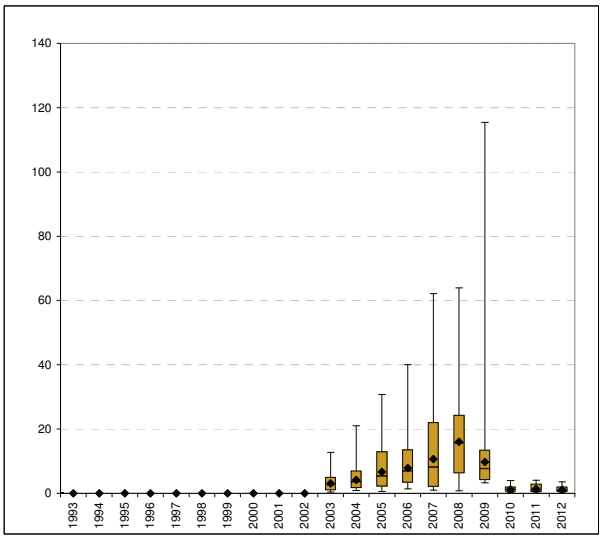
Mittelwert	0.07837
Maximum	2.3
Minimum	0.0025

Einzelwerte Messwert [µg/L]



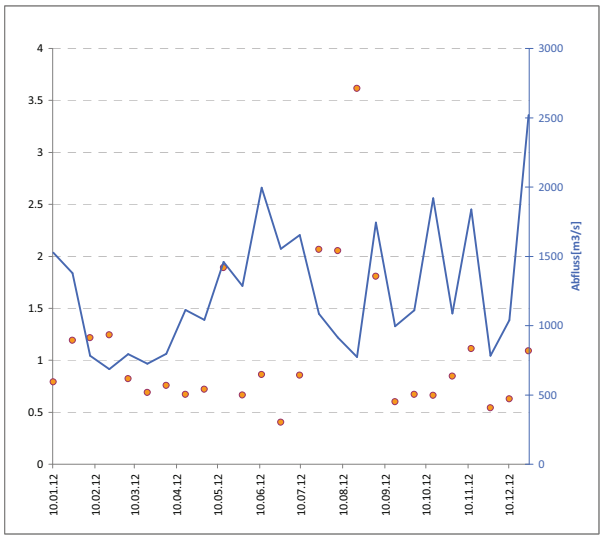
Mittelwert	0.01181	
Max	0.054	20.08.12
90-Perzentil	0.0215	
Median	0.008	
10-Perzentil	0.005	
Min	0.003	25.06.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	6.19
Maximum	115.42
Minimum	0.27

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



Mittelwert	1.10	
Max	3.61	20.08.12
90-Perzentil	1.97	
Median	0.84	
10-Perzentil	0.62	
Min	0.40	25.06.12

Anhang 5 Tabelle der Nachgewiesenen Verbindungen in der Schwebstoffphase im 2012

NACHGEWIESENE VERBINDUNGEN IN DER SCHWEBSTOFFPHASE IM JAHR 2012 IM RHEIN BEI WEIL AM RHEIN

OPERATION	COMPONENT	BESTIMMUNGSGRENZE (BG)	EINHEIT	MITTELWERT ALLER BEFUNDE > BG	IKSR-MITTELWERT	90-Perzentil	Median	MinWert	ANZAHL MESSUNGEN	ANZAHL WERTE > BG
BROMIERTE_DIPHENYLETHER_619_F	BDE-100		µg/kg_TS	0.07	0.07	0.13	0.07	0	18	15
BROMIERTE_DIPHENYLETHER_619_F	BDE-153		µg/kg_TS	0.02		0.05	0	0	18	4
BROMIERTE_DIPHENYLETHER_619_F	BDE-154		µg/kg_TS	0.01		0.06	0	0	18	3
BROMIERTE_DIPHENYLETHER_619_F	BDE-183		µg/kg_TS	0.01		0.02	0	0	18	2
BROMIERTE_DIPHENYLETHER_619_F	BDE-209		µg/kg_TS	27.07	27.07	41.74	18.75	7.80	18	18
BROMIERTE_DIPHENYLETHER_619_F	BDE-47		µg/kg_TS	0.30	0.30	0.40	0.29	0.15	18	18
BROMIERTE_DIPHENYLETHER_619_F	BDE-99		µg/kg_TS	0.36	0.36	0.57	0.30	0.17	18	18
GEFRIERTROCKNUNG_016_F	NASSGEWICHT		g	278.7	278.7	397.2	206.0	89.9	18	18
GEFRIERTROCKNUNG_016_F	TROCKENGEWICHT		g	142.8	142.8	210.4	91.1	36.0	18	18
GEFRIERTROCKNUNG_016_F	TROCKENSUBSTANZ		%	46.3	46.3	54.8	45.4	34.8	18	18
METALLE_HG_GES_712_F	QUECKSILBER(GES)		mg/kg_TS	0.18	0.18	0.23	0.18	0	18	17
METALLE_SCHWEB_GES_760_F	ARSEN(GES)		mg/kg_TS	11.82	11.82	19.00	9.95	7.80	18	18
METALLE_SCHWEB_GES_760_F	BLEI(GES)		mg/kg_TS	29.89	29.89	35.00	29.50	25.00	18	18
METALLE_SCHWEB_GES_760_F	CADMIUM(GES)		mg/kg_TS	0.43	0.43	0.52	0.42	0.33	18	18
METALLE_SCHWEB_GES_760_F	CHROM(GES)		mg/kg_TS	54.61	54.61	62.30	54.00	44.00	18	18
METALLE_SCHWEB_GES_760_F	EISEN(GES)		mg/kg_TS	26494	26494	30510	25700	21200	18	18
METALLE_SCHWEB_GES_760_F	KUPFER(GES)		mg/kg_TS	48.39	48.39	57.00	47.50	40.00	18	18
METALLE_SCHWEB_GES_760_F	MANGAN(GES)		mg/kg_TS	831.1	831.1	925.0	830.0	740.0	18	18
METALLE_SCHWEB_GES_760_F	NICKEL(GES)		mg/kg_TS	43.83	43.83	49.60	43.50	33.00	18	18
METALLE_SCHWEB_GES_760_F	PHOSPHOR(GES)		mg/kg_TS	1646	1646	2645	1480	830	18	18
METALLE_SCHWEB_GES_760_F	THORIUM(GES)		mg/kg_TS	6.67	6.67	7.70	6.55	4.50	18	18
METALLE_SCHWEB_GES_760_F	URAN(GES)		mg/kg_TS	1.17	1.19	1.43	1.14	0	18	17
METALLE_SCHWEB_GES_760_F	ZINK(GES)		mg/kg_TS	165.0	165.0	210.0	160.0	130.0	18	18
NUKLIDE_ARE_023_ASF	Ac-227		Bq/kg_TS	0.21		0	0	0	18	1
NUKLIDE_ARE_023_ASF	Be-7		Bq/kg_TS	359.4	359.4	565.0	325.0	69.0	18	18
NUKLIDE_ARE_023_ASF	Co-57		Bq/kg_TS	0.02		0	0	0	18	1
NUKLIDE_ARE_023_ASF	Co-60		Bq/kg_TS	0.22		0.93	0	0	18	4
NUKLIDE_ARE_023_ASF	Cs-137		Bq/kg_TS	12.39	12.39	14.00	12.00	7.70	18	18
NUKLIDE_ARE_023_ASF	I-131		Bq/kg_TS	3.30	3.37	5.55	3.60	0	18	13
NUKLIDE_ARE_023_ASF	K-40		Bq/kg_TS	862	862	953	847	570	18	18
NUKLIDE_ARE_023_ASF	Lu-177		Bq/kg_TS	32.94	42.34	68.80	24.00	0	17	13
NUKLIDE_ARE_023_ASF	Mn-54		Bq/kg_TS	0.50	1.17	1.10	0.51	0	18	10
NUKLIDE_ARE_023_ASF	Pb-210		Bq/kg_TS	96.67	100.89	165.00	58.50	0	18	16
NUKLIDE_ARE_023_ASF	Po-210		Bq/kg_TS	105.2	105.2	122.0	108.0	67.0	17	17
NUKLIDE_ARE_023_ASF	Ra-224		Bq/kg_TS	37.73	37.73	50.23	35.05	22.40	18	18
NUKLIDE_ARE_023_ASF	Ra-226		Bq/kg_TS	50.22	50.22	57.60	49.95	35.90	18	18
NUKLIDE_ARE_023_ASF	Ra-228		Bq/kg_TS	51.59	51.59	58.74	52.35	33.10	18	18
NUKLIDE_ARE_023_ASF	Sb-122		Bq/kg_TS	1.60	1.60	1.60	1.60	1.60	1	1
NUKLIDE_ARE_023_ASF	U-235		Bq/kg_TS	0.61		1.44	0	0	18	2
NUKLIDE_ARE_023_ASF	Zr-95		Bq/kg_TS	1.50	1.50	1.50	1.50	1.50	1	1
ORGANOZINN_616_F	DIBUTYLZINNKATION	0.5	µg/kg_TS	18.22	18.08	29.05	14.90	5.20	18	18
ORGANOZINN_616_F	DIOCTYLZINNKATION	0.5	µg/kg_TS	3.93	4.02	4.90	3.85	0	18	17
ORGANOZINN_616_F	MONOBUTYLZINNKATION	0.5	µg/kg_TS	19.54	19.63	31.09	17.95	6.60	18	18
ORGANOZINN_616_F	MONOOCTYLZINNKATION	0.5	µg/kg_TS	4.14	4.19	6.39	3.70	0	18	17
ORGANOZINN_616_F	TRIBUTYLZINNKATION	2	µg/kg_TS	2.06	2.46	4.58	2.35	0	18	11
PAK_655_F	ACENAPHTEN(ANE)	0.2	mg/kg_TS	0.001		0.002	0	0	18	2
PAK_655_F	ANTHRACEN(ANT)	0.05	mg/kg_TS	0.008		0.040	0	0	18	3
PAK_655_F	BENZO(A)ANTHRACEN(BAA)	0.05	mg/kg_TS	0.112	0.112	0.160	0.110	0.051	18	18
PAK_655_F	BENZO(A)PYREN(BAP)	0.005	mg/kg_TS	0.148	0.148	0.216	0.133	0.063	18	18
PAK_655_F	BENZO(B)FLUORANTHEN(BBF)	0.005	mg/kg_TS	0.212	0.213	0.306	0.210	0.100	18	18
PAK_655_F	BENZO(GHI)PERYLEN(BGHI)	0.005	mg/kg_TS	0.192	0.192	0.275	0.175	0.098	18	18
PAK_655_F	BENZO(K)FLUORANTHEN(BKF)	0.005	mg/kg_TS	0.093	0.093	0.133	0.093	0.040	18	18
PAK_655_F	CHRYSEN(CHR)	0.05	mg/kg_TS	0.142	0.142	0.180	0.135	0.082	18	18
PAK_655_F	DIBENZ(A,H)ANTHRACEN(DBAHA)	0.005	mg/kg_TS	0.038	0.038	0.054	0.039	0.020	18	18
PAK_655_F	FLUORANTHEN(FLA)	0.005	mg/kg_TS	0.303	0.303	0.422	0.315	0.130	18	18
PAK_655_F	FLUOREN(FLU)	0.2	mg/kg_TS	0.011		0.025	0	0	18	7
PAK_655_F	INDENO(1,2,3,CD)PYREN(ICDP)	0.2	mg/kg_TS	0.073		0.226	0	0	18	6
PAK_655_F	NAPHTHALIN(NAP)	0.005	mg/kg_TS	0.047	0.047	0.067	0.049	0.012	17	17
PAK_655_F	PHENANTHREN(PHE)	0.05	mg/kg_TS	0.167	0.167	0.240	0.135	0.051	18	18
PAK_655_F	PYREN(PYR)	0.05	mg/kg_TS	0.175	0.175	0.311	0.160	0.057	18	18
PAK_655_F	SUMME_PAK		mg/kg_TS	1.685	1.685	2.324	1.608	0.770	18	18
PHTHALATE_662_F	DEHP		µg/kg_TS	863	949	1688	997	0	18	12
SCHORGANOCHLOR_622_F	1,2,3-TRICHLORBENZOL		µg/kg_TS	0.16	0.18	0.32	0.17	0	18	13
SCHORGANOCHLOR_622_F	1,2,4-TRICHLORBENZOL		µg/kg_TS	0.79	0.79	1.49	0.76	0.22	18	18
SCHORGANOCHLOR_622_F	1,3,5-TRICHLORBENZOL		µg/kg_TS	0.44	0.44	0.81	0.32	0.12	18	18
SCHORGANOCHLOR_622_F	ALPHA-HCH		µg/kg_TS	1.25	1.25	2.66	0.41	0.09	18	18
SCHORGANOCHLOR_622_F	BETA-HCH		µg/kg_TS	2.62	2.59	7.11	0.77	0.06	18	18
SCHORGANOCHLOR_622_F	DELTA-HCH	0.1	µg/kg_TS	0.39	0.41	0.83	0.06	0	18	9
SCHORGANOCHLOR_622_F	ENDRIN		µg/kg_TS	0.71	0.73	1.03	0.75	0	18	16
SCHORGANOCHLOR_622_F	EPSILON-HCH	0.1	µg/kg_TS	0.18		0.53	0	0	18	8
SCHORGANOCHLOR_622_F	GAMMA-HCH	0.05	µg/kg_TS	0.08	0.09	0.15	0.07	0	18	13
SCHORGANOCHLOR_622_F	HEXACHLORBENZOL		µg/kg_TS	1.20	1.20	2.25	1.12	0.50	18	18
SCHORGANOCHLOR_622_F	O,P-DDD		µg/kg_TS	0.15	0.16	0.23	0.15	0	18	16
SCHORGANOCHLOR_622_F	P,P-DDD		µg/kg_TS	0.31	0.31	0.48	0.27	0.13	18	18
SCHORGANOCHLOR_622_F	P,P-DDE		µg/kg_TS	0.77	0.77	1.10	0.75	0.40	18	18
SCHORGANOCHLOR_622_F	P,P-DDT		µg/kg_TS	0.65	0.65	0.97	0.59	0.32	18	18
SCHORGANOCHLOR_622_F	PCB-101		µg/kg_TS	0.84	0.84	1.12	0.79	0.47	18	18
SCHORGANOCHLOR_622_F	PCB-118		µg/kg_TS	0.69	0.69	0.91	0.67	0.44	18	18
SCHORGANOCHLOR_622_F	PCB-138		µg/kg_TS	1.61	1.62	2.06	1.58	0.93	18	18
SCHORGANOCHLOR_622_F	PCB-153		µg/kg_TS	1.50	1.50	1.92	1.40	0.83	18	18
SCHORGANOCHLOR_622_F	PCB-170		µg/kg_TS	0.54	0.54	0.66	0.54	0.31	18	18
SCHORGANOCHLOR_622_F	PCB-180		µg/kg_TS	0.84	0.84	1.03	0.85	0.47	18	18
SCHORGANOCHLOR_622_F	PCB-28		µg/kg_TS	0.19	0.19	0.23	0.20	0.11	18	18
SCHORGANOCHLOR_622_F	PCB-52		µg/kg_TS	0.36	0.36	0.47	0.35	0.20	18	18
SCHORGANOCHLOR_622_F	PENTACHLORANISOL		µg/kg_TS	0.13	0.13	0.20	0.10	0.06	18	18
SCHORGANOCHLOR_622_F	PENTACHLORBENZOL		µg/kg_TS	0.76	0.76	1.07	0.54	0.26	18	18
TOC_221_F	TOC	0.0025	g/kg_TS	46.29	46.22	58.61	45.19	27.95	18	18
TOC_221_F	TOC_%		%	4.63	4.63	5.86	4.52	2.80	18	18

Anhang 6 TRENDÜBERWACHUNG Schwebstoffphase

Langfristige Trendüberwachung

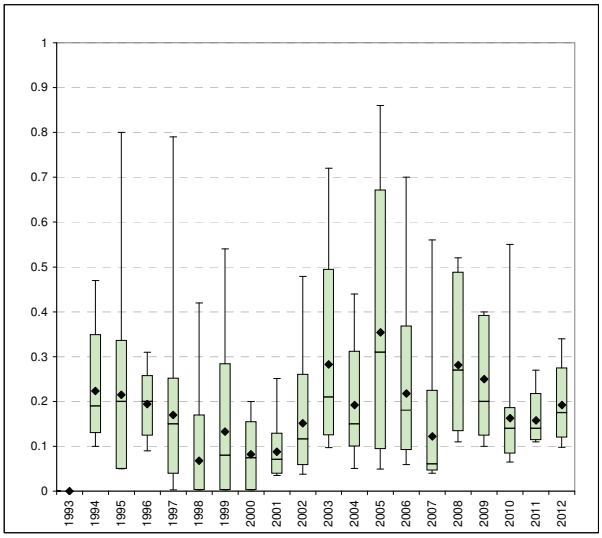
Polyaromatische Kohlenwasserstoffe PAK's: Benzo(ghi)perylen, Indeno(1,2,3-cd)pyren
Insektizid: Hexachlorbenzol (HCB; Historischer Produktionsort in Badisch Rheinfelden)
Metalle: Arsen, Blei, Cadmium, Chrom, Kupfer, Nickel, Quecksilber und Zink

BENZO(GHI)PERYLEN(BGHI)

SCHWEBSTOFF__191-24-2&F&BENZO(GHI)PERYLEN(BGHI)__GEW_RHEIN_RUES

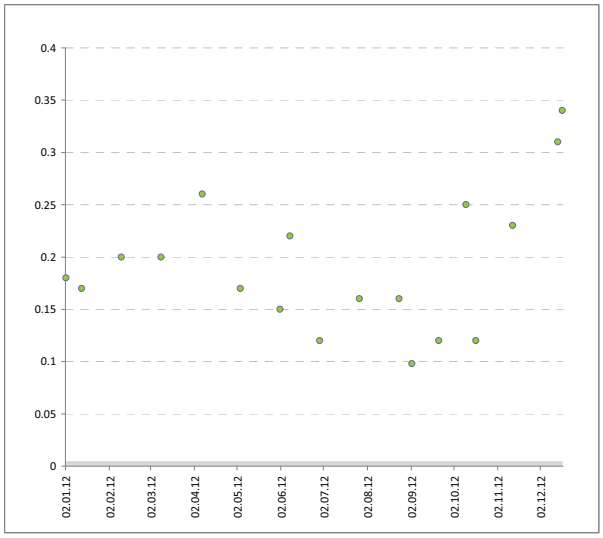
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	-	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



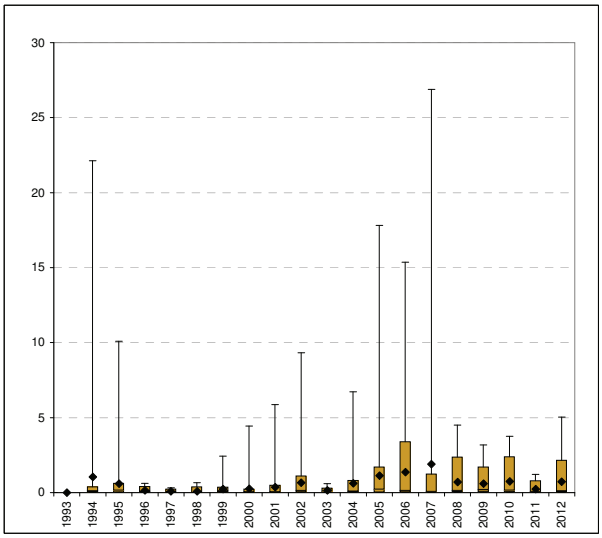
Mittelwert	0.186
Maximum	0.860
Minimum	0.003

Einzelwerte Messwert [mg/kg_TS]



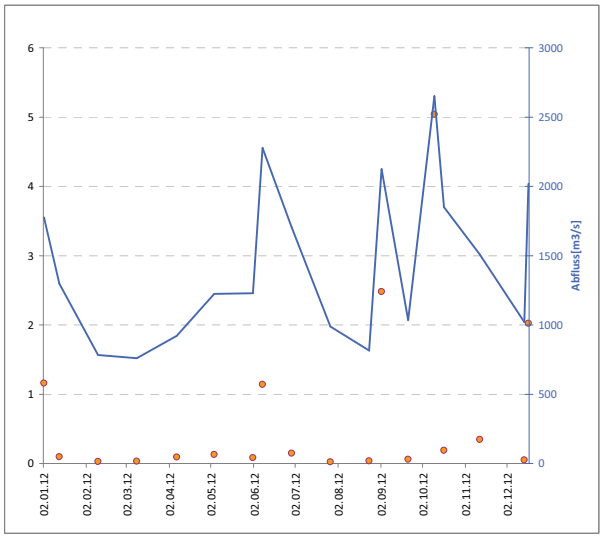
Mittelwert	0.192	
Max	0.340	17.12.12
90-Perzentil	0.275	
Median	0.175	
10-Perzentil	0.120	
Min	0.098	02.09.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	0.61
Maximum	26.87
Minimum	0.00

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



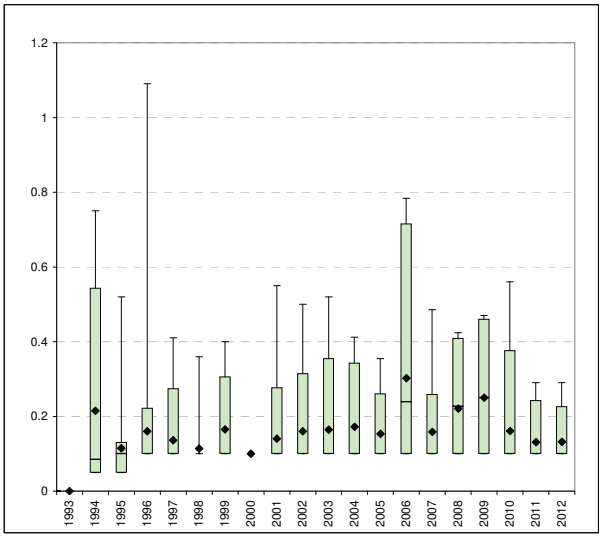
Mittelwert	0.73	
Max	5.04	10.10.12
90-Perzentil	2.16	
Median	0.11	
10-Perzentil	0.03	
Min	0.02	27.07.12

INDENO(1,2,3,CD)PYREN(ICDP)

SCHWEBSTOFF__193-39-5&F&INDENO(1,2,3,CD)PYREN(ICDP)__GEW_RHEIN_RUES

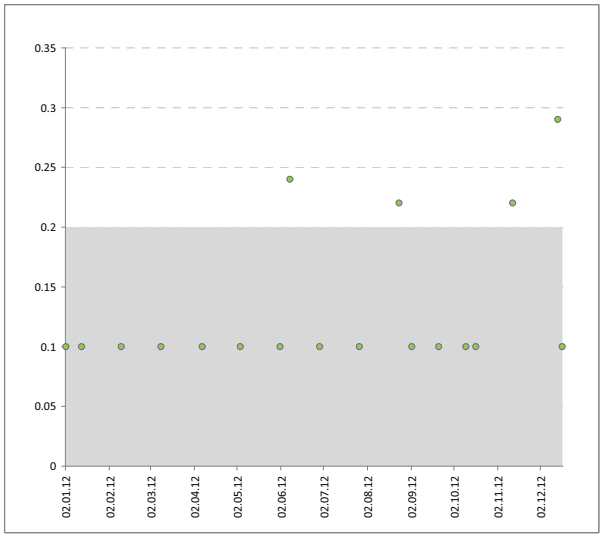
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	-	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



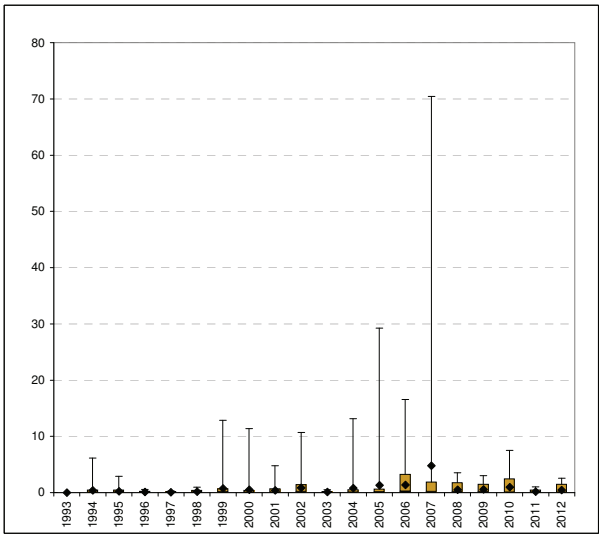
Mittelwert	0.166
Maximum	1.09
Minimum	0.05

Einzelwerte Messwert [mg/kg_TS]



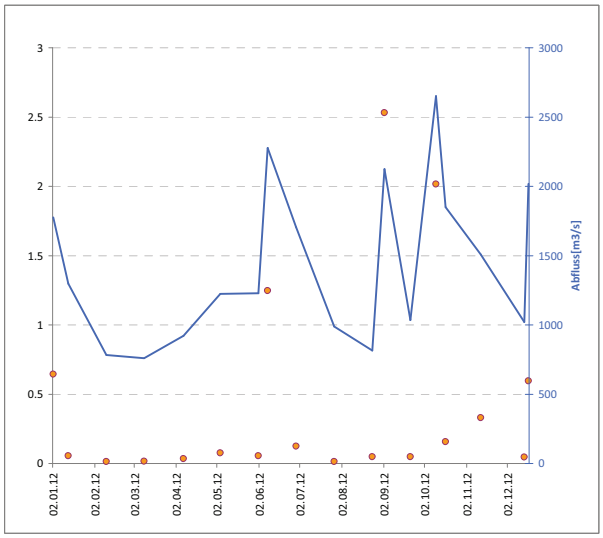
Mittelwert	0.132	
Max	0.290	14.12.12
90-Perzentil	0.226	
Median	0.1	
10-Perzentil	0.1	
Min	0.1	02.09.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	0.759
Maximum	70.439
Minimum	0.005

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



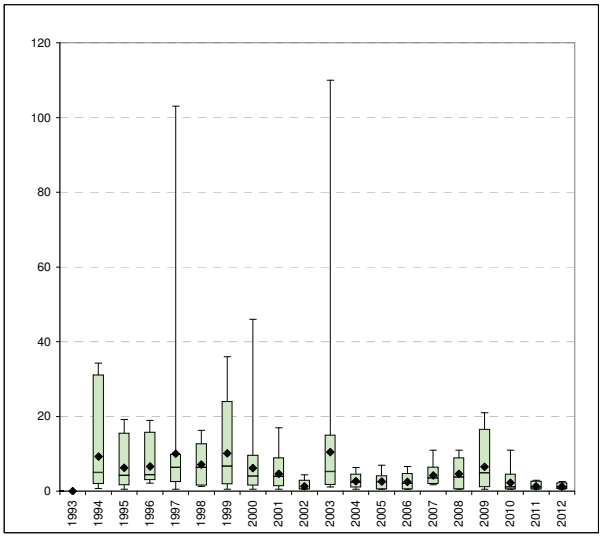
Mittelwert	0.447	
Max	2.532	02.09.12
90-Perzentil	1.477	
Median	0.066	
10-Perzentil	0.015	
Min	0.014	27.07.12

HEXACHLORBENZOL

SCHWEBSTOFF__118-74-1&F&HEXACHLORBENZOL__GEW_RHEIN_RUES

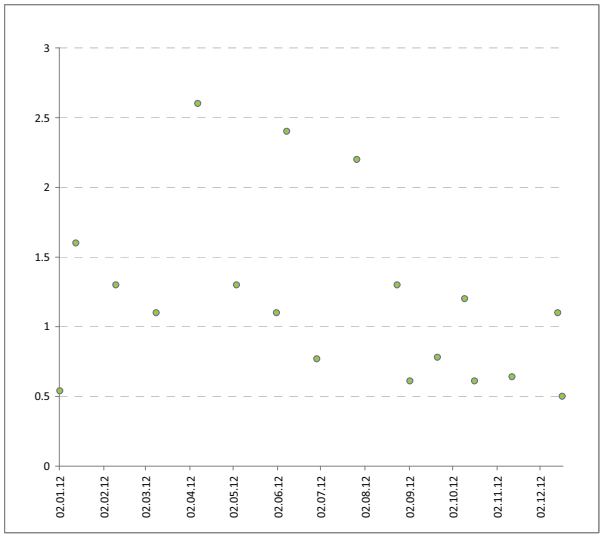
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[µg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	-	[µg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[µg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[µg/kg_TS]

Schwankungsbreite Messwert [µg/kg_TS]



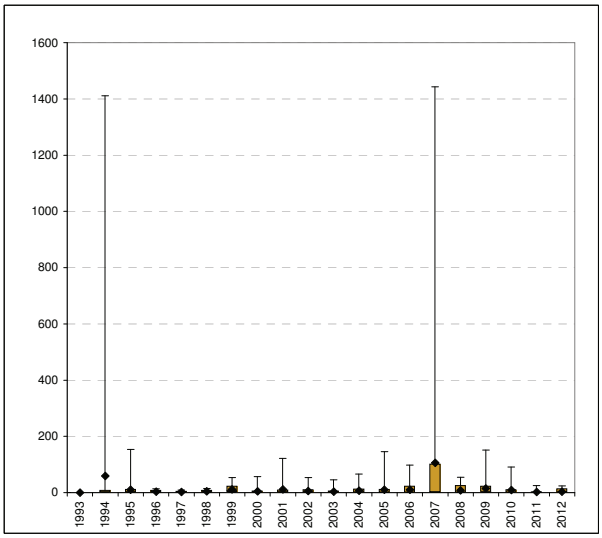
Mittelwert	5.23
Maximum	110
Minimum	0.5

Einzelwerte Messwert [µg/kg_TS]



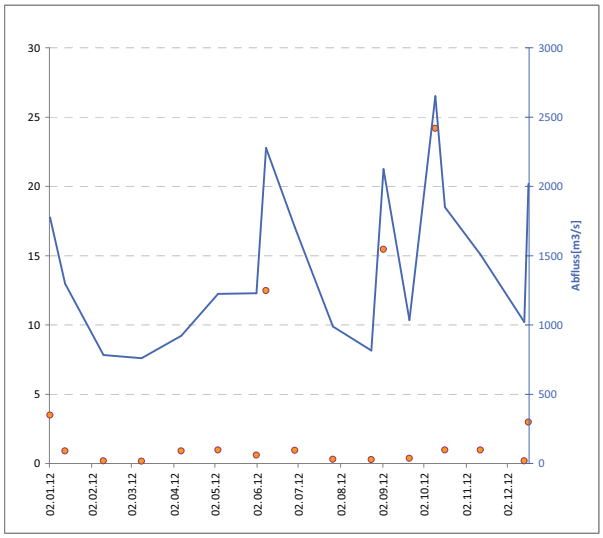
Mittelwert	1.20	
Max	2.60	07.04.12
90-Perzentil	2.26	
Median	1.10	
10-Perzentil	0.59	
Min	0.50	17.12.12

Schwankungsbreite Transporte [g/d]



Mittelwert	15.2
Maximum	1442.7
Minimum	0.1

Einzelwerte Fracht [g/d] vs. Abfluss [m3/s]



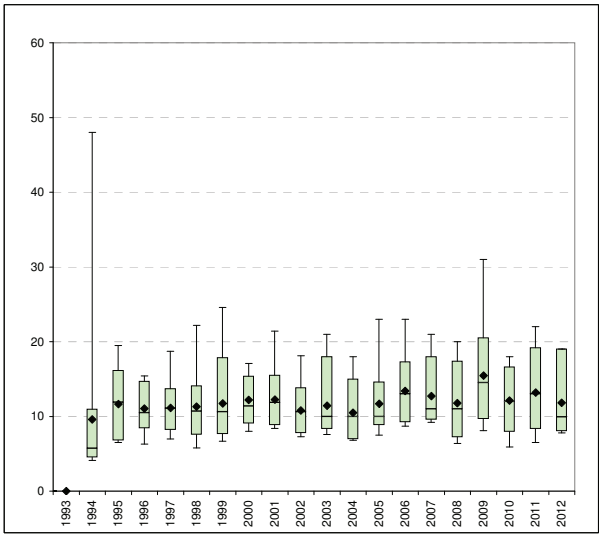
Mittelwert	3.7	
Max	24.2	10.10.12
90-Perzentil	13.4	
Median	0.9	
10-Perzentil	0.2	
Min	0.2	09.03.12

ARSEN

SCHWEBSTOFF__7440-38-2&F&ARSEN__GEW_RHEIN_RUES

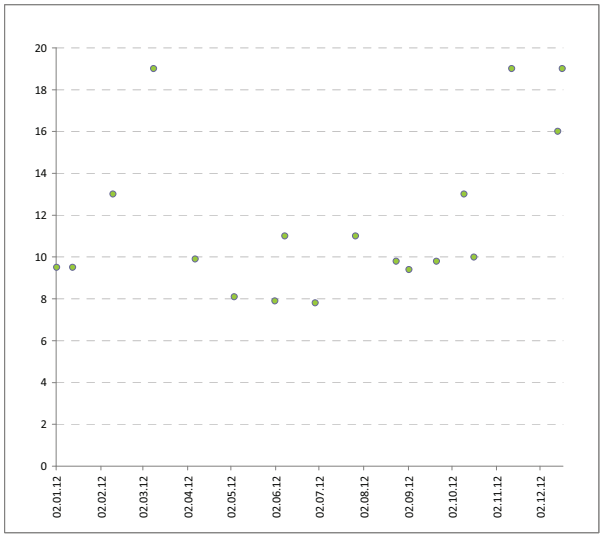
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	40	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	40	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



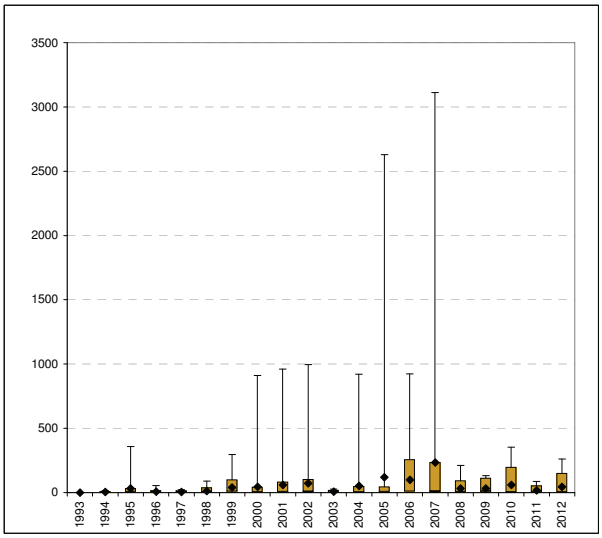
Mittelwert	11.88	
Maximum	48	
Minimum	4.1	

Einzelwerte Messwert [mg/kg_TS]



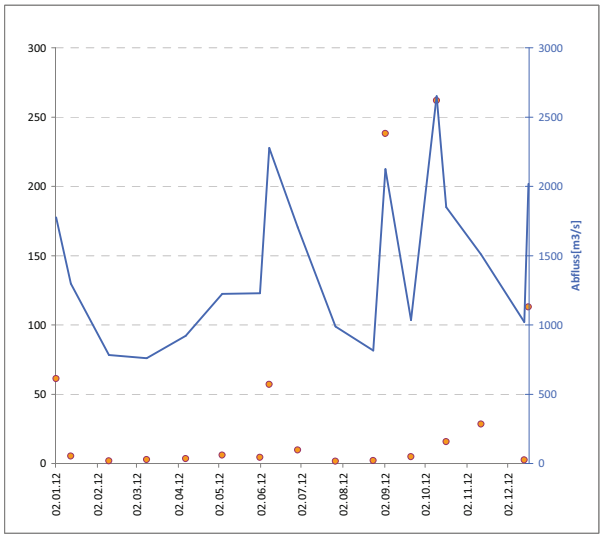
Mittelwert	11.82	
Max	19.0	12.11.12
90-Perzentil	19.0	
Median	9.95	
10-Perzentil	8.04	
Min	7.8	29.06.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	51.4	
Maximum	3111.8	
Minimum	0.4	

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



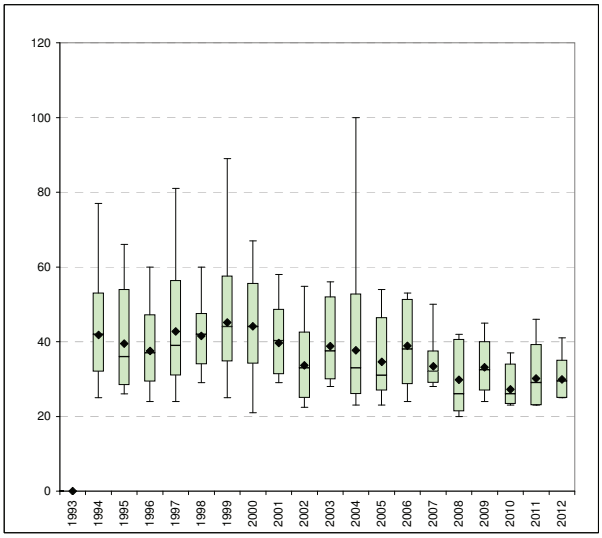
Mittelwert	45.6	
Max	262.0	10.10.12
90-Perzentil	150.5	
Median	5.7	
10-Perzentil	2.1	
Min	1.5	27.07.12

BLEI

SCHWEBSTOFF__7439-92-1&F&BLEI__GEW_RHEIN_RUES

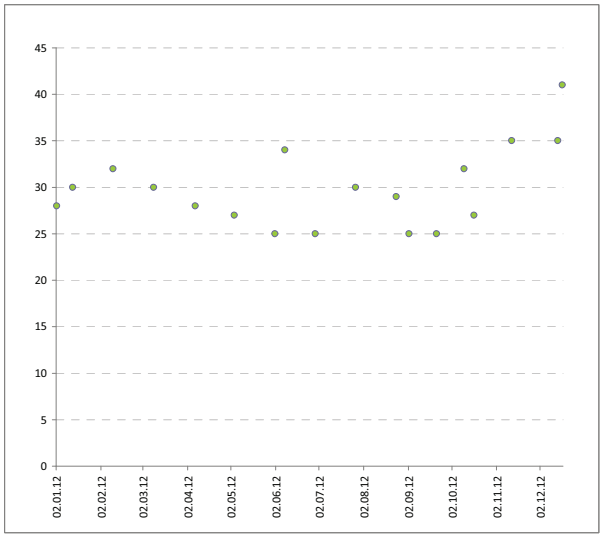
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	100	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



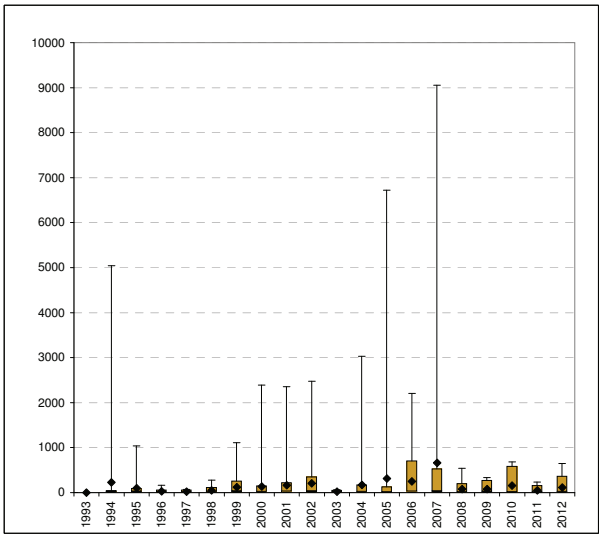
Mittelwert	36.8
Maximum	100.0
Minimum	20.0

Einzelwerte Messwert [mg/kg_TS]



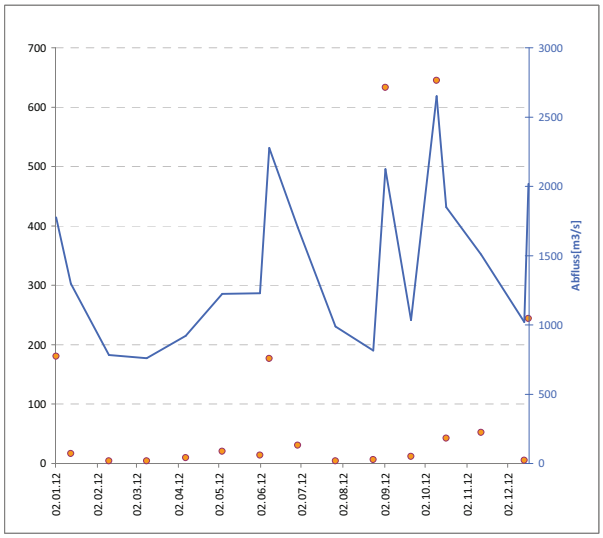
Mittelwert	29.9	
Max	41.0	17.12.12
90-Perzentil	35.0	
Median	29.5	
10-Perzentil	25.0	
Min	25.0	02.09.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	154.2
Maximum	9052.4
Minimum	1.6

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



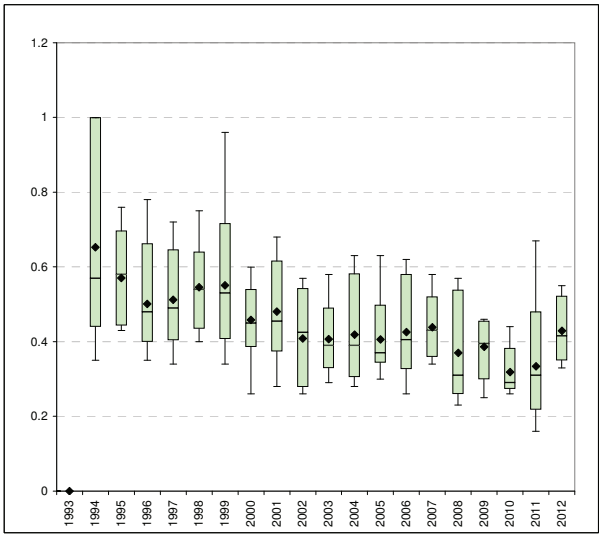
Mittelwert	116.8	
Max	644.9	10.10.12
90-Perzentil	360.6	
Median	18.6	
10-Perzentil	4.5	
Min	4.1	27.07.12

CADMIUM

SCHWEBSTOFF__7440-43-9&F&CADMIUM__GEW_RHEIN_RUES

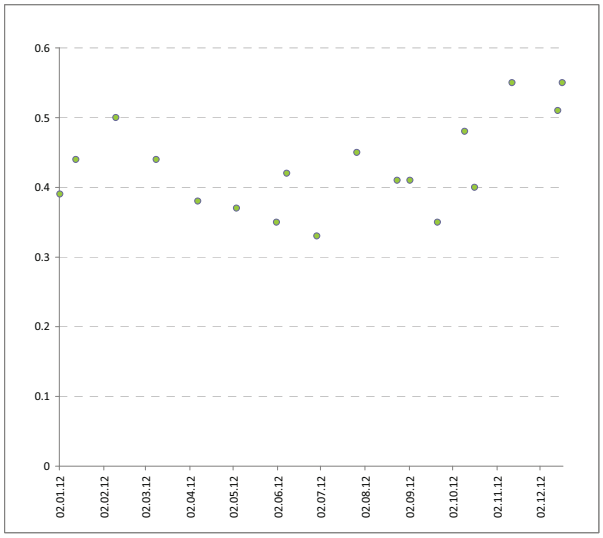
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	1	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



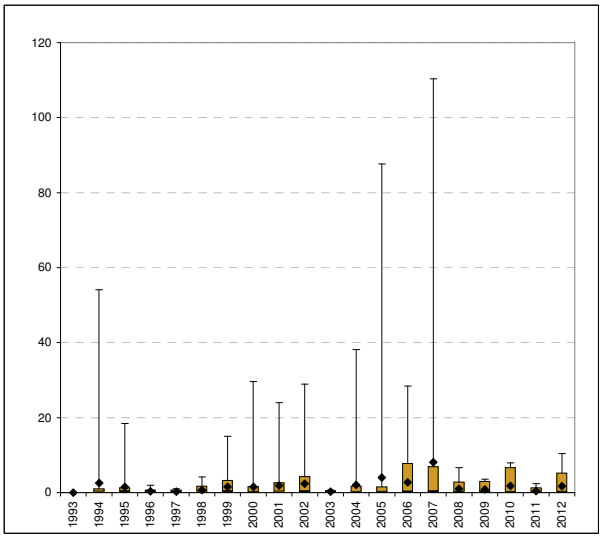
Mittelwert	0.45
Maximum	1.00
Minimum	0.16

Einzelwerte Messwert [mg/kg_TS]



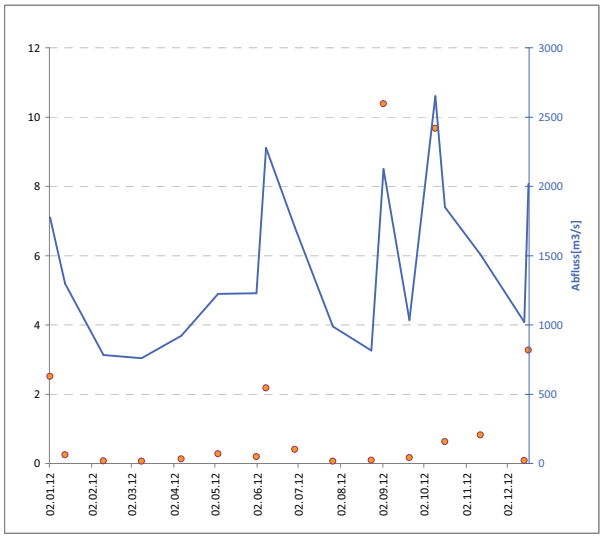
Mittelwert	0.43	
Max	0.55	12.11.12
90-Perzentil	0.52	
Median	0.42	
10-Perzentil	0.35	
Min	0.33	29.06.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	1.87
Maximum	110.33
Minimum	0.02

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



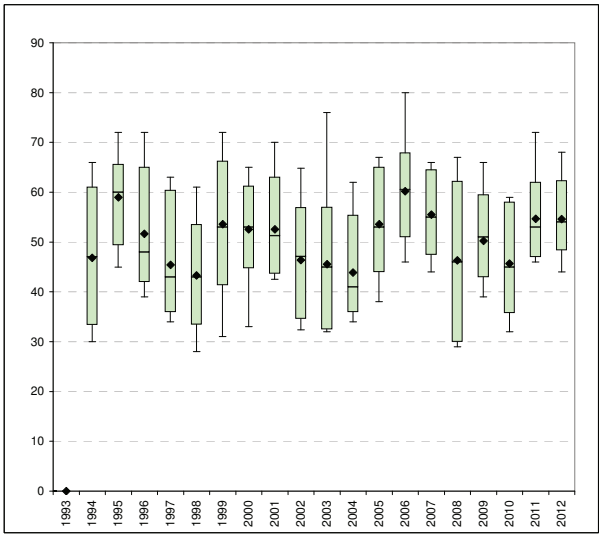
Mittelwert	1.74	
Max	10.38	02.09.12
90-Perzentil	5.19	
Median	0.26	
10-Perzentil	0.07	
Min	0.06	27.07.12

CHROM

SCHWEBSTOFF__7440-47-3&F&CHROM__GEW_RHEIN_RUES

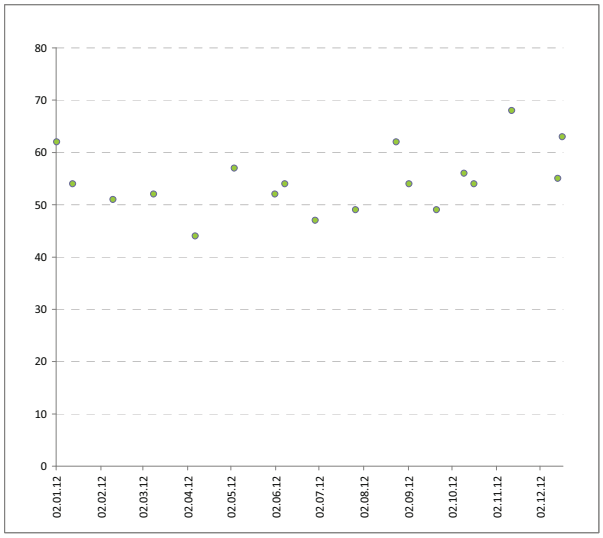
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	100	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	640	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



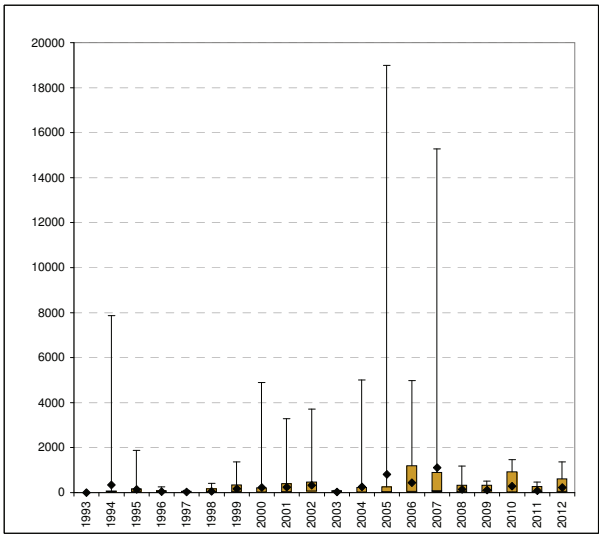
Mittelwert	50.6
Maximum	80.0
Minimum	28.0

Einzelwerte Messwert [mg/kg_TS]



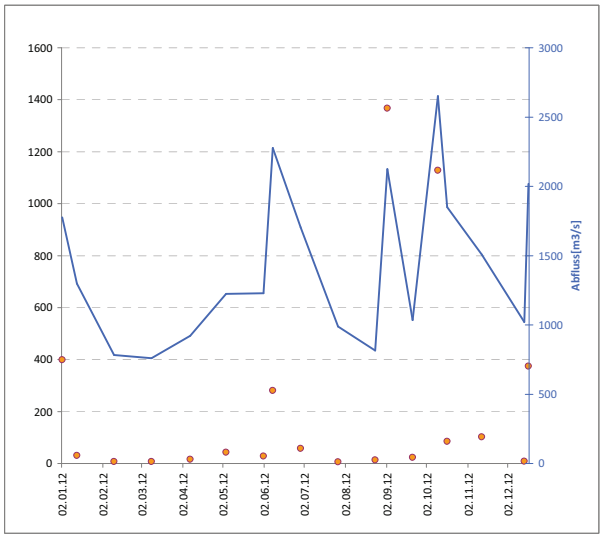
Mittelwert	54.6	
Max	68.0	12.11.12
90-Perzentil	62.3	
Median	54.0	
10-Perzentil	48.4	
Min	44.0	07.04.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	267.0
Maximum	18991.9
Minimum	1.8

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



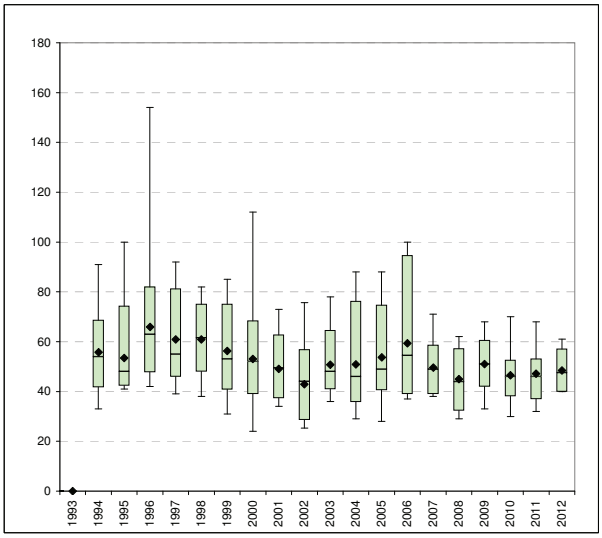
Mittelwert	221.2	
Max	1367.3	02.09.12
90-Perzentil	618.2	
Median	36.6	
10-Perzentil	7.7	
Min	6.7	27.07.12

KUPFER

SCHWEBSTOFF__7440-50-8&F&KUPFER__GEW_RHEIN_RUES

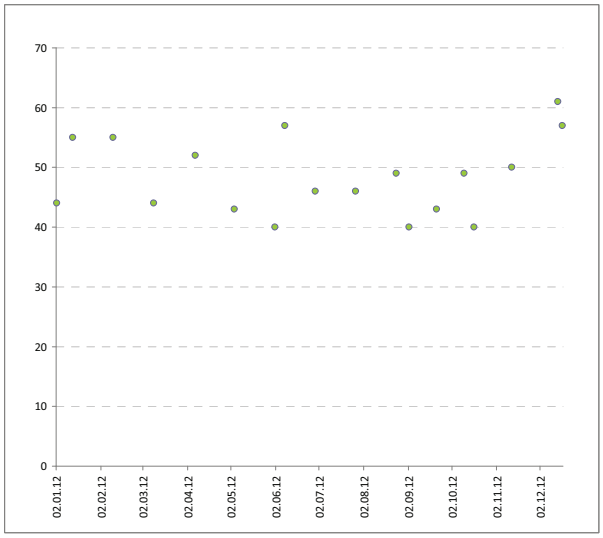
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	50	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	160	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



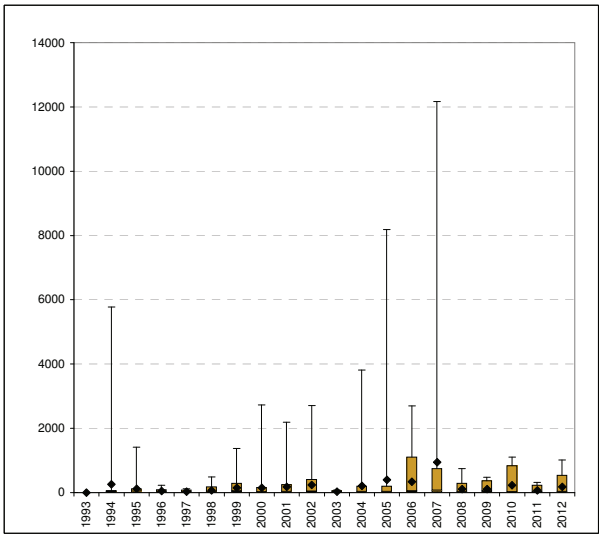
Mittelwert	52.7
Maximum	154.0
Minimum	24.0

Einzelwerte Messwert [mg/kg_TS]



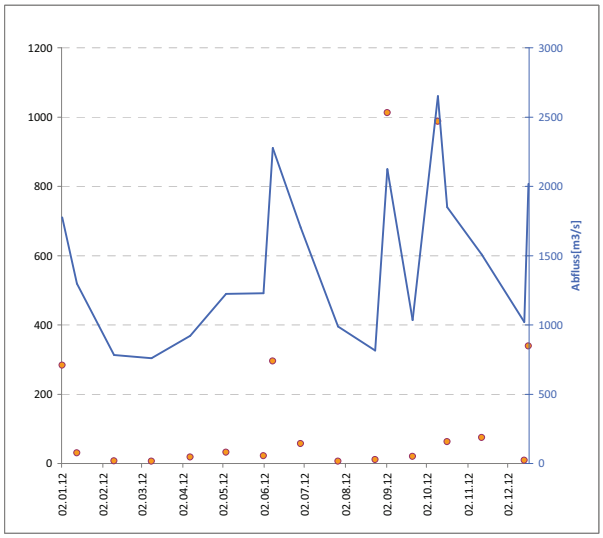
Mittelwert	48.4	
Max	61.0	14.12.12
90-Perzentil	57.0	
Median	47.5	
10-Perzentil	40.0	
Min	40.0	02.09.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	203.2
Maximum	12164.2
Minimum	3.0

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



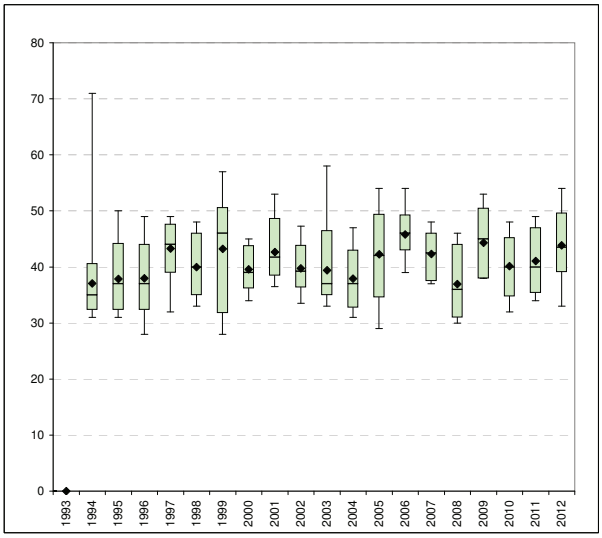
Mittelwert	182.2	
Max	1012.8	02.09.12
90-Perzentil	533.6	
Median	31.6	
10-Perzentil	7.5	
Min	6.3	27.07.12

NICKEL

SCHWEBSTOFF__7440-02-0&F&NICKEL__GEW_RHEIN_RUES

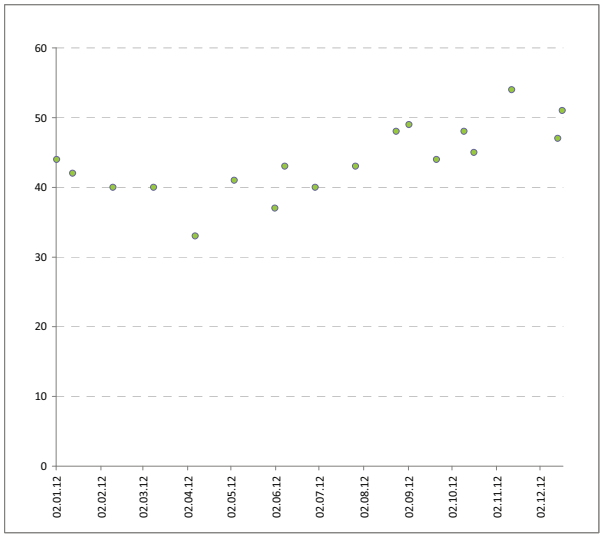
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	50	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



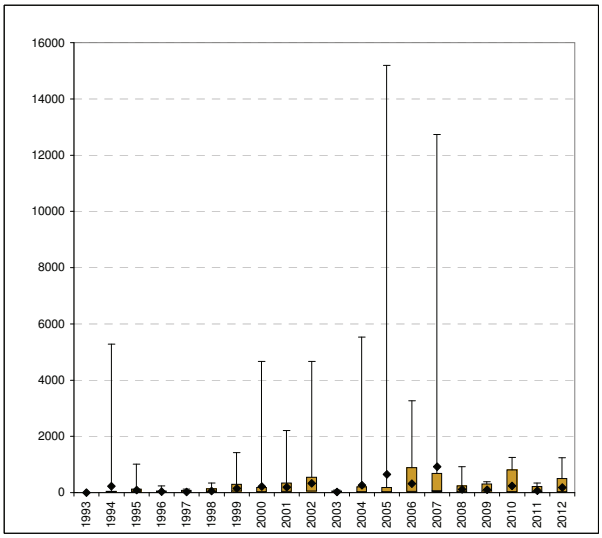
Mittelwert	40.8	
Maximum	71.0	
Minimum	28.0	

Einzelwerte Messwert [mg/kg_TS]



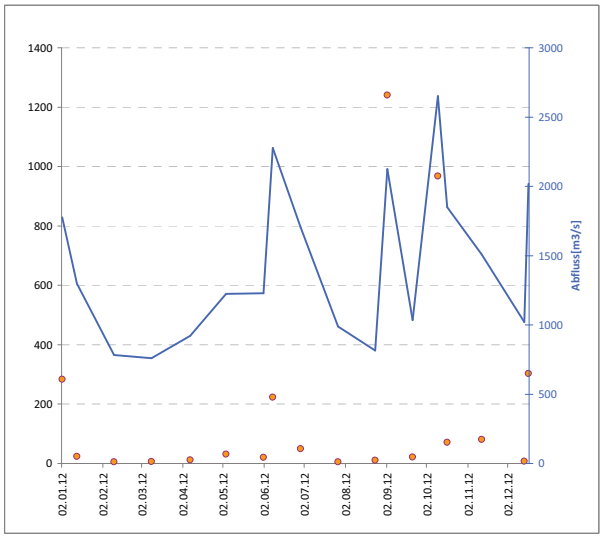
Mittelwert	43.8	
Max	54.0	12.11.12
90-Perzentil	49.6	
Median	43.5	
10-Perzentil	39.1	
Min	33.0	07.04.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	220.5
Maximum	15193.5
Minimum	1.6

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



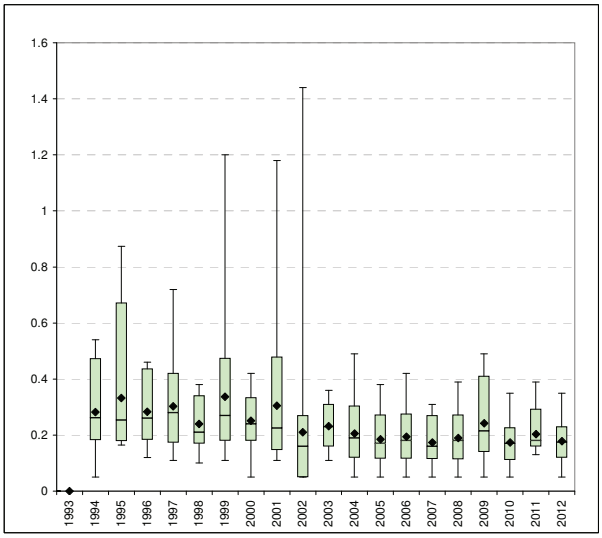
Mittelwert	186.8	
Max	1240.7	02.09.12
90-Perzentil	502.5	
Median	27.2	
10-Perzentil	6.0	
Min	5.7	10.02.12

QUECKSILBER

SCHWEBSTOFF__7439-97-6&F&QUECKSILBER__GEW_RHEIN_RUES

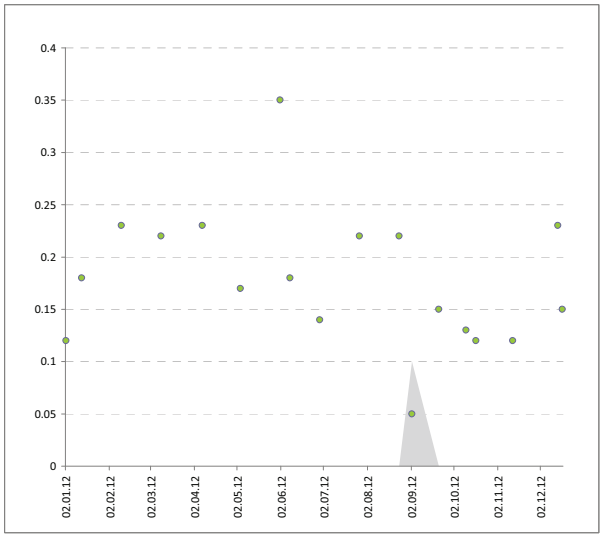
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	0.5	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	-	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



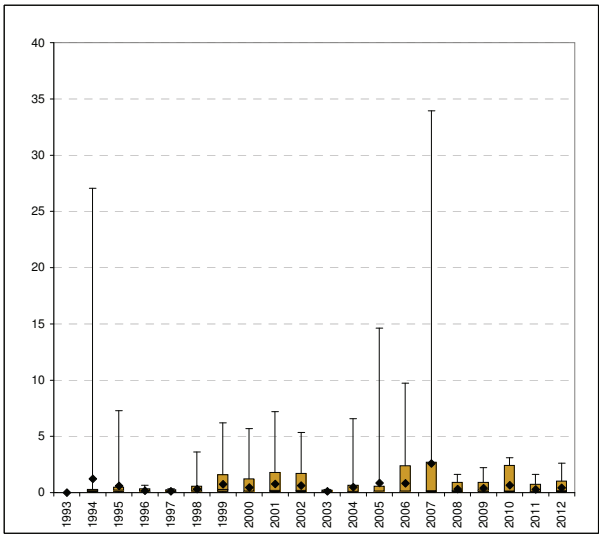
Mittelwert	0.24
Maximum	1.44
Minimum	0.05

Einzelwerte Messwert [mg/kg_TS]



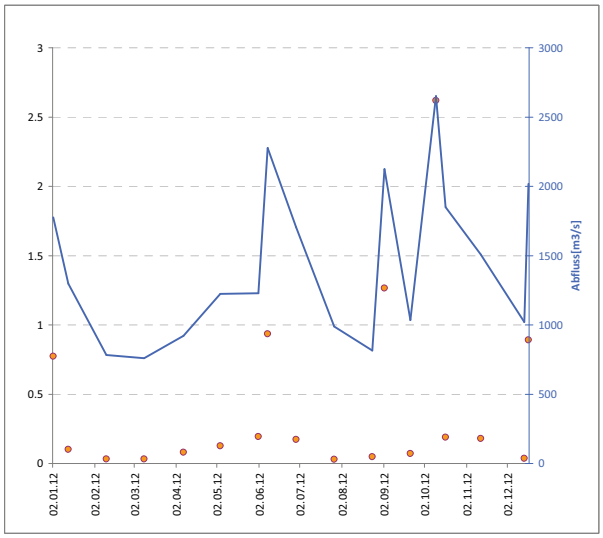
Mittelwert	0.18	
Max	0.35	01.06.12
90-Perzentil	0.23	
Median	0.18	
10-Perzentil	0.12	
Min	0.05	02.09.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	0.626
Maximum	33.947
Minimum	0.010

Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



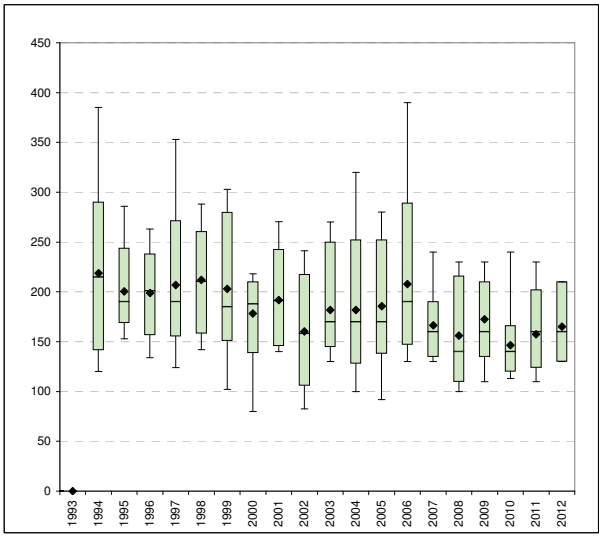
Mittelwert	0.432	
Max	2.620	10.10.12
90-Perzentil	1.034	
Median	0.150	
10-Perzentil	0.033	
Min	0.030	27.07.12

ZINK

SCHWEBSTOFF__7440-66-6&F&ZINK__GEW_RHEIN_RUES

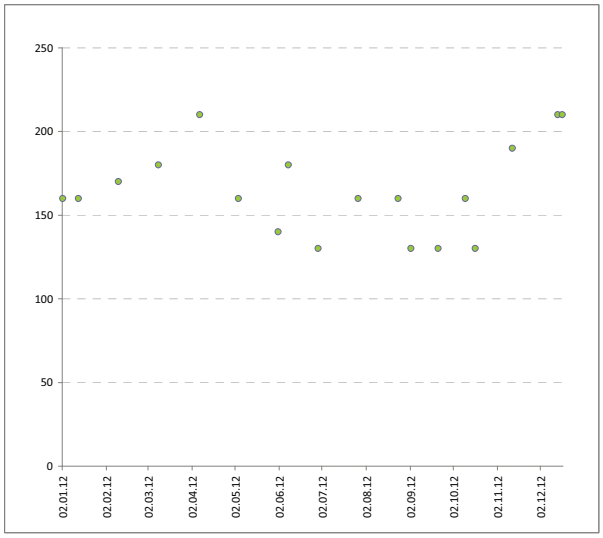
Verordnung	Wert	Einheit
Grenzwert GSchV (Maximalwert)	-	[mg/kg_TS]
Zielvorgabe IKSR (90 Perzentil)	200	[mg/kg_TS]
Zielvorgabe IAWR (Maximalwert)	-	[mg/kg_TS]
Orientierungswert für chemisch-physikalische Qualitätskomponenten für Gewässertyp 10	800	[mg/kg_TS]

Schwankungsbreite Messwert [mg/kg_TS]



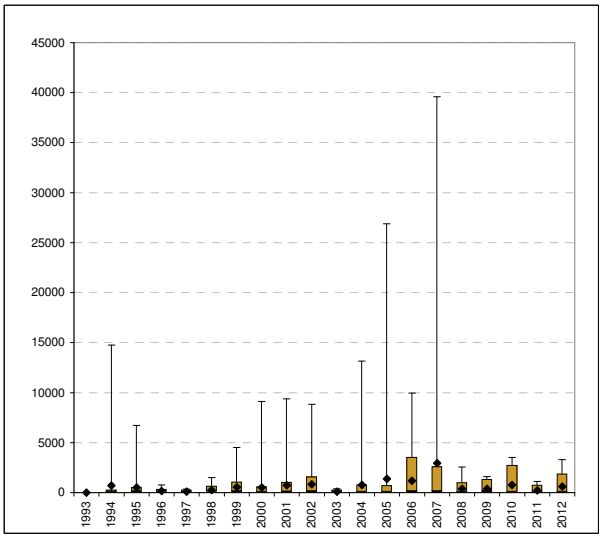
Mittelwert	184
Maximum	390
Minimum	80

Einzelwerte Messwert [mg/kg_TS]



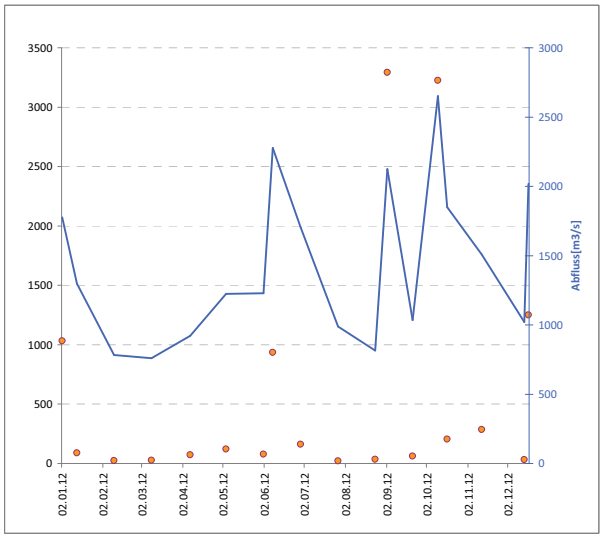
Mittelwert	165	
Max	210	07.04.12
90-Perzentil	210	
Median	160	
10-Perzentil	130	
Min	130	21.09.12

Schwankungsbreite Transporte [kg/d]



Mittelwert	685.0
Maximum	39604.5
Minimum	8.2

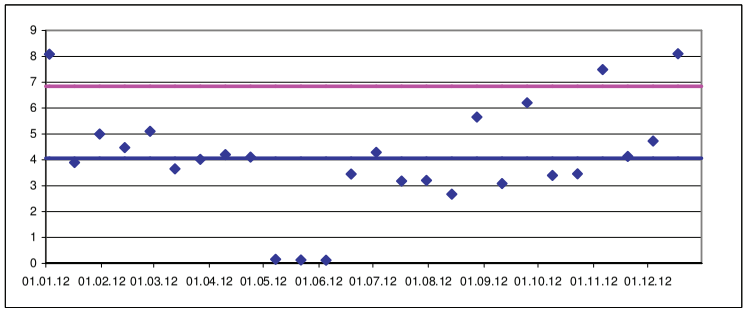
Einzelwerte Fracht [kg/d] vs. Abfluss [m3/s]



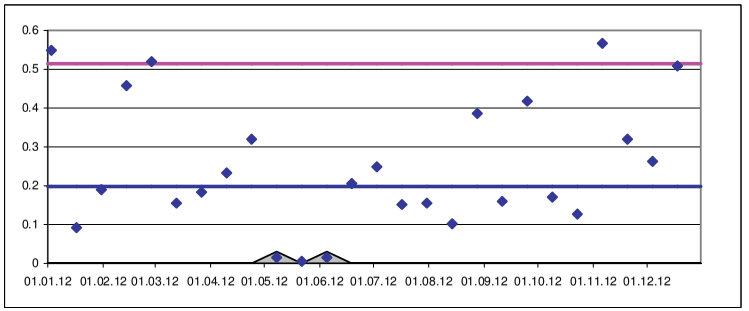
Mittelwert	608.2	
Max	3291.7	02.09.12
90-Perzentil	1841.6	
Median	105.0	
10-Perzentil	26.3	
Min	21.9	27.07.12

Anhang 7 Grafische Darstellung der Messresultate 2012 Wasserphase

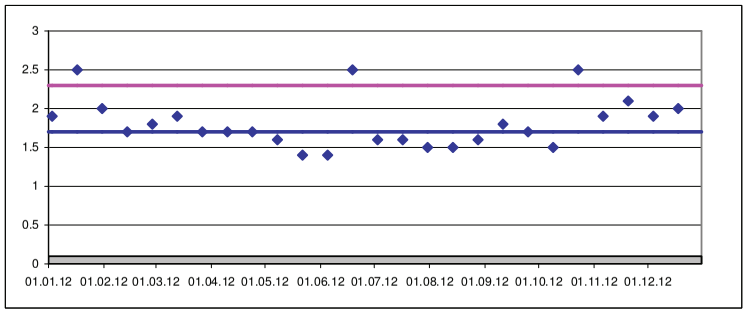
SAK-254 [1/m]
1M14_MS
90-Perzentil: 6.85
Median: 4.07



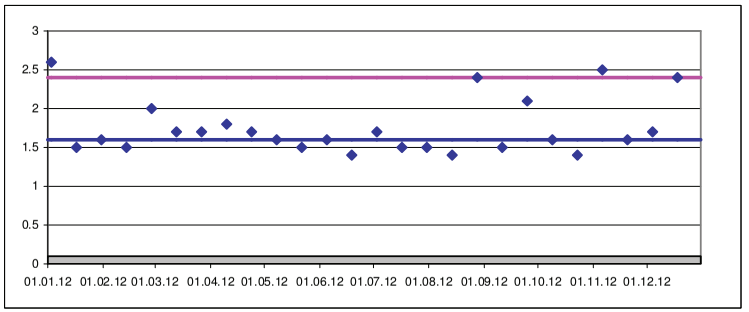
SAK-436 [1/m]
1M14_MS
90-Perzentil: 0.515
Median: 0.198



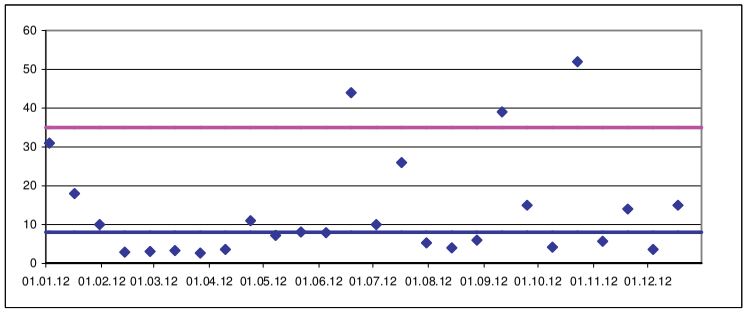
DOC [mg/L]
14M_MK
90-Perzentil: 2.3
Median: 1.7



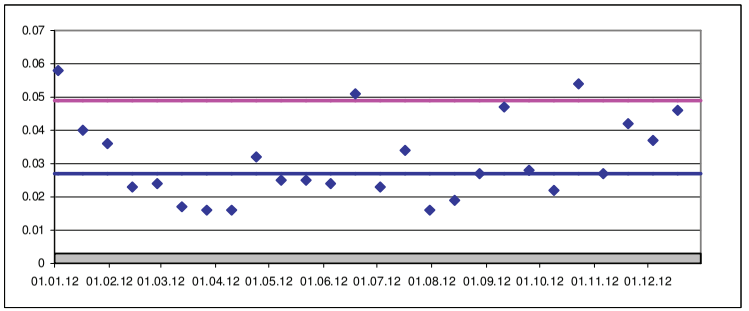
DOC [mg/L]
E14_MS
90-Perzentil: 2.4
Median: 1.6



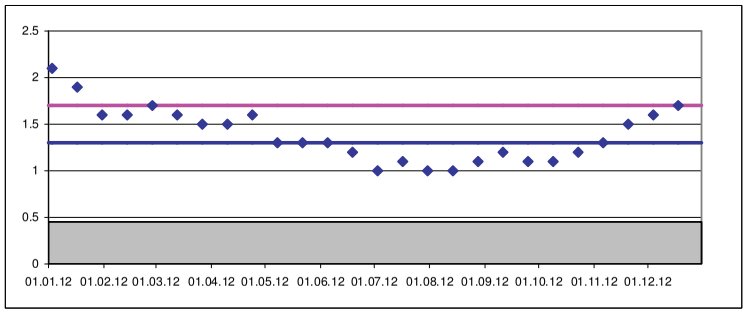
GUS [mg/L]
14M_MK
90-Perzentil: 35
Median: 8



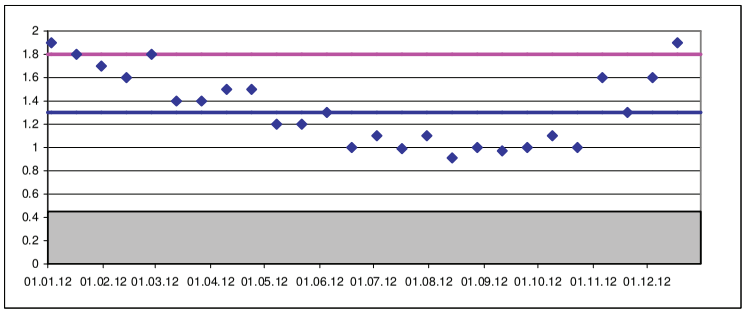
Phosphor(gesamt) [mg/L]
14M_MK
90-Perzentil: 0.049
Median: 0.027



Stickstoff(gesamt) [mg/L]
14M_MK
90-Perzentil: 1.7
Median: 1.3



Stickstoff(gesamt) [mg/L]
E14_MS
90-Perzentil: 1.8
Median: 1.3



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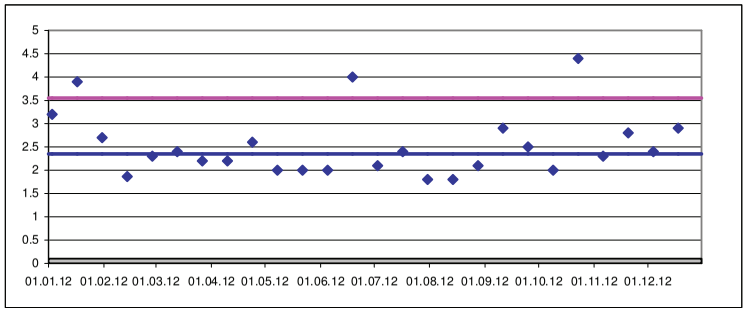
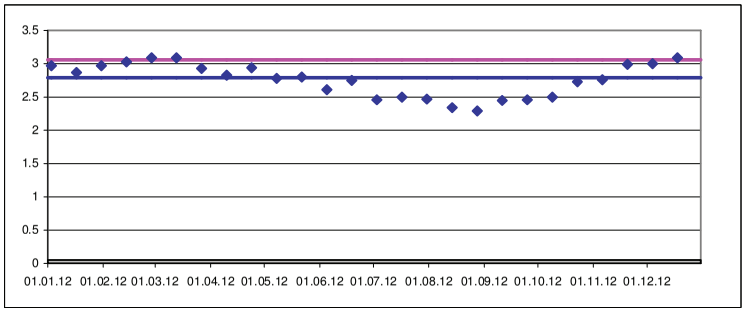
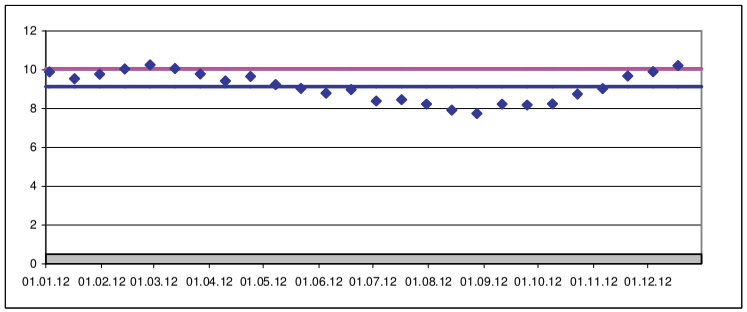
TOC [mg/L]
14M_MK
90-Perzentil: 3.55
Median: 2.35



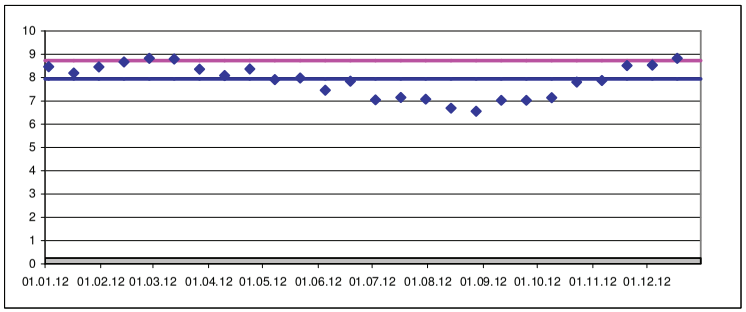
Alkalinität [mMol_H+/L]
14M_MK
90-Perzentil: 3.06
Median: 2.79



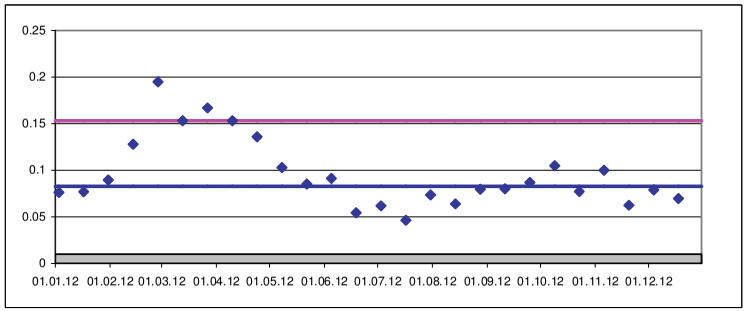
Gesamthärte [GRAD_dH]
14M_MK
90-Perzentil: 10.1
Median: 9.15



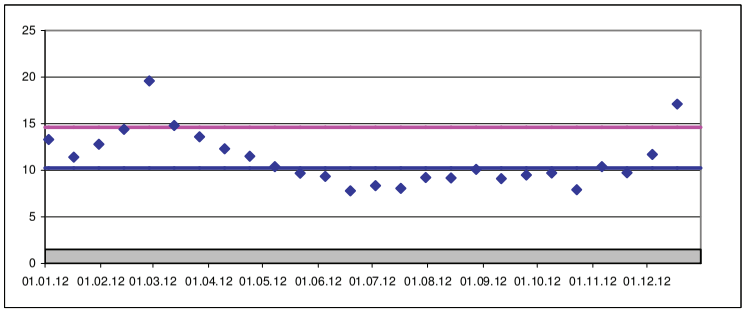
Karbonathärte [GRAD_dH]
14M_MK
90-Perzentil: 8.74
Median: 7.95



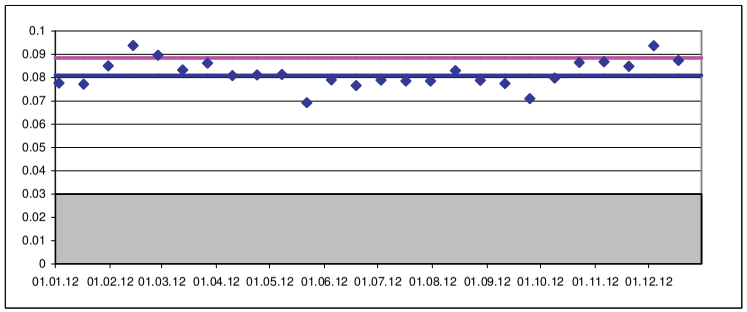
Bromid [mg/L]
14M_MK
90-Perzentil: 0.153
Median: 0.0828



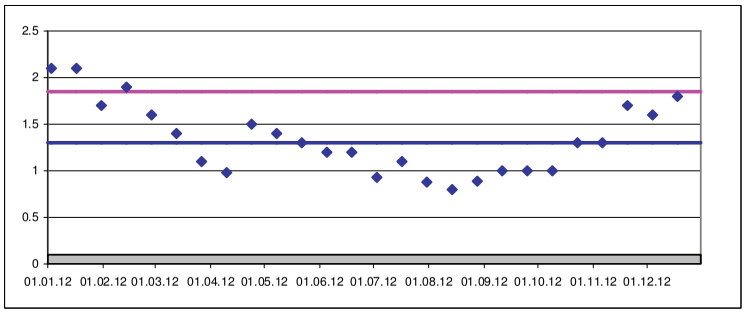
Chlorid [mg/L]
14M_MK
90-Perzentil: 14.6
Median: 10.3



Fluorid [mg/L]
14M_MK
90-Perzentil: 0.0885
Median: 0.0811



Kieselsäure frei (Si) [mg/L]
14M_MK
90-Perzentil: 1.85
Median: 1.3



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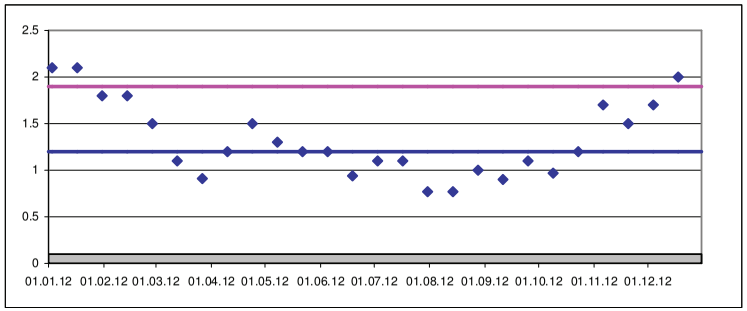
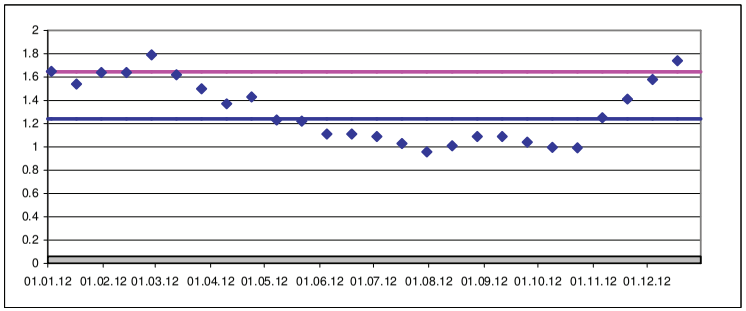
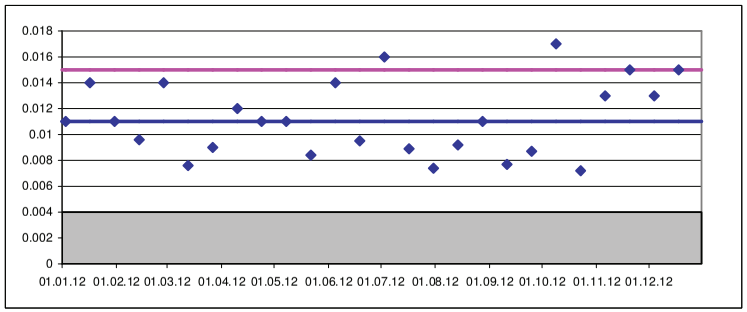
Kieselsäure frei (Si) [mg/L]
E14_MK
90-Perzentil: 1.9
Median: 1.2



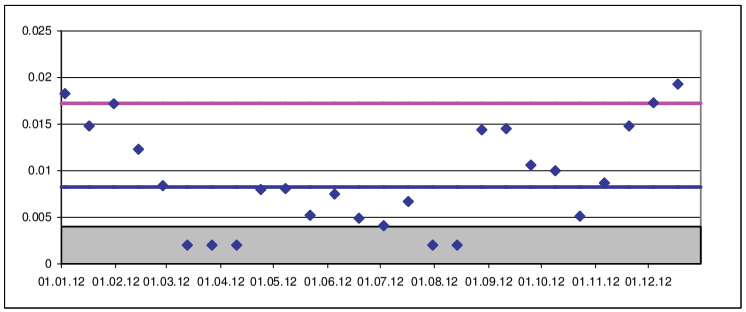
Nitrat(N) [mg/L]
14M_MK
90-Perzentil: 1.65
Median: 1.24



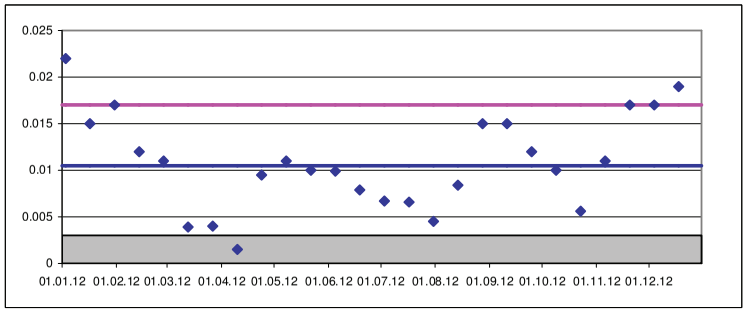
Nitrit(N) [mg/L]
E14_MS
90-Perzentil: 0.015
Median: 0.011



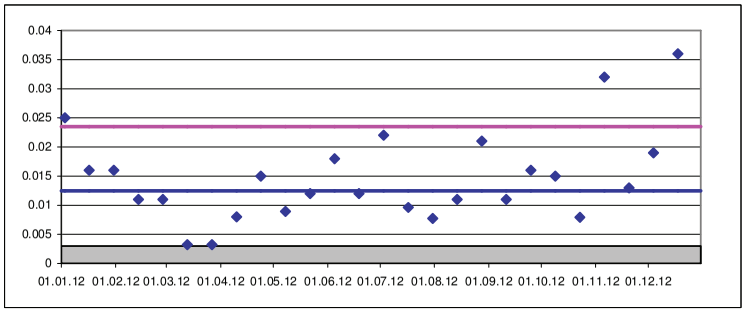
o-Phosphat(gelöst-IC) [mg/L]
14M_MK
90-Perzentil: 0.0173
Median: 0.00825



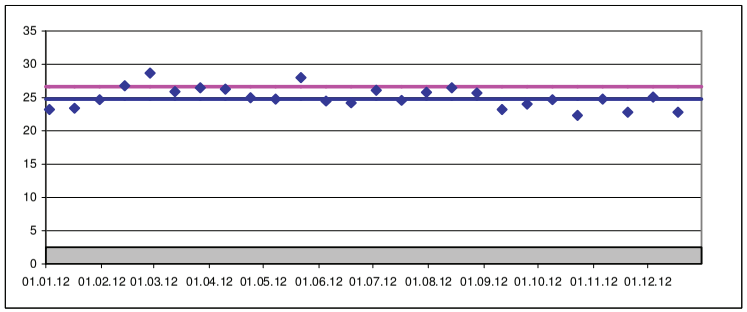
o-Phosphat(DRP) [mg/L]
14M_MK
90-Perzentil: 0.017
Median: 0.0105



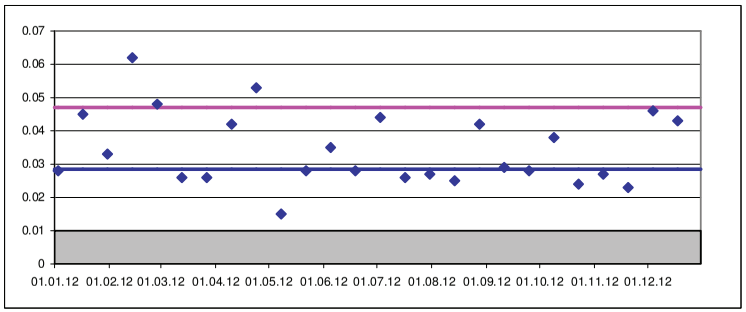
o-Phosphat(DRP) [mg/L]
E14_MS
90-Perzentil: 0.0235
Median: 0.0125



Sulfat [mg/L]
14M_MK
90-Perzentil: 26.7
Median: 24.8



Ammonium(N) [mg/L]
1M14_MS
90-Perzentil: 0.047
Median: 0.0285



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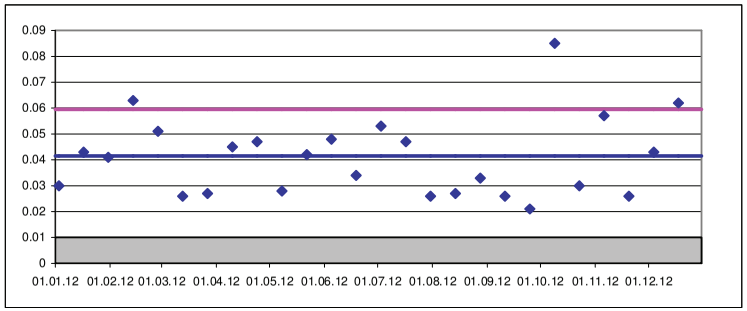
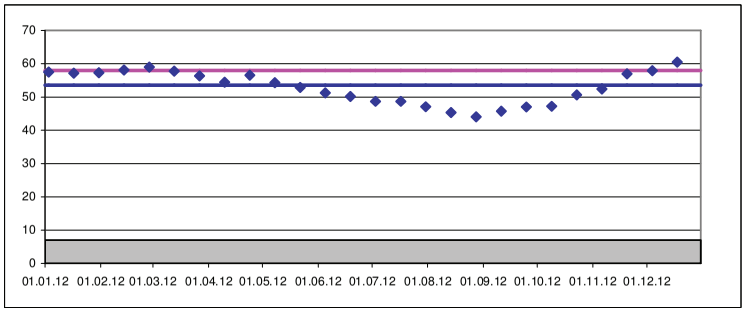
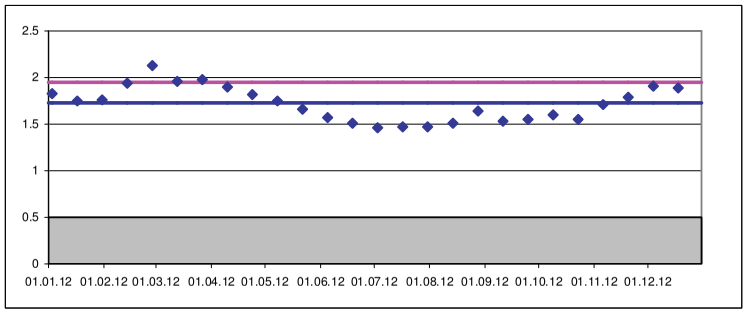
Ammonium(N) [mg/L]
E14_MS
90-Perzentil: 0.0595
Median: 0.0415



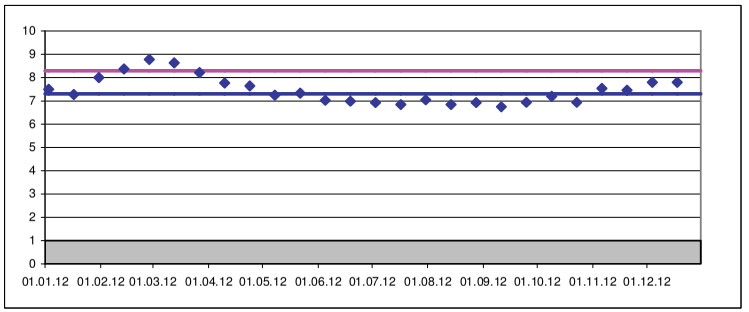
Calcium(gesamt) [mg/L]
14M_MK
90-Perzentil: 58
Median: 53.6



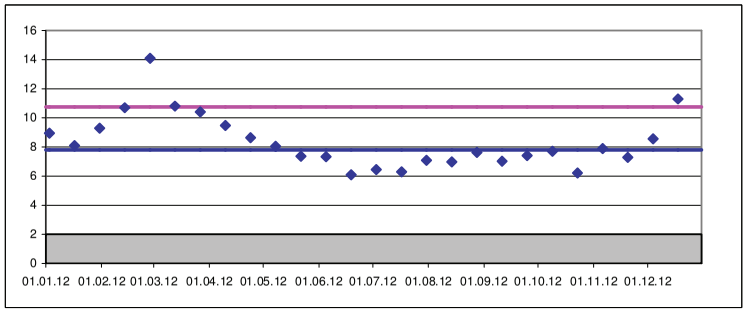
Kalium(gesamt) [mg/L]
14M_MK
90-Perzentil: 1.95
Median: 1.73



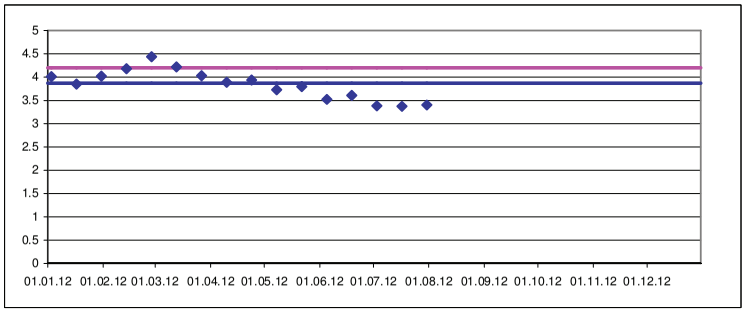
Magnesium(gesamt) [mg/L]
14M_MK
90-Perzentil: 8.3
Median: 7.31



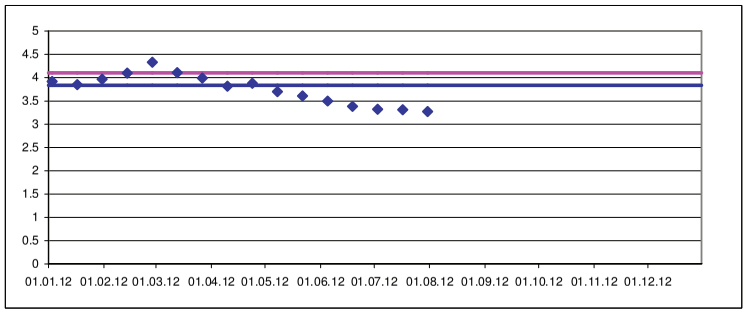
Natrium(gesamt) [mg/L]
14M_MK
90-Perzentil: 10.8
Median: 7.8



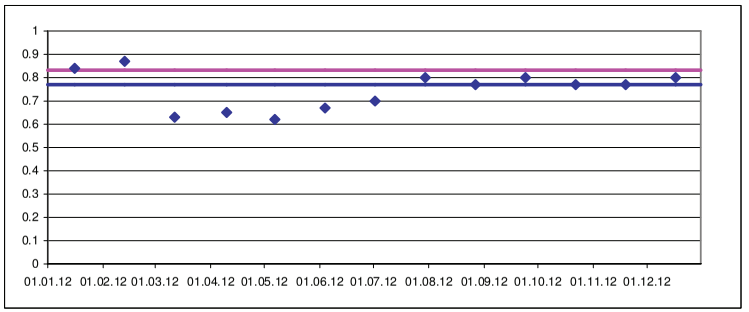
Anionensumme [meq/L]
14M_MK
90-Perzentil: 4.2
Median: 3.87



Kationensumme [meq/L]
14M_MK
90-Perzentil: 4.11
Median: 3.84



Arsen(geloest) [µg/L]
E28_MK
90-Perzentil: 0.832
Median: 0.77



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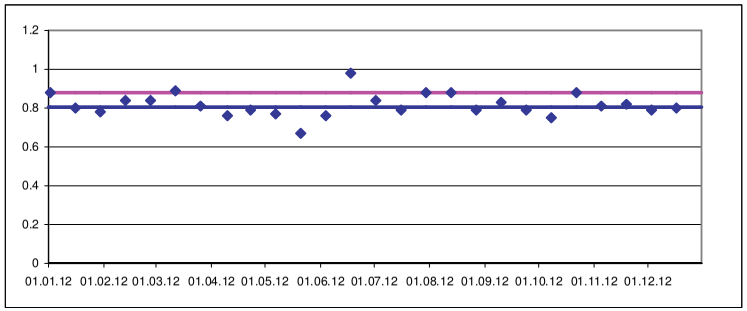
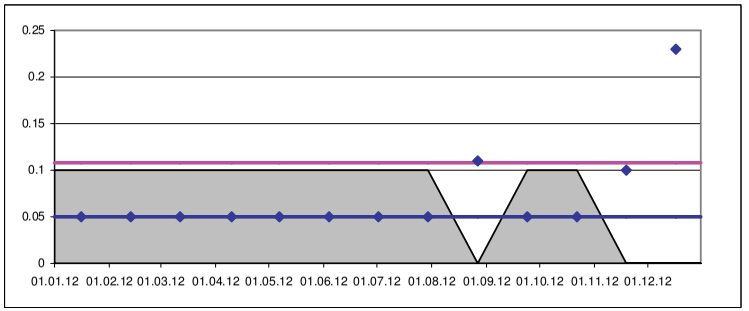
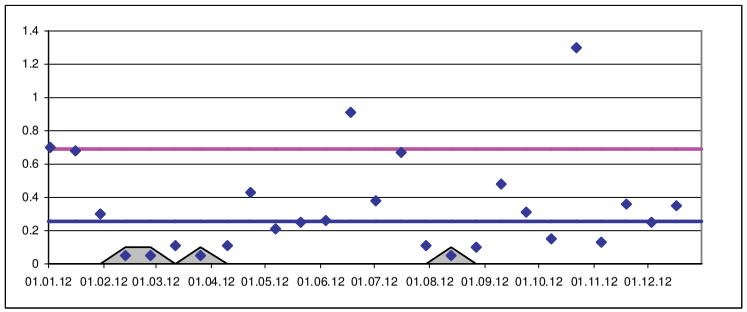
Arsen(gesamt) [µg/L]
14M_MK
90-Perzentil: 0.88
Median: 0.805



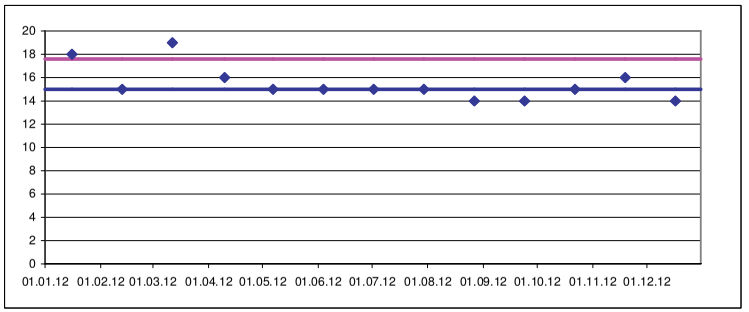
Blei(geloest) [µg/L]
E28_MK
90-Perzentil: 0.108
Median: 0.05



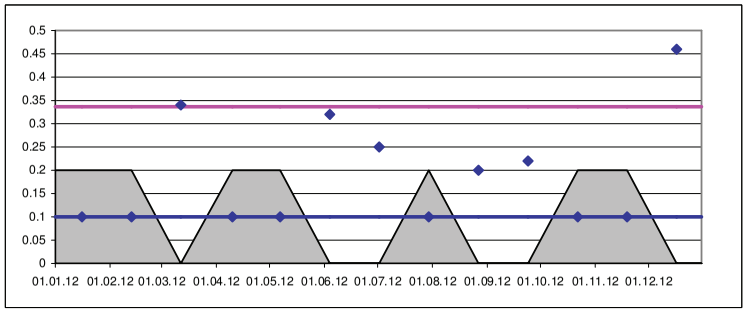
Blei(gesamt) [µg/L]
14M_MK
90-Perzentil: 0.69
Median: 0.255



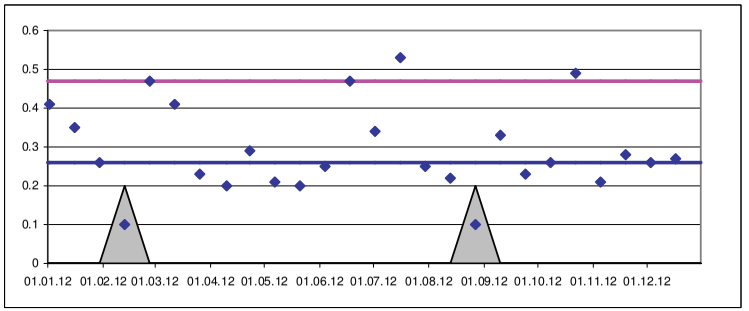
Bor(geloest) [µg/L]
E28_MK
90-Perzentil: 17.6
Median: 15



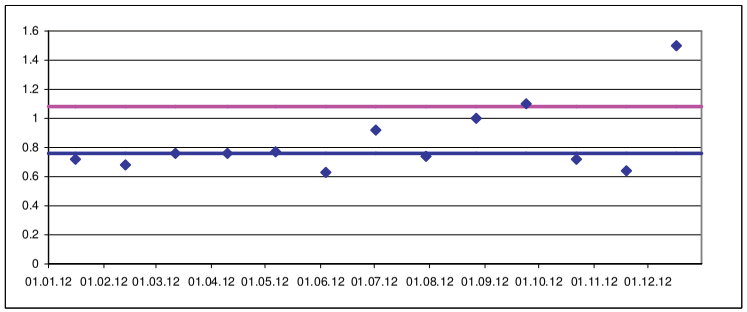
Chrom(geloest) [µg/L]
E28_MK
90-Perzentil: 0.336
Median: 0.1



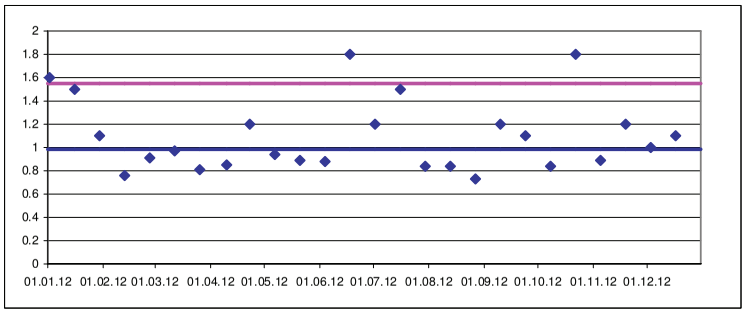
Chrom(gesamt) [µg/L]
14M_MK
90-Perzentil: 0.47
Median: 0.26



Kupfer(geloest) [µg/L]
E28_MK
90-Perzentil: 1.08
Median: 0.76



Kupfer(gesamt) [µg/L]
14M_MK
90-Perzentil: 1.55
Median: 0.985



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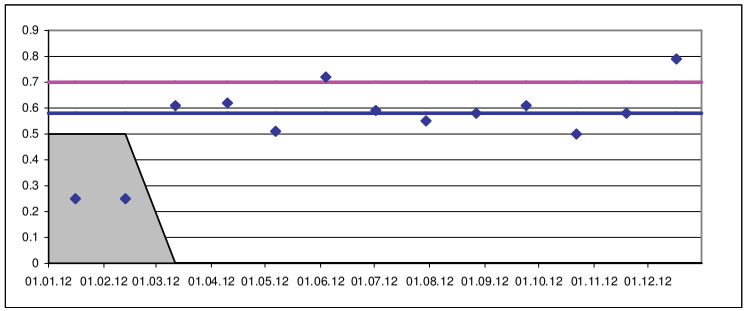
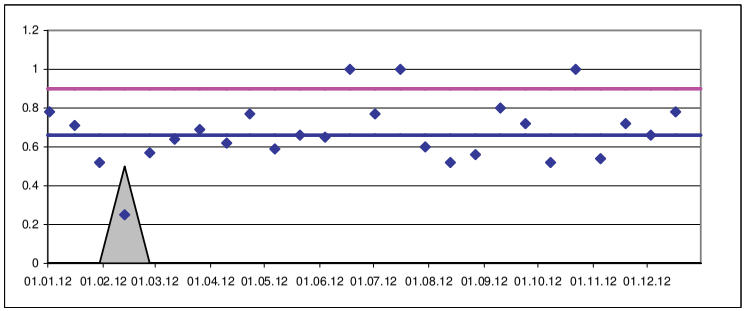
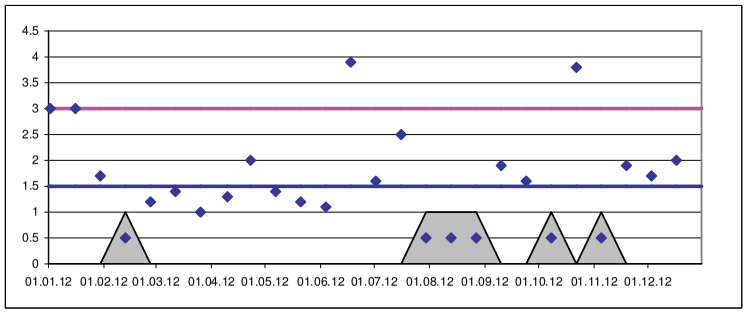
Nickel(geloest) [µg/L]
E28_MK
90-Perzentil: 0.7
Median: 0.58



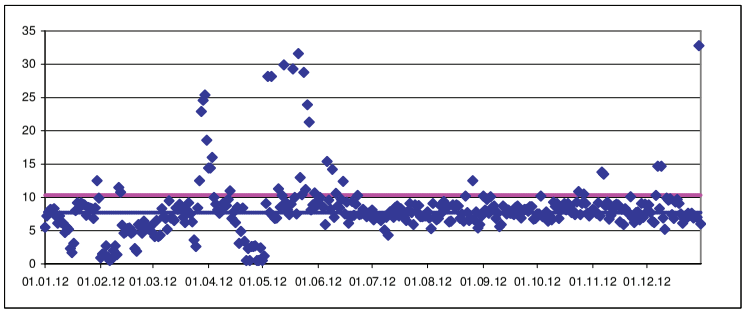
Nickel(gesamt) [µg/L]
14M_MK
90-Perzentil: 0.9
Median: 0.66



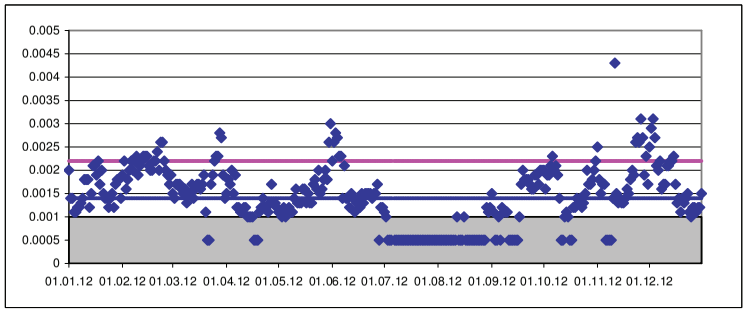
Zink(gesamt) [µg/L]
14M_MK
90-Perzentil: 3
Median: 1.5



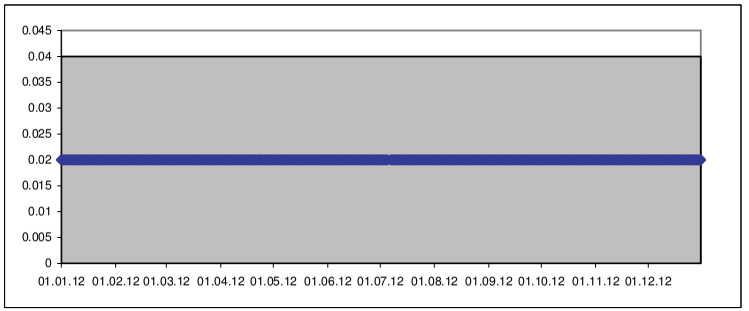
Tritium [Bq/L]
1M_PMS
90-Perzentil: 10.4
Median: 7.7



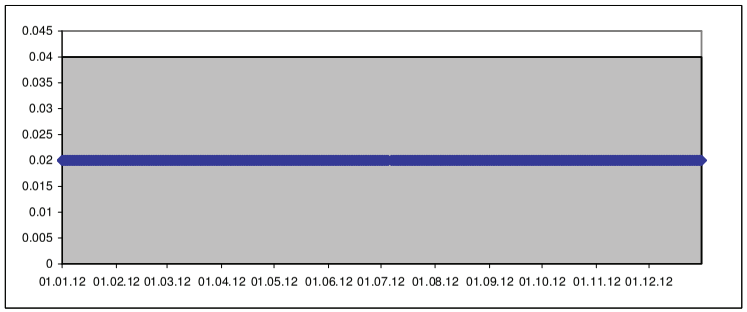
1,1,1-Trichlorethan [µg/L]
1M_MS
90-Perzentil: 0.0022
Median: 0.0014



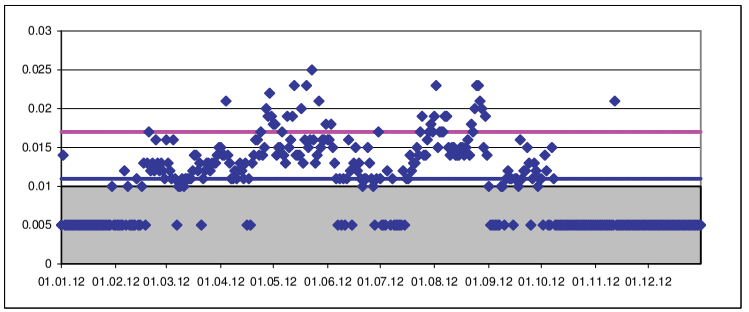
1,2-Dichlorethan [µg/L]
1M_MS
90-Perzentil: 0.02
Median: 0.02



Bromdichlormethan [µg/L]
1M_MS
90-Perzentil: 0.02
Median: 0.02



Bromoform [µg/L]
1M_MS
90-Perzentil: 0.017
Median: 0.011



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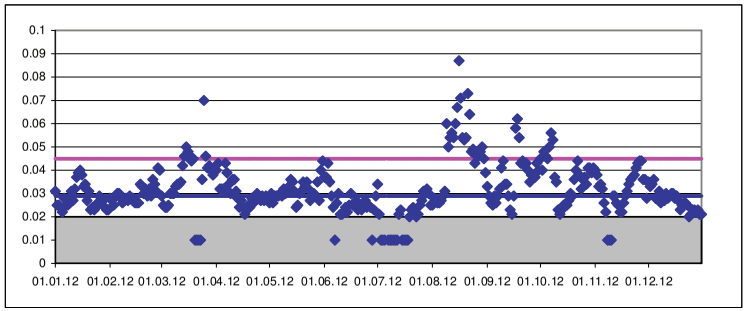
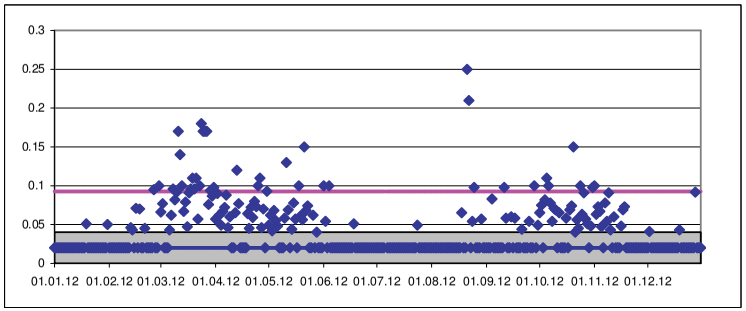
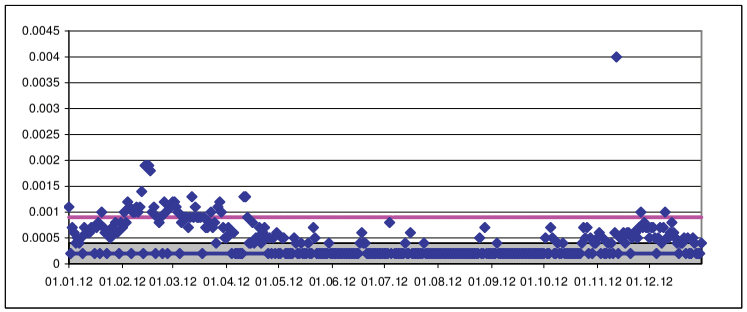
Chloroform [µg/L]
1M_MS
90-Perzentil: 0.045
Median: 0.029



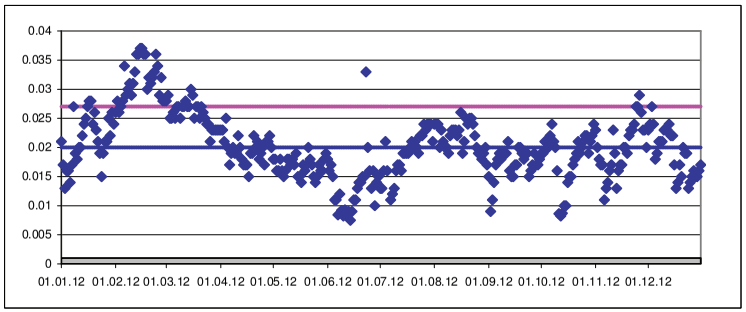
Dichlormethan [µg/L]
1M_MS
90-Perzentil: 0.0926
Median: 0.02



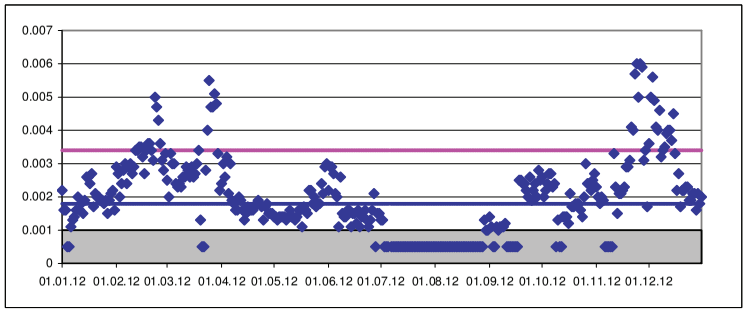
Hexachlorethan [µg/L]
1M_MS
90-Perzentil: 0.0009
Median: 0.0002



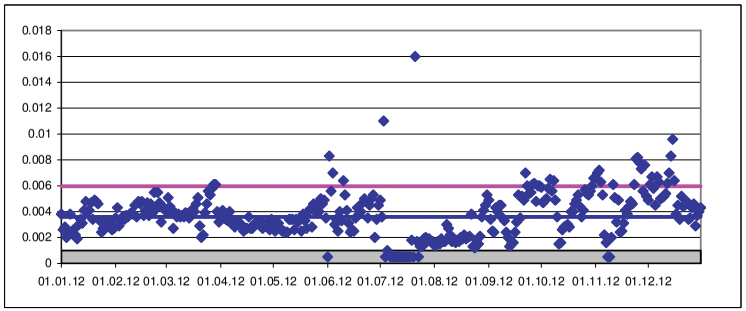
Tetrachlorethen [µg/L]
1M_MS
90-Perzentil: 0.027
Median: 0.02



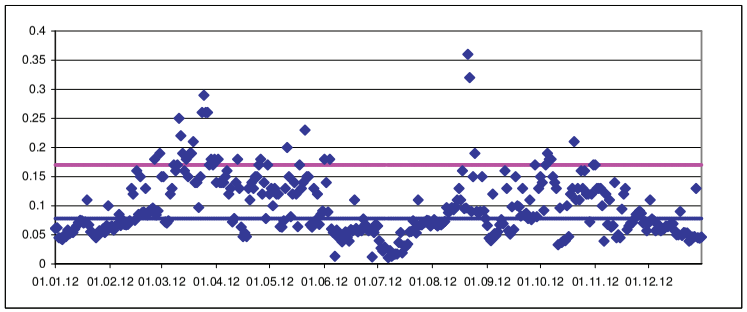
Tetrachlormethan [µg/L]
1M_MS
90-Perzentil: 0.0034
Median: 0.0018



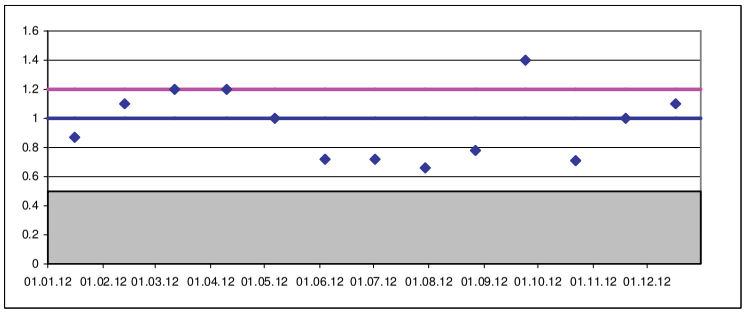
Trichlorethen [µg/L]
1M_MS
90-Perzentil: 0.00596
Median: 0.0036



Summe_Halogenierte [µg/L]
1M_MS
90-Perzentil: 0.17
Median: 0.078



EDTA [µg/L]
28M_MS
90-Perzentil: 1.2
Median: 1



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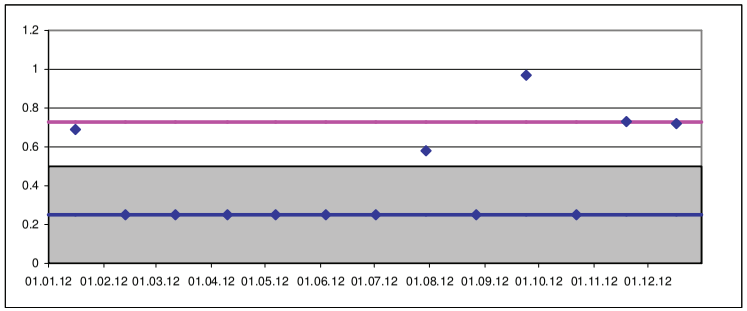
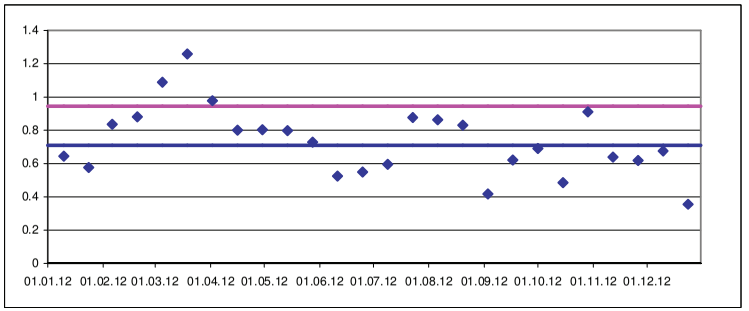
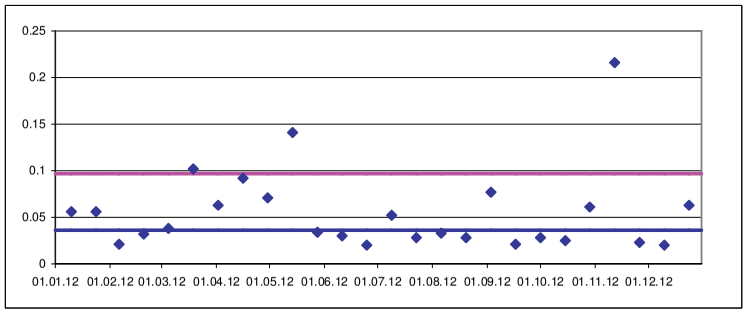
NTA [µg/L]
28M_MS
90-Perzentil: 0.728
Median: 0.25



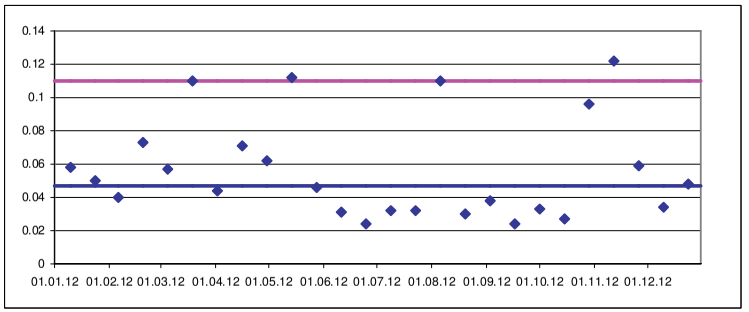
Acesulfam [µg/L]
1M14_MS
90-Perzentil: 0.944
Median: 0.71



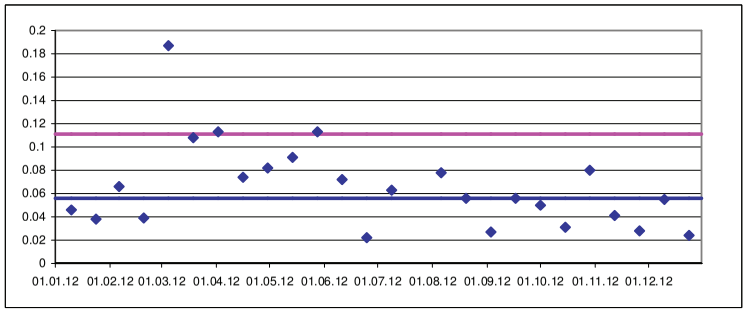
Cyclohexylsulfamidsaeure [µg/L]
1M14_MS
90-Perzentil: 0.097
Median: 0.036



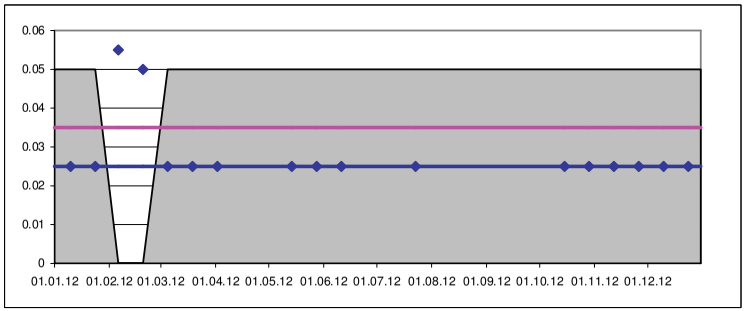
Saccharin [µg/L]
1M14_MS
90-Perzentil: 0.11
Median: 0.047



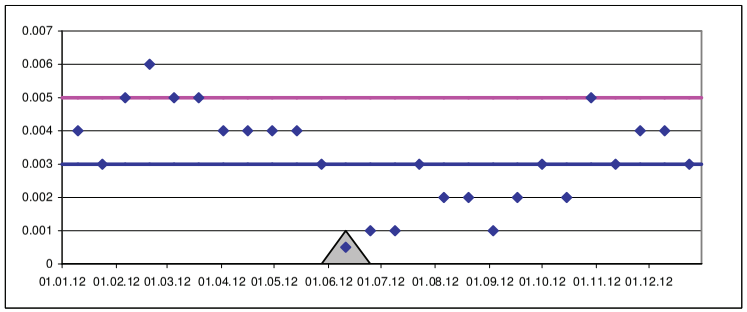
Sucralose [µg/L]
1M14_MS
90-Perzentil: 0.111
Median: 0.056



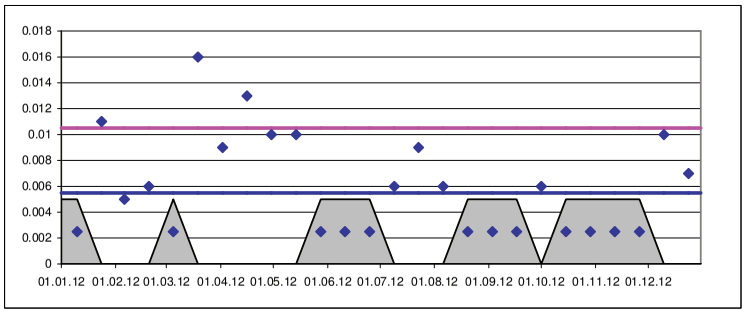
Iohexol [µg/L]
1M14_MS
90-Perzentil: 0.035
Median: 0.025



Amisulprid [µg/L]
1M14_MS
90-Perzentil: 0.005
Median: 0.003



Atenolon [µg/L]
1M14_MS
90-Perzentil: 0.0105
Median: 0.0055



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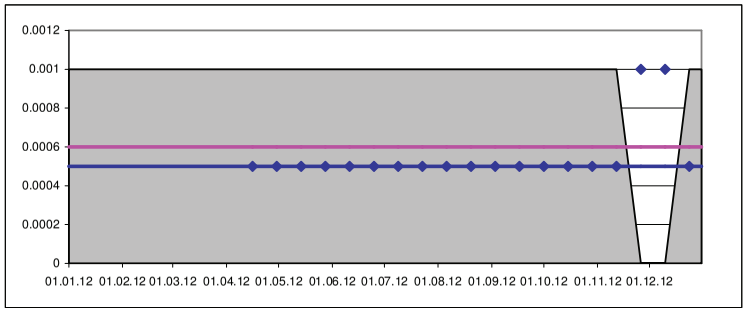
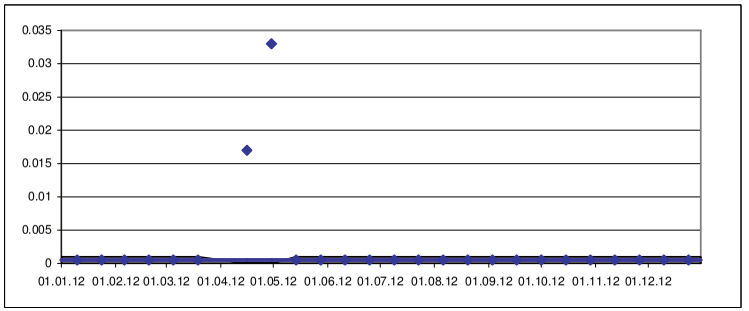
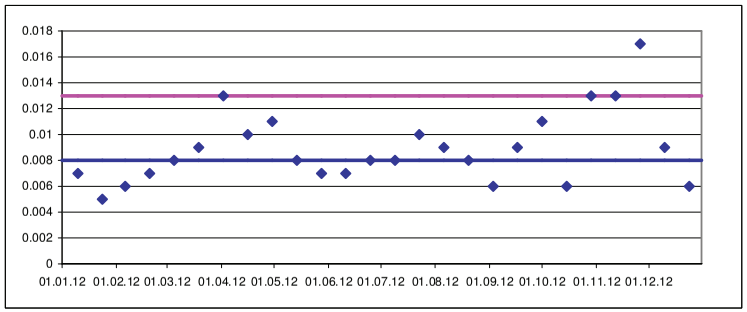
Azithromycin [µg/L]
1M14_MS
90-Perzentil: 0.0006
Median: 0.0005



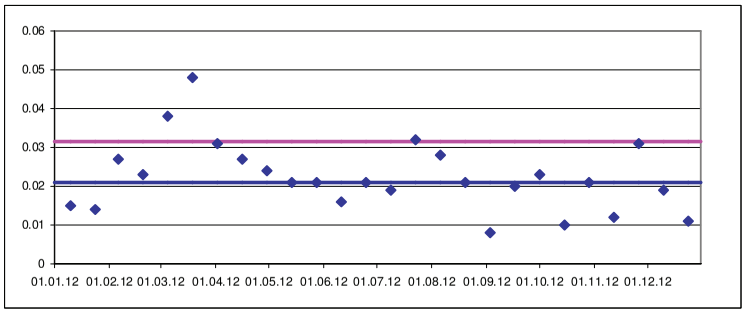
Bicalutamid [µg/L]
1M14_MS
90-Perzentil: 0.0005
Median: 0.0005



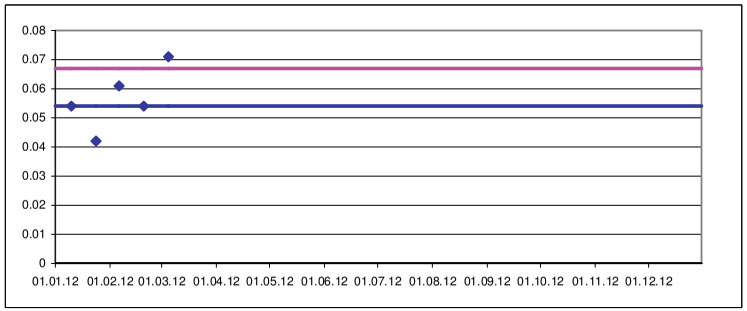
Candesartan [µg/L]
1M14_MS
90-Perzentil: 0.013
Median: 0.008



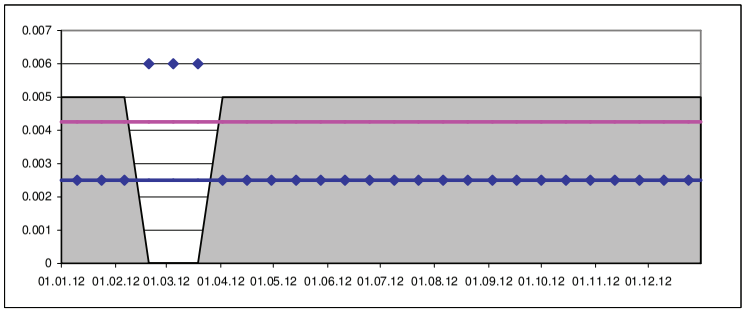
Carbamazepin [µg/L]
1M14_MS
90-Perzentil: 0.0315
Median: 0.021



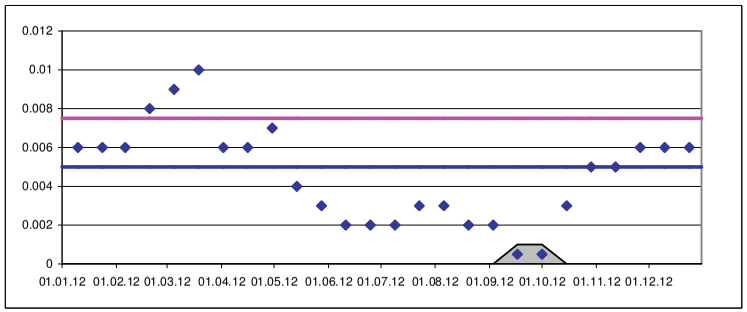
Cetirizin [µg/L]
1M14_MS
90-Perzentil: 0.067
Median: 0.054



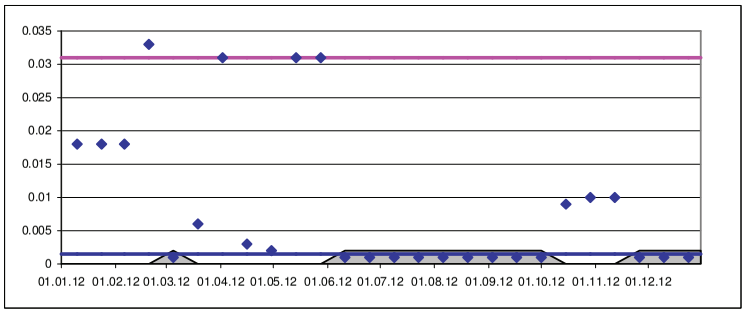
Citalopram [µg/L]
1M14_MS
90-Perzentil: 0.00425
Median: 0.0025



Clarithromycin [µg/L]
1M14_MS
90-Perzentil: 0.0075
Median: 0.005



Climbazol [µg/L]
1M14_MS
90-Perzentil: 0.031
Median: 0.0015



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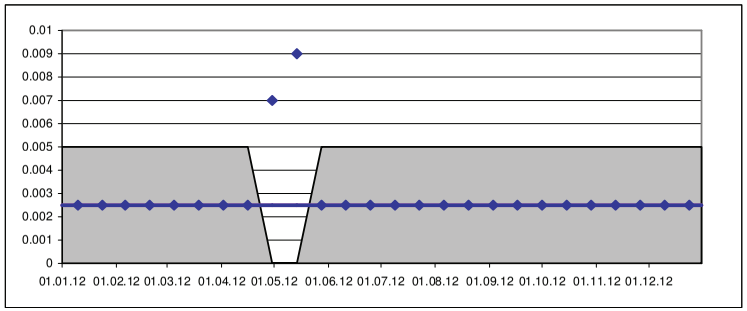
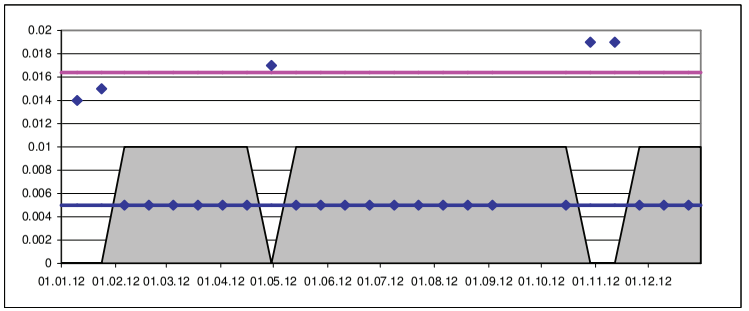
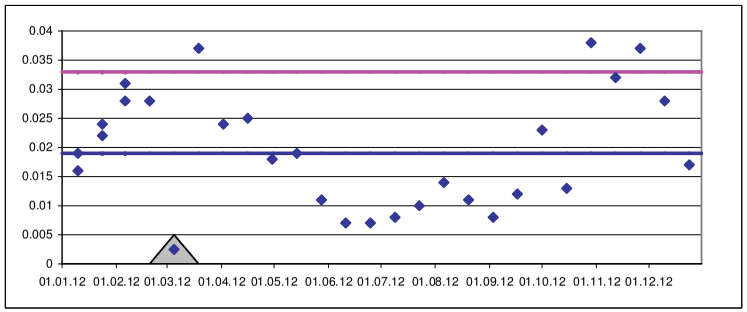
Clindamycin [µg/L]
1M14_MS
90-Perzentil: 0.0025
Median: 0.0025



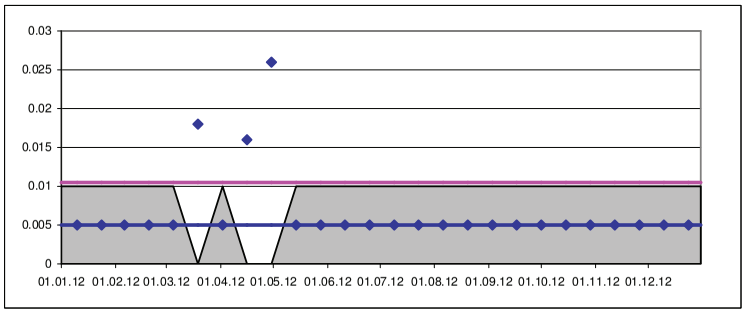
Codein [µg/L]
1M14_MS
90-Perzentil: 0.0164
Median: 0.005



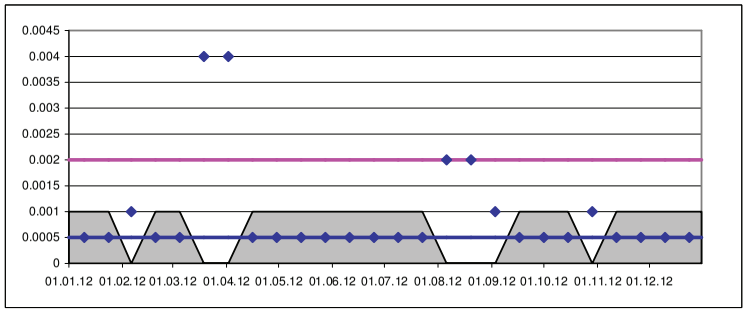
Diclofenac [µg/L]
1M14_MS
90-Perzentil: 0.033
Median: 0.019



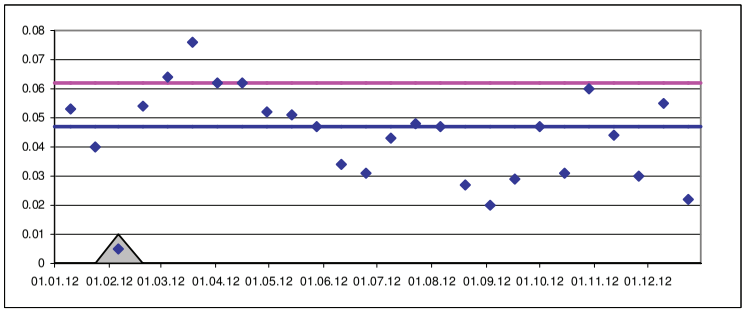
Eprosartan [µg/L]
1M14_MS
90-Perzentil: 0.0105
Median: 0.005



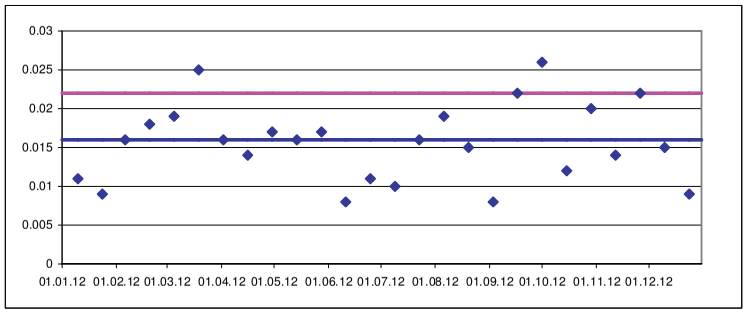
Fluoxetin [µg/L]
1M14_MS
90-Perzentil: 0.002
Median: 0.0005



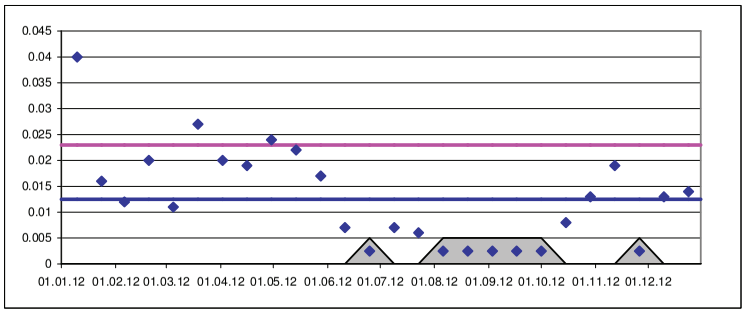
Gabapentin [µg/L]
1M14_MS
90-Perzentil: 0.062
Median: 0.047



Lamotrigin [µg/L]
1M14_MS
90-Perzentil: 0.022
Median: 0.016



Levetiracetam [µg/L]
1M14_MS
90-Perzentil: 0.023
Median: 0.0125



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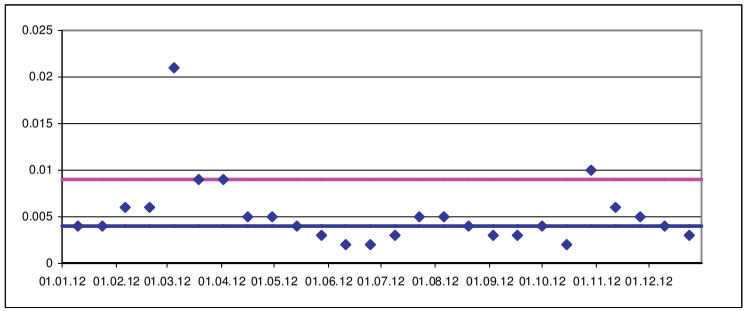
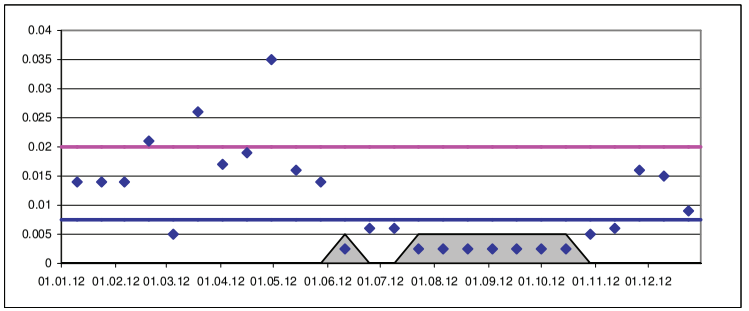
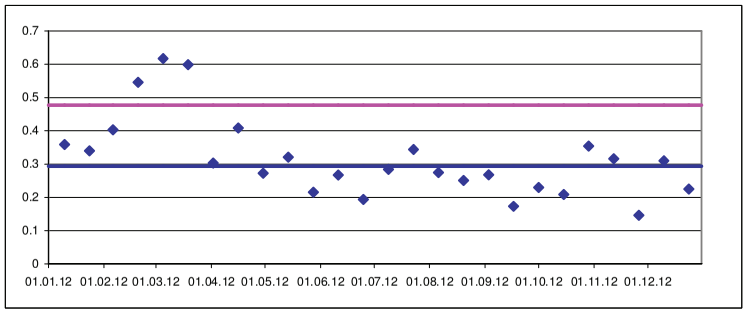
Lidocain [µg/L]
1M14_MS
90-Perzentil: 0.009
Median: 0.004



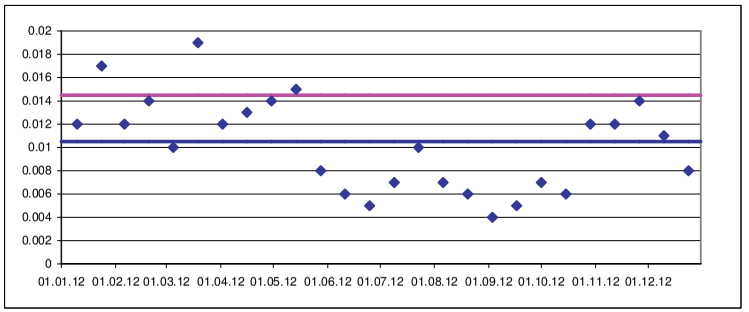
Losartan [µg/L]
1M14_MS
90-Perzentil: 0.02
Median: 0.0075



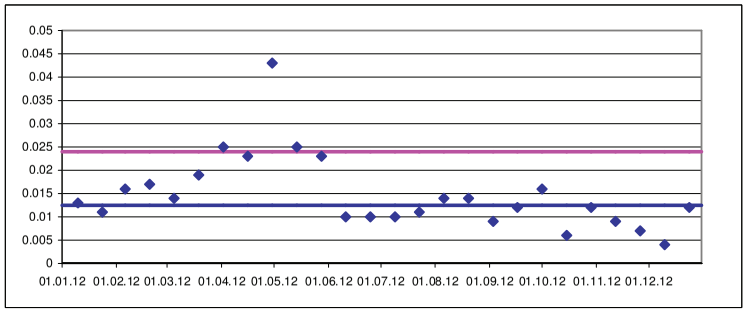
Metformin [µg/L]
1M14_MS
90-Perzentil: 0.477
Median: 0.294



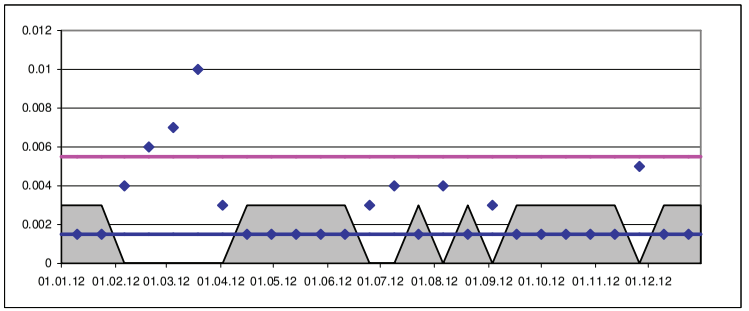
Metoprolol [µg/L]
1M14_MS
90-Perzentil: 0.0145
Median: 0.0105



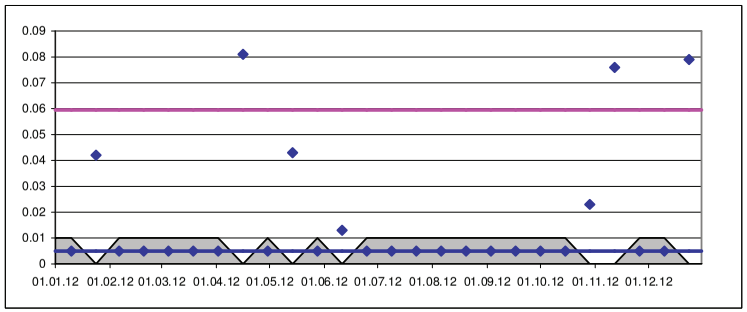
Oxazepam [µg/L]
1M14_MS
90-Perzentil: 0.024
Median: 0.0125



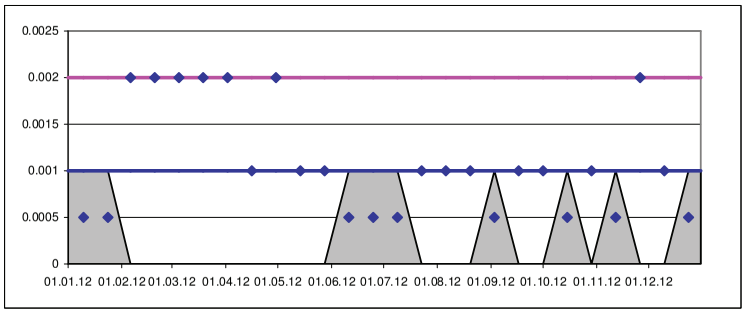
Oxcarbazepin [µg/L]
1M14_MS
90-Perzentil: 0.0055
Median: 0.0015



Paracetamol [µg/L]
1M14_MS
90-Perzentil: 0.0595
Median: 0.005



Phenazon [µg/L]
1M14_MS
90-Perzentil: 0.002
Median: 0.001



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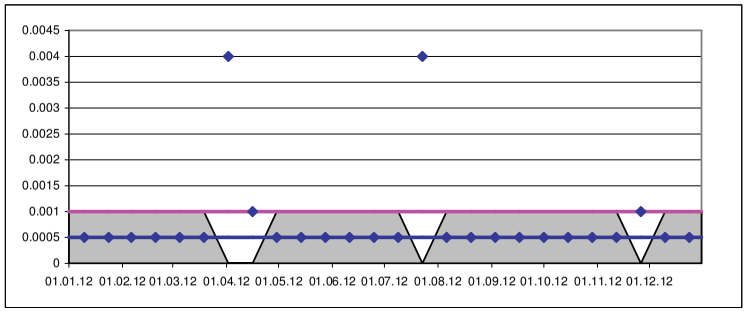
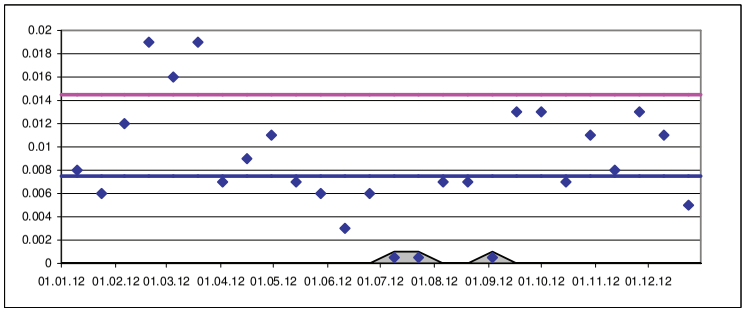
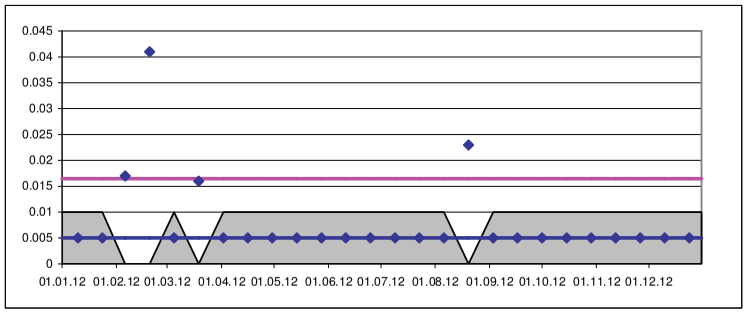
Rivastigmin [µg/L]
1M14_MS
90-Perzentil: 0.001
Median: 0.0005



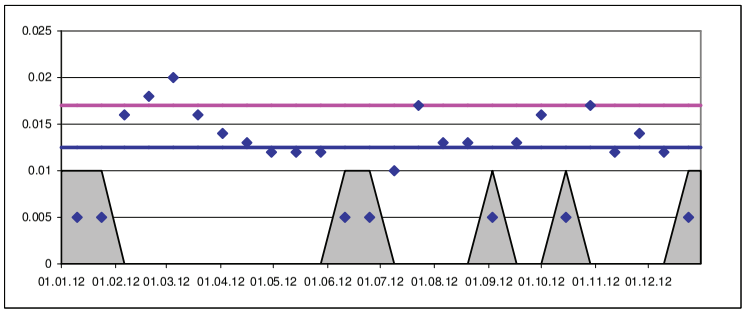
Sitagliptin [µg/L]
1M14_MS
90-Perzentil: 0.0145
Median: 0.0075



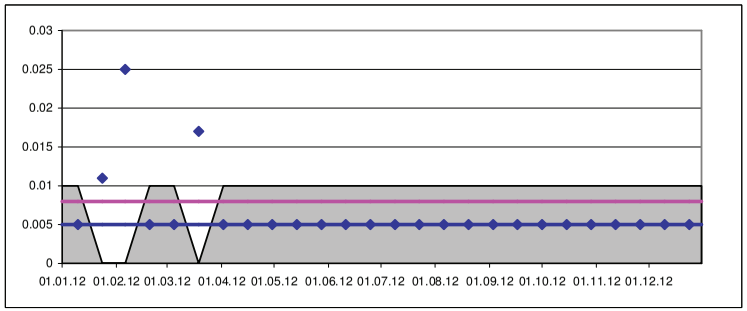
Sotalol [µg/L]
1M14_MS
90-Perzentil: 0.0165
Median: 0.005



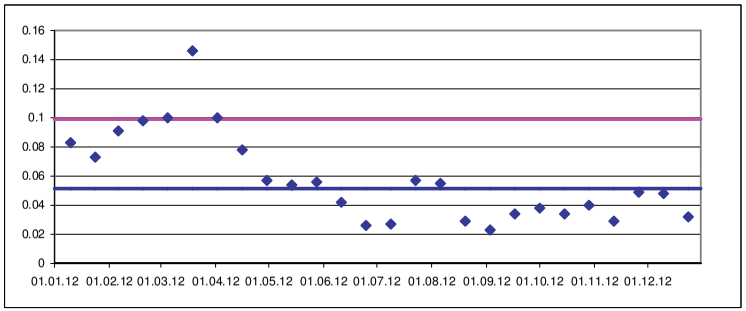
Sulfamethoxazol [µg/L]
1M14_MS
90-Perzentil: 0.017
Median: 0.0125



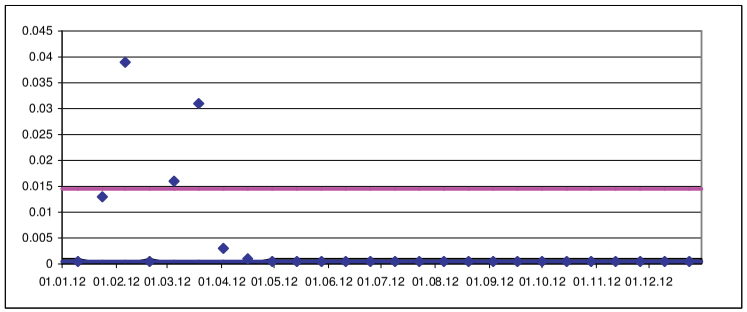
Sulfathiazol [µg/L]
1M14_MS
90-Perzentil: 0.008
Median: 0.005



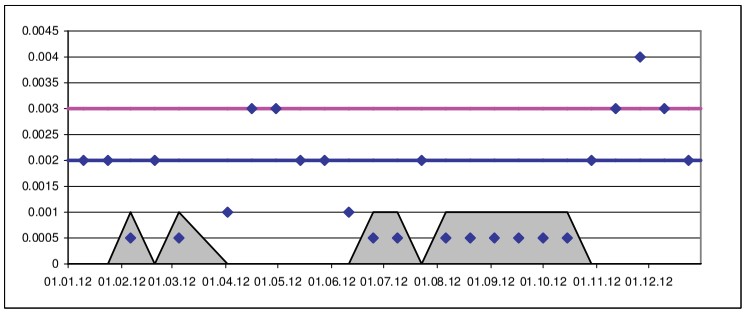
Summe O-Desvenlafaxin und Tramadol [µg/L]
1M14_MS
90-Perzentil: 0.099
Median: 0.0515



Tizanidin [µg/L]
1M14_MS
90-Perzentil: 0.0145
Median: 0.0005



Trimethoprim [µg/L]
1M14_MS
90-Perzentil: 0.003
Median: 0.002



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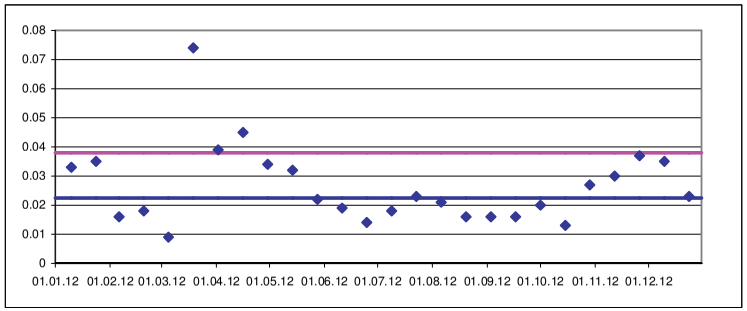
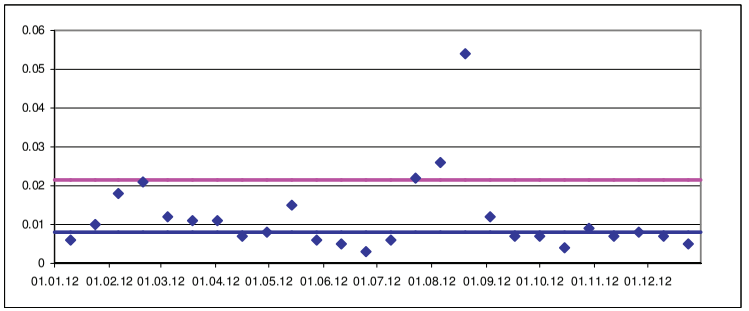
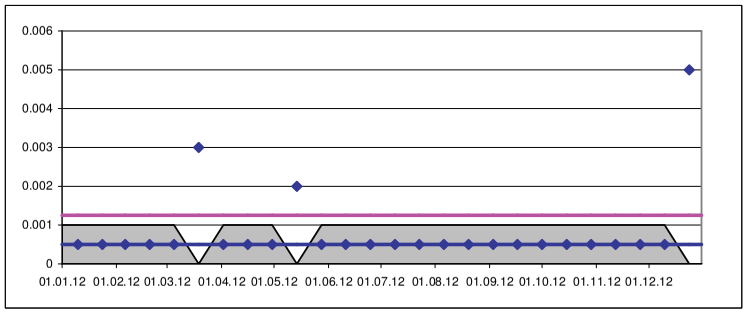
Valsartan [µg/L]
1M14_MS
90-Perzentil: 0.038
Median: 0.0225



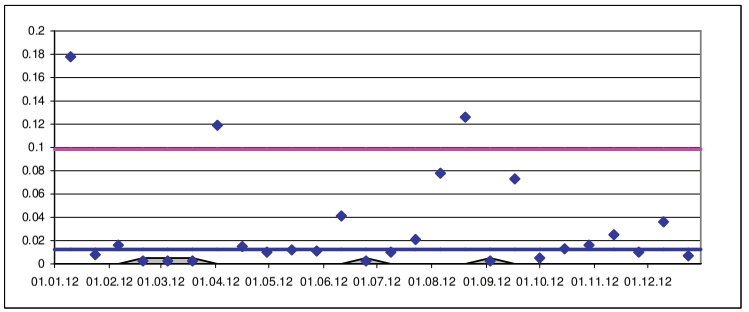
Venlafaxin [µg/L]
1M14_MS
90-Perzentil: 0.0215
Median: 0.008



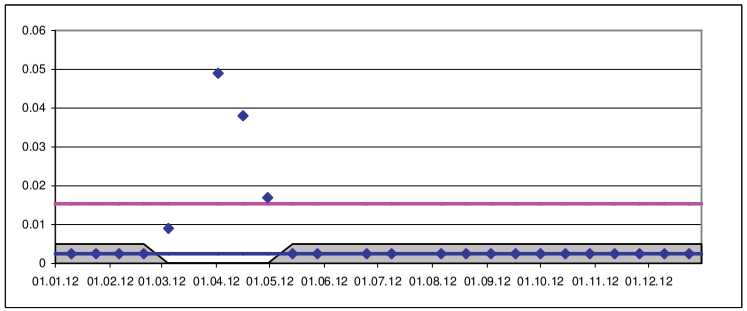
Verapamil [µg/L]
1M14_MS
90-Perzentil: 0.00125
Median: 0.0005



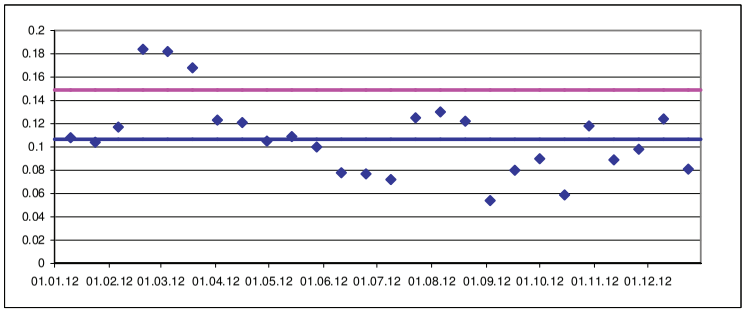
2-Naphthalinsulfonsaeure [µg/L]
1M14_MS
90-Perzentil: 0.0985
Median: 0.0125



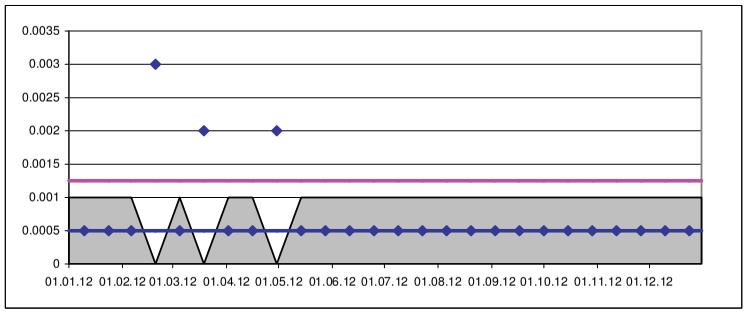
4-Dimethylaminopyridin [µg/L]
1M14_MS
90-Perzentil: 0.0154
Median: 0.0025



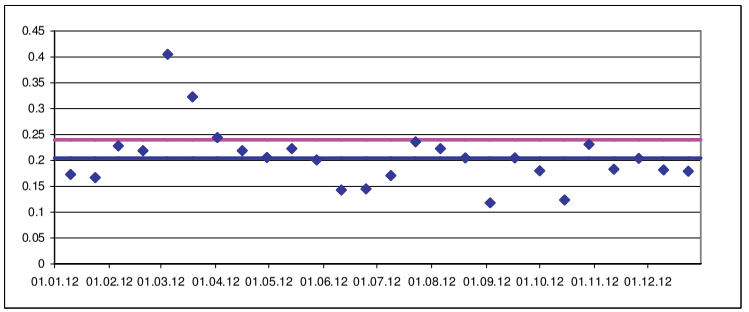
5-Methyl-benzotriazol [µg/L]
1M14_MS
90-Perzentil: 0.149
Median: 0.107



7-Diethylamino-4-methylcoumarin [µg/L]
1M14_MS
90-Perzentil: 0.00125
Median: 0.0005



Benzotriazol [µg/L]
1M14_MS
90-Perzentil: 0.24
Median: 0.205



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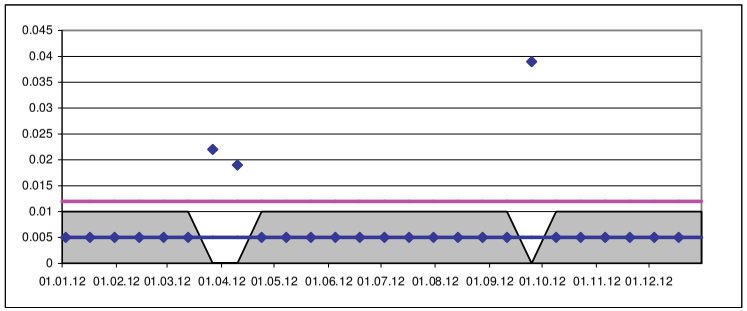
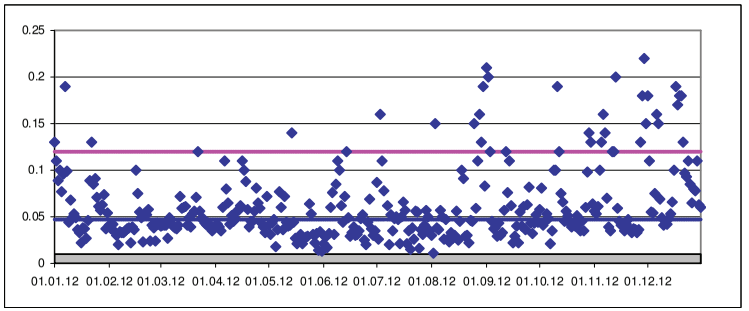
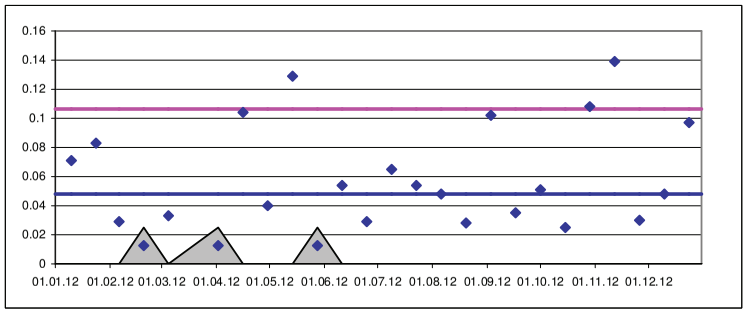
Bishenol-A [µg/L]
E14_MS
90-Perzentil: 0.012
Median: 0.005



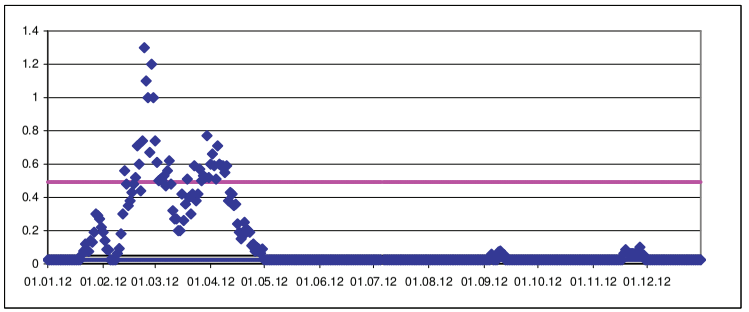
Coffein [µg/L]
1M_MS
90-Perzentil: 0.12
Median: 0.047



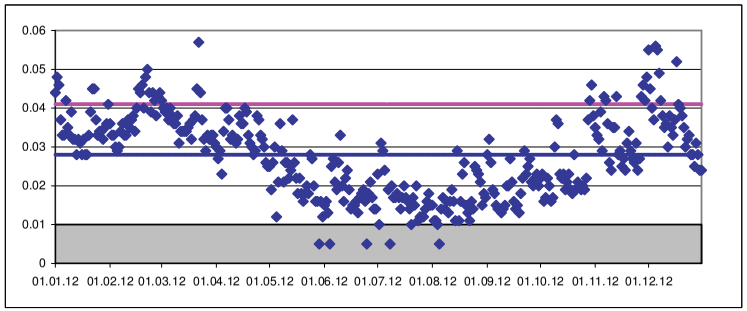
Coffein [µg/L]
1M14_MS
90-Perzentil: 0.106
Median: 0.048



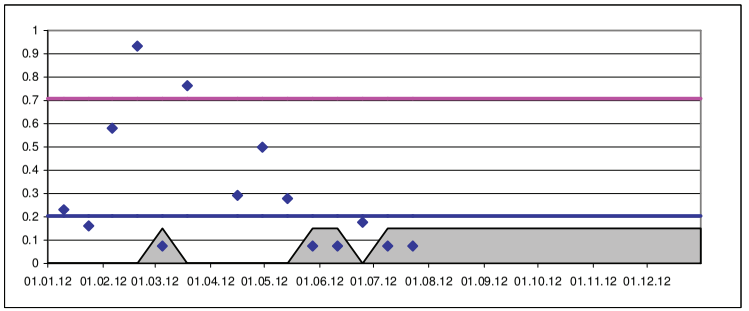
Diglyme [µg/L]
1M_MS
90-Perzentil: 0.492
Median: 0.025



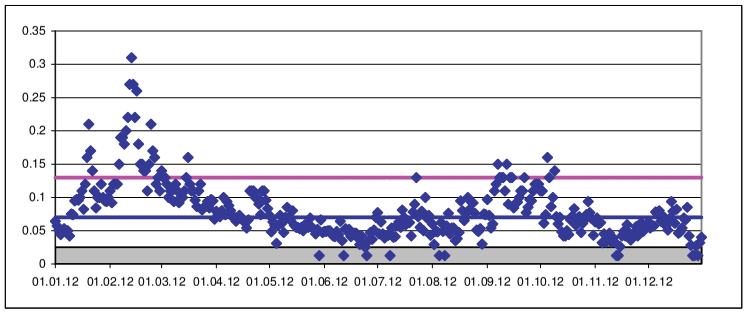
Galaxolid [µg/L]
1M_MS
90-Perzentil: 0.041
Median: 0.028



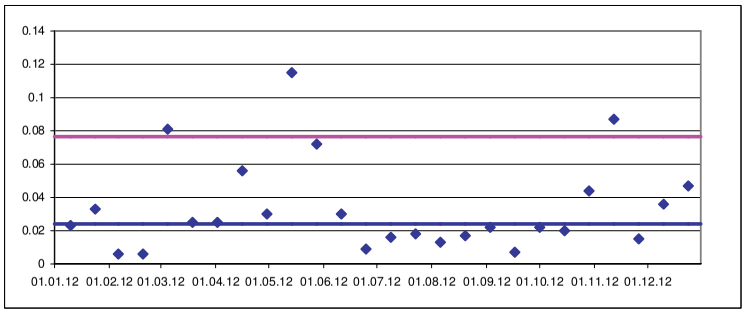
Summe Iomeprol und Iopamidol [µg/L]
1M14_MS
90-Perzentil: 0.709
Median: 0.204



Surfynol-104 [µg/L]
1M_MS
90-Perzentil: 0.13
Median: 0.07



Toluol-4-sulfonsaeure [µg/L]
1M14_MS
90-Perzentil: 0.0765
Median: 0.024



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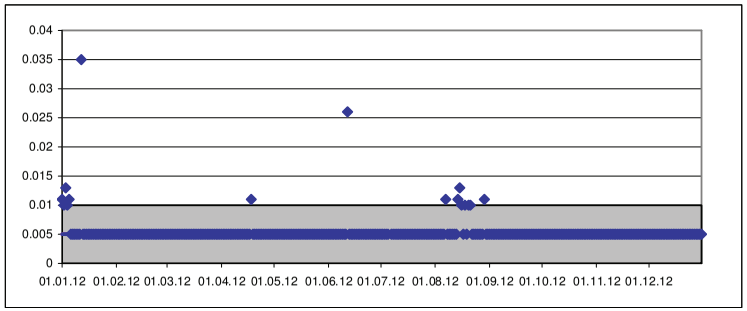
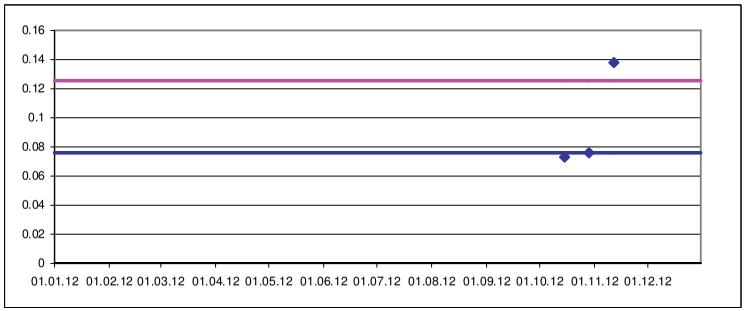
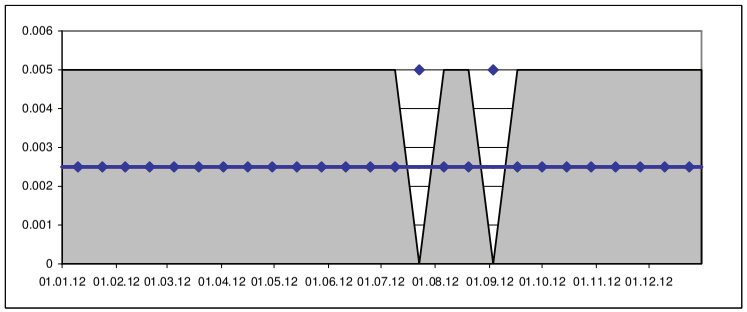
Tonalid [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



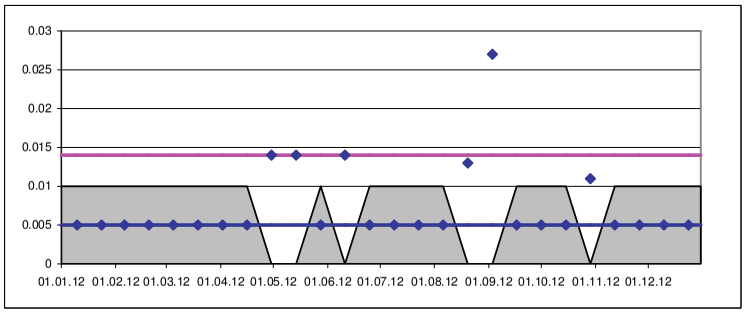
Triphenylphosphinoxid [µg/L]
1M14_MS
90-Perzentil: 0.126
Median: 0.076



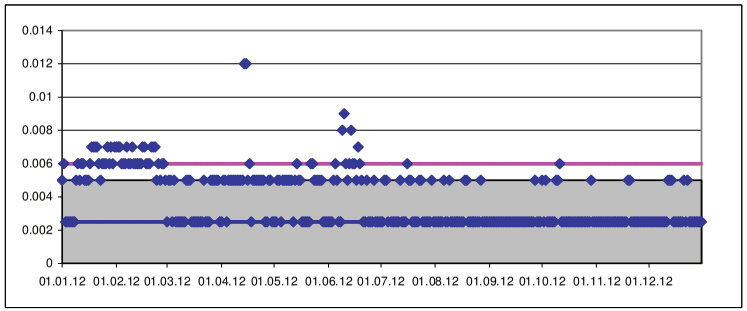
2,4-D [µg/L]
1M14_MS
90-Perzentil: 0.0025
Median: 0.0025



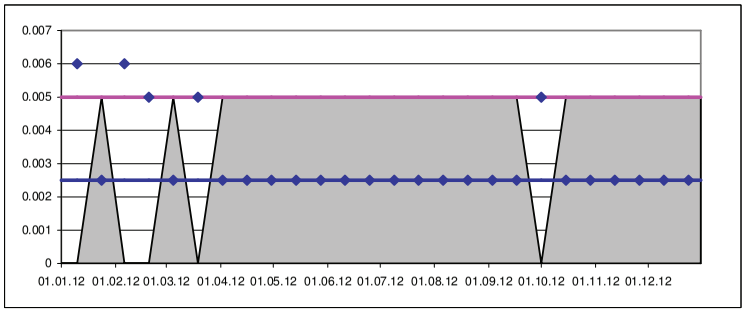
4-Chlor-2-methylphenol [µg/L]
1M14_MS
90-Perzentil: 0.014
Median: 0.005



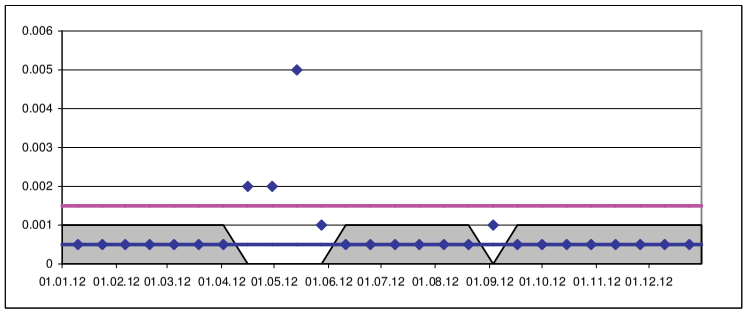
Atrazin [µg/L]
1M_MS
90-Perzentil: 0.006
Median: 0.0025



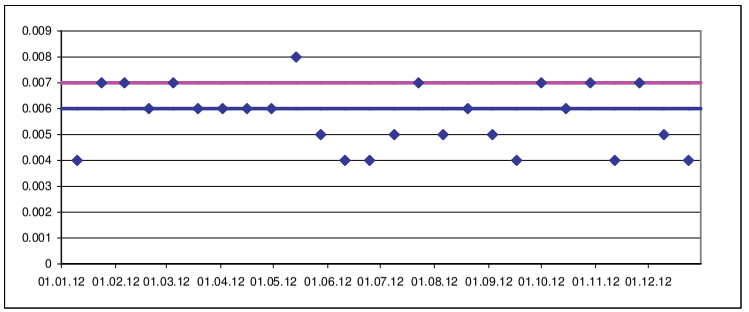
Atrazin [µg/L]
1M14_MS
90-Perzentil: 0.005
Median: 0.0025



Bentazon [µg/L]
1M14_MS
90-Perzentil: 0.0015
Median: 0.0005



Carbendazim [µg/L]
1M14_MS
90-Perzentil: 0.007
Median: 0.006



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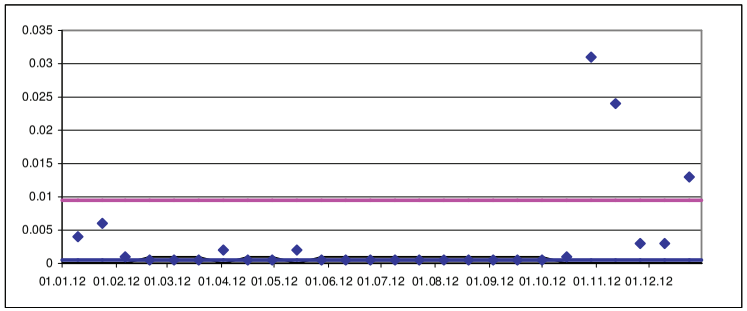
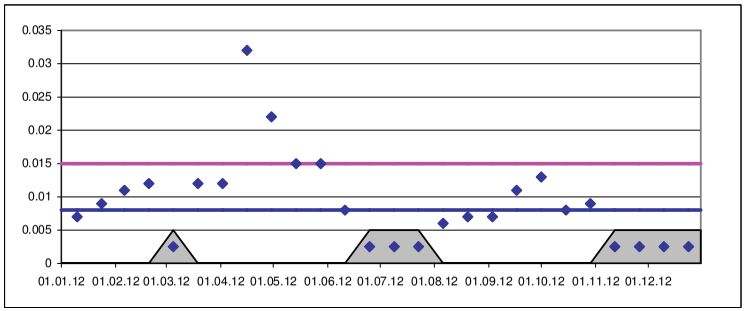
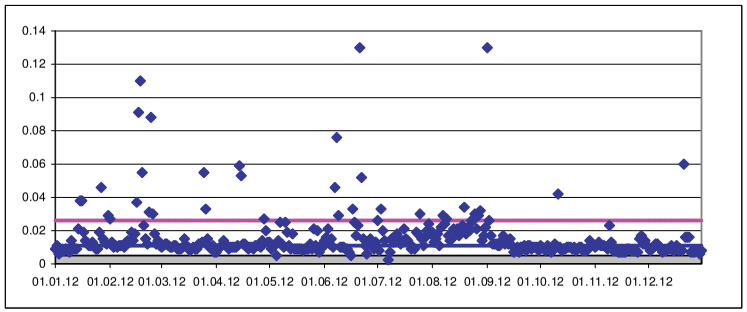
Chlortoluron [µg/L]
1M14_MS
90-Perzentil: 0.0095
Median: 0.0005



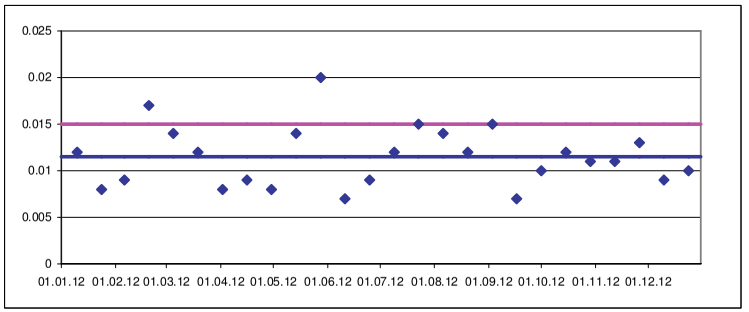
Cyproconazol [µg/L]
1M14_MS
90-Perzentil: 0.015
Median: 0.008



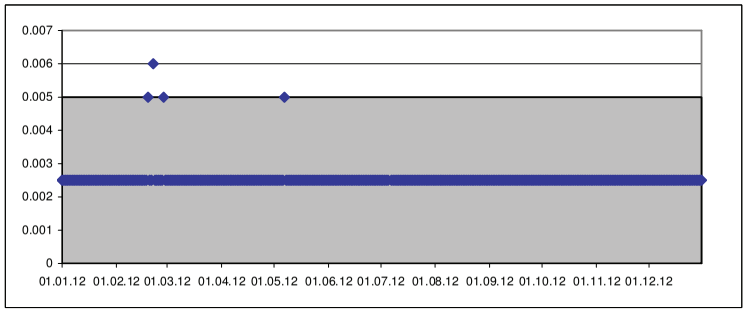
DEET [µg/L]
1M_MS
90-Perzentil: 0.026
Median: 0.011



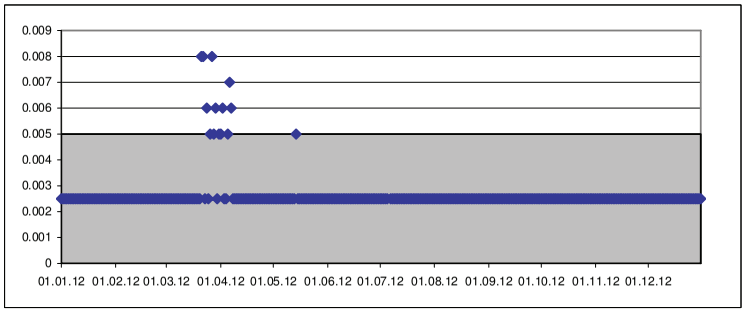
DEET [µg/L]
1M14_MS
90-Perzentil: 0.015
Median: 0.0115



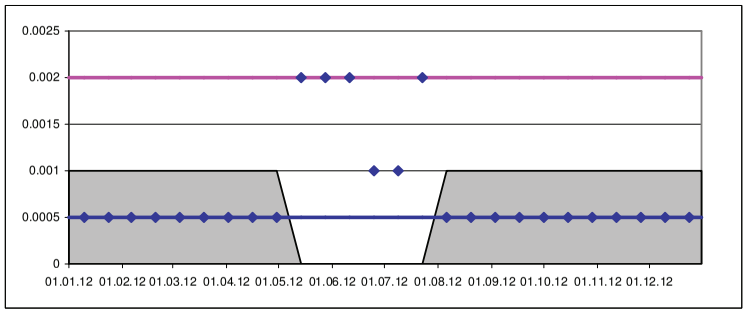
Desmetryn [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



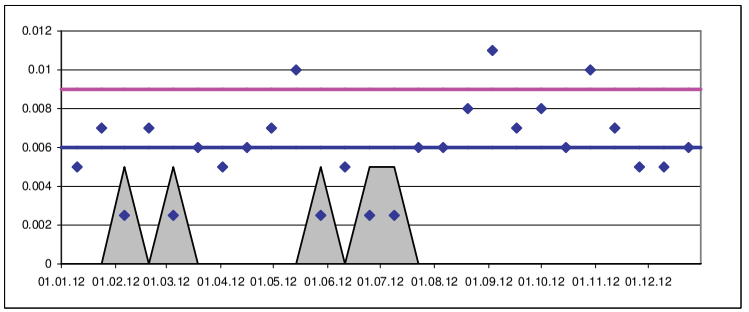
Diazinon [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



Dimethenamid [µg/L]
1M14_MS
90-Perzentil: 0.002
Median: 0.0005



Diuron [µg/L]
1M14_MS
90-Perzentil: 0.009
Median: 0.006



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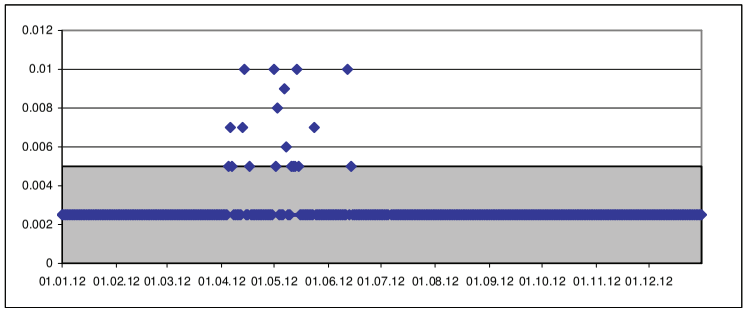
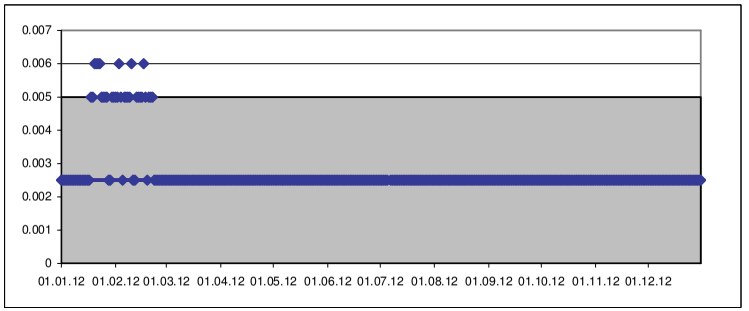
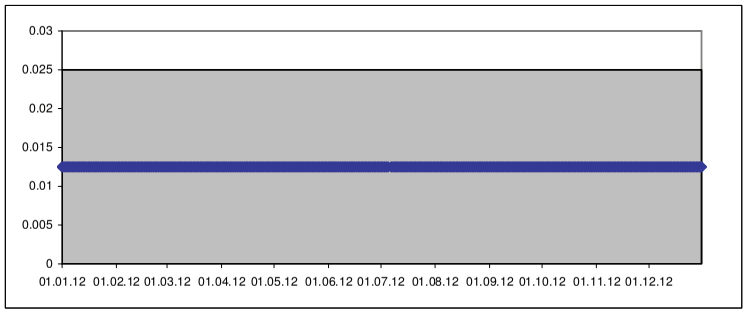
Ethofumesat [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



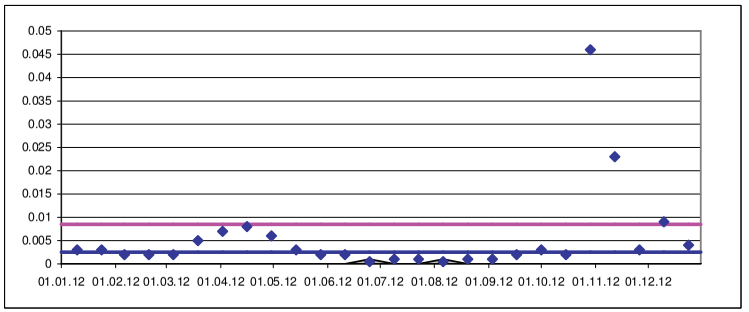
Irgarol [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



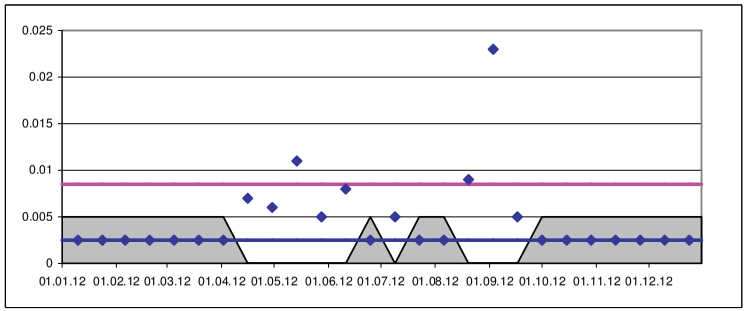
Iso-Chloridazon [µg/L]
1M_MS
90-Perzentil: 0.0125
Median: 0.0125



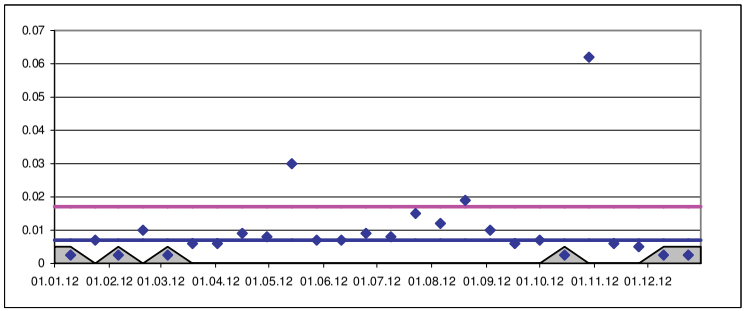
Isoproturon [µg/L]
1M14_MS
90-Perzentil: 0.0085
Median: 0.0025



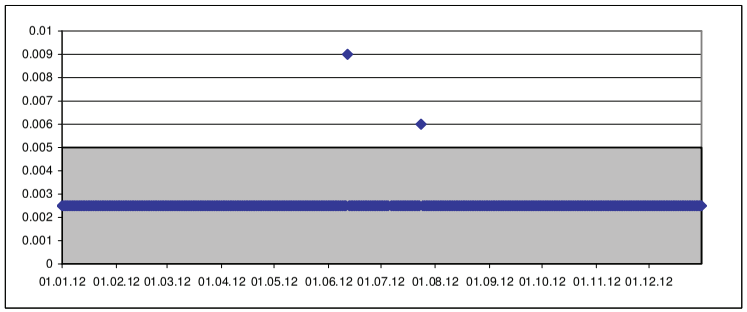
MCPA [µg/L]
1M14_MS
90-Perzentil: 0.0085
Median: 0.0025



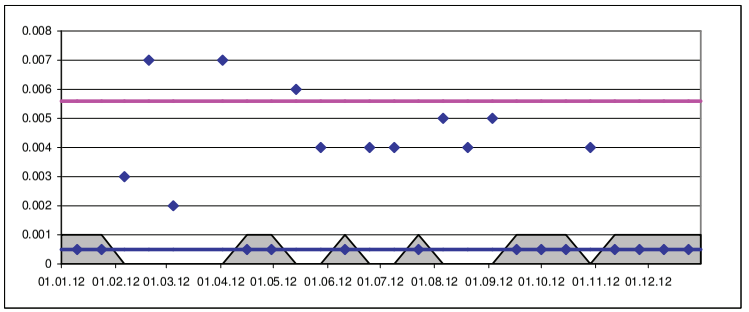
Mecoprop [µg/L]
1M14_MS
90-Perzentil: 0.017
Median: 0.007



Metalaxyl [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



Metalaxyl [µg/L]
1M14_MS
90-Perzentil: 0.0056
Median: 0.0005



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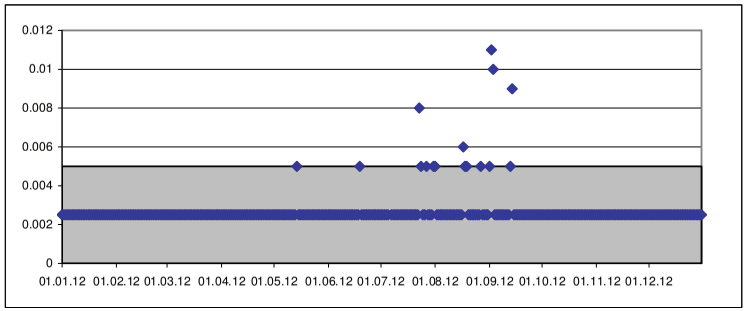
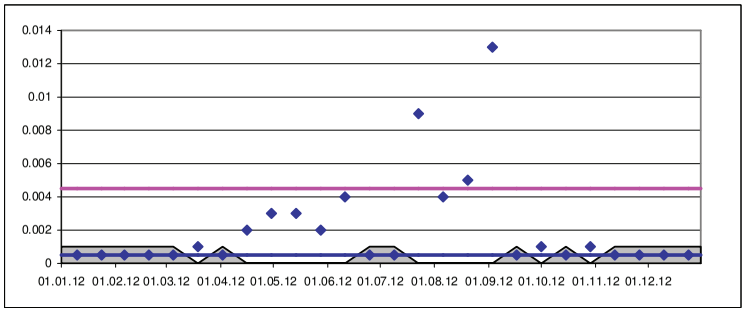
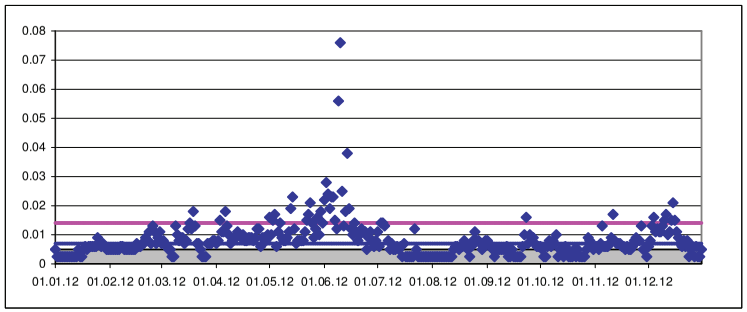
Metazachlor [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



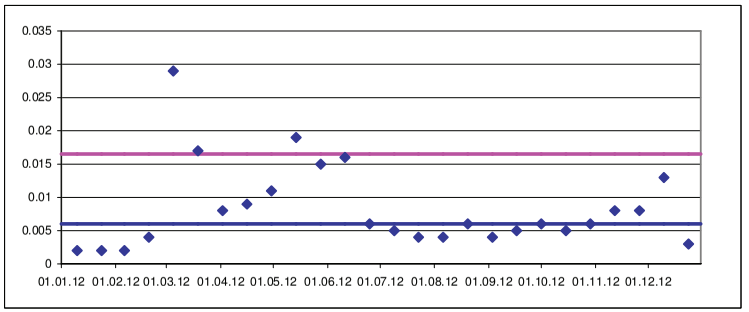
Metazachlor [µg/L]
1M14_MS
90-Perzentil: 0.0045
Median: 0.0005



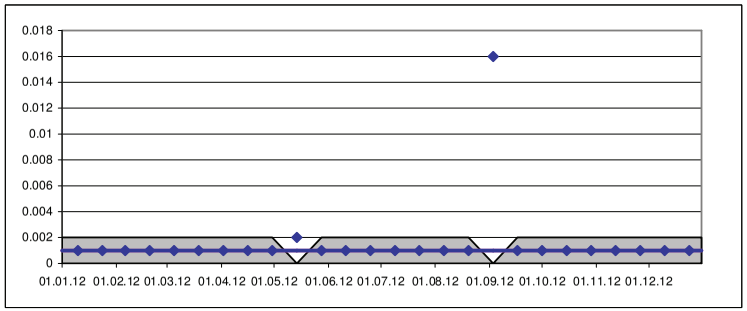
Metolachlor [µg/L]
1M_MS
90-Perzentil: 0.014
Median: 0.007



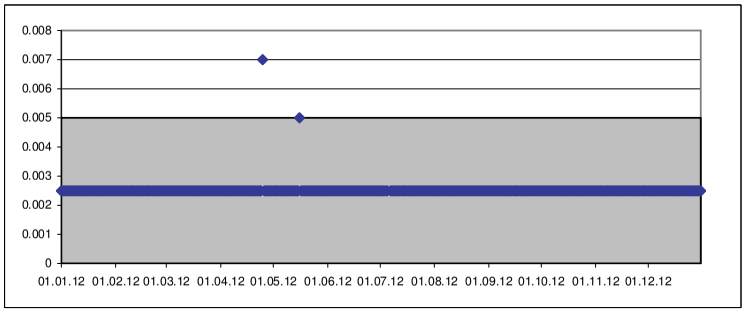
Metolachlor [µg/L]
1M14_MS
90-Perzentil: 0.0165
Median: 0.006



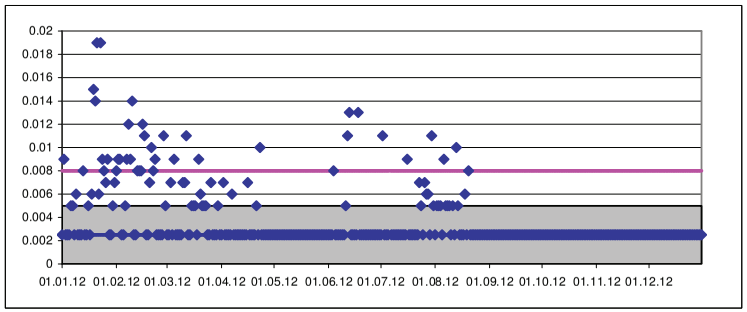
Napropamid [µg/L]
1M14_MS
90-Perzentil: 0.001
Median: 0.001



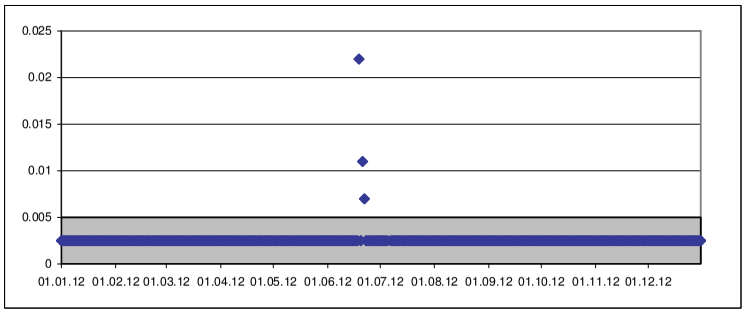
Orbencarb [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



Penconazol [µg/L]
1M_MS
90-Perzentil: 0.008
Median: 0.0025



Propazin [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



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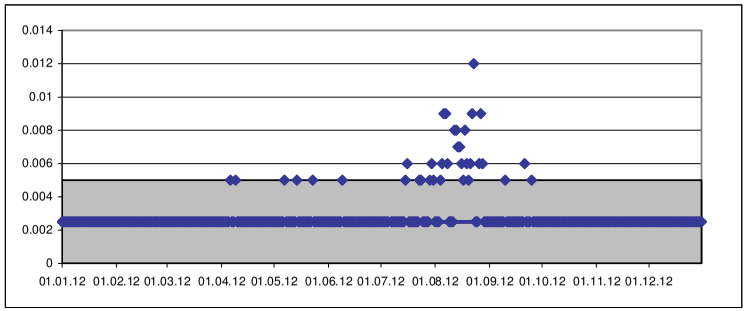
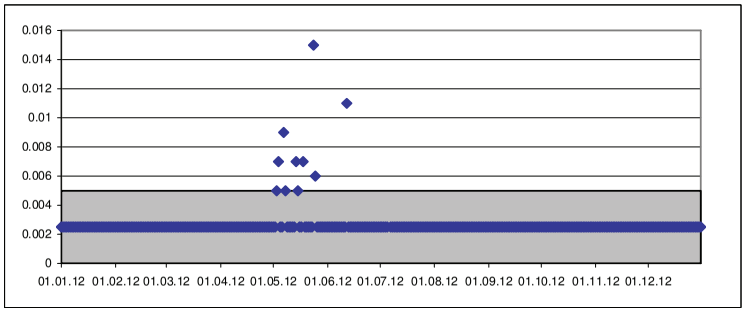
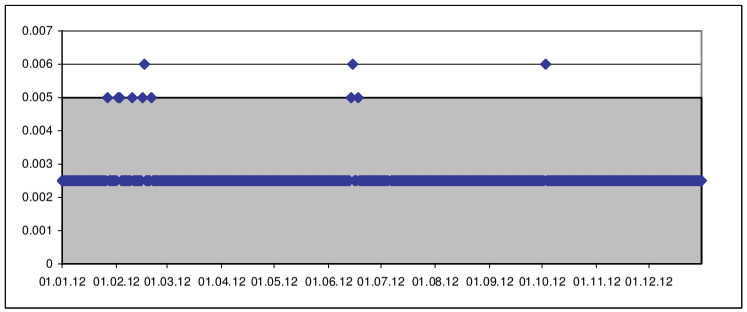
Propyzamid [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



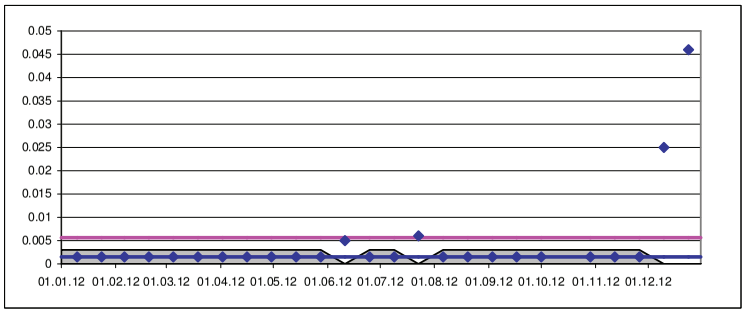
Prosulfocarb [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



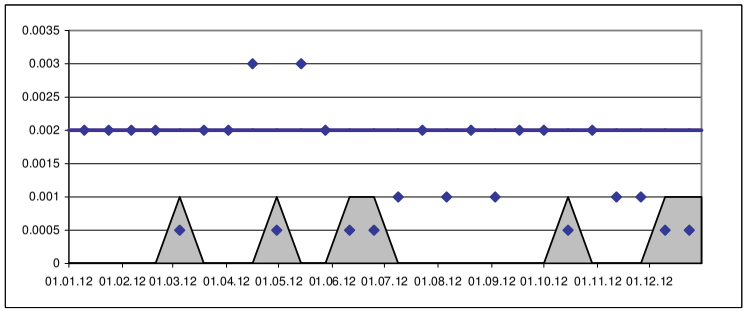
Simazin [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



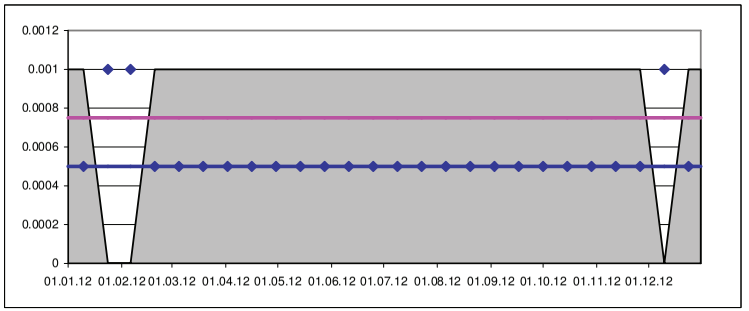
Summe Acetochlor und Alachlor [µg/L]
1M14_MS
90-Perzentil: 0.0056
Median: 0.0015



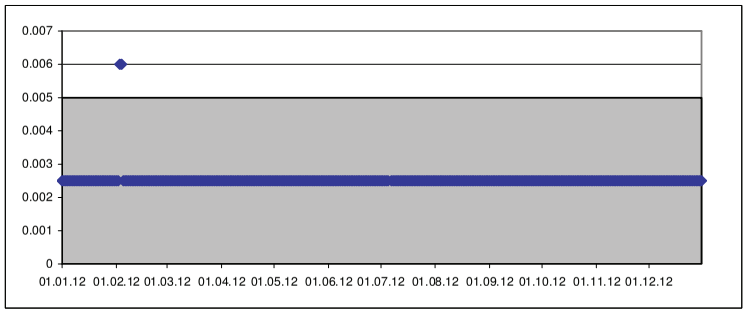
Summe Terbutryn und Prometryn [µg/L]
1M14_MS
90-Perzentil: 0.002
Median: 0.002



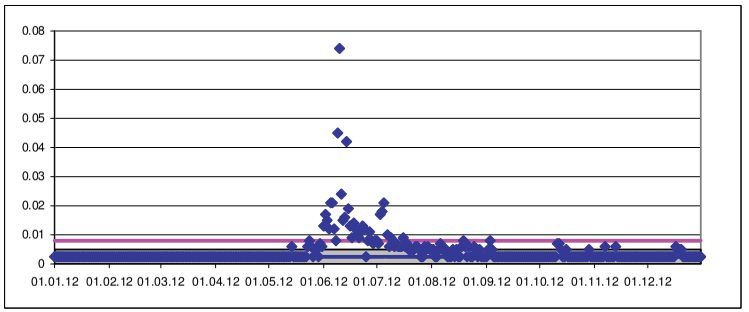
Tebutam [µg/L]
1M14_MS
90-Perzentil: 0.00075
Median: 0.0005



Terbumeton [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



Terbutylazin [µg/L]
1M_MS
90-Perzentil: 0.008
Median: 0.0025



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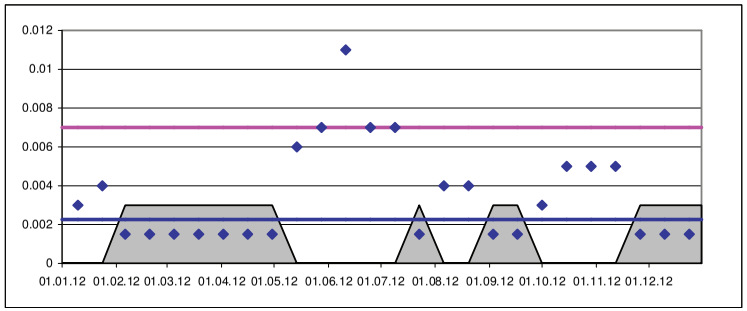
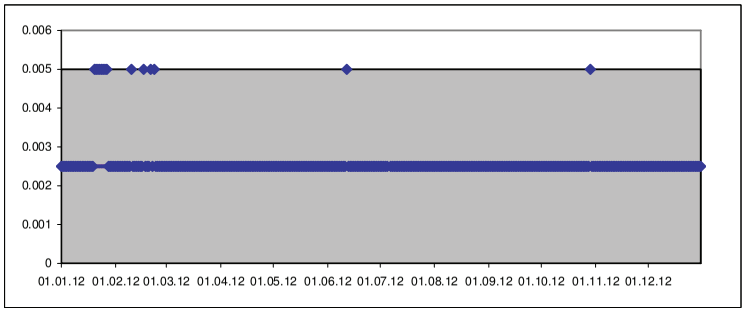
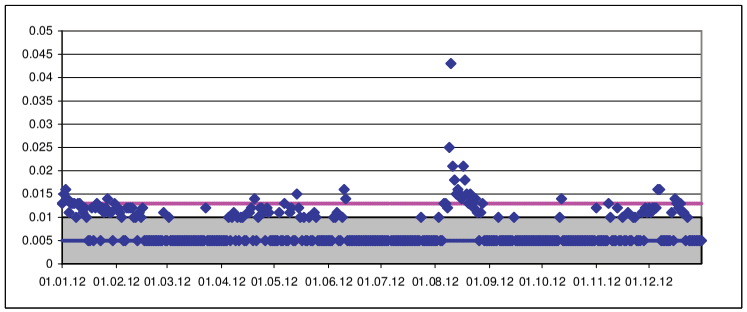
Terbutylazin [µg/L]
1M14_MS
90-Perzentil: 0.007
Median: 0.00225



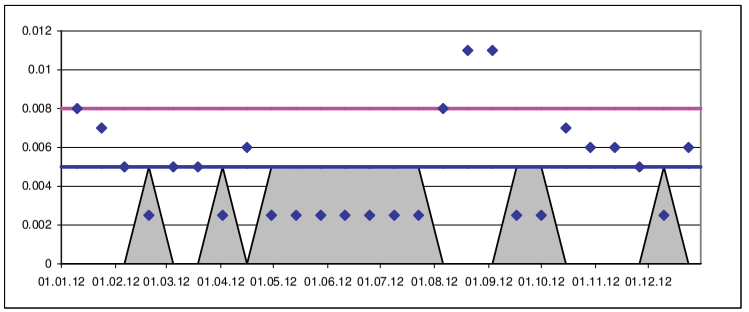
Terbutryn [µg/L]
1M_MS
90-Perzentil: 0.0025
Median: 0.0025



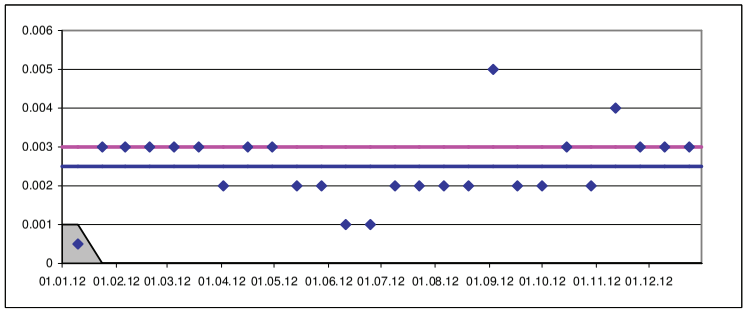
2,6-Dichlorbenzamid [µg/L]
1M_MS
90-Perzentil: 0.013
Median: 0.005



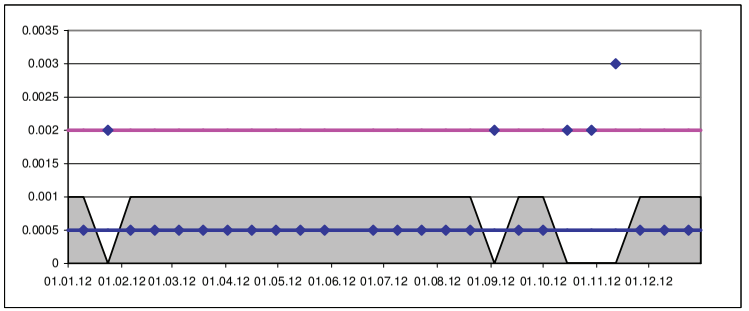
2,6-Dichlorbenzamid [µg/L]
1M14_MS
90-Perzentil: 0.008
Median: 0.005



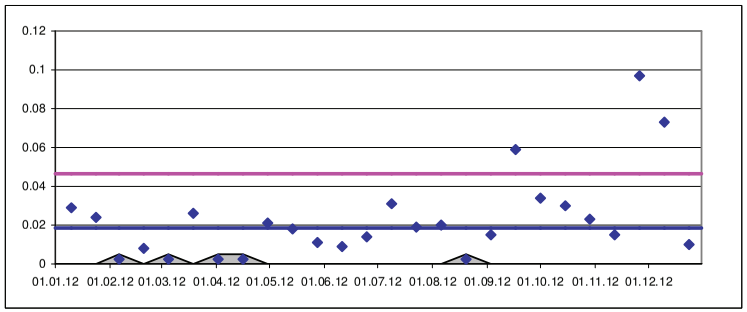
2-Hydroxyatrazin [µg/L]
1M14_MS
90-Perzentil: 0.003
Median: 0.0025



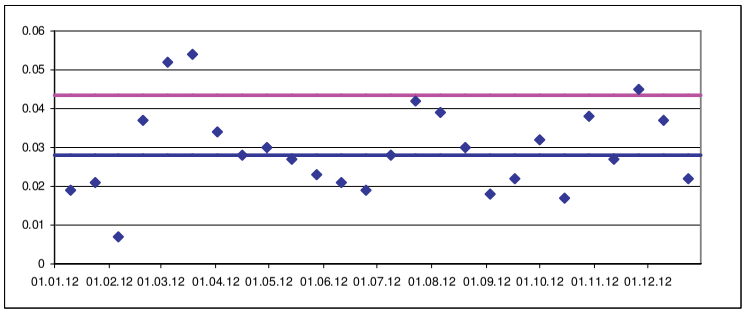
2-Hydroxysimazin [µg/L]
1M14_MS
90-Perzentil: 0.002
Median: 0.0005



4-Trifluormethylphenol [µg/L]
1M14_MS
90-Perzentil: 0.0465
Median: 0.0185



4-Formylaminoantipyrin [µg/L]
1M14_MS
90-Perzentil: 0.0435
Median: 0.028



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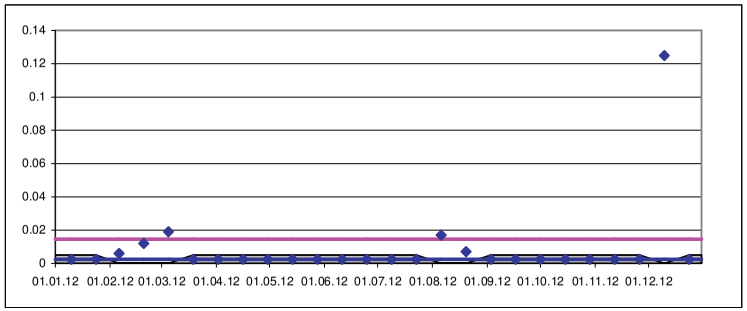
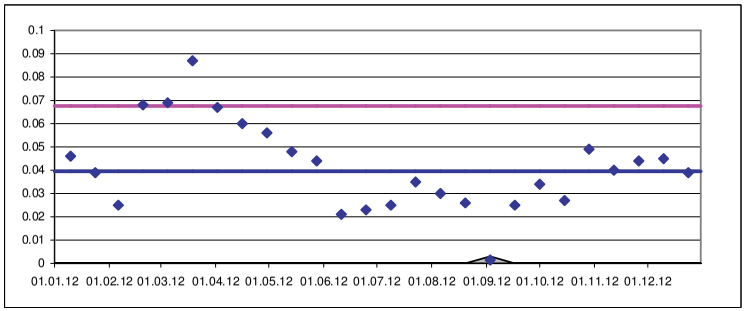
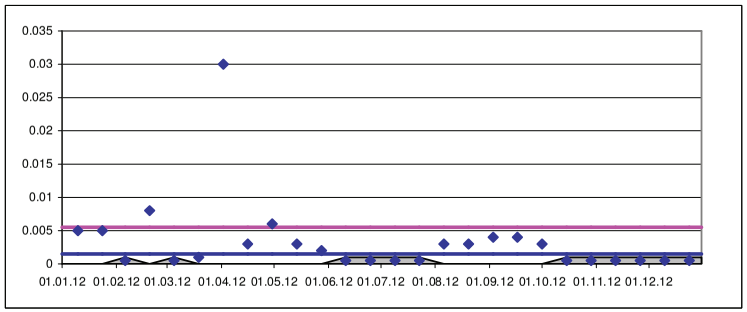
Alachlor-OXA [µg/L]
1M14_MS
90-Perzentil: 0.0145
Median: 0.0025



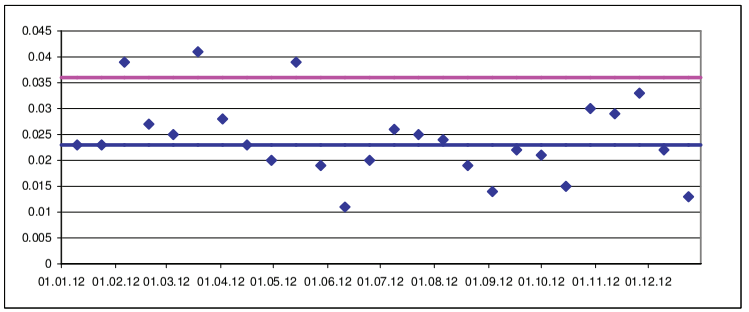
Atenololsaeure [µg/L]
1M14_MS
90-Perzentil: 0.0675
Median: 0.0395



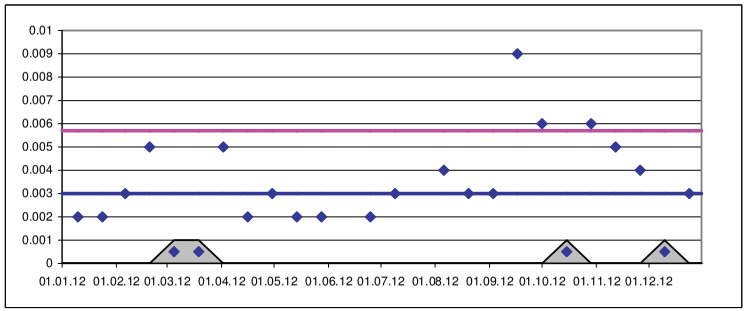
Azoxystrobinsaeure [µg/L]
1M14_MS
90-Perzentil: 0.0055
Median: 0.0015



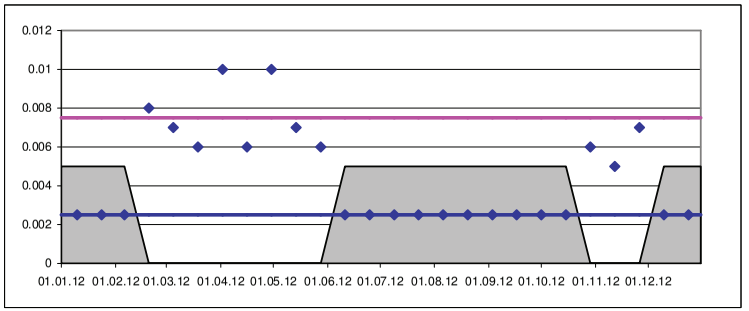
Carbamazepin-10,11-dihydro-10,11-dihydroxy [µg/L]
1M14_MS
90-Perzentil: 0.036
Median: 0.023



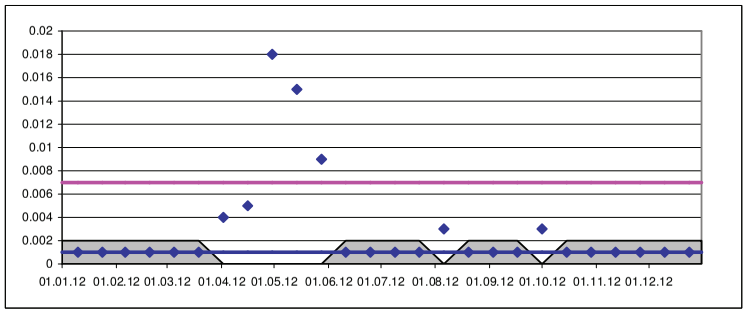
Carbamazepin-10,11-epoxid [µg/L]
1M14_MS
90-Perzentil: 0.0057
Median: 0.003



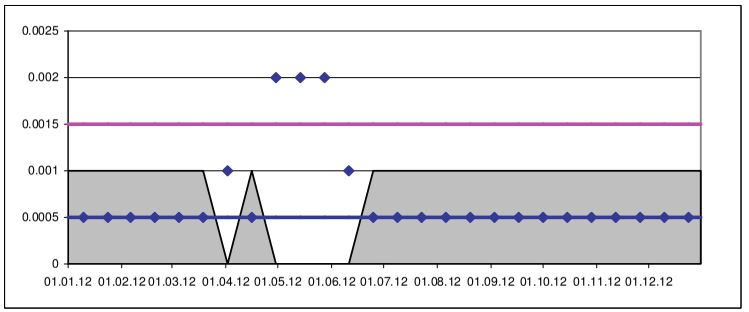
Clopidogrelsaeure [µg/L]
1M14_MS
90-Perzentil: 0.0075
Median: 0.0025



Desamino-metamitron [µg/L]
1M14_MS
90-Perzentil: 0.007
Median: 0.001



Desaminometribuzin [µg/L]
1M14_MS
90-Perzentil: 0.0015
Median: 0.0005



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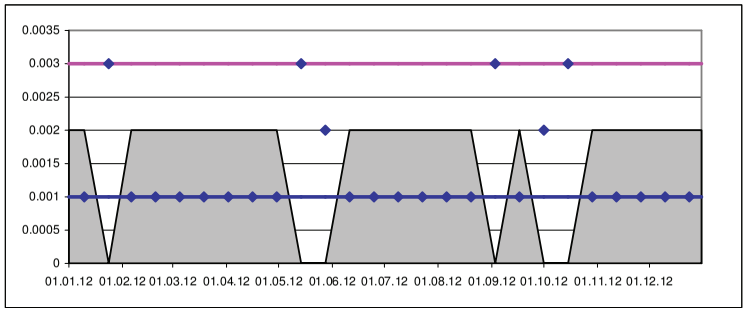
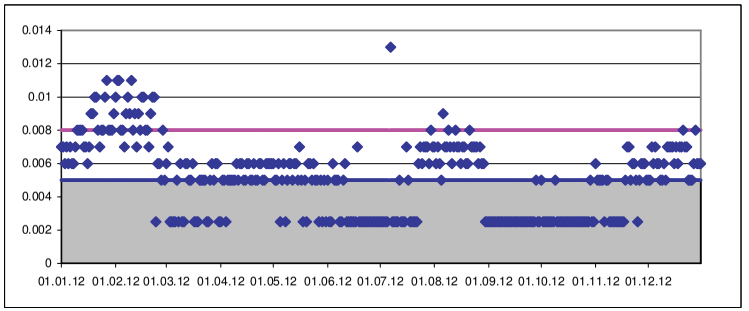
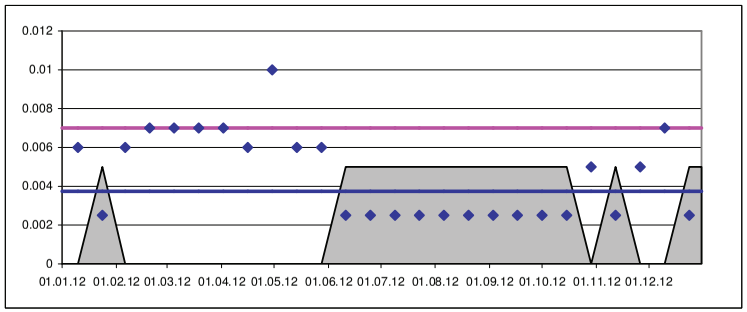
Desethyl-2-hydroxyterbuthylazin [µg/L]
1M14_MS
90-Perzentil: 0.003
Median: 0.001



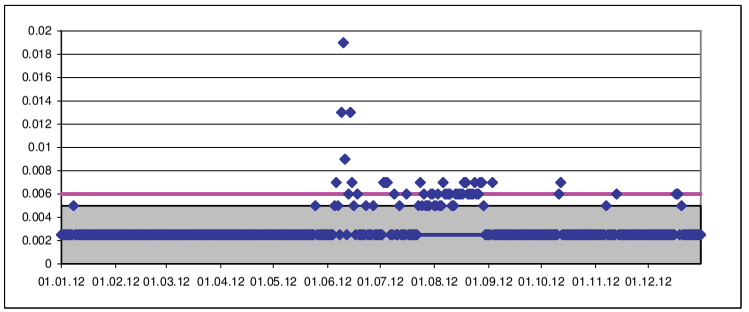
Desethylatrazin [µg/L]
1M_MS
90-Perzentil: 0.008
Median: 0.005



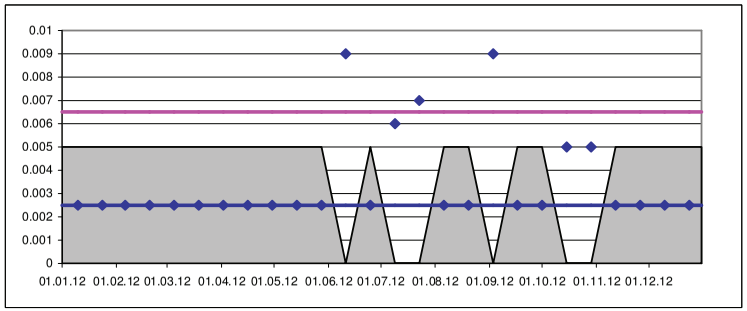
Desethylatrazin [µg/L]
1M14_MS
90-Perzentil: 0.007
Median: 0.00375



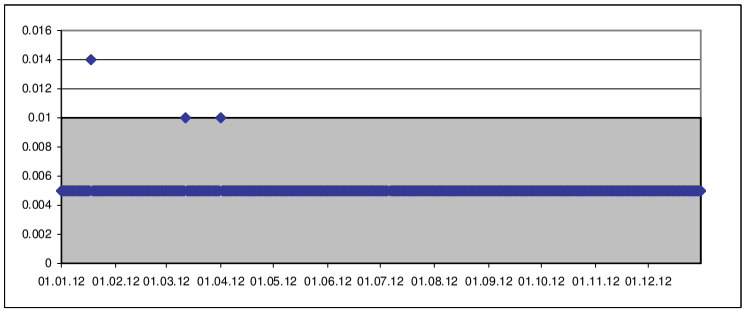
Desethylterbuthylazin [µg/L]
1M_MS
90-Perzentil: 0.006
Median: 0.0025



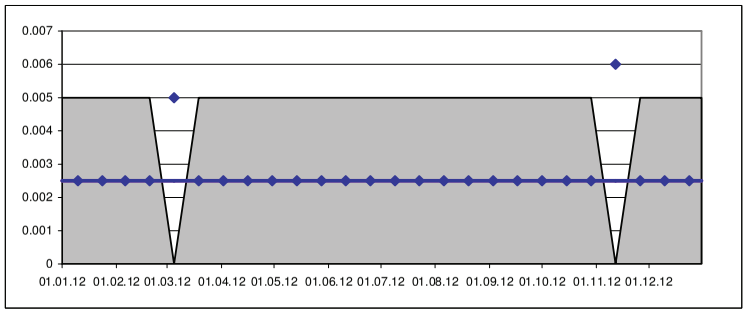
Desethylterbuthylazin [µg/L]
1M14_MS
90-Perzentil: 0.0065
Median: 0.0025



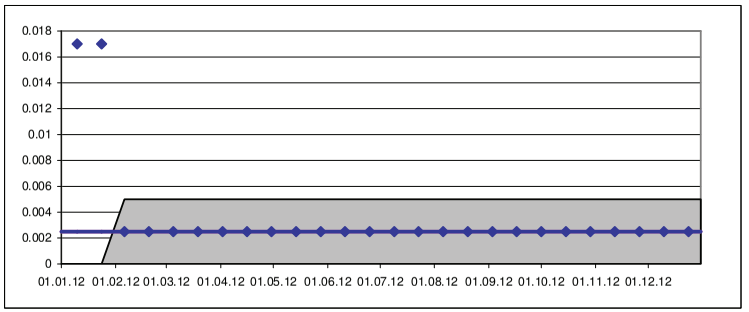
Desisopropylatrazin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



Dimethachlor-ESA [µg/L]
1M14_MS
90-Perzentil: 0.0025
Median: 0.0025



Fenofibrinsaeure [µg/L]
1M14_MS
90-Perzentil: 0.0025
Median: 0.0025



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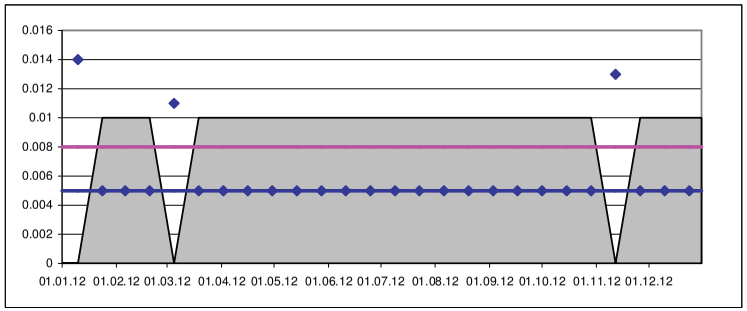
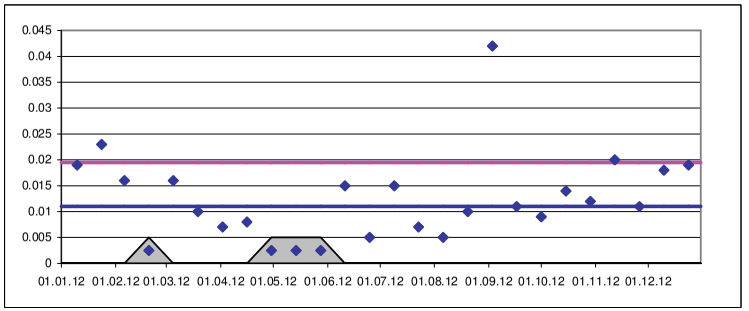
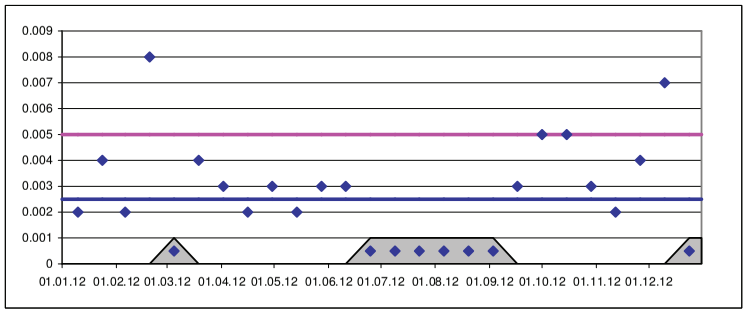
Metazachlor-ESA [µg/L]
1M14_MS
90-Perzentil: 0.008
Median: 0.005



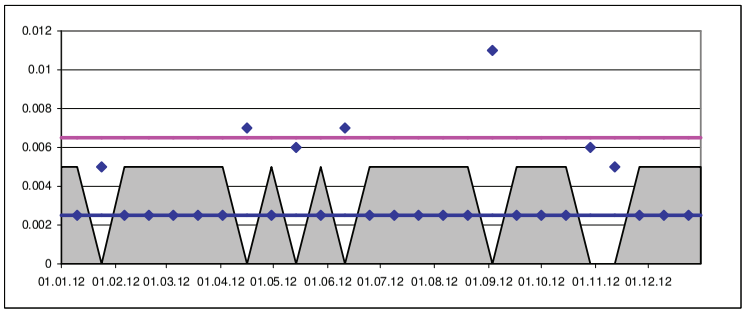
Metolachlor-ESA [µg/L]
1M14_MS
90-Perzentil: 0.0195
Median: 0.011



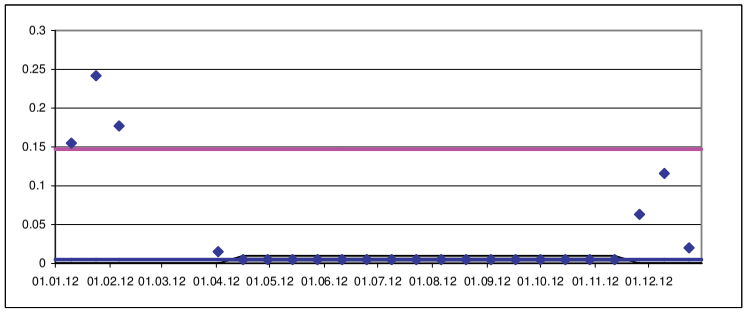
Metolachlor-morpholinon [µg/L]
1M14_MS
90-Perzentil: 0.005
Median: 0.0025



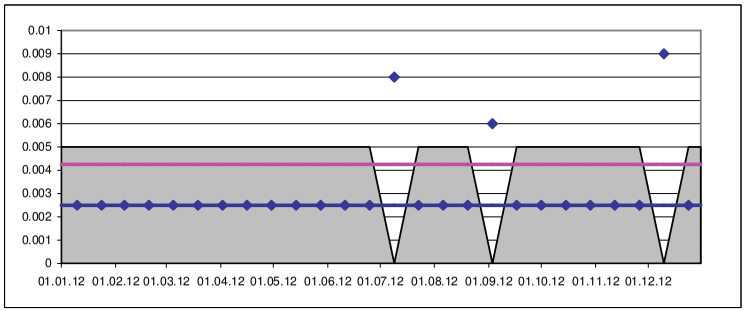
Metolachlor-OXA [µg/L]
1M14_MS
90-Perzentil: 0.0065
Median: 0.0025



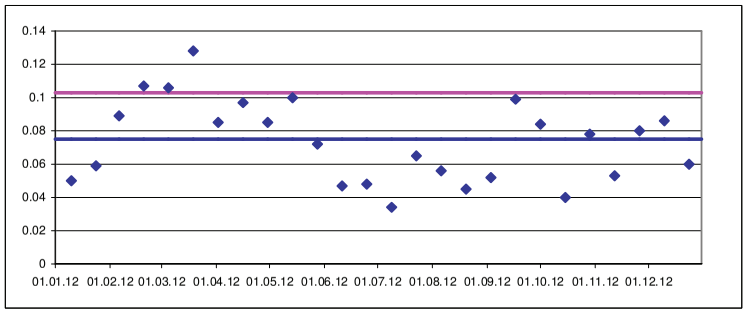
N,N-Didesvenlafaxin [µg/L]
1M14_MS
90-Perzentil: 0.147
Median: 0.005



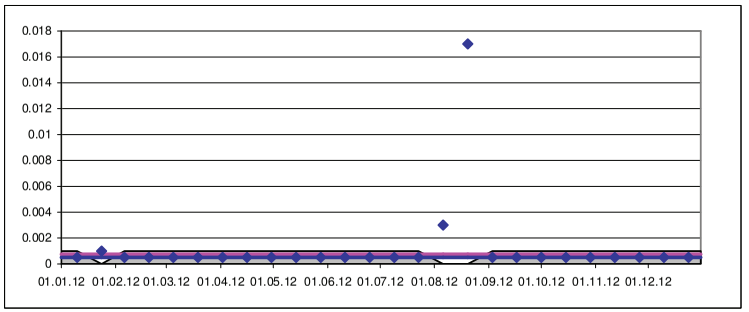
N,N-Dimethyl-N'(4-methylphenyl)-sulfamid [µg/L]
1M14_MS
90-Perzentil: 0.00425
Median: 0.0025



N-Acetyl-4-aminoantipyrin [µg/L]
1M14_MS
90-Perzentil: 0.103
Median: 0.075



N,N-Dimethyldicylamin-N-oxid [µg/L]
1M14_MS
90-Perzentil: 0.00075
Median: 0.0005



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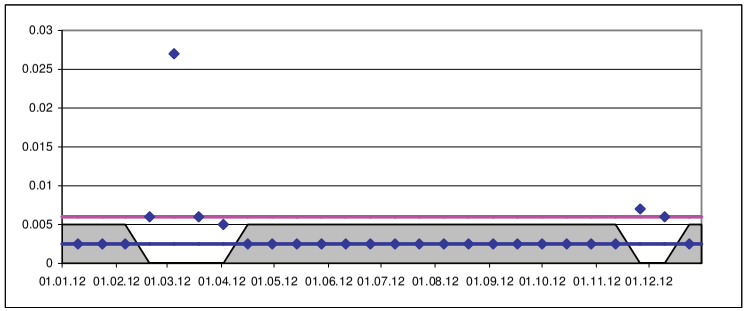
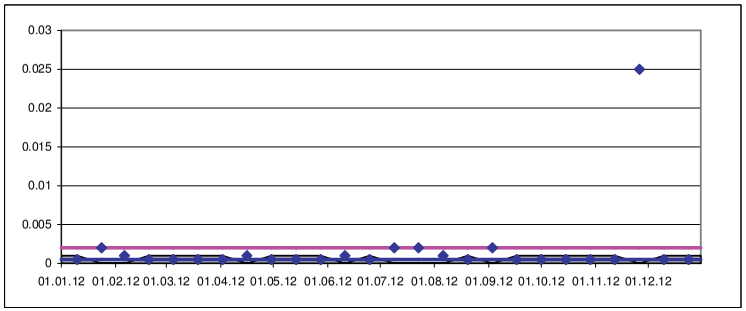
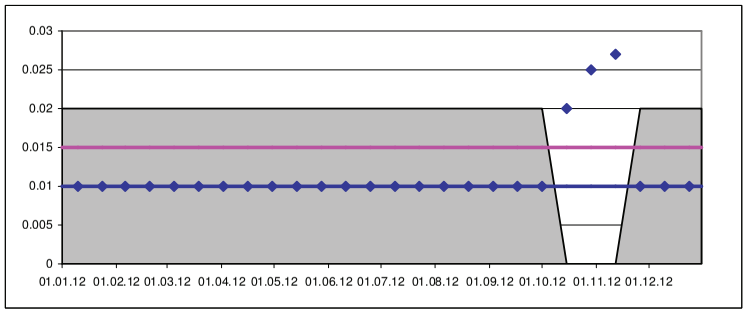
O,N-Didesvenlafaxin [µg/L]
1M14_MS
90-Perzentil: 0.006
Median: 0.0025



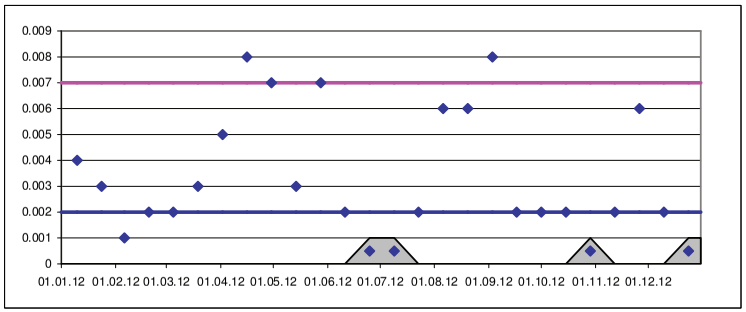
Pyrimidinol [µg/L]
1M14_MS
90-Perzentil: 0.002
Median: 0.0005



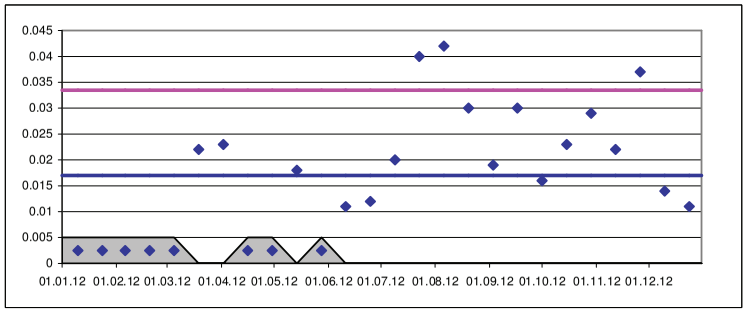
Summe 1-Hydroxybenzotriazol und 4-Hydroxybenzotriazol [µg/L]
1M14_MS
90-Perzentil: 0.015
Median: 0.01



Summe 2-Hydroxypropazin und 2-Hydroxyterbuthylazin [µg/L]
1M14_MS
90-Perzentil: 0.007
Median: 0.002



Valsartansaeure [µg/L]
1M14_MS
90-Perzentil: 0.0335
Median: 0.017



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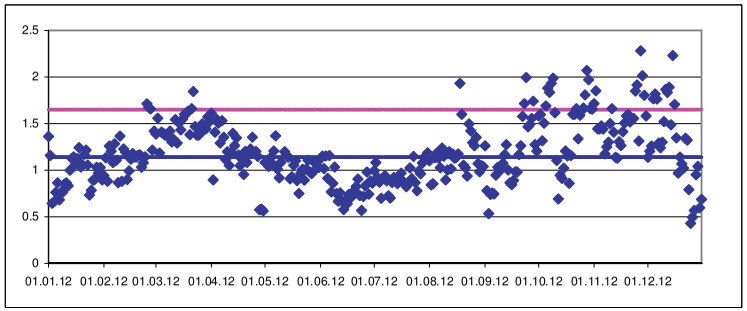
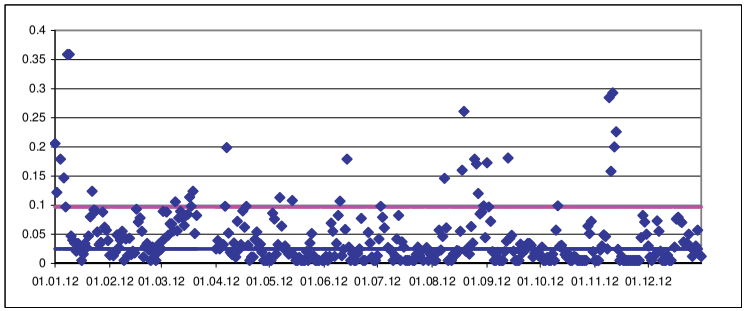
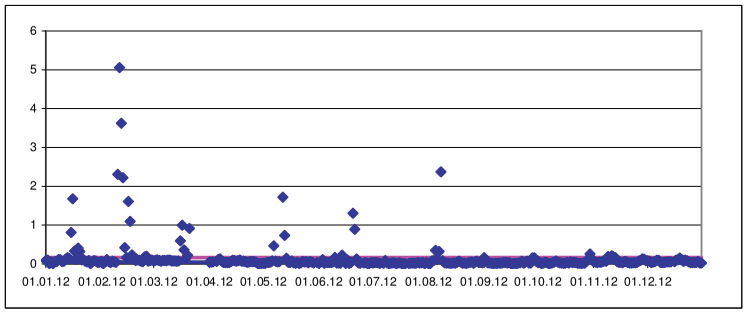
SQ_Acesulfam [µg/L]
1M_MS
90-Perzentil: 1.65
Median: 1.14



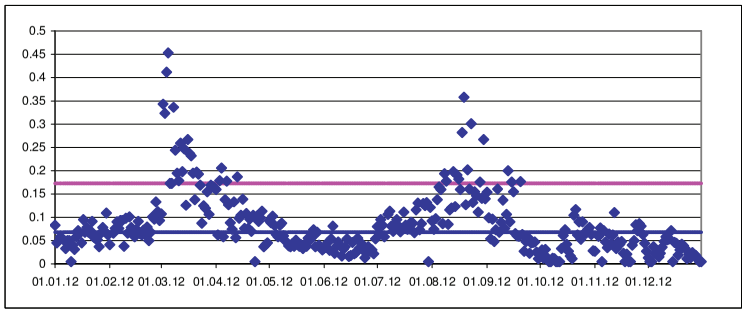
SQ_Cyclohexylsulfamidsaeure [µg/L]
1M_MS
90-Perzentil: 0.097
Median: 0.025



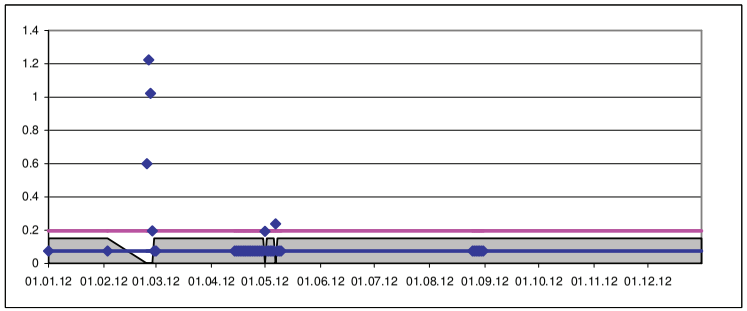
SQ_Saccharin [µg/L]
1M_MS
90-Perzentil: 0.163
Median: 0.048



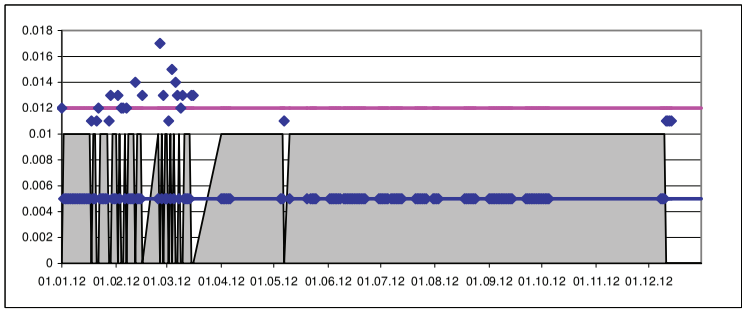
SQ_Sucralose [µg/L]
1M_MS
90-Perzentil: 0.173
Median: 0.068



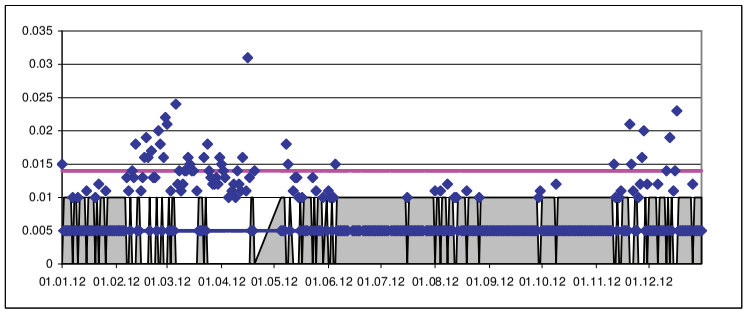
SQ_Summe Iomeprol und Iopamidol [µg/L]
1M_MS
90-Perzentil: 0.195
Median: 0.075



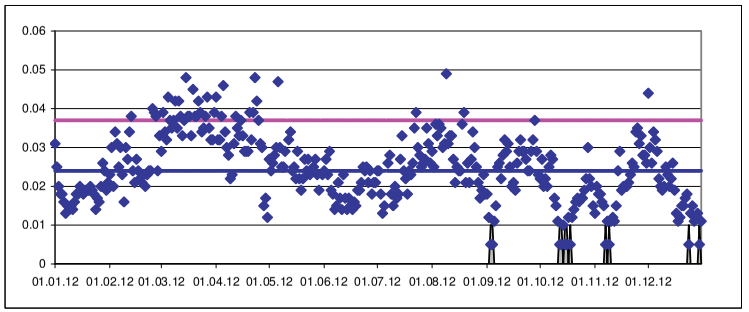
SQ_Atenolol [µg/L]
1M_MS
90-Perzentil: 0.012
Median: 0.005



SQ_Candesartan [µg/L]
1M_MS
90-Perzentil: 0.014
Median: 0.005



SQ_Carbamazepin [µg/L]
1M_MS
90-Perzentil: 0.037
Median: 0.024



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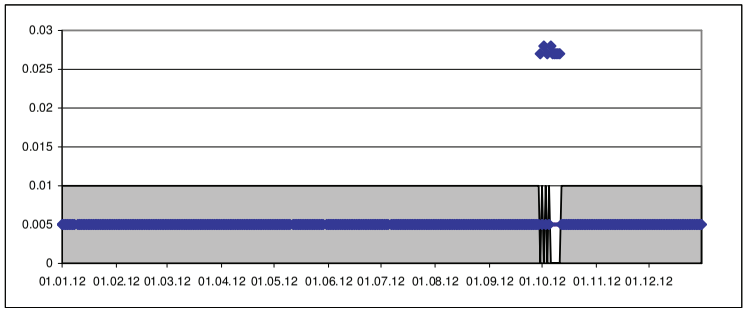
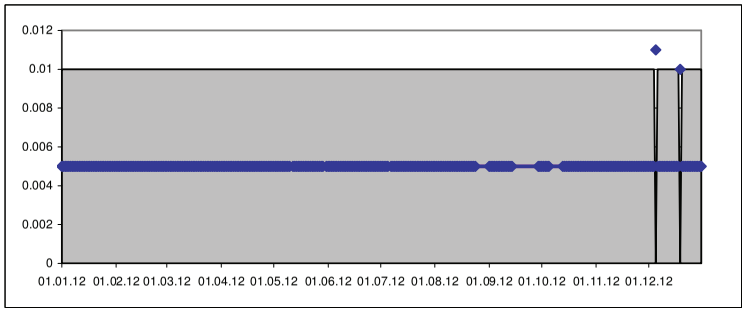
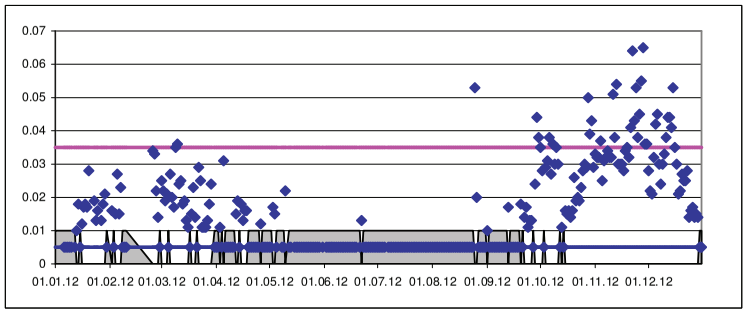
SQ_Clarithromycin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



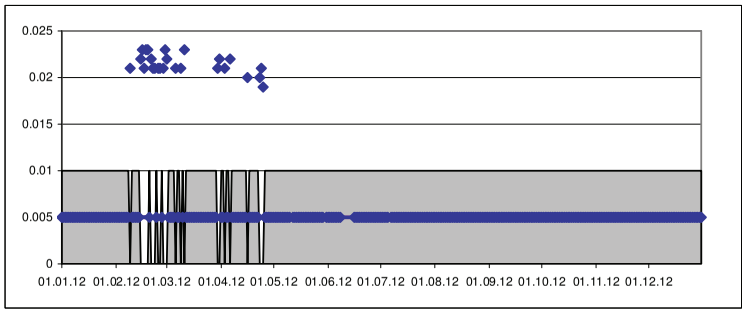
SQ_Codein [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



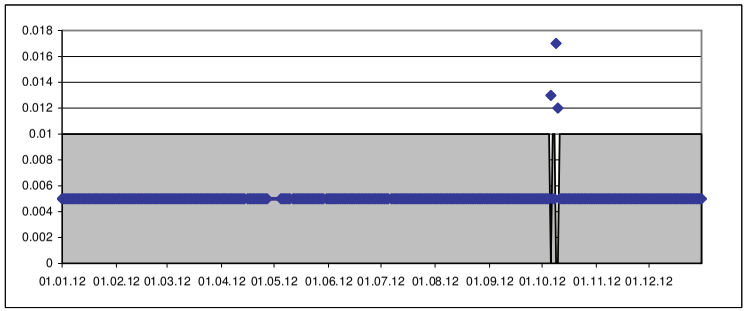
SQ_Diclofenac [µg/L]
1M_MS
90-Perzentil: 0.035
Median: 0.005



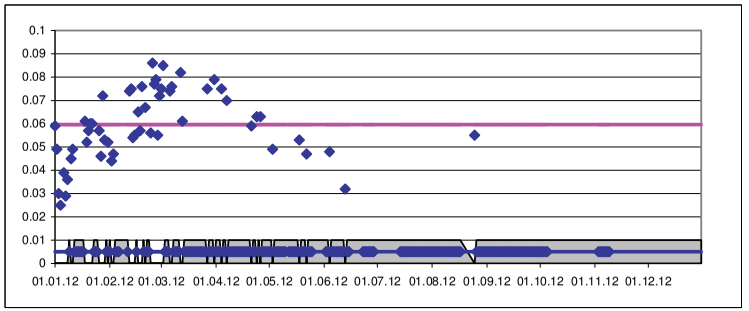
SQ_Eprosartan [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



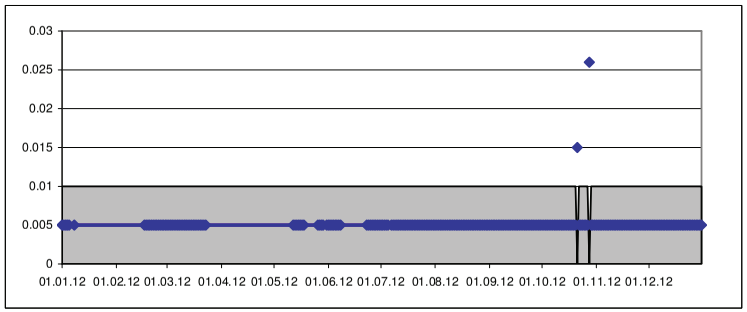
SQ_Fluoxetin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



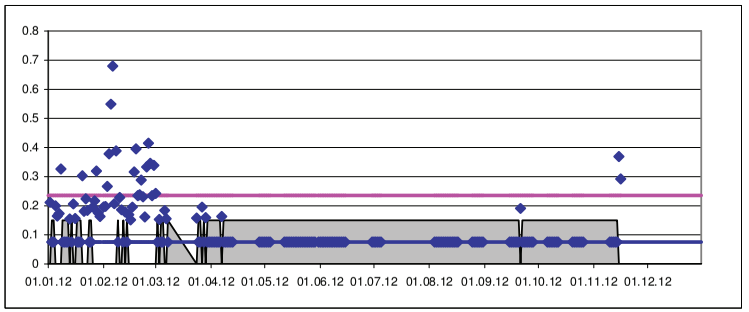
SQ_Gabapentin [µg/L]
1M_MS
90-Perzentil: 0.0596
Median: 0.005



SQ_Indomethacin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



SQ_Iopromid [µg/L]
1M_MS
90-Perzentil: 0.235
Median: 0.075



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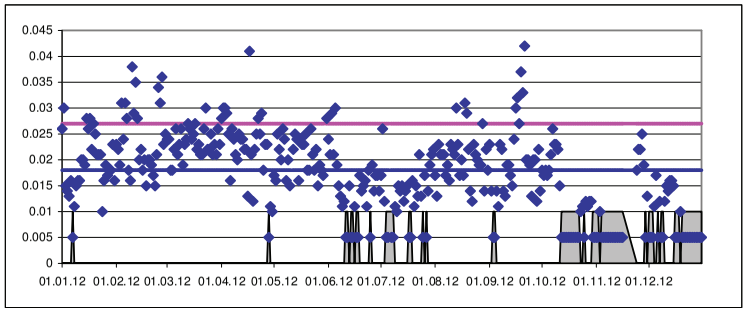
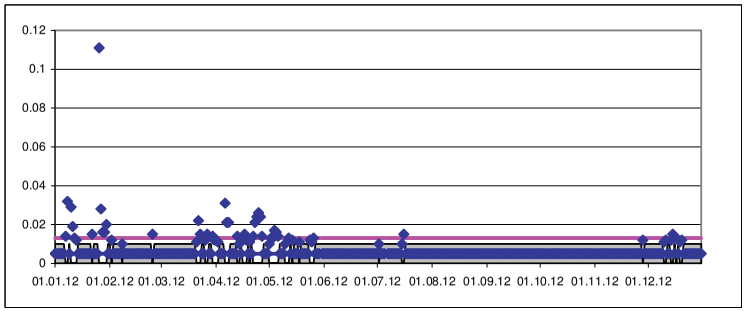
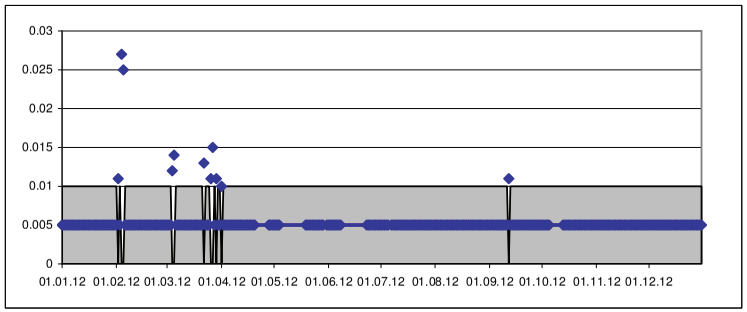
SQ_Lamotrigin [µg/L]
1M_MS
90-Perzentil: 0.027
Median: 0.018



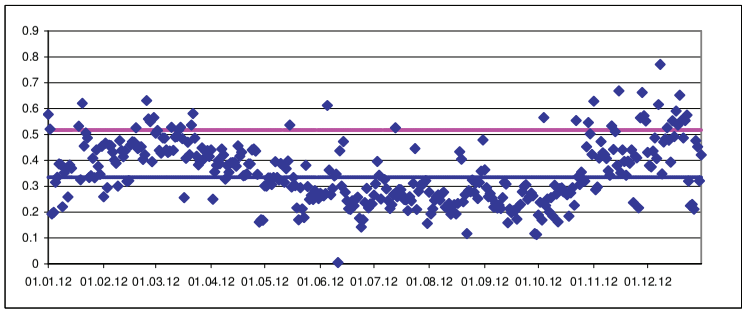
SQ_Levetiracetam [µg/L]
1M_MS
90-Perzentil: 0.013
Median: 0.005



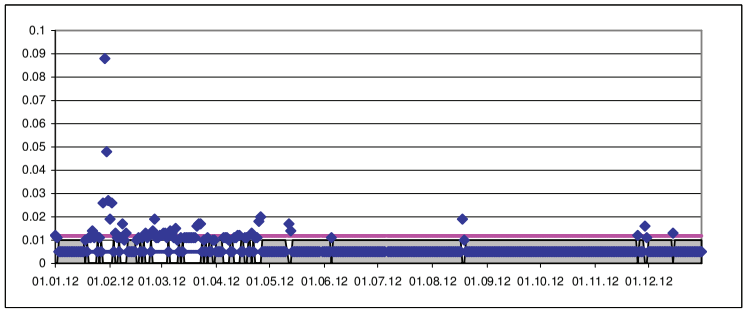
SQ_Lidocain [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



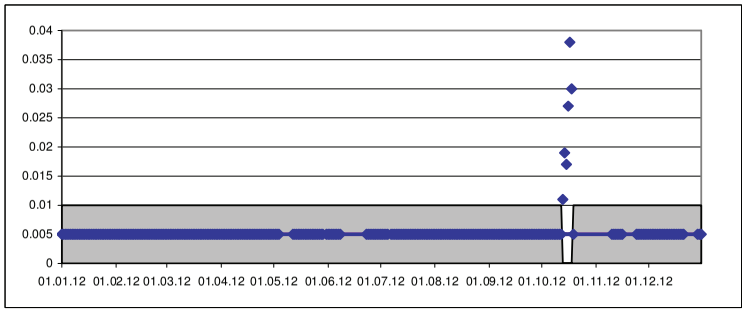
SQ_Metformin [µg/L]
1M_MS
90-Perzentil: 0.517
Median: 0.335



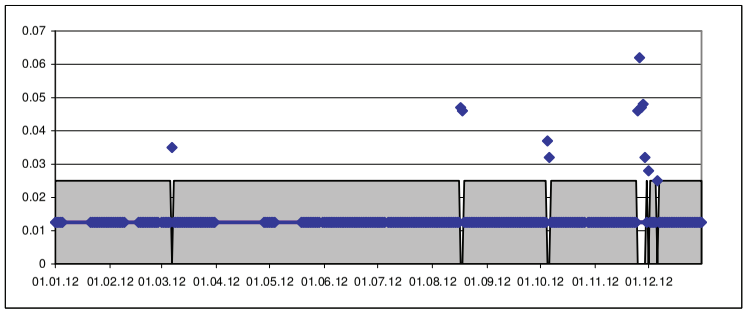
SQ_Metoprolol [µg/L]
1M_MS
90-Perzentil: 0.0118
Median: 0.005



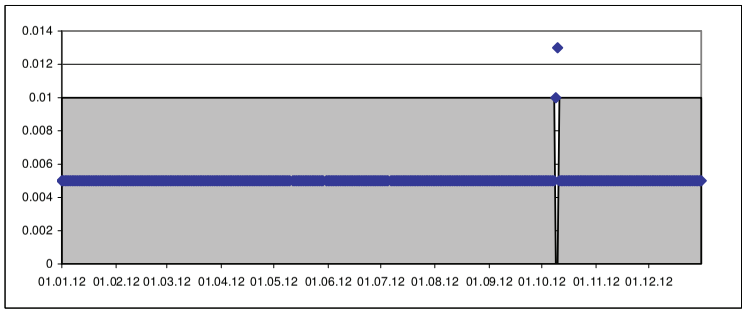
SQ_Moclobemid [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



SQ_Naproxen [µg/L]
1M_MS
90-Perzentil: 0.0125
Median: 0.0125



SQ_Oxazepam [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



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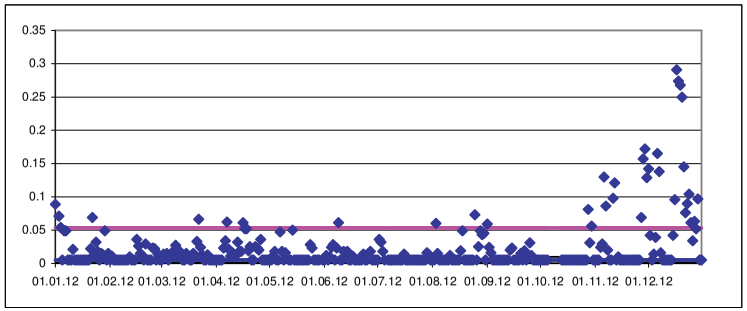
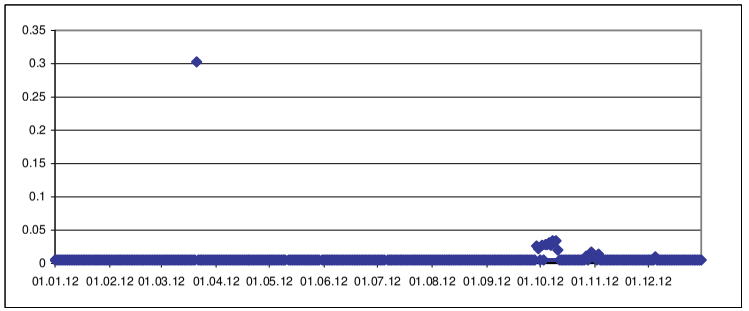
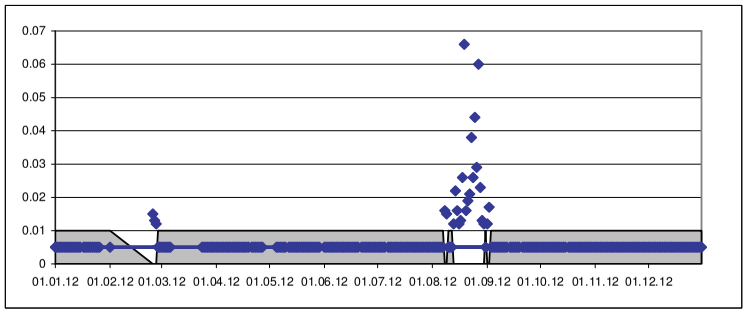
SQ_Paracetamol [µg/L]
1M_MS
90-Perzentil: 0.0532
Median: 0.005



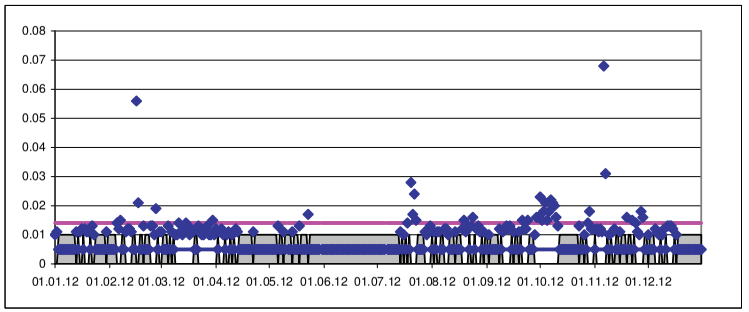
SQ_Sitagliptin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



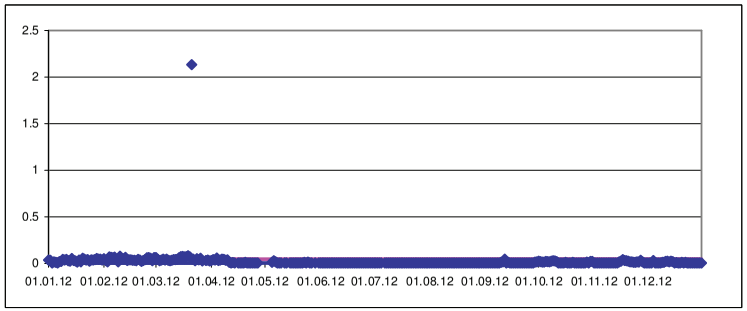
SQ_Sotalol [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



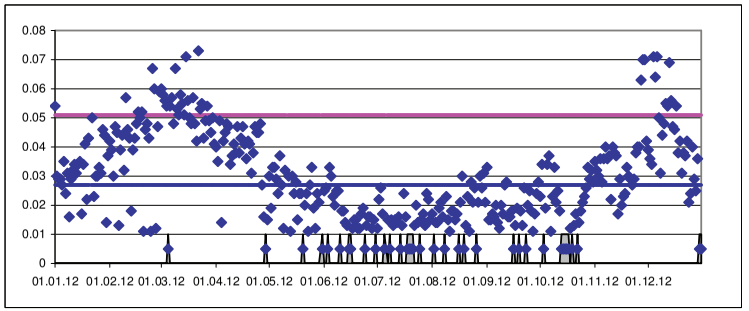
SQ_Sulfamethoxazol [µg/L]
1M_MS
90-Perzentil: 0.014
Median: 0.005



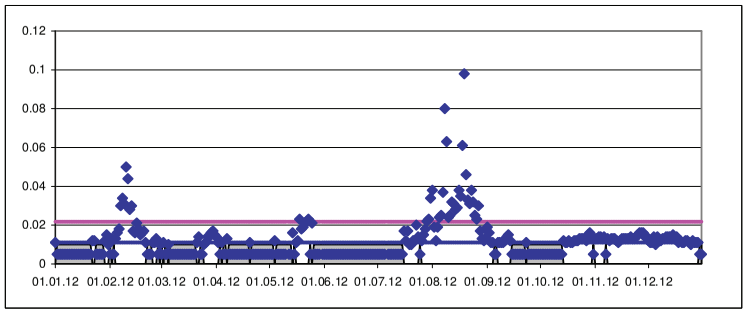
SQ_Summe O-Desvenlafaxin und N-Desvenlafaxin und Tramadol [µg/L]
1M_MS
90-Perzentil: 0.0449
Median: 0.005



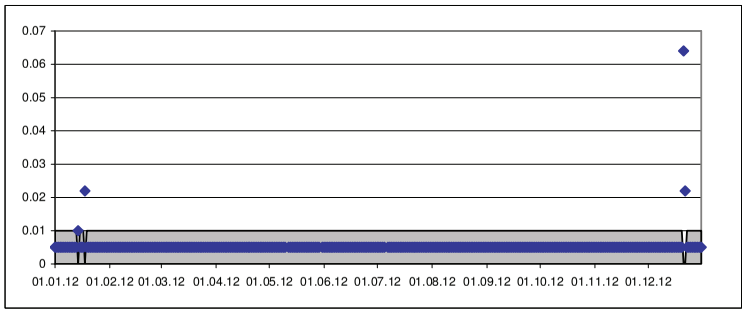
SQ_Valsartan [µg/L]
1M_MS
90-Perzentil: 0.0509
Median: 0.027



SQ_Venlafaxin [µg/L]
1M_MS
90-Perzentil: 0.0218
Median: 0.011



SQ_Verapamil [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



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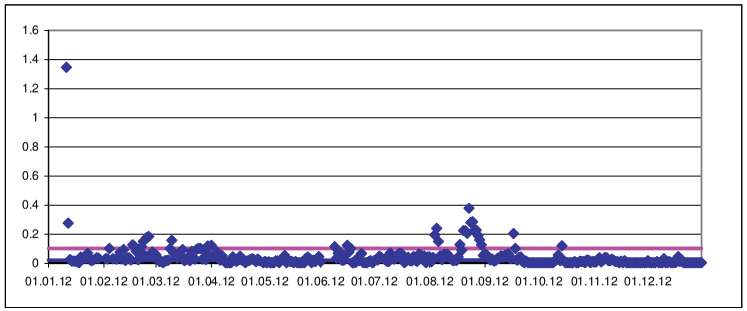
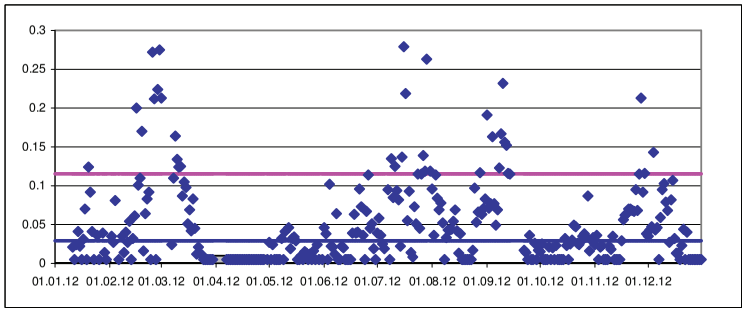
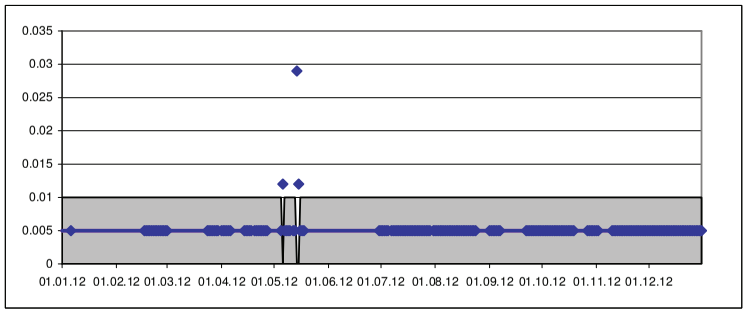
SQ_2-Naphthalinsulfonsaeure [µg/L]
1M_MS
90-Perzentil: 0.102
Median: 0.022



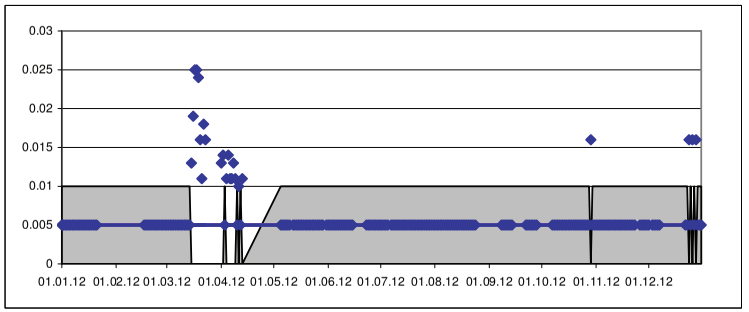
SQ_4-Trifluormethyl-phenol [µg/L]
1M_MS
90-Perzentil: 0.116
Median: 0.029



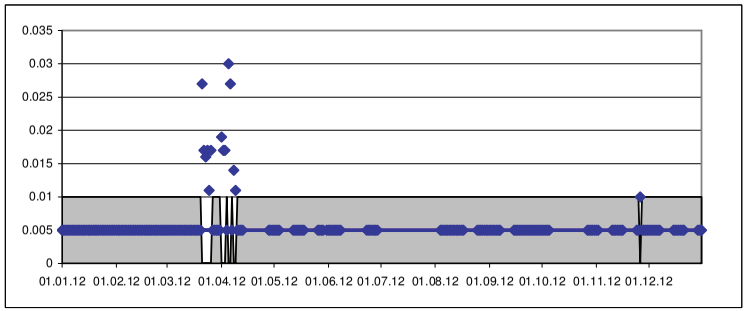
SQ_4-Chlor-2-methylphenol [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



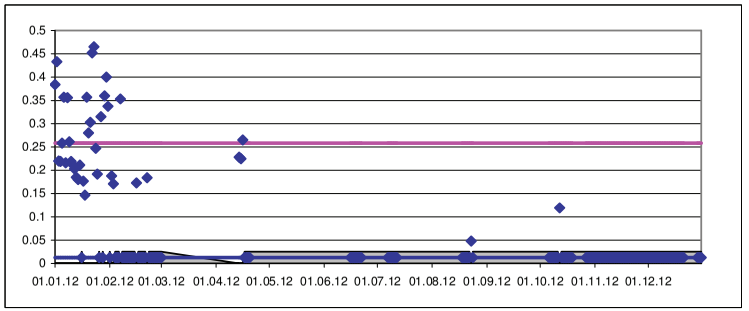
SQ_4-Dimethylaminopyridin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



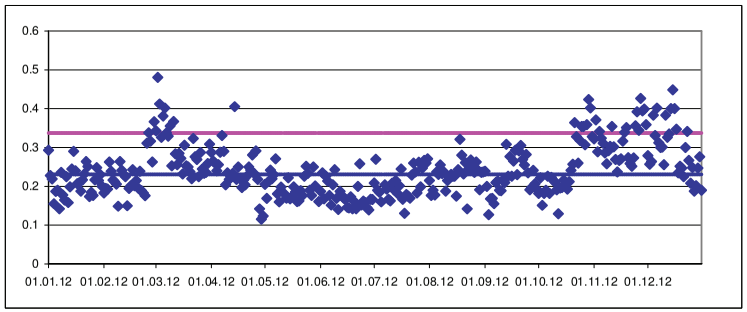
SQ_4-Isopropylanilin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



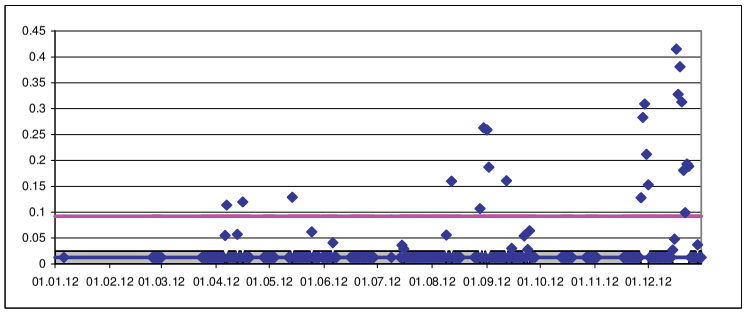
SQ_Benzothiazol [µg/L]
1M_MS
90-Perzentil: 0.258
Median: 0.0125



SQ_Benzotriazol [µg/L]
1M_MS
90-Perzentil: 0.337
Median: 0.231



SQ_Coffein [µg/L]
1M_MS
90-Perzentil: 0.092
Median: 0.0125



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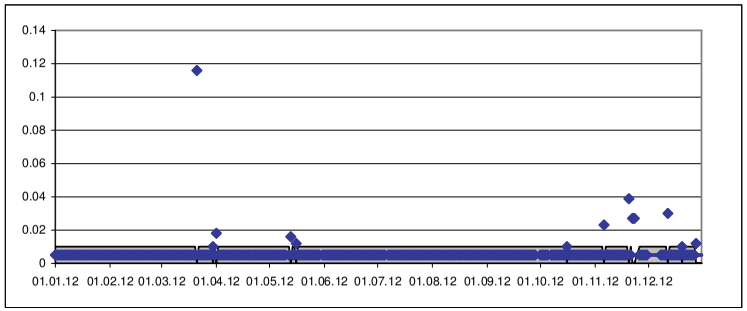
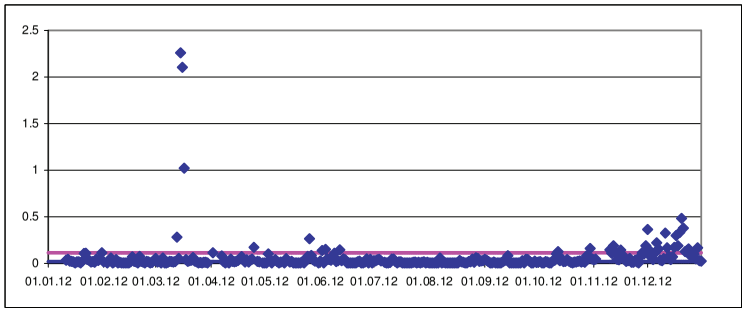
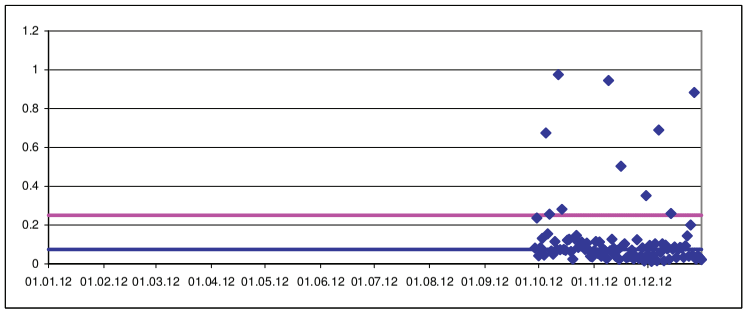
SQ_Summe N-Methylacetanilid und 2,4-Dimethylphenylformamid [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



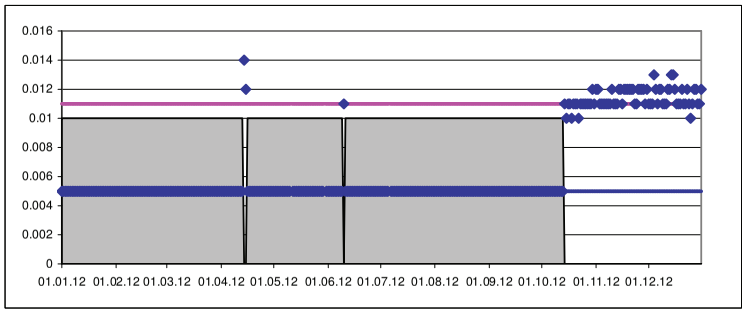
SQ_Toluol-4-sulfonsaeure [µg/L]
1M_MS
90-Perzentil: 0.114
Median: 0.0205



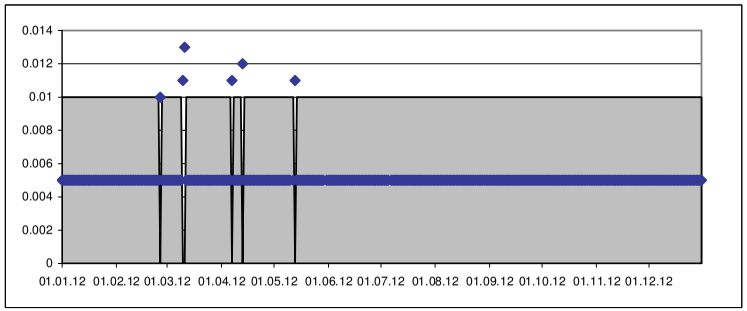
SQ_Triphenylphosphinoxid [µg/L]
1M_MS
90-Perzentil: 0.25
Median: 0.075



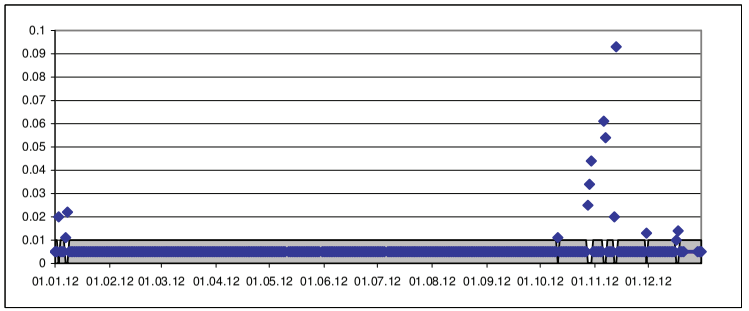
SQ_Atrazin [µg/L]
1M_MS
90-Perzentil: 0.011
Median: 0.005



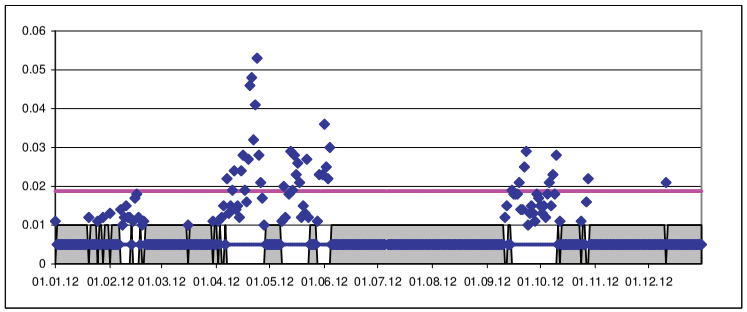
SQ_Carbendazim [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



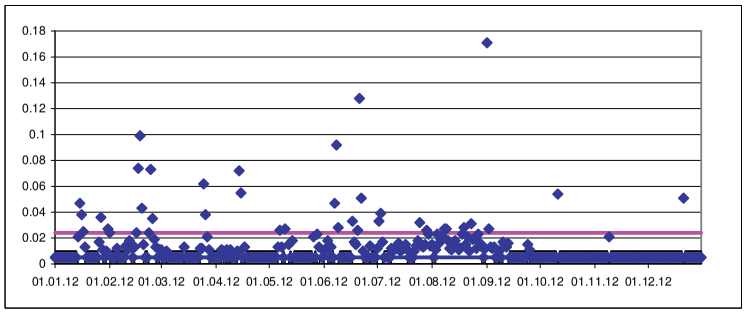
SQ_Chlortoluron [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



SQ_Cyproconazol [µg/L]
1M_MS
90-Perzentil: 0.0188
Median: 0.005



SQ_DEET [µg/L]
1M_MS
90-Perzentil: 0.024
Median: 0.005



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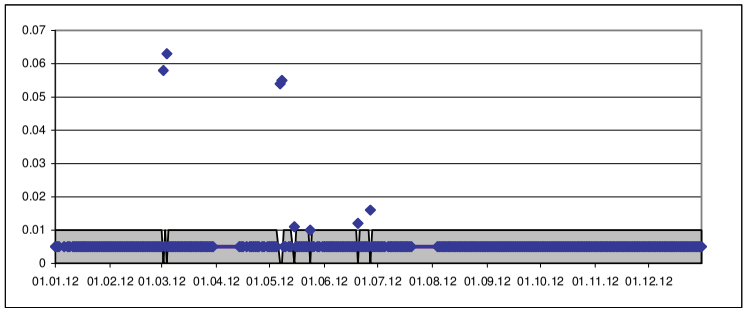
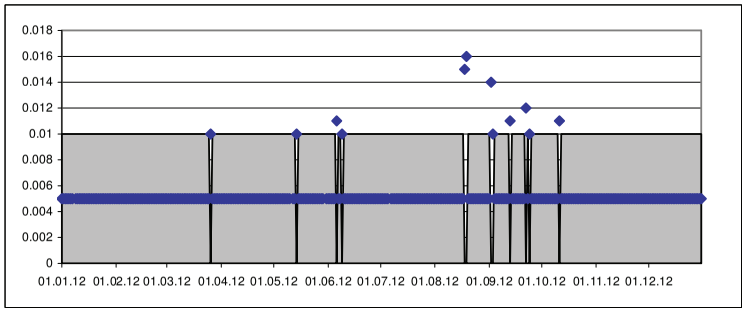
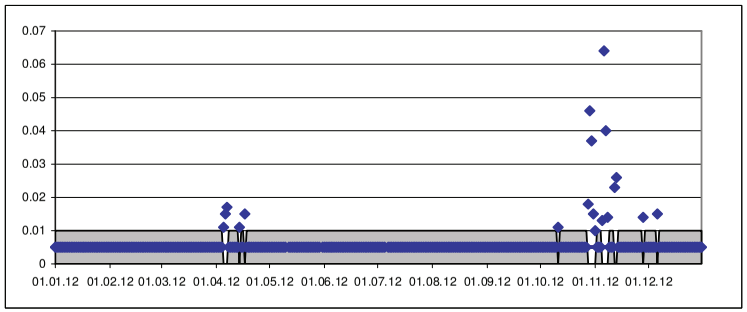
SQ_Dinoseb [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



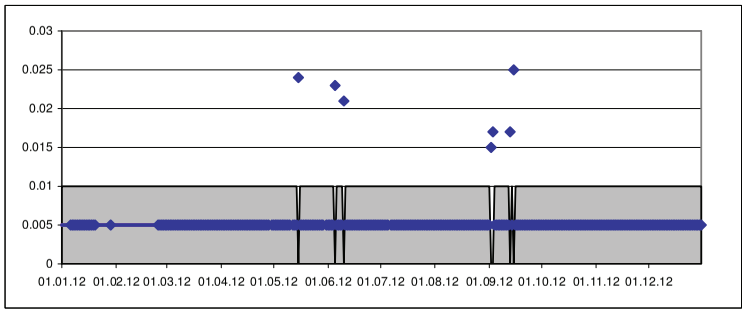
SQ_Diuron [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



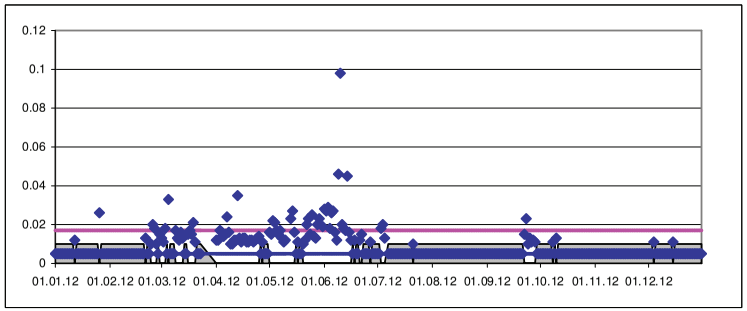
SQ_Isoproturon [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



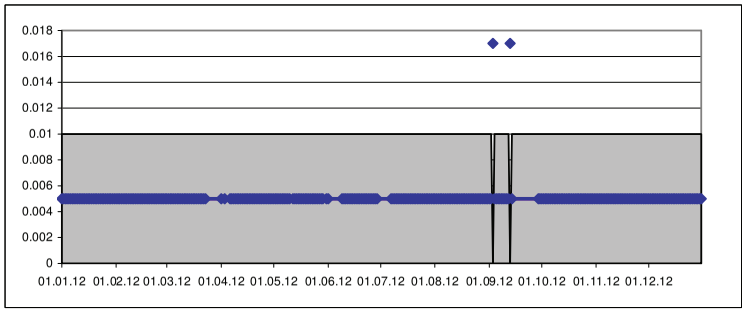
SQ_MCPA [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



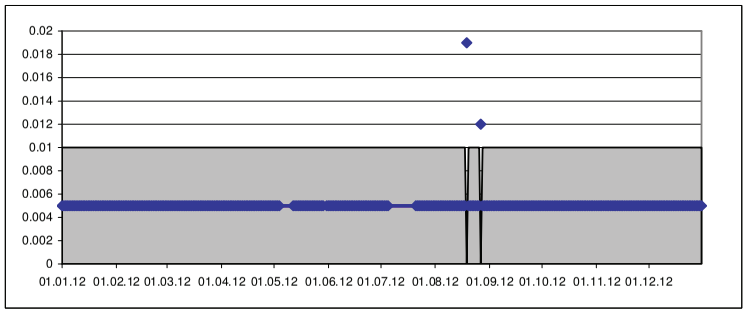
SQ_Metolachlor [µg/L]
1M_MS
90-Perzentil: 0.017
Median: 0.005



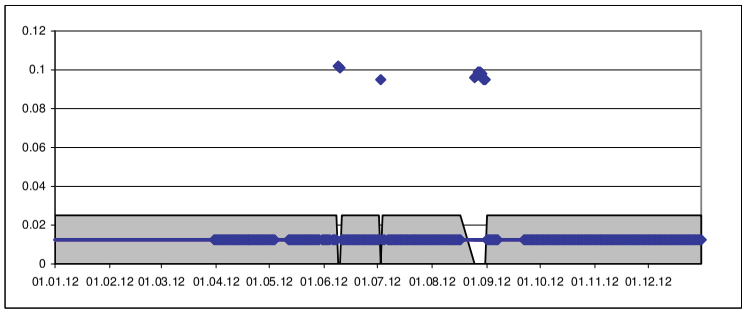
SQ_Napropamid [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



SQ_Pyrimethanil [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



SQ_Summe Dicamba und 2,4-D [µg/L]
1M_MS
90-Perzentil: 0.0125
Median: 0.0125



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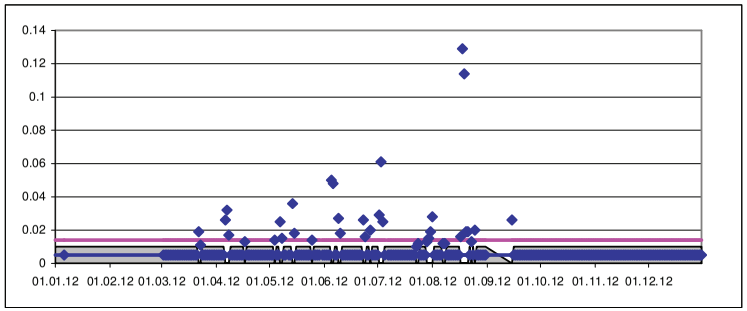
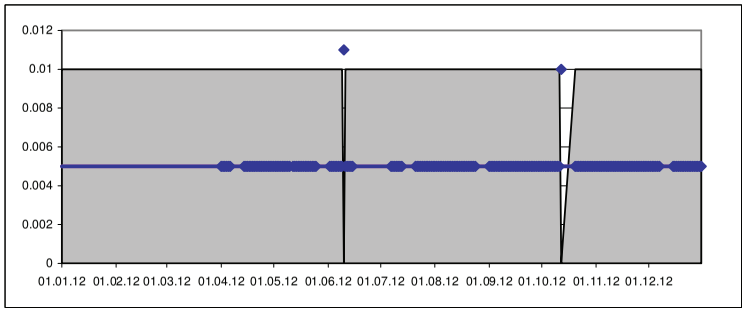
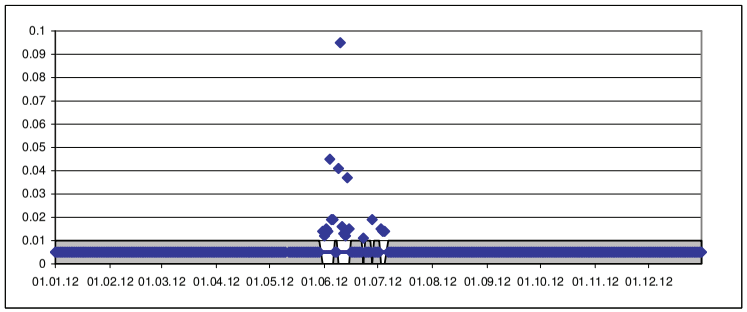
SQ_Summe Mecoprop und Clofibrinsaeure [µg/L]
1M_MS
90-Perzentil: 0.014
Median: 0.005



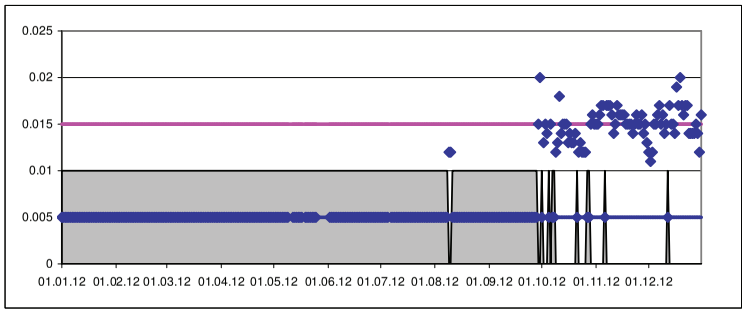
SQ_Summe Simazin und Desethylterbuthylazin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



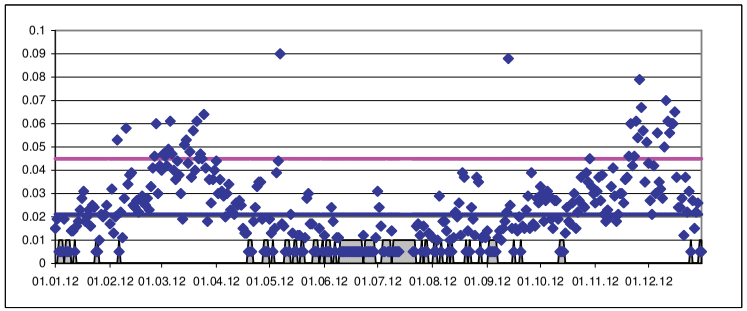
SQ_Summe Terbuthylazin und Propazin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



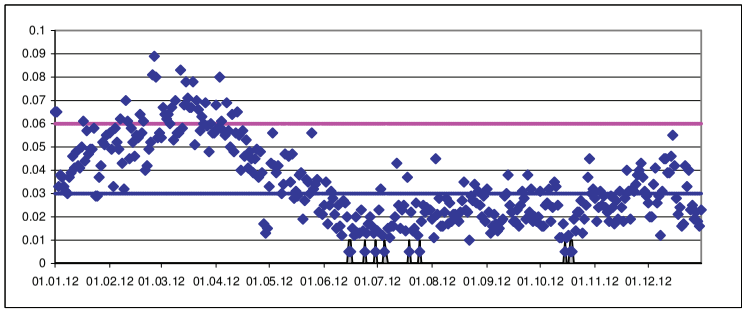
SQ_2,6-Dichlorbenzamid [µg/L]
1M_MS
90-Perzentil: 0.015
Median: 0.005



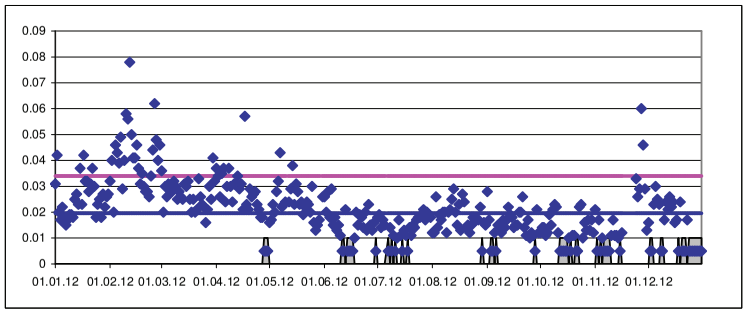
SQ_4-Formyl-aminoantipyrin [µg/L]
1M_MS
90-Perzentil: 0.045
Median: 0.021



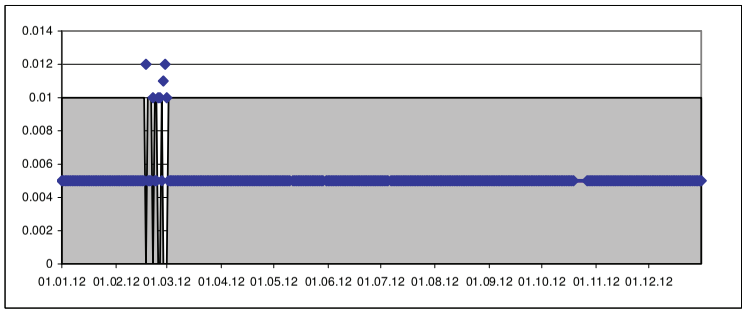
SQ_Atenololsaeure [µg/L]
1M_MS
90-Perzentil: 0.06
Median: 0.03



SQ_Carbamazepin-10,11-dihydro-10,11-dihydroxy [µg/L]
1M_MS
90-Perzentil: 0.034
Median: 0.0195



SQ_Clopidogrelsaeure [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



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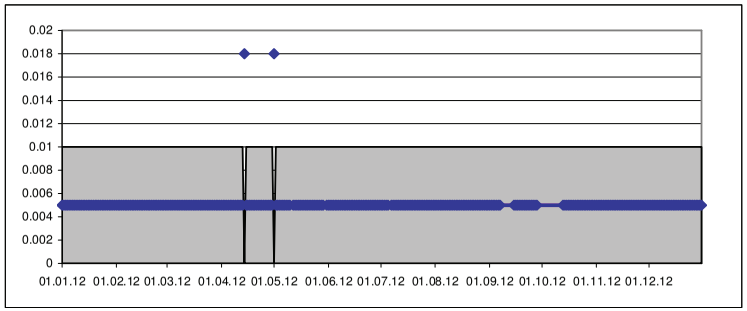
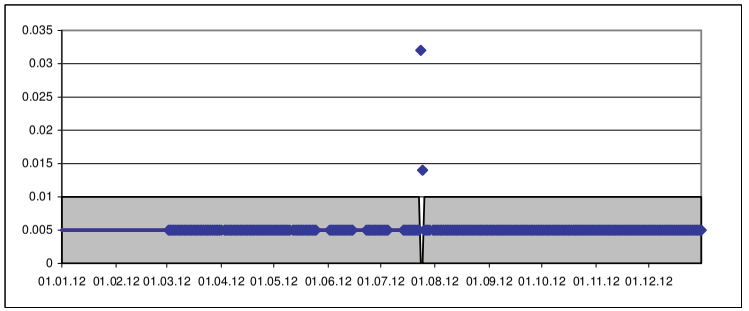
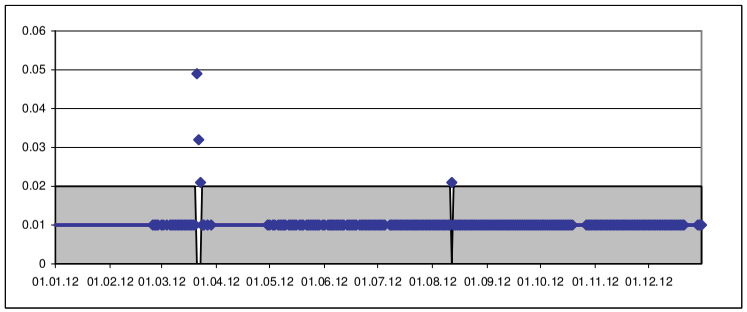
SQ_Desamino-metamitron [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



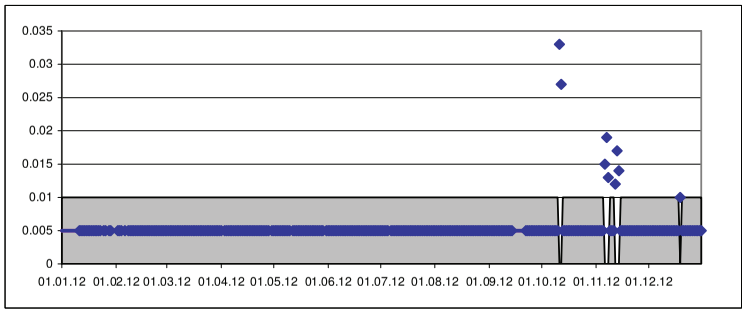
SQ_Dimethachlor-OXA [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



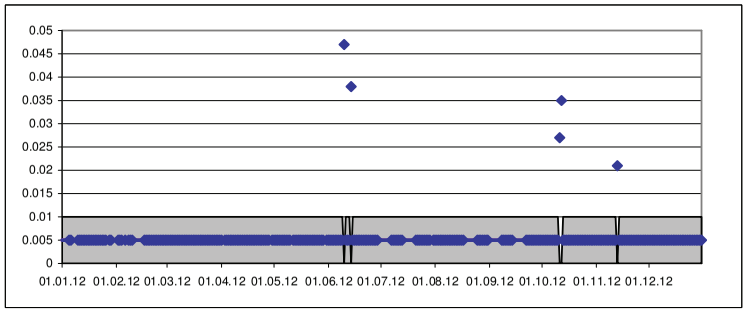
SQ_Galaxolidon [µg/L]
1M_MS
90-Perzentil: 0.01
Median: 0.01



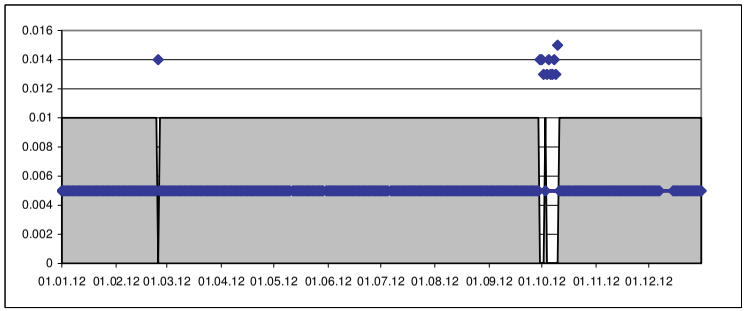
SQ_Metazachlor-ESA [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



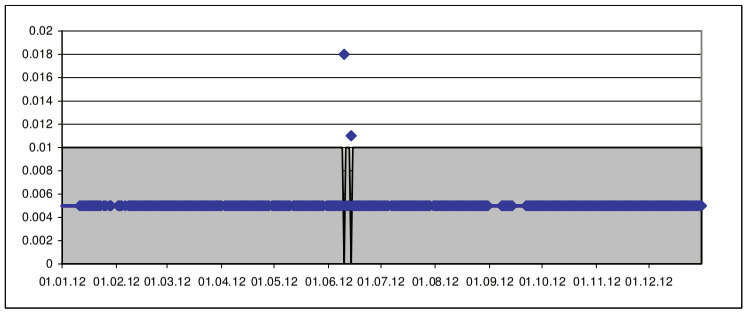
SQ_Metolachlor-ESA [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



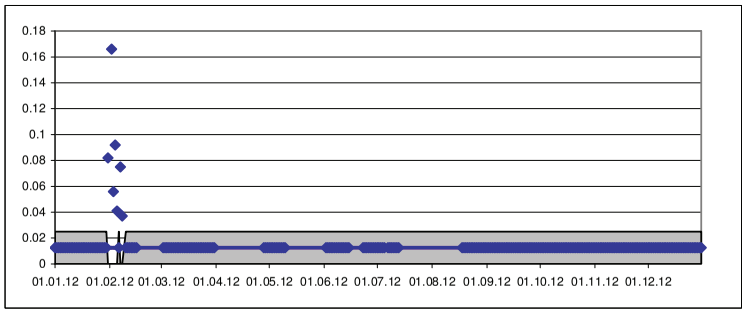
SQ_Metolachlor-Morpholinon [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



SQ_Metolachlor-OXA [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



SQ_N4-Acetylsulfadiazin [µg/L]
1M_MS
90-Perzentil: 0.0125
Median: 0.0125



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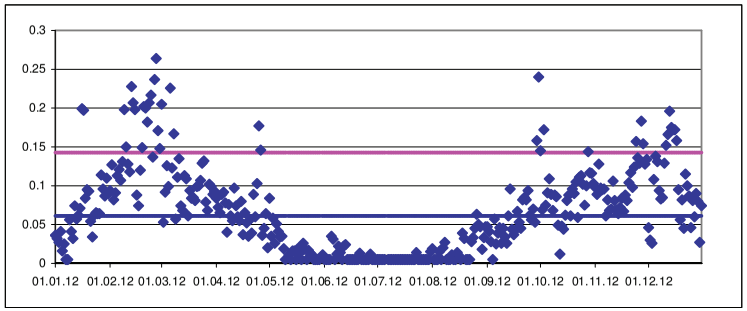
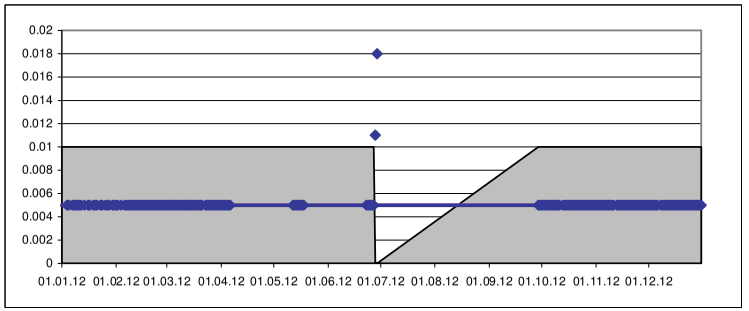
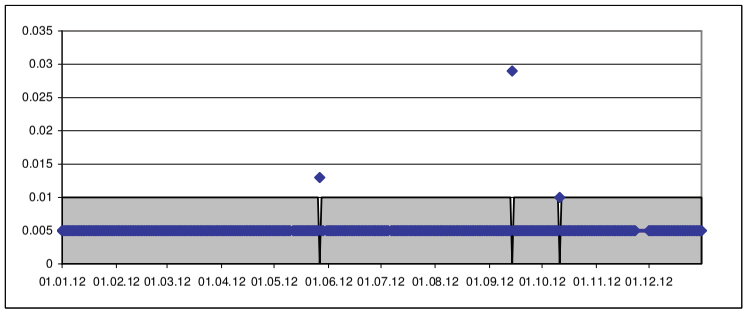
SQ_N-Acetyl-4-aminoantipyrin [µg/L]
1M_MS
90-Perzentil: 0.143
Median: 0.061



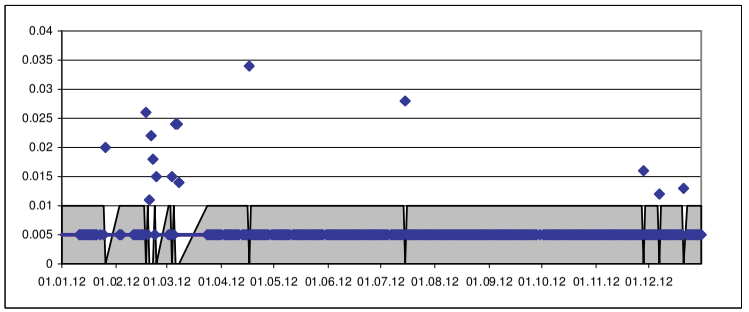
SQ_N,N-Dimethyldicylamin-N-oxid [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



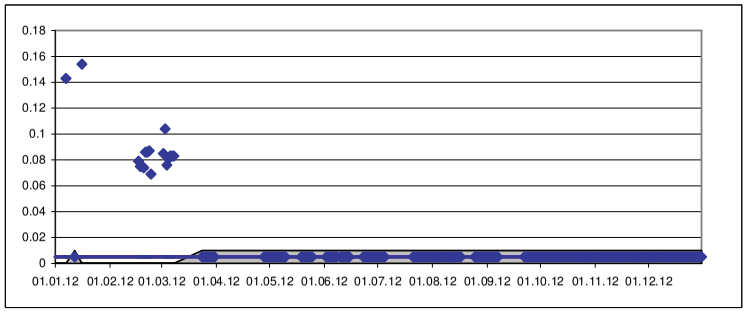
SQ_N,N-dimethyl-N'-(4-methylphenyl)-sulfamid [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



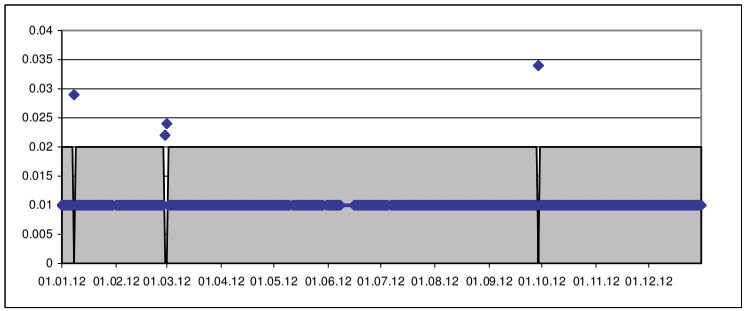
SQ_Propachlor-ESA [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



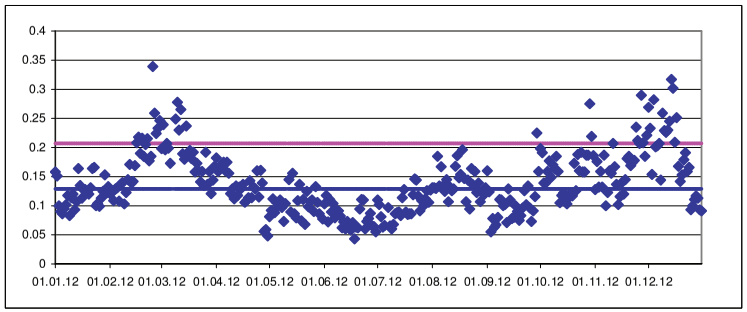
SQ_Propachlor-OXA [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



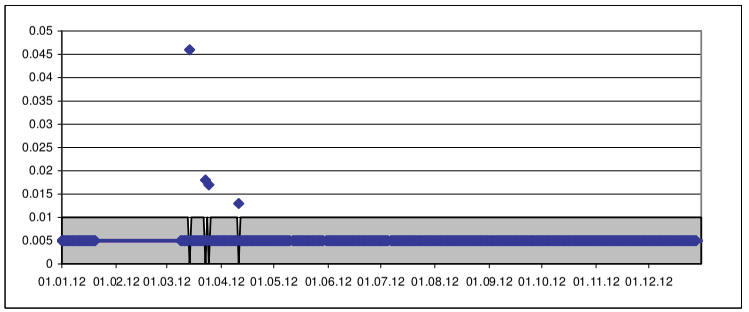
SQ_Summe 1-Hydroxybenzotriazol und 4-Hydroxybenzotriazol [µg/L]
1M_MS
90-Perzentil: 0.01
Median: 0.01



SQ_Summe 5-Methyl-Benzotriazol und 1-Methylbenzotriazol und 2-Aminobenzimidazol [µg/L]
1M_MS
90-Perzentil: 0.207
Median: 0.129



SQ_Summe O,N-Didesvenlafaxin und N,N-Didesvenlafaxin [µg/L]
1M_MS
90-Perzentil: 0.005
Median: 0.005



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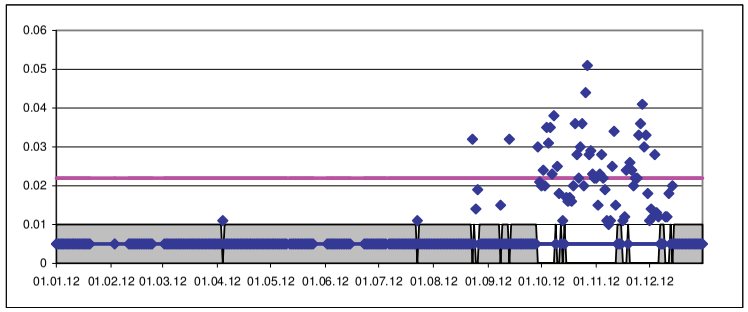
SQ_Valsartansaeure [µg/L]
1M_MS
90-Perzentil: 0.022
Median: 0.005



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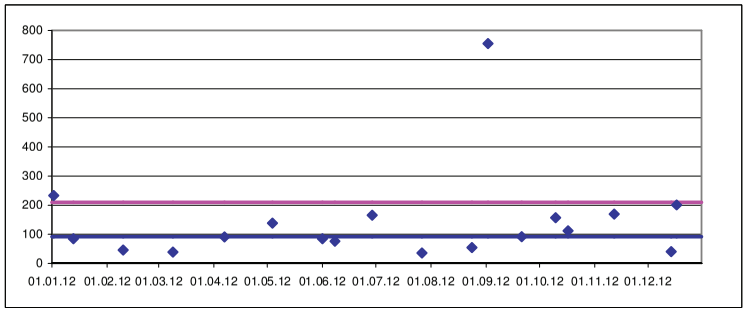
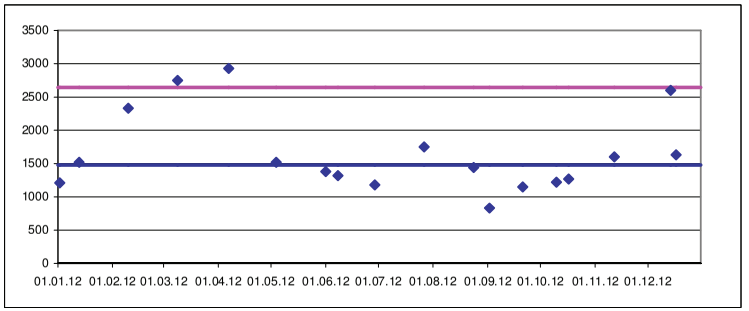
Anhang 8 Grafische Darstellung der Messresultate 2012 Schwebstoffphase

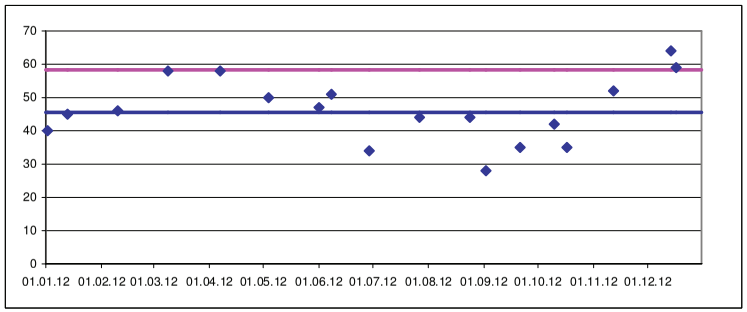
Trockengewicht [g]
SAMMELPROBE
90-Perzentil: 210
Median: 91.1



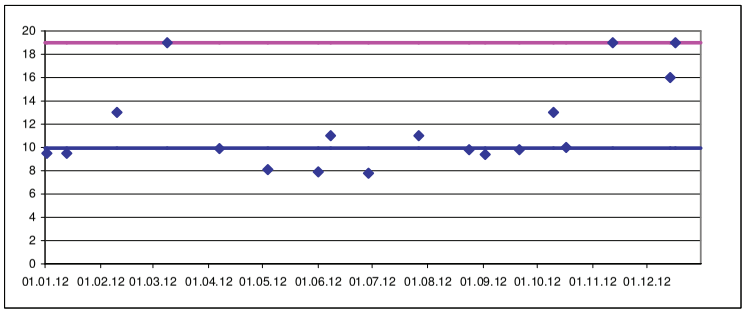
Phosphor(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 2650
Median: 1480



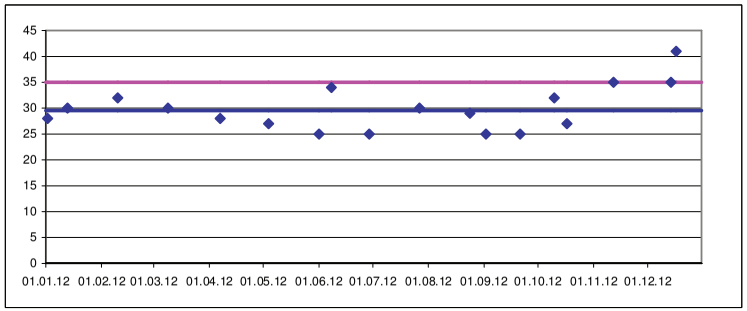
TOC [g/kg_TS]
SAMMELPROBE
90-Perzentil: 58.3
Median: 45.5



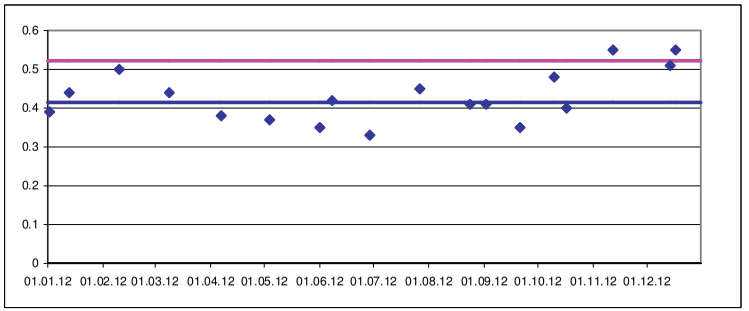
Arsen(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 19
Median: 9.95



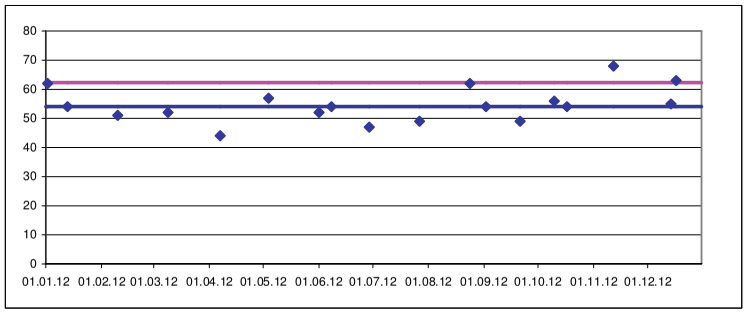
Blei(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 35
Median: 29.5



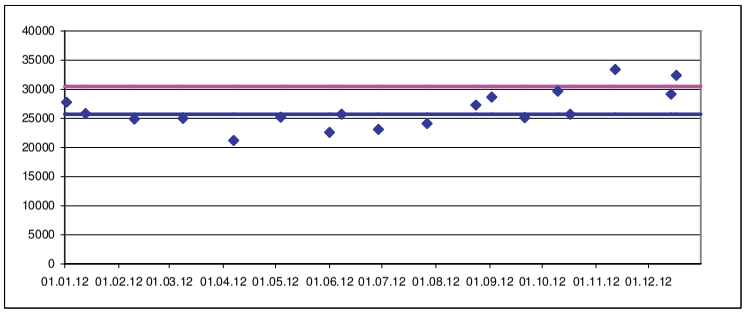
Cadmium(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.522
Median: 0.415



Chrom(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 62.3
Median: 54



Eisen(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 30500
Median: 25700



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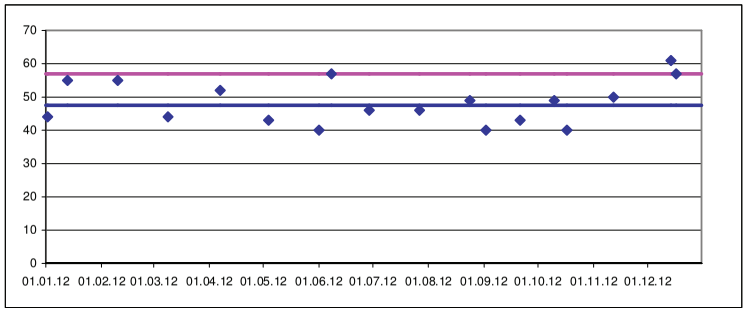
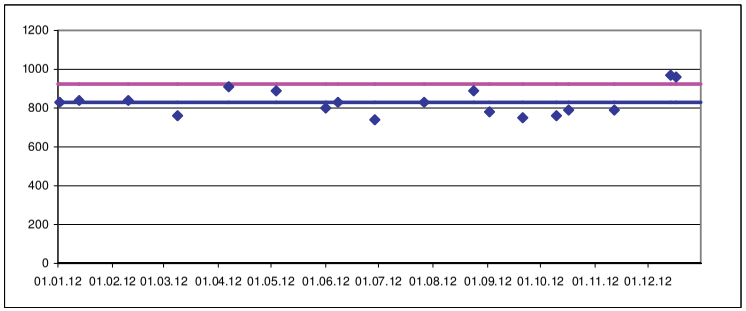
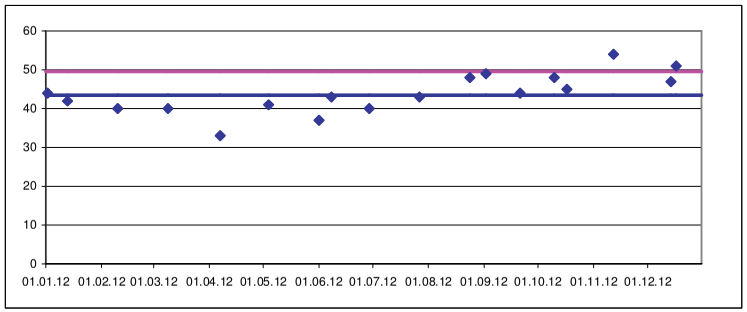
Kupfer(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 57
Median: 47.5



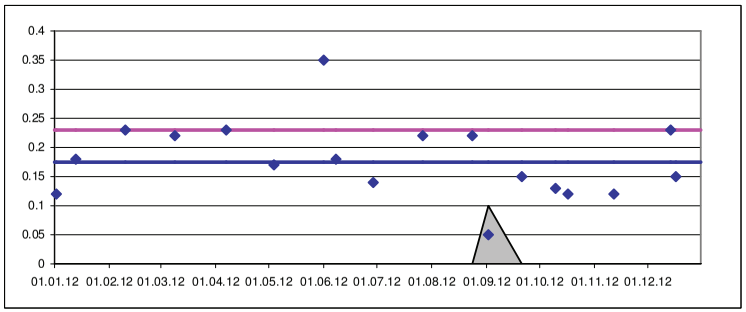
Mangan(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 925
Median: 830



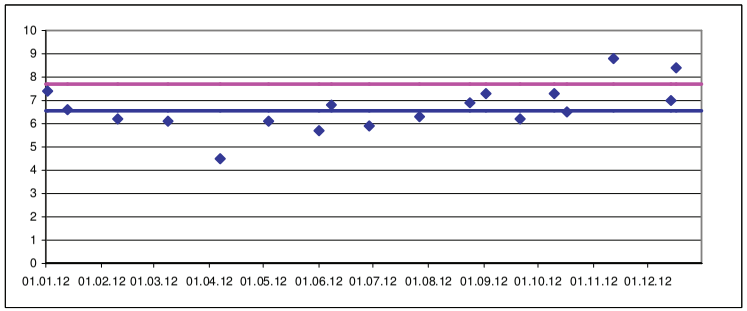
Nickel(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 49.6
Median: 43.5



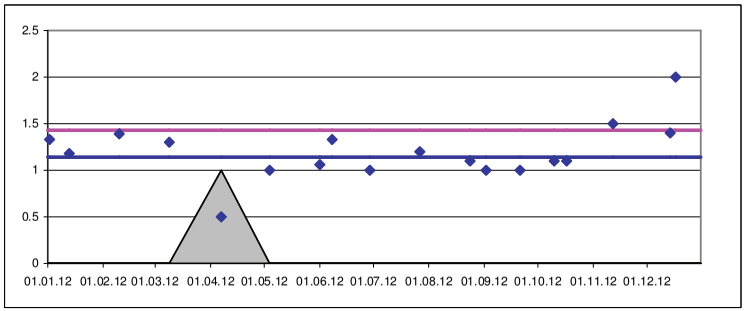
Quecksilber(gesamt)
[mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.23
Median: 0.175



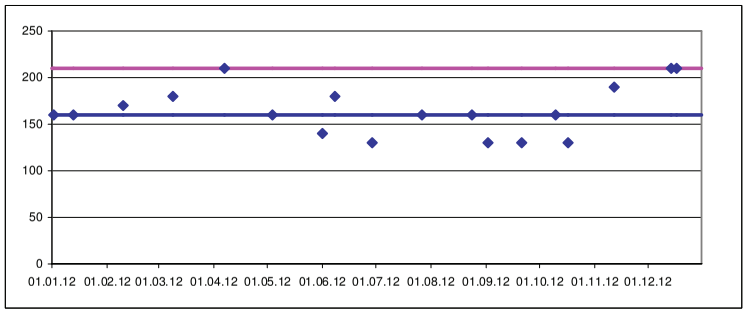
Thorium(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 7.7
Median: 6.55



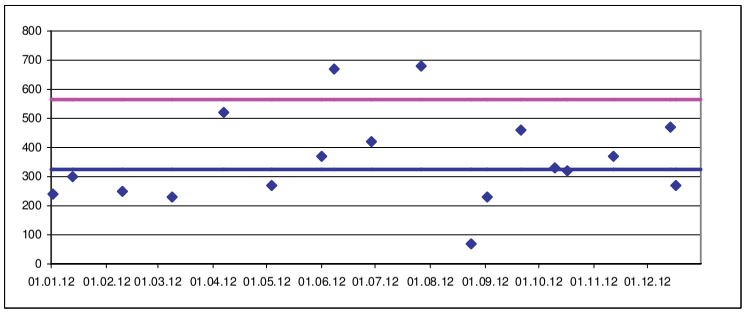
Uran(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 1.43
Median: 1.14



Zink(gesamt) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 210
Median: 160



Be-7 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 565
Median: 325



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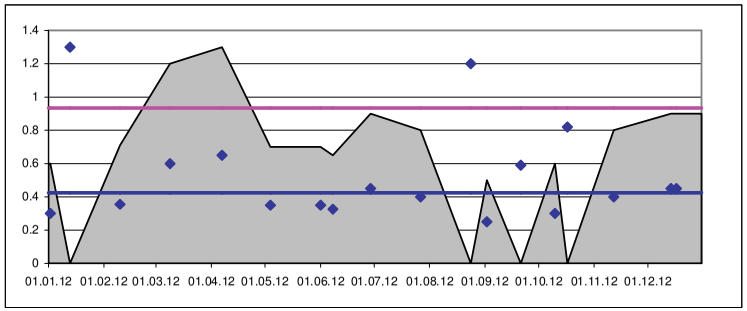
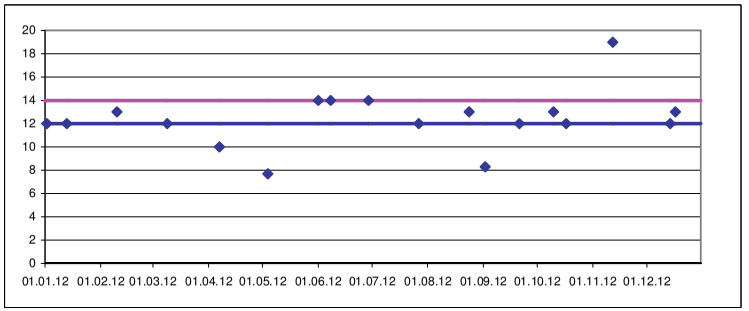
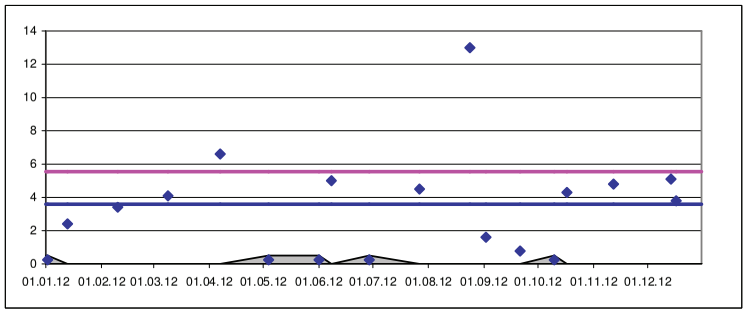
Co-60 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 0.934
Median: 0.425



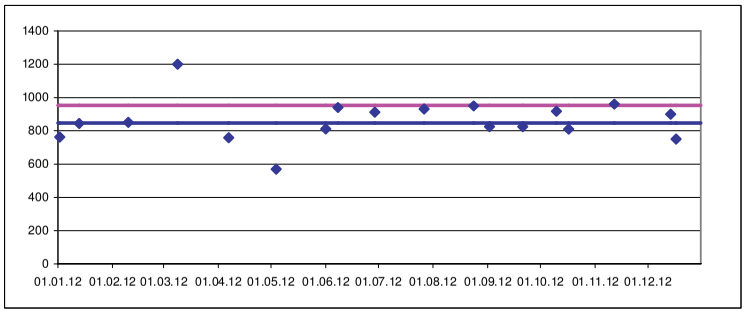
Cs-137 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 14
Median: 12



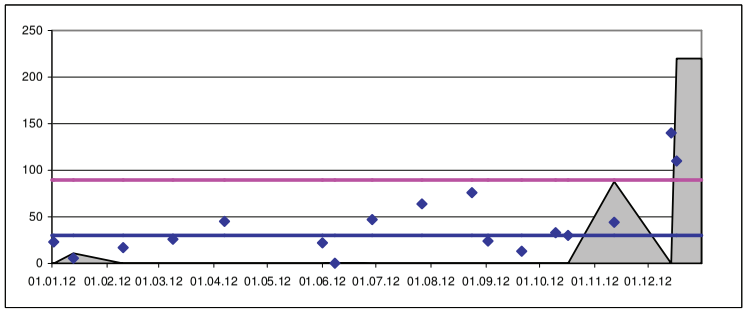
I-131 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 5.55
Median: 3.6



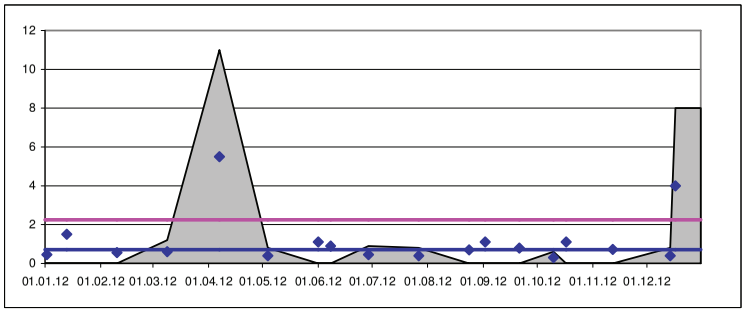
K-40 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 953
Median: 847



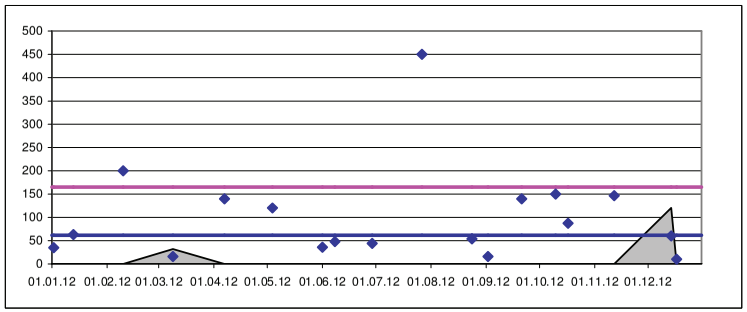
Lu-177 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 89.6
Median: 30



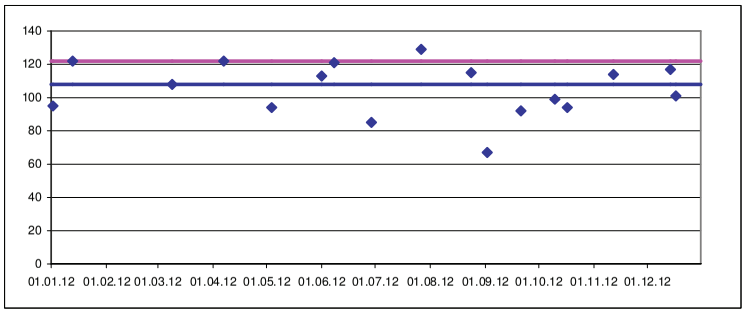
Mn-54 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 2.25
Median: 0.71



Pb-210 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 165
Median: 61.5



Po-210 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 122
Median: 108



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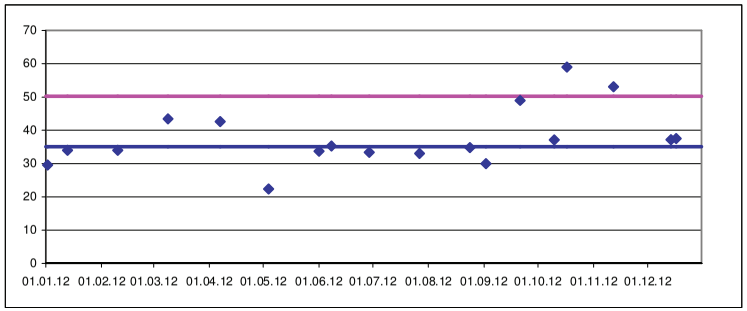
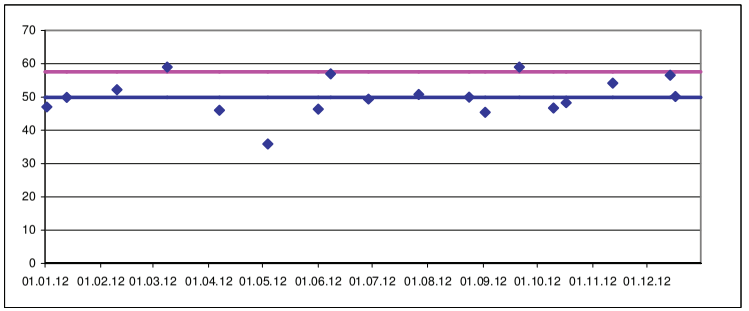
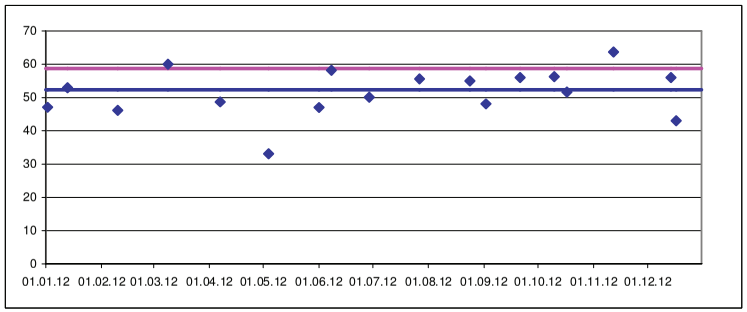
Ra-224 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 50.2
Median: 35.1



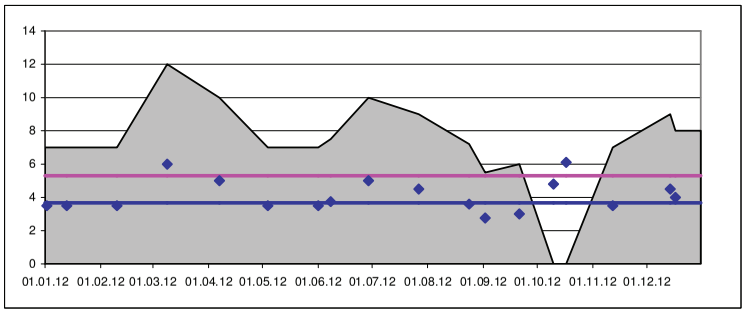
Ra-226 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 57.6
Median: 50



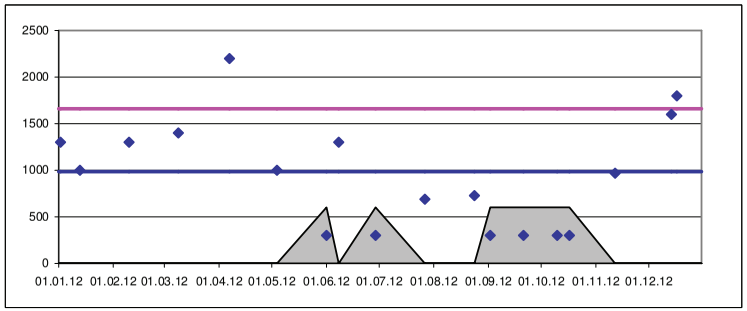
Ra-228 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 58.7
Median: 52.4



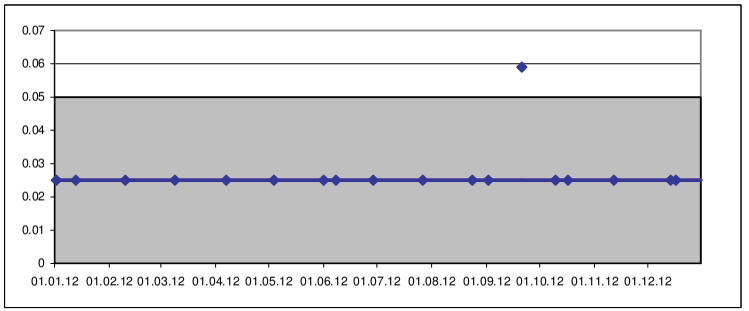
U-235 [Bq/kg_TS]
SAMMELPROBE
90-Perzentil: 5.3
Median: 3.68



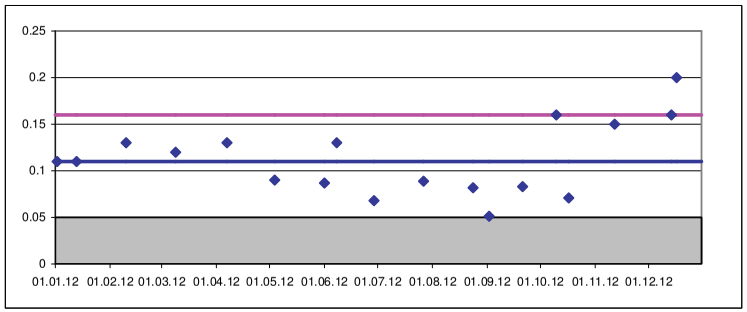
DEHP [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 1660
Median: 985



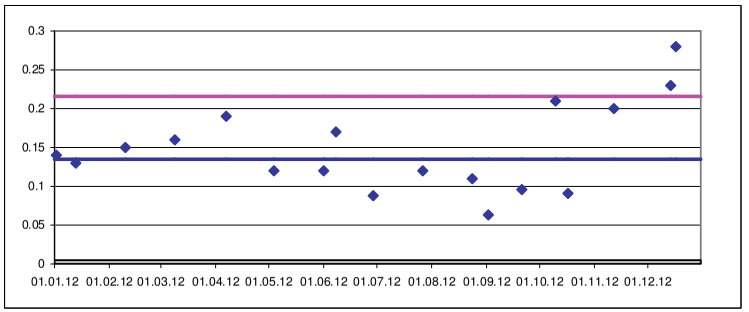
Anthracen [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.025
Median: 0.025



Benzo(a)Anthracen
[mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.16
Median: 0.11



Benzo(a)Pyren [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.216
Median: 0.135



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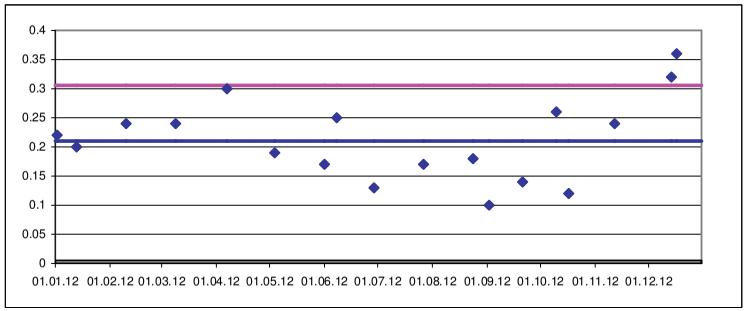
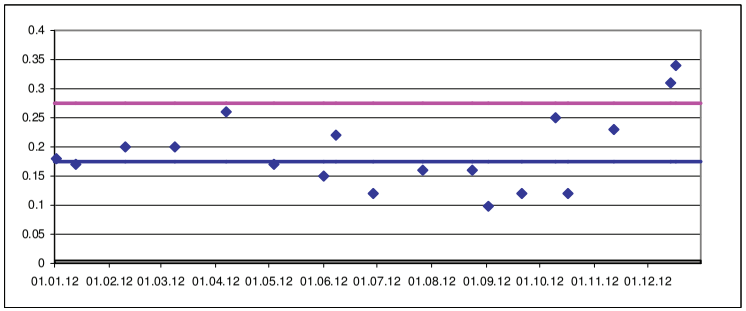
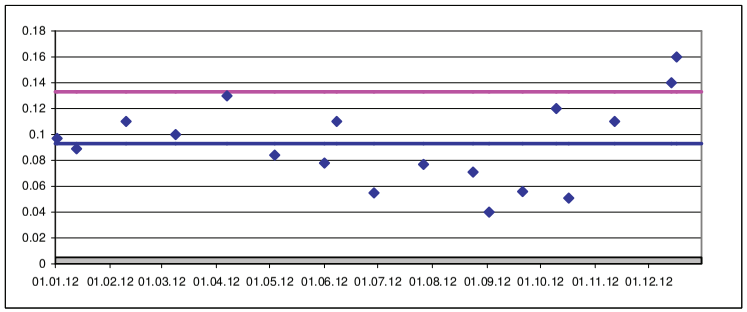
Benzo(b)Fluoranthen
[mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.306
Median: 0.21



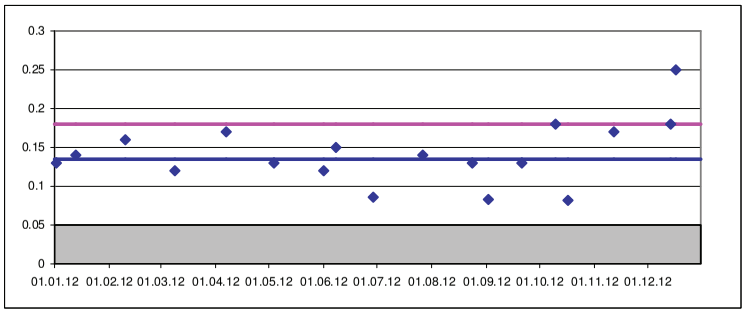
Benzo(ghi)perylen(BGHI)
[mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.275
Median: 0.175



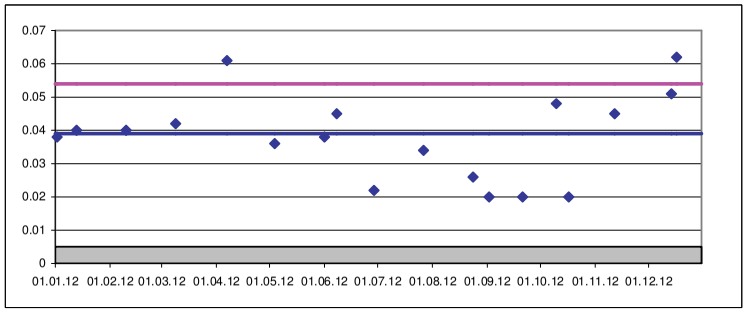
Benzo(k)Fluoranthen
[mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.133
Median: 0.093



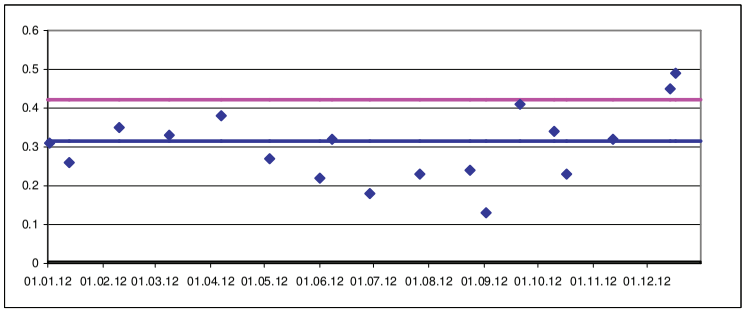
Chrysen [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.18
Median: 0.135



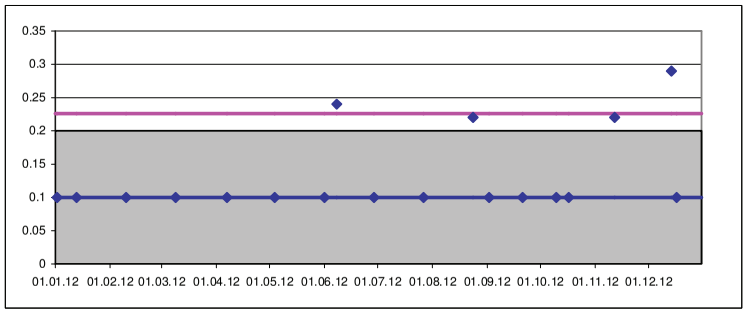
Dibenz(a,h)Anthracen
[mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.054
Median: 0.039



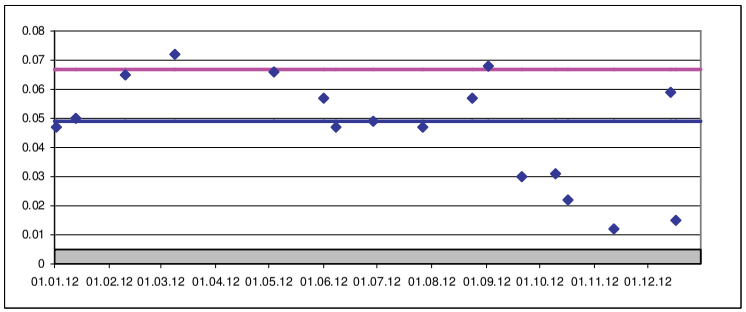
Fluoranthen [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.422
Median: 0.315



Indeno(1,2,3,cd)Pyren
[mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.226
Median: 0.1



Naphthalin [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.0668
Median: 0.049



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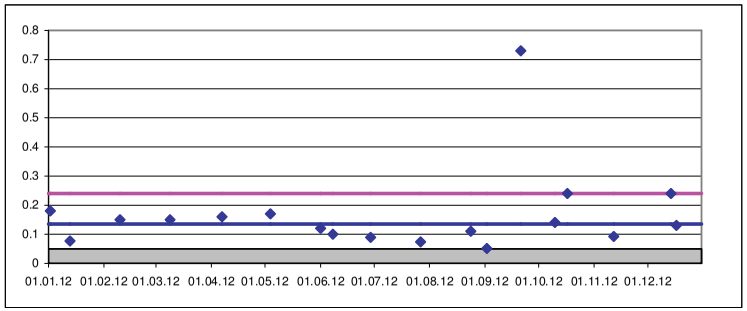
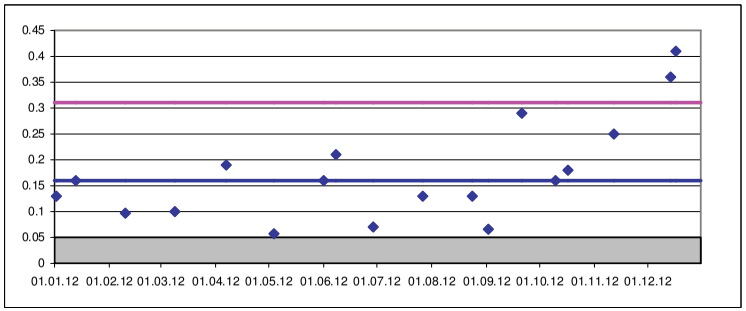
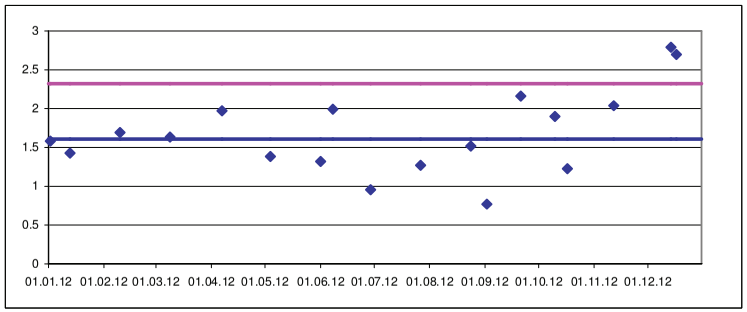
Phenantren(PHE) [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.24
Median: 0.135



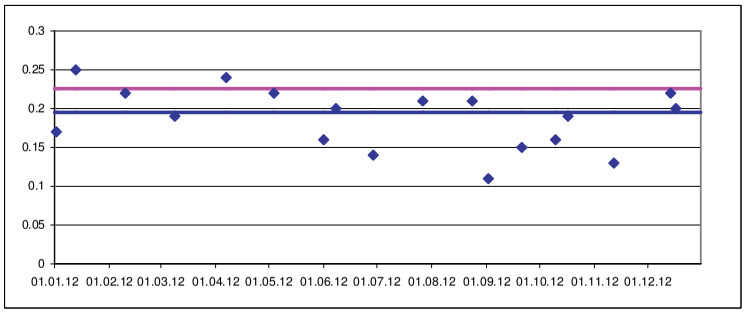
Pyren [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.311
Median: 0.16



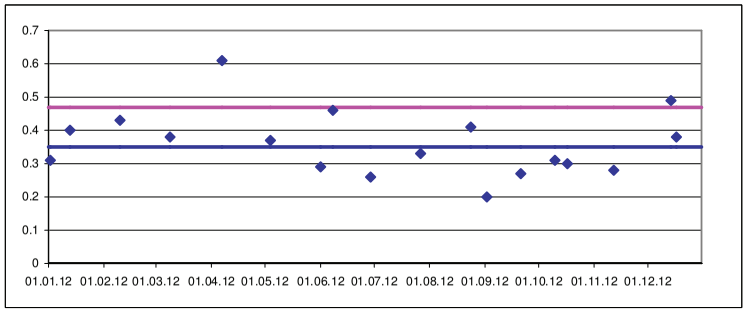
Summe_PAK [mg/kg_TS]
SAMMELPROBE
90-Perzentil: 2.32
Median: 1.61



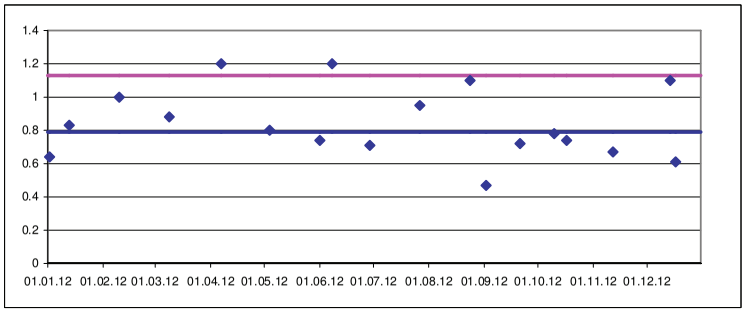
PCB-28 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.226
Median: 0.195



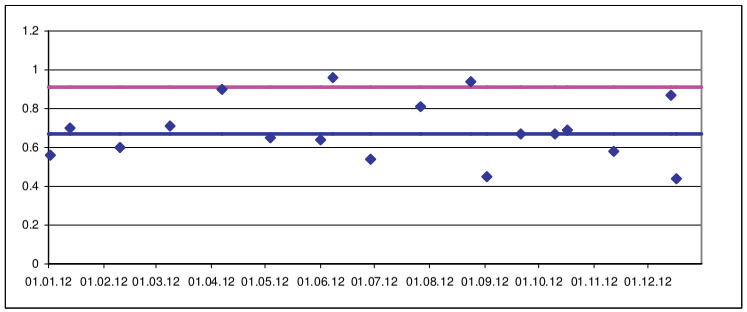
PCB-52 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.469
Median: 0.35



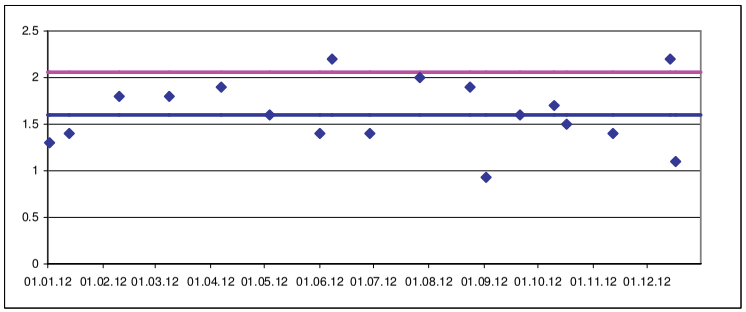
PCB-101 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 1.13
Median: 0.79



PCB-118 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.912
Median: 0.67



PCB-138 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 2.06
Median: 1.6



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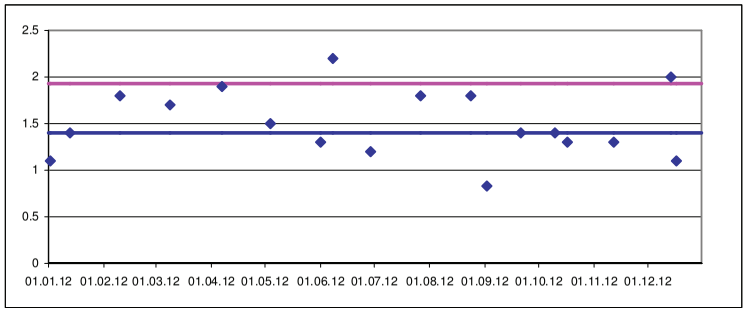
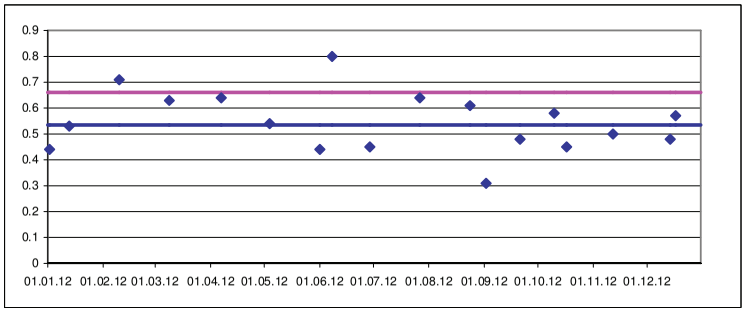
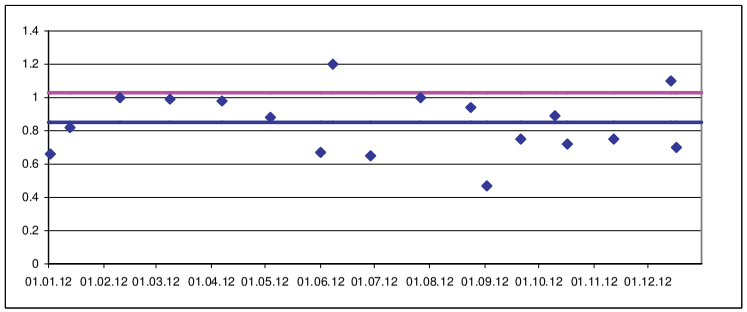
PCB-153 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 1.93
Median: 1.4



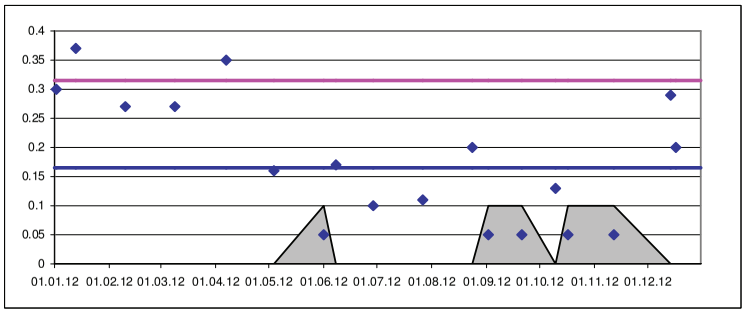
PCB-170 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.661
Median: 0.535



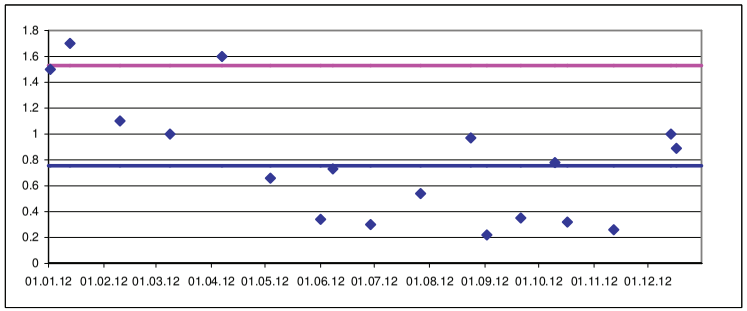
PCB-180 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 1.03
Median: 0.85



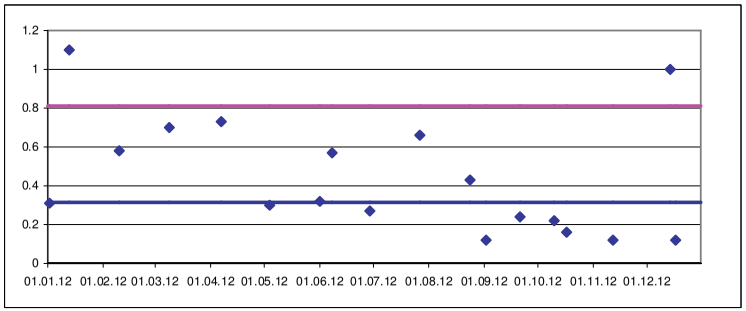
1,2,3-Trichlorbenzol
[µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.315
Median: 0.165



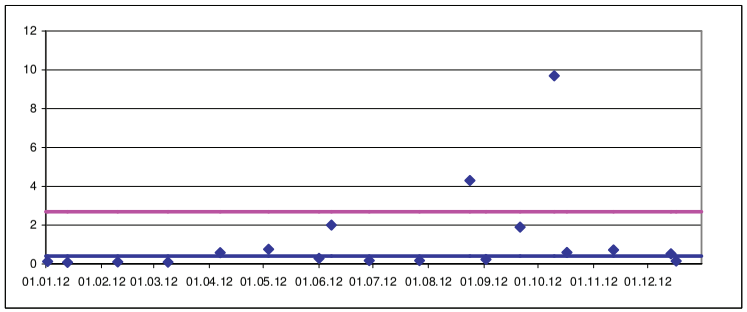
1,2,4-Trichlorbenzol
[µg/kg_TS]
SAMMELPROBE
90-Perzentil: 1.53
Median: 0.755



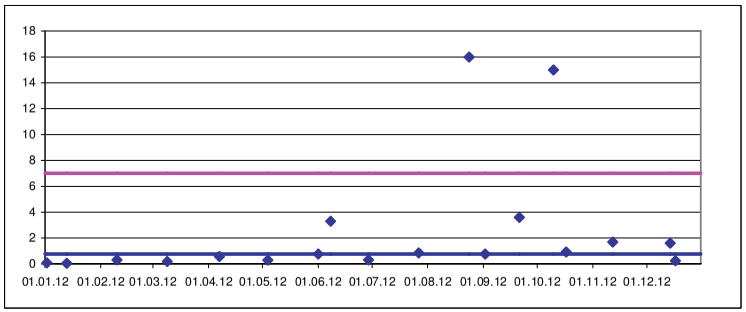
1,3,5-Trichlorbenzol
[µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.811
Median: 0.315



alpha-HCH [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 2.69
Median: 0.405



Beta-HCH [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 7.02
Median: 0.765



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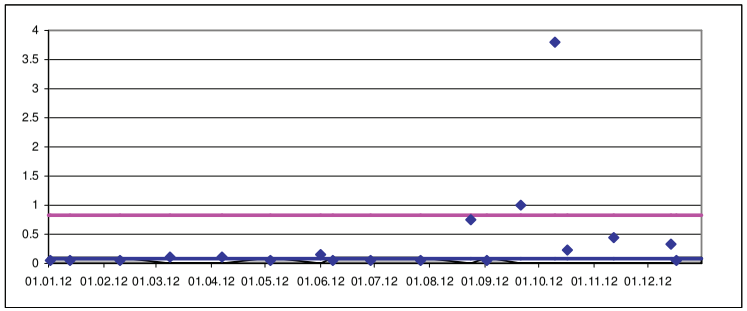
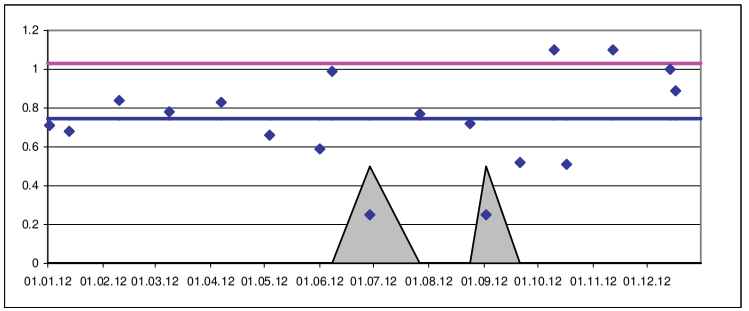
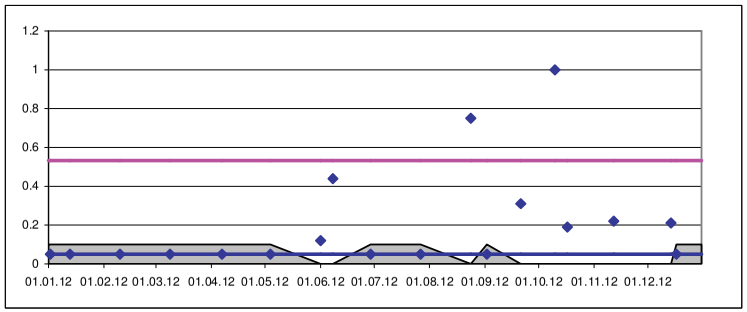
Delta-HCH [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.825
Median: 0.08



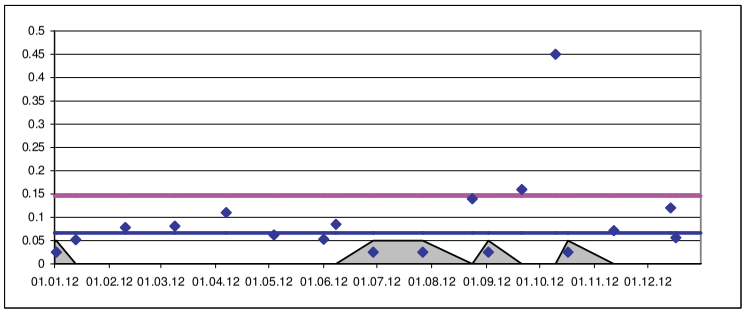
Endrin [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 1.03
Median: 0.745



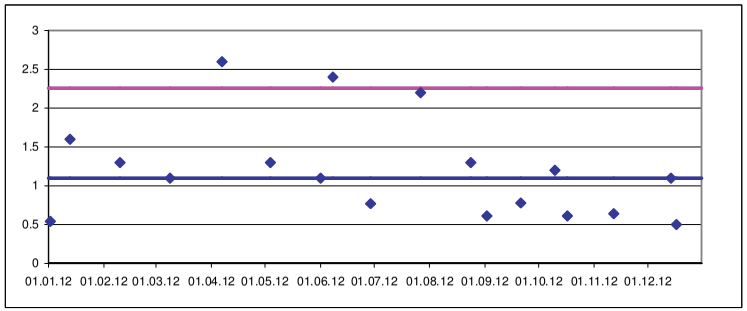
Epsilon-HCH [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.533
Median: 0.05



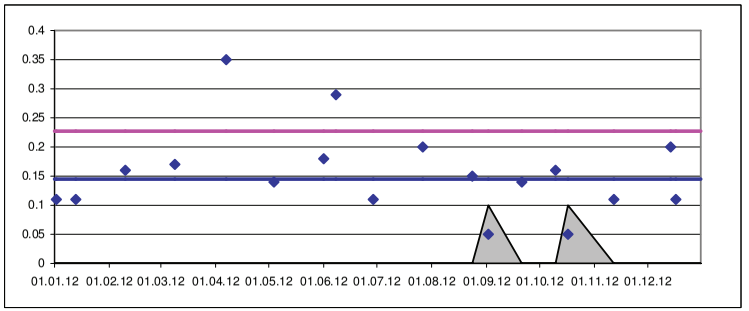
Gamma-HCH [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.146
Median: 0.0665



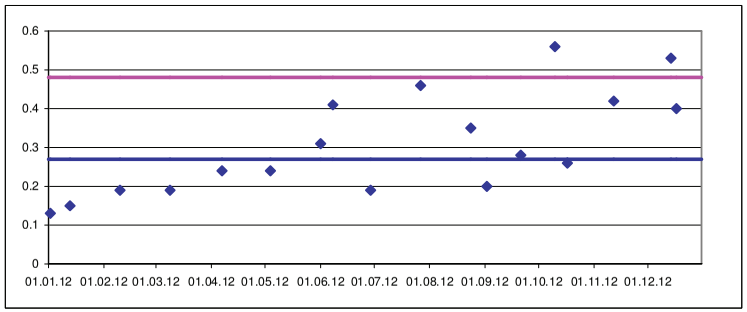
Hexachlorbenzol [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 2.26
Median: 1.1



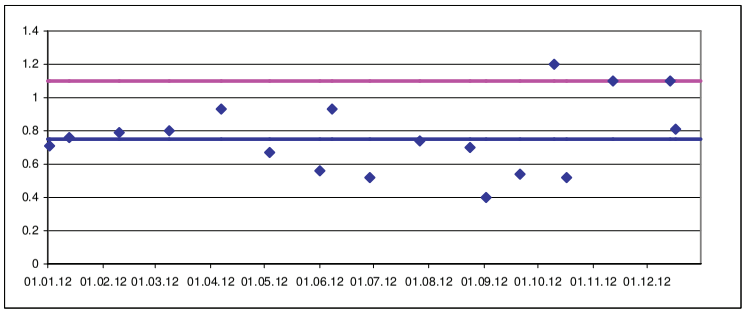
o,p-DDD [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.227
Median: 0.145



p,p-DDD [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.481
Median: 0.27



p,p-DDE [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 1.1
Median: 0.75



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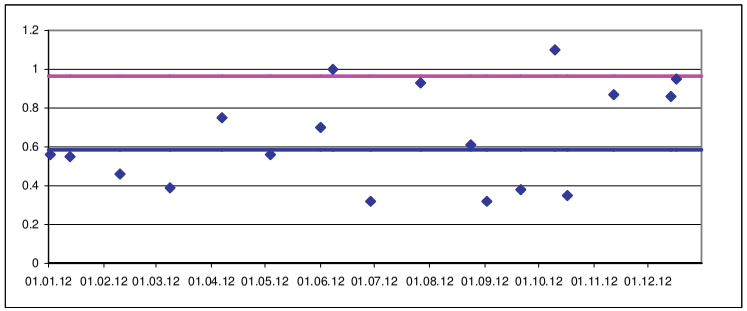
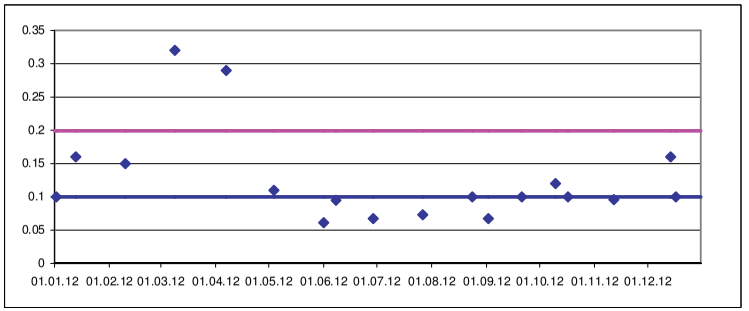
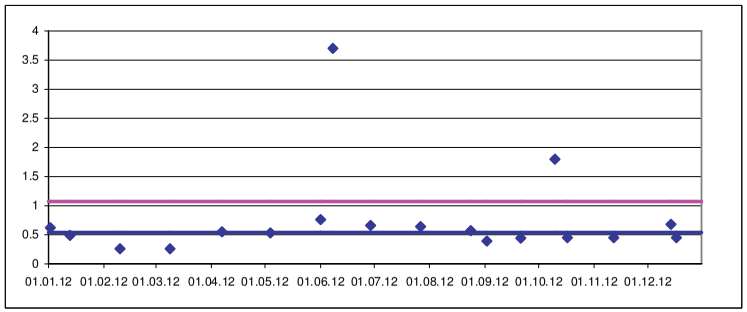
p,p-DDT [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.965
Median: 0.585



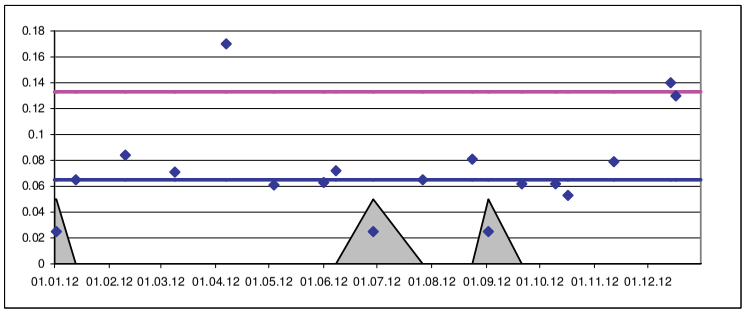
Pentachloranisol [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.199
Median: 0.1



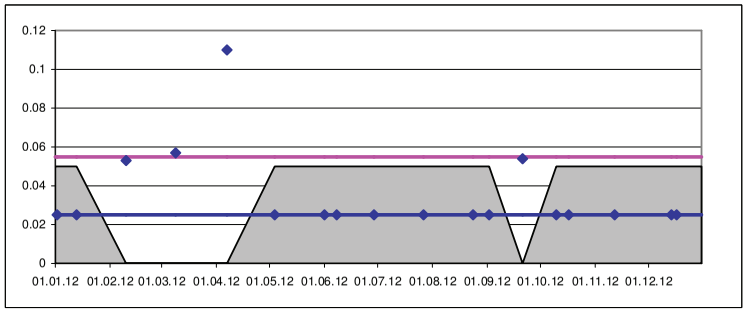
Pentachlorbenzol [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 1.07
Median: 0.54



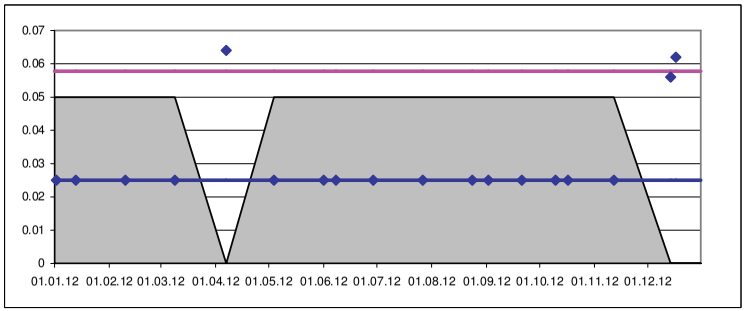
BDE-100 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.133
Median: 0.065



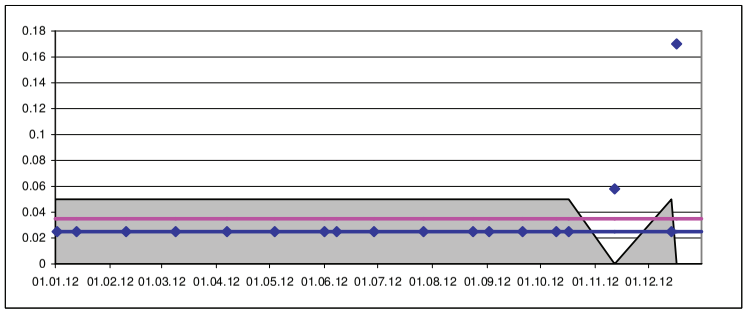
BDE-153 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.0549
Median: 0.025



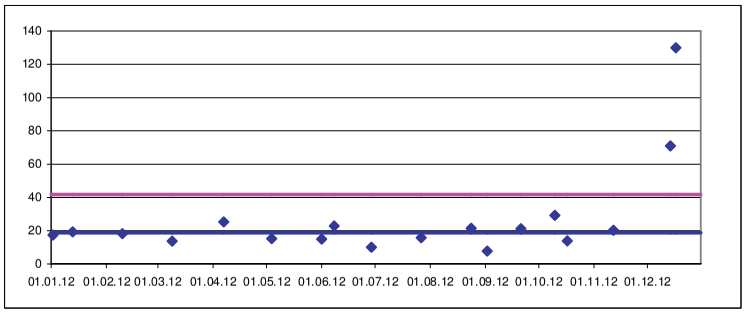
BDE-154 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.0578
Median: 0.025



BDE-183 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.0349
Median: 0.025



BDE-209 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 41.7
Median: 18.8



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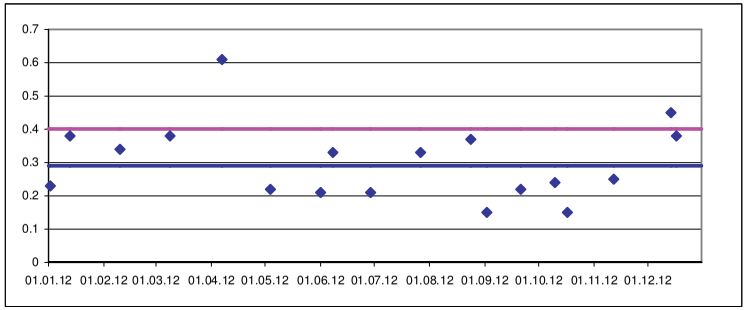
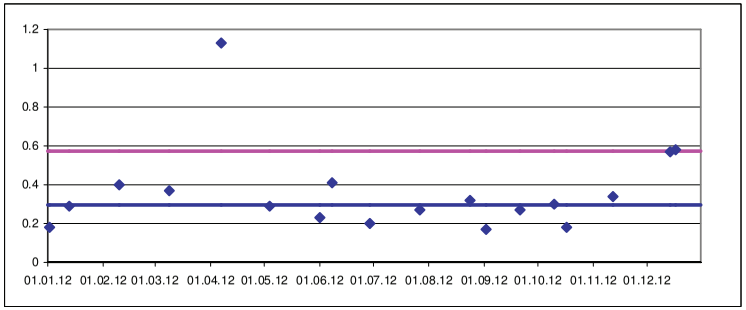
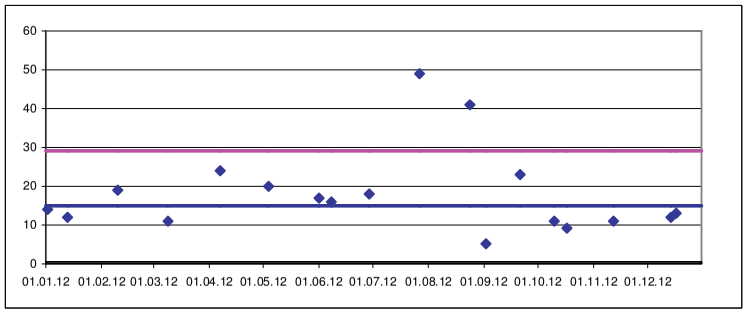
BDE-47 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.401
Median: 0.29



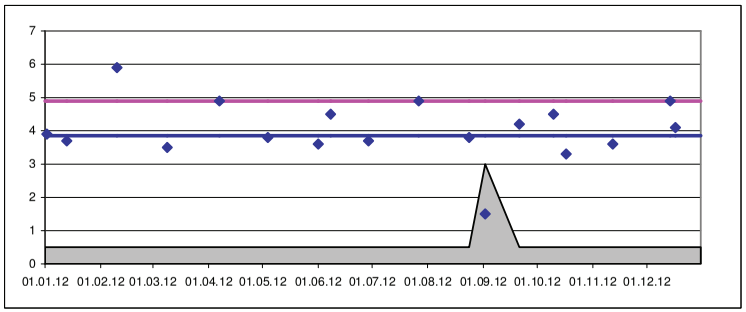
BDE-99 [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 0.573
Median: 0.295



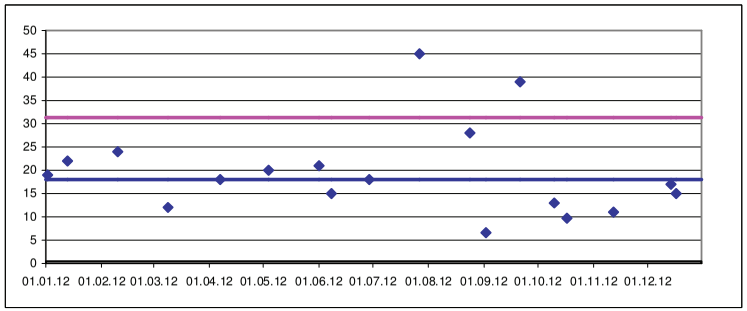
Dibutylzinnkation [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 29.1
Median: 15



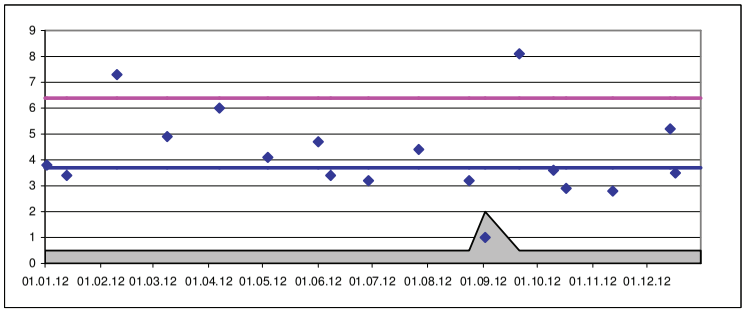
Dioctylzinnkation [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 4.9
Median: 3.85



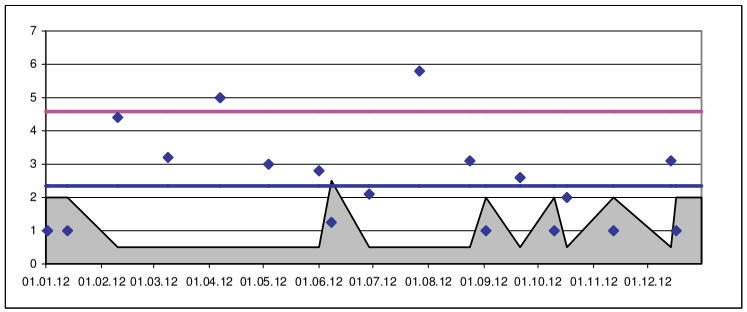
Monobutylzinnkation
[µg/kg_TS]
SAMMELPROBE
90-Perzentil: 31.3
Median: 18



Monooctylzinnkation
[µg/kg_TS]
SAMMELPROBE
90-Perzentil: 6.39
Median: 3.7



Tributylzinnkation [µg/kg_TS]
SAMMELPROBE
90-Perzentil: 4.58
Median: 2.35



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