Vista Analytical Laboratory

Method 8290 Target Compounds and Quantitation Limits

	Aqueous (pg/L)	Solid (pg/g)
2,3,7,8-TCDD	5	0.5
1,2,3,7,8-PeCDD	25	2.5
1,2,3,4,7,8-HxCDD	25	2.5
1,2,3,6,7,8-HxCDD	25	2.5
1,2,3,7,8,9-HxCDD	25	2.5
1,2,3,4,6,7,8-HpCDD	25	2.5
OCDD	50	5.0
2,3,7,8-TCDF	5	0.5
1,2,3,7,8-PeCDF	25	2.5
2,3,4,7,8-PeCDF	25	2.5
1,2,3,4,7,8-HxCDF	25	2.5
1,2,3,6,7,8-HxCDF	25	2.5
2,3,4,6,7,8-HxCDF	25	2.5
1,2,3,7,8,9-HxCDF	25	2.5
1,2,3,4,6,7,8-HpCDF	25	2.5
1,2,3,4,7,8,9-HpCDF	25	2.5
OCDF	50	5.0

Quantitation limits listed are based upon 1 liter of aqueous sample, 10 grams dry weight solid.

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Method 1613B QC Acceptance Criteria

CDD/CDF	Conc. (ng/mL)	OPR (ng/mL)	VER (ng/mL)
2,3,7,8-TCDD	10	6.7-15.8	7.8-12.9
2,3,7,8-TCDF	10	7.5-15.8	8.4-12.0
1,2,3,7,8-PeCDD	50	35-71	39-65
1,2,3,7,8-PeCDF	50	40-67	41-60
2,3,4,7,8-PeCDF	50	34-80	41-61
1,2,3,4,7,8-HxCDD	50	35-82	39-64
1,2,3,6,7,8-HxCDD	50	38-67	39-64
1,2,3,7,8,9-HxCDD	50	32-81	41-61
1,2,3,4,7,8-HxCDF	50	36-67	45-56
1,2,3,6,7,8-HxCDF	50	42-65	44-57
1,2,3,7,8,9-HxCDF	50	39-65	45-56
2,3,4,6,7,8-HxCDF	50	35-78	44-57
1,2,3,4,6,7,8-HpCDD	50	35-70	43-58
1,2,3,4,6,7,8-HpCDF	50	41-61	45-55
1,2,3,4,7,8,9-HpCDF	50	39-69	43-58
OCDD	100	78-144	79-126
OCDF	100	63-170	63-159
$^{13}C_{12}$-2,3,7,8-TCDD	100	20-175	82-121
$^{13}C_{12}$-2,3,7,8-TCDF	100	22-152	71-140
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	21-227	62-160
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	21-192	76-130
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	13-328	77-130
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	21-193	85-117
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	25-163	85-118
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	19-202	76-131
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	21-159	70-143
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	17-205	74-135
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	22-176	73-137
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	26-166	72-138
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	21-158	78-129
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	20-186	77-129
$^{13}C_{12}$-OCDD	200	26-397	96-415
$^{13}C_{12}$-OCDF	200	26-397	96-415
$^{37}Cl_4$-2,3,7,8-TCDD	10	3.1-19.1	7.9-12.7