

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : 68HERH20D0011
 Lab Code : CHM Case No. : 50815 MA No. : SDG No. : H0FJ2
 Analytical Method : VOA Level : LOW
 Matrix Soil
 EPA Sample No.(Matrix Spike/Matrix Spike Duplicate): H0FJ2
 Instrument ID : MSVOA_W GC Column RXI-624 ID : 0.25 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/Kg

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
Dichlorodifluoromethane	210	0	150	71	0 - 0
Chloromethane	210	0	170	81	0 - 0
Vinyl Chloride	210	0	180	86	0 - 0
Bromomethane	210	0	170	81	0 - 0
Chloroethane	210	0	200	95	0 - 0
Trichlorofluoromethane	210	0	180	86	0 - 0
1,1-Dichloroethene	210	0	180	86	59 - 172
1,1,2-Trichloro-1,2,2-trifluoro	210	0	180	86	0 - 0
Acetone	420	240	500	62	0 - 0
Carbon disulfide	210	0	160	76	0 - 0
Methyl acetate	210	0	110	52	0 - 0
Methylene chloride	210	21	140	57	0 - 0
trans-1,2-Dichloroethene	210	0	180	86	0 - 0
Methyl tert-Butyl ether	210	0	190	90	0 - 0
1,1-Dichloroethane	210	0	200	95	0 - 0
cis-1,2-Dichloroethene	210	0	190	90	0 - 0
2-Butanone	420	0	380	90	0 - 0
Bromochloromethane	210	0	190	90	0 - 0
Chloroform	210	0	200	95	0 - 0
1,1,1-Trichloroethane	210	0	200	95	0 - 0
Cyclohexane	210	0	180	86	0 - 0
Carbon Tetrachloride	210	0	190	90	0 - 0
Benzene	210	0	200	95	66 - 142
1,2-Dichloroethane	210	0	190	90	0 - 0
Trichloroethene	210	0	190	90	62 - 137
Methylcyclohexane	210	0	160	76	0 - 0
1,2-Dichloropropane	210	0	200	95	0 - 0
Bromodichloromethane	210	0	200	95	0 - 0
cis-1,3-Dichloropropene	210	0	180	86	0 - 0
4-Methyl-2-pentanone	420	0	370	88	0 - 0
Toluene	210	0	200	95	59 - 139
trans-1,3-Dichloropropene	210	0	190	90	0 - 0
1,1,2-Trichloroethane	210	0	200	95	0 - 0
Tetrachloroethene	210	0	180	86	0 - 0
2-Hexanone	420	0	390	93	0 - 0
Dibromochloromethane	210	0	190	90	0 - 0
1,2-Dibromoethane	210	0	190	90	0 - 0
Chlorobenzene	210	0	190	90	60 - 133
Ethylbenzene	210	0	200	95	0 - 0
o-Xylene	210	0	200	95	0 - 0
m,p-Xylene	210	0	190	90	0 - 0
Styrene	210	0	190	90	0 - 0
Bromoform	210	0	220	105	0 - 0

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 EPA Sample No.(Matrix Spike/Matrix Spike Duplicate): H0FJ2
 Instrument ID : MSVOA_W GC Column RXI-624 ID : 0.25 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/Kg

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
Isopropylbenzene	210	0	220	105	0 - 0
1,2,3-Trichloropropane	210	0	210	100	0 - 0
1,1,2,2-Tetrachloroethane	210	0	180	86	0 - 0
1,3-Dichlorobenzene	210	0	190	90	0 - 0
1,4-Dichlorobenzene	210	0	190	90	0 - 0
1,2-Dichlorobenzene	210	0	190	90	0 - 0
1,2-Dibromo-3-chloropropane	210	0	180	86	0 - 0
1,2,4-Trimethylbenzene	210	0	210	100	0 - 0
1,3,5-Trimethylbenzene	210	0	210	100	0 - 0
1,2,4-Trichlorobenzene	210	0	120	57	0 - 0
1,2,3-Trichlorobenzene	210	0	110	52	0 - 0

ANALYTE	SPIKE AADDED	MSD CONCENTRATION	MSD %R #	RPD	QC Limits	
					RPD	%R
						-

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ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R	
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ANALYTE	SPIKE AADDED	MSD CONCENTRATION	MSD %R #	RPD	QC Limits	
					RPD	%R
Dichlorodifluoromethane	270	290	107	134	0	0 - 0
Chloromethane	270	270	100	119	0	0 - 0
Vinyl Chloride	270	260	96	112	0	0 - 0
Bromomethane	270	220	81	105	0	0 - 0
Chloroethane	270	300	111	117	0	0 - 0
Trichlorofluoromethane	270	280	104	120	0	0 - 0
1,1-Dichloroethene	270	270	100	115 *	22	59 - 172
1,1,2-Trichloro-1,2,2-trifluoro	270	260	96	113	0	0 - 0
Acetone	540	700	85	112	0	0 - 0
Carbon disulfide	270	230	85	114	0	0 - 0
Methyl acetate	270	99	37	77	0	0 - 0
Methylene chloride	270	220	74	119	0	0 - 0
trans-1,2-Dichloroethene	270	260	96	115	0	0 - 0
Methyl tert-Butyl ether	270	280	104	115	0	0 - 0
1,1-Dichloroethane	270	280	104	114	0	0 - 0
cis-1,2-Dichloroethene	270	280	104	114	0	0 - 0
2-Butanone	540	540	100	113	0	0 - 0
Bromochloromethane	270	280	104	115	0	0 - 0
Chloroform	270	290	107	113	0	0 - 0
1,1,1-Trichloroethane	270	300	111	116	0	0 - 0
Cyclohexane	270	250	93	113	0	0 - 0
Carbon Tetrachloride	270	270	100	110	0	0 - 0
Benzene	270	300	111	116 *	21	66 - 142
1,2-Dichloroethane	270	270	100	113	0	0 - 0
Trichloroethene	270	290	107	115 *	24	62 - 137
Methylcyclohexane	270	210	78	107	0	0 - 0
1,2-Dichloropropane	270	310	115	117	0	0 - 0

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Bromodichloromethane	270	270	100	109	0	0 - 0
cis-1,3-Dichloropropene	270	220	81	102	0	0 - 0
4-Methyl-2-pentanone	540	550	102	115	0	0 - 0
Toluene	270	290	107	113 *	21	59 - 139
trans-1,3-Dichloropropene	270	230	85	103	0	0 - 0
1,1,2-Trichloroethane	270	290	107	115	0	0 - 0
Tetrachloroethene	270	260	96	112	0	0 - 0
2-Hexanone	540	560	104	114	0	0 - 0
Dibromochloromethane	270	260	96	108	0	0 - 0
1,2-Dibromoethane	270	270	100	112	0	0 - 0
Chlorobenzene	270	270	100	112 *	21	60 - 133
Ethylbenzene	270	270	100	112	0	0 - 0
o-Xylene	270	270	100	109	0	0 - 0
m,p-Xylene	270	270	100	111	0	0 - 0
Styrene	270	260	96	109	0	0 - 0
Bromoform	270	310	115	113	0	0 - 0
Isopropylbenzene	270	340	126	119	0	0 - 0
1,2,3-Trichloropropane	270	350	130	124	0	0 - 0
1,1,2,2-Tetrachloroethane	270	250	93	111	0	0 - 0
1,3-Dichlorobenzene	270	260	96	112	0	0 - 0
1,4-Dichlorobenzene	270	270	100	114	0	0 - 0
1,2-Dichlorobenzene	270	270	100	112	0	0 - 0
1,2-Dibromo-3-chloropropane	270	290	107	119	0	0 - 0
1,2,4-Trimethylbenzene	270	310	115	116	0	0 - 0
1,3,5-Trimethylbenzene	270	310	115	116	0	0 - 0
1,2,4-Trichlorobenzene	270	150	56	102	0	0 - 0
1,2,3-Trichlorobenzene	270	140	52	105	0	0 - 0