

US EPA ARCHIVE DOCUMENT

Supplementary Table 7. Comparison of Recovery of Sonication Spiked Surrogates to Their Respective Unlabelled Analogs previously vacuum spiked into tissue samples

compound ^b	30 min ^a		190 min		1000 min		1170 min		1590 min	
	recovery ^c	dev ^d	recovery	dev	recovery	dev	recovery	dev	recovery	dev
benzene	85%	7%	81%	7%	97%	3%	97%	6%	103%	10%
1,2-dichloroethane	83%	8%	83%	6%	85%	7%	105%	28%	82%	7%
1,2-dichloropropane	86%	8%	80%	8%	84%	3%	97%	12%	81%	7%
dioxane	116%	16%	110%	16%	98%	1%	120%	17%	101%	1%
toluene	cont ^e		cont		cont		cont		cont	
1,1,2-trichloroethane	83%	5%	85%	6%	90%	5%	99%	6%	88%	2%
pyridine	87%	22%	82%	22%	102%	3%	97%	22%	75%	15%
1,2-dibromoethane	86%	6%	88%	6%	92%	3%	96%	6%	88%	3%
chlorobenzene	80%	12%	87%	10%	86%	4%	97%	7%	87%	3%
o-Xylene	79%	13%	86%	10%	89%	3%	102%	7%	98%	10%
bromobenzene	67%	15%	80%	13%	88%	1%	95%	8%	86%	1%
1,2-dichlorobenzene	64%	15%	80%	12%	91%	3%	94%	7%	86%	3%
1,2,4-trichlorobenzene	49%	22%	68%	14%	84%	7%	90%	7%	74%	6%
naphthalene	69%	19%	102%	8%	90%	4%	119%	6%	90%	3%
methylnaphthalene	41%	18%	51%	17%	74%	6%	71%	24%	57%	10%
Recovery (average, dev)	79%	13%	85%	11%	90%	4%	101%	11%	88%	5%

^aPeriod of sonication equilibration for surrogate compounds. Analog analytes were vacuum spiked for 120 min prior to the surrogate addition. Samples were 1 g aliquots of canned tuna and analytes were at concentrations 10 times those listed in Table 1.

^bList of surrogate-analytes that are analogs and used for this comparison.

^cResponse of surrogate (normalized to standard) to response of unlabeled analyte (normalized to standard) as a percent.

^dStandard deviation (1 sigma) for replicate analyses.

^eThis analyte was a laboratory contaminant during this study.